



Funded by the European Union



22BG06

# Guidance on developing a monitoring and reporting framework for Bulgaria's Skills Action Plan

Output 3: 22BG06 – Technical support for the development of a National Skills Strategy for the Republic of Bulgaria

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### Foreword

The OECD and the Directorate General for Structural Reform Support (DG Reform) are co-operating to provide technical assistance to Bulgaria as part of the Project "Technical support for the development of a National Skills Strategy for the Republic of Bulgaria". The project will enable the Bulgarian Government to implement a national skills action plan with a comprehensive set of skills policy actions, in line with their national priorities. This report is one intermediary output in the framework of the Project, and aims to identify relevant activities, instruments, responsibilities, timelines and potential funding sources for inclusion in an action plan for skills in Bulgaria. Building on the objectives and policy actions identified in the previous report, the content of this report provides Bulgarian officials and stakeholders with more detailed input to consider for inclusion in the action plan for skills.

The project "Technical support for the development of a National Skills Strategy for the Republic of Bulgaria" was funded by the European Union via the Technical Support Instrument (REFORM/IM2022/008), and implemented by the OECD, in cooperation with the European Commission. This report was produced with the financial assistance of the European Union. The views expressed herein can in no way be taken to reflect the official opinion of the European Union.

## **Abbreviations and acronyms**

The following are the main abbreviations and acronyms cited in the report.

Abbreviation/acronym	Full description	
AES	Adult Education Survey	
AET	Adult education and training	
ALMP	Active labour market policies	
BSMEPA	Bulgarian Small and Medium Enterprises Promotion Agency	
CCVET	Consultative Council for Vocational Education and Training	
CPD	Continuous professional development	
CVET	Continuing Vocational Education and Training	
CVTS	Continuing Vocational Training Survey	
DEC	Data and Evidence Centre	
ECD	Early childhood education	
ECEC	Early childhood education and care	
EDG	Education Development Guidelines	
ESF+	European Social Fund Plus	
ESIF	European Structural and Investment Funds	
EU	European Union	
GDP	Gross domestic product	
GERD	Gross domestic expenditure on R&D	
HPWPs	high-performance workplace practices	
ILO	International Labour Organisation	
ITE	Initial teacher training	
LFS	Labour Force Survey	
LMI	Labour market information	
MEI	Ministry of Economy and Industry	
MES	Ministry of Education and Science	
MIG	Ministry of Innovation and Growth	
MLSP	Ministry of Labour and Social Policy	
MIS	Management information system	
NAVET	National Agency for Vocational Education and Training	
NDP	National Development Programme	

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NEA	National Employment Agency	
NRRP	National Recovery and Resilience Plan	
NSI	National Statistical Institute	
NSSI	National Social Security Institute	
OECD	Organisation for Economic Co-operation and Development	
PISA	Programme for International Student Assessment	
REDs	regional education departments	
RPL	recognition of prior learning	
RRF	Recovery and Resilience Facility	
SAA	skills assessment and anticipation	
SDIPD	Strategic Development and Information Policy Directorate	
SMEs	Small and Medium-sized Enterprises	
SPC	Skills Policy Council	
SSCs	sectoral skills councils	
TALIS	Teaching and Learning International Survey	
TSI	Technical Support Instrument	
VET	Vocational education and training	
VTCs	Vocational Training Centres	
WBL	work-based learning	

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#### Background

Skills are vital for enabling individuals and countries to thrive in an increasingly complex, interconnected and rapidly changing world. For Bulgaria, implementing a strategic approach to skills policies is essential, given the country's exposure to demographic and digital disruptions and persistent inequalities among different social groups. Against this backdrop, the "Technical support for the development of a National Skills Strategy for the Republic of Bulgaria" project (TSI project) provides guidance to the Bulgarian Government for developing an Action Plan for Skills that supports the country in developing and implementing a comprehensive set of skills policy actions.

This report is Output 3 of the TSI Project. Output 1 outlined medium-term goals, or "objectives" and high-level "priority policy actions" that Bulgaria intends to implement in its Action Plan for Skills. Output 2 then expanded upon this to establish finer details of executing the action plan by defining concrete activities, and for each of these proposing responsible entities, timelines, and potential funding sources essential for the plan's implementation. Output 3 provides guidance for developing a monitoring and reporting framework for measuring implementation progress of the skills policy actions identified in Outputs 1 and 2.

To develop an effective monitoring and reporting framework for Bulgaria's Action Plan for Skills, the present report includes:

- A description of existing Bulgarian and EU-level regulations on monitoring and reporting (Chapter 3)
- Proposed milestones and indicators in four priority areas for an Action Plan for Skills (Chapter 4)
- An outline of a larger monitoring and reporting framework for an Action Plan for Skills and a framework for each of the four priority areas (Chapter 5).

#### EU and Bulgarian requirements for monitoring and reporting

Aligning indicators to track implementation of a Skills Action Plan with indicators already being collected for EU programmes or national strategies, to the degree possible, could help to ease the administrative burden for Bulgarian authorities of effectively adhering to the proposed monitoring and reporting framework for an Action Plan for Skills in Bulgaria.

In Bulgaria, there is currently no established framework for strategic planning that lays out clear standards, rules, and procedures for the preparation, monitoring, and reporting across all strategic documents. In line with Article 63 of Bulgaria's Law on Administration, ministries, commissions and agencies, as well as regional administrations, are obligated to report to the Council of Ministers at the beginning of each year on the implementation of strategic goals from the preceding year for strategies for which they are designated as the leading institution (Bulgaria Council of Ministers, 1998<sub>[1]</sub>). However, the monitoring of national strategies and action plans implementation is currently underdeveloped, lacking defined rules and procedures for comprehensive systemic monitoring and impact evaluation (OECD, 2022<sub>[2]</sub>).

For the purpose of an Action Plan for Skills in Bulgaria, indicators from a number of related strategies have been adopted or adapted as indicators proposed in the tables in Chapter 4. The strategies with relevant indicators include: the National Development Programme Bulgaria 2030; the Strategic Framework for the Development of Education, Training, and Learning in the Republic of Bulgaria 2021-2030; the Employment Strategy of the Republic of Bulgaria 2021-2030; the Innovative Strategy for Smart Specialisation 2021-2027; and the National Strategy for Small and Medium Enterprises (SMEs) 2021-2027.

Furthermore, for EU-funded programmes, Bulgaria employs both EU-wide regulations that establish standards for overseeing the implementation of such programmes across Member States, as well as its own national guidelines for monitoring and reporting on EU-level programmes. The EU-level programmes most relevant to an Action Plan for Skills for Bulgaria are the European Social Fund Plus (ESF+) and the Recovery and Resilience Facility (RRF), both of which have been designated as potential funding sources for a number of specific skills activities detailed in Output 2 of this project.

Both ESF+ and RRF are covered under the Partnership Agreement on the European Structural and Investment Funds (ESIF) for Bulgaria (both the agreement for 2014-2020 and for 2021-2027). The Law on Management of Resources from the European Structural and Investment Funds (ESIF) Act in Bulgaria introduces special mechanisms to ensure the proper administration, monitoring, and evaluation of the Partnership Agreement and the EU-funded programmes by adapting the EU's regulatory framework to the specific Bulgarian context and establishes the necessary legal grounds for the national authorities to manage the funds in accordance with both national and EU law (Bulgaria Council of Ministers, 2015<sub>[3]</sub>)). The law also regulates the establishment of a Bulgarian national Information System for Management and Monitoring of ESIF Resources (UMIS). The goal of the management, monitoring, evaluation, and control of all Bulgarian programmes funded by the ESIF and maintain the collected accurate and reliable information in one location, with operational standards set by the Council of Ministers. The Council of Ministers is also responsible for approving the Partnership Agreement, setting priorities, and overseeing the implementation of these programmes.

More information on specific indicators adopted or adapted from Bulgarian national strategies and EU-level programmes can be found in Chapter 3.

#### Milestones and indicators for monitoring Bulgaria's Action Plan for Skills

As part of the larger monitoring and reporting framework, the OECD team has proposed a set of milestones and indicators to measure the implementation progress of Bulgaria's Action Plan for Skills. The milestones are specific activities in the Action Plan for Skills, such as the establishment of governance bodies or the development of more specific policy plans, the achievement of which is often binary, and that tend to be prerequisites for the implementation of other activities in the Action Plan that are better captured through the collection of indicator data. Indicators, on the other hand, aim to provide accurate, timely, and reliable information on the progress of the implementation of the activities in the Action Plan, reflecting relative increases or decreases over time.

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For each proposed indicator, the OECD has included the following information: indicator name and reference number<sup>1</sup>, indicator type (e.g., input, uptake, outcome<sup>2</sup>), disaggregation (e.g., age group, municipality, sector, type of activity), data considerations (e.g., feasibility, data source and collector, frequency of collection), link to specific activities proposed for inclusion in an Action Plan for Skills (to clearly cross-reference indicators with the activities for which they are measuring progress), and a baseline value (where relevant and available).

Specific milestones and indicators are displayed below for each of the following four priority areas: developing youth skills, improving adult skills, using skills effectively in the labour market and society and strengthening the governance of the skills system.

#### Developing youth skills

The milestones and indicators for developing youth skills aim to capture the degree to which Bulgaria is increasing the skills level of the next generation by improving the development and acquisition of skills from early childhood and through post-secondary vocational and higher education. Six milestones have been identified for the priority area of developing youth skills – four over the short term and two over the medium term (Box 4.2). The short-term milestones focusing on developing key institutions and systems to track evidence over time include establishing centres providing Early Childhood Development (ECD) services for children and their parents from vulnerable groups (YS.A), operationalising the National Quality Framework for early childhood education and care (ECEC) (YS.B), developing a school-based formative appraisal of training needs (YS.C), and developing indicators to evaluate continuing professional development (CPD) programmes for teachers (YS.D). The two milestones for the medium term both involve creating more systemic changes within academic institutions including establishing a more selective admission system for initial teacher education (YS.E) and developing labour market information indicators for higher education institutions (YS.F). In addition to these six milestones, 18 indicators have been identified – seven input indicators, six uptake indicators, and five outcome indicators. The indicators for the priority area on developing youth skills are summarised in Table 1.1.

Indicator name and reference number		Indicator	Output 2 activities linked to the indicator
		type	
	Objective 1: Improving early o	childhood dev	velopment, participation and outcomes
Policy Action 1.1: Increasing the participation of young children in early childhood education and care (ECEC)			
YS.1	Expenditure on activities to increase the participation of young children in ECEC	Input	Activity 1.1.1: Improve access to ECEC and the transition to primary education for every child Activity 1.1.2: Expand general and additional support for participating in ECEC for children and their parents
YS.2	Number and share of families/households receiving support to increase the participation of young children in ECEC	Uptake	Activities 1.1.1 and 1.1.2

#### Table 1.1. Summary of indicators for priority area 1: Developing youth skills

<sup>1</sup> The reference numbers are formed based on the initials of the priority area to which the indicator belongs: YS for developing youth skills, AS for developing adult skills, USE for using skills effectively, and GOV for strengthening the governance of the skills system. In each priority area, these initials are followed by numbers to refer to indicators (e.g., Indicator YS.1) and by letters to refer to milestones (e.g., Milestone YS.A) in order to distinguish between the two.

<sup>2</sup> Inputs refer to the financial and human resources that are devoted to the implementation of the activities in the Action Plan for Skills. Uptake refers to the number and share of participants (e.g., individuals, enterprises, education and training providers) that take part in the activities, while outcomes refer to the effects of their participation in such activities, as observed in their educational and labour market conditions. It is important to take note how these indicators are referred to differently in European programmes and reporting processes. "Uptake" in this report would refer to "output", and "output" in this report would refer to "results" as per <u>EU Regulation 2021/2060</u>.

	Indicator name and reference number	Indicator type	Output 2 activities linked to the indicator
YS.3	Share of children enrolled in child care and pre- school education institutions, out of total age group	Outcome	Activities 1.1.1 and 1.1.2
	Policy Action	n 1.2: Improvir	ng the quality of ECEC
YS.4	Student-to-staff ratio in childcare and pre-school: Number of pedagogical staff in pre-primary education per number of students enrolled in pre- primary education	Input	Activity 1.2.1: Improve the quality of pedagogical and non- pedagogical staff in ECEC
YS.5	Share of ECEC staff who have participated in ongoing education and training in the last 12 months	Uptake	Activity 1.2.1
Obje	ctive 2: Ensuring that curriculum reform and asses	sment practi	ces improve students' skills in primary and secondary education
			or competency-based curriculum implementation ractices to monitor students' skill levels
YS.6	Expenditure on activities to promote competency- based curriculum implementation	Input	Activity 2.1.1: Increase the active involvement of stakeholders in implementing curriculum reform Activity 2.1.2: Reinforce the capacity of regional education departments (REDs) to provide methodological support to teachers in implementing the competency-based curriculum Activity 2.2.1: Align external assessments with the competency- based curriculum Activity 2.2.2: Strengthen the national external assessment system
YS.7	Programme for International Student Assessment (PISA) mean score in reading, maths and science; average 3-year trend in reading, maths and science	Outcome	Activities 2.1.1, 2.1.2 Activity 1.2.1 <sup>3</sup>
	Objective	3: Improving	equity in education
	Policy Action 3.1: Promoting	educational e	quity among different types of students
		derstanding ar	nd social integration of students in the school environment
YS.8	Resources and expenditure on initiatives to improve equity in education	Input	Activity 3.1.1: Support full participation in the educational process of children and students with different educational needs (including students in special education and gifted students) Activity 3.1.2: Better tailor educational services to the needs of specific students or groups or students Activity 3.2.1: Foster multicultural understanding in schools Activity 3.2.2: Support greater integration of vulnerable students into the school environment
YS.9	Number of students receiving support services for social integration into the school environment	Uptake	Activities 3.1.1, 3.1.2, 3.2.1, 3.2.2
YS.10	Index of self-efficacy; score in reading, mathematics at age 15	Outcome	Activities 3.1.1, 3.1.2, 3.2.1, 3.2.2
	Objective 4: Develo	oping a highl	y skilled teaching workforce
			etaining high-quality teaching candidates evelopment of teachers' skills and knowledge
YS.11	Expenditure on activities to select, prepare and retain high-quality teaching candidates	Input	Activity 4.1.1: Introduce a more selective and comprehensive admission system for initial teacher education (ITE) to ensure the suitability and quality of teaching candidates Activity 4.1.2: Improve the quality and relevance of ITE by aligning it more closely with classroom practice, including by expanding and supporting teaching practicum Activity 4.2.1: Align continuing professional development (CPD) programmes more closely to teachers' training needs by improving the collection and use of appraisal, assessment and evaluation data in CPD planning

<sup>3</sup> Though somewhat removed temporally from early childhood education and care, Indicator YS.7 could potentially also be used as a proxy outcome indicator under Objective 1, Policy Action 1.2: "Improving the quality of ECEC".

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Indicator name and reference number		Indicator type	Output 2 activities linked to the indicator	
			Activity 4.2.2: Strengthen the quality assurance of teachers' CPD through preliminary assessment of the CPD offer and systematic evaluation of CPD outcomes	
YS.12	Share of teachers who participated in CPD in the last 12 months	Uptake	Activities 4.2.1 and 4.2.2	
	Objective 5: Making vocational and I	nigher educa	tion more responsive to labour market needs	
Poli			nent and provision of initial Vocational Education and Training (VET) to the digital and green economy	
YS.13	Expenditure on financial support to encourage businesses to provide work-based learning (WBL) opportunities to VET students	Input	Activity 5.1.2: Improve financial and non-financial support to enterprises and students to engage in work-based learning (WBL)	
YS.14	Number of VET students who are enrolled in work- based learning (WBL) during a specific academic year	Uptake	Activity 5.1.2	
YS.15	Employment rate of VET graduates 1-3 years after graduation	Outcome	Activity 5.1.2	
	Policy Action 5.2: Increasing the relev	ance of highe	r education to labour market and student needs	
YS.16	Resources used to steer higher education students into prioritised fields	Input	Activity 5.2.1: Strengthen higher education institutions' capacity to align their educational offers in relevant fields of study with labour market needs Activity 5.2.2: Continue to provide financial aid and expand non-	
			financial measures to support students from disadvantaged backgrounds in higher education, especially in programmes meeting priority skills needs	
YS.17	Share of student enrolment and completions in fields designated as facing skills shortages and/or being of strategic importance	Uptake	Activity 5.2.1	
YS.18	Employment rate of higher education graduates 1- 3 years after graduation	Outcome	Activity 5.2.1	

#### Improving adult skills

The milestones and indicators for developing adult skills are intended to track progress in increasing the frequency and quality of lifelong learning through adulthood in Bulgaria. There are four milestones within the priority area of improving adult skills, three of which are meant to be realised in the short term and one in the medium term (Box 4.3). Two of the milestones for the short term are related to improving Bulgaria's process for the recognition of prior learning (RPL) by streamlining the RPL procedure (AS.A) and altering the design of RPL certificates (AS.B). The other milestone designated for the short term aims to help Bulgarian officials understand at a more systemic level which skills and areas of adult education and training should be prioritised and incentivised through skills policy in order to meet the needs of the labour market and the demand for skills among employers (AS.C). In the medium term, there is also a milestone to create greater transparency and credibility in institutions providing adult education and training by developing a process for external, objective assessment (AS.D). In addition to these four milestones, 16 indicators have been identified for the priority area of improving the skills of adults – five input indicators, six uptake indicators, and five outcome indicators. The indicators for the priority area on improving adult skills are summarised in Table 1.2.

	Indicator name and reference number	Indicator type	Output 2 activities linked to the indicator
	Objective 6: Increasing motivation among	adults and employ	ers to participate in adult learning
	ction 6.1: Improving guidance to increase motivation amon		
Policy A	ction 6.2: Improving financial mechanisms to increase moti	vation among individ	uals and employers (including SMEs) to participate in AET
AS.1	Expenditure on activities to improve the motivation of adults to participate in adult education and training (AET)	Input	Activity 6.1.1: Strengthen holistic career guidance services for employed adults Activity 6.2.1: Improve the effectiveness of individual training vouchers
AS.2	Expenditure on activities to improve the motivation of employers to encourage/provide AET for their workers	Input	Activity 6.1.2: Strengthen guidance to employers to assess their skills and training needs Activity 6.2.2: Better engage small- and medium-sized enterprises in adult education and training by piloting a sectoral training fund(s), with relatively higher support for smaller-sized enterprises
AS.3	Number and share of adults receiving support to improve motivation to participate in AET	Uptake	Activities 6.1.1 and 6.2.1
AS.4	Number and share of enterprises receiving support to improve motivation for promoting AET among workers	Uptake	Activities 6.1.2 and 6.2.2
AS.5	Percentage of the adult population (25 to 64 years) who did not participate and did not want to participate in adult education and training	Outcome	Activities 6.1.1 and 6.2.1
	Objective 7: Making education and training	more flexible and a	ccessible for adults and employers
	Policy Action 7.1: Improving the 1	lexibility of adult edu	cation and training offers
AS.6	Number and percentage of AET courses that are offered in a flexible format	Input	Activity 7.1.1: Promote existing flexible adult education and training opportunities Activity 7.1.2: Expand flexible adult education and training opportunities
AS.7	Number and percentage of adults participating in flexible AET courses	Uptake	Activities 7.1.1 and 7.1.2
AS.8	Percentage of adult population (25 to 64 years) wanting to participate in education and training but not	Outcome	Activities 7.1.1 and 7.1.2
	Policy Action 7.2: Improving the equit	ty and accessibility of	f adult education and training
AS.9	Expenditure on improving the RPL system	Input	Activity 7.2.1: Optimise the procedure for the recognition of prior learning (RPL) to encourage greater uptake of RPL services
AS.10	Number and share of adults participating in free basic (primary) education for a specific period (e.g. last 12 months)	Uptake	Activity 7.2.2: Ease access to adult basic education and expand basic education opportunities for learners i other education and training programmes
AS.11	Number and share of AET providers offering RPL services	Uptake	Activity 7.2.1
AS.12	Share of adults with basic education or below who participated in formal or non-formal education and training out of total adults with basic education	Outcome	Activities 7.2.1 and 7.2.2
	Objective 8: Improving the quality and releva	ance of education a	nd training for adults and employers
	Policy Action 8.1: Improving the quality assurance of Policy Action 8.2: Making adult learning		
AS.13	Expenditure on initiatives to improve the quality and relevance of AET	Input	Activity 8.1.1: Strengthen <i>ex ante</i> assessment of adult learning providers Activity 8.1.2: Develop a system for independent, <i>ex</i> <i>post</i> monitoring and assessment of adult learning Activity 8.2.1: Make adult education and training more relevant to the specific needs of adult learners Activity 8.2.2: Align AET with skills needs in the labour market

#### Table 1.2. Summary of indicators for priority area 2: Improving adult skills

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	Indicator name and reference number	Indicator type	Output 2 activities linked to the indicator
AS.14	Number and share of adults enrolled in AET courses in areas on the "list of prioritised areas for AET"	Uptake	Activity 8.2.2
AS.15	Share of people aged 25 to 64 who received formal or non-formal education and training in the four weeks preceding the survey out of the total population of the same age group	Outcome	Activities 8.1.1, 8.1.2, 8.2.1, 8.2.2
AS.16	Percentage of enterprises providing training	Outcome	Activity 8.2.2

#### Using skills effectively

The milestones and indicators for using skills effectively aim to describe how Bulgaria uses the full economic and social value from its investments in developing the skills of its youth and adults. Two milestones have been identified for the priority area on using skills effectively, both of which are set over the medium term and involve activities under Objective 10: Fostering return emigration and skilled immigration to Bulgaria (Box 4.4). Both milestones lay the foundations for the promotion of return emigration and skilled immigration to the country, specifically through the development of a roadmap (USE.A) and an online platform for migration services (USE.B). In addition to these two milestones, 14 indicators have been identified– six of which are inputs, five of which are uptake, and three of which are outcomes. The indicators for the priority area on using skills effectively are summarised in Table 1.3.

	Indicator name	Indicator type	Output 2 activities linked to the indicator			
	Objective 9: Activating the skills of vulnerable groups in the labour market					
	Policy Action 9.1: Strengthening the ef	fectiveness of er	mployment services for vulnerable adults			
USE.1	Number and proportion of National Employment Agency (NEA) mediators assigned to work specifically with members of vulnerable groups	Input	Activity 9.1.2: Increase the frequency and intensity of NEA caseworker interactions with unemployed adults from vulnerable groups to help more of these adults access training and jobs			
USE.2	Expenditure by active labour market policies (ALMP <sup>4</sup> ) intervention	Input	Activity 9.1.3: Place more unemployed adults from vulnerable groups into tailored and labour-market-relevant training programmes by increasing the supply and demand for these programmes			
USE.3	Number of persons (aged 15-64) registered as unemployed with the NEA	Uptake	Activity 9.1.1: Connect more vulnerable adults to employment services			
USE.4	Employment outcomes of participants in NEA services / ALMP programmes targeted at specific population groups	Outcome	Activities 9.1.1, 9.1.2, 9.1.3			
	Policy Action 9.2: Ensu	ring gender equ	ality in the labour market			
USE.5	Expenditure on incentives for enterprises to adopt employment support measures for single parents and parents with many children	Input	Activity 9.2.1: Provide additional support to adults with family care responsibilities, especially women, to participate in the labour market Activity 9.2.2: Improve services and infrastructure to ease the burden on adults with family care responsibilities, especially women, allowing them to participate more in the labour market			
USE.6	Number and share of enterprises that have adopted employment support measures for single parents and parents with many children	Uptake	Activities 9.2.1 and 9.2.2			
USE.7	Employment rate of women out of the total female working-age population (aged 15-64)	Outcome	Activities 9.2.1 and 9.2.2			

#### Table 1.3. Summary of indicators for priority area 3: Using skills effectively

<sup>&</sup>lt;sup>4</sup> Active labour market policies (ALMP) refer to policies that aim to provide more individuals with access to the labour force and good jobs. ALMPs may be broadly classified into three types: policies that strengthen individuals' motivation to work, policies that improve people's labour-supply capabilities, and policies that expand opportunities through intermediation and improved labour demand (<u>OECD, 2022</u>).

	Objective 10: Fostering return	emigration and	d skilled immigration to Bulgaria			
Policy Action 10.1: Prioritising return emigration of qualified specialists and skilled immigration in Bulgaria's skills agenda Policy Action 10.2: Reaching and supporting return migrants and skilled immigrants						
USE.8	Financial resources dedicated to support services for returning emigrants and skilled immigrants (including international students)	Input	Activity 10.2.1: Develop a comprehensive suite of measures for reaching out to Bulgarian emigrants and potential skilled immigrants to promote migration Activity 10.2.2: Develop a comprehensive suite of services to help returning emigrants, skilled immigrants and international students find suitable work, start businesses and integrate into Bulgarian society			
USE.9	Number of return emigrants and skilled immigrants receiving targeted support measures	Uptake	Activities 10.2.1 and 10.2.2			
	Objective 11: Supporting enter	prises to utilise	e workers' skills more effectively			
Policy Action 11.1: Promoting effective skills use and the adoption of high-performance workplace practices (HPWP) in Bulgarian workplaces, including in Small and Medium Enterprises (SMEs)						
USE.10	Share of employers who report that they have implemented HPWP to a high/very high extent	Uptake	Activity 11.1.1: Raise awareness of effective skills use and HPWP in Bulgarian workplaces Activity 11.1.2: Support employers to improve skills use and adopt high-performance workplace practices (HPWP), including SMEs			
Policy Action 11.2: Driving innovation within firms by improving human resource capacity in fields designated for smart specialisation						
USE.11	Gross domestic expenditure on R&D (GERD) by sector of performance and type of expenditure (% of GDP)	Input	Activity 11.2.1: Enhance human resource capacity in new technologies and innovation Activity 11.2.2: Improve the international and intersectoral mobility of skilled individuals in fields designated for smart specialisation			
USE.12	Number of centres of excellence in vocational education and training established	Input	Activity 11.2.1			
USE.13	Number of employees in SMEs trained for skills in the field of Industry 4.0	Uptake	Activity 11.2.1			
USE.14	Number and share of enterprises that have implemented an innovation (innovation core activities)	Outcome	Activity 11.2.1			

#### Strengthening the governance of the skills system

The milestones and indicators for strengthening the governance of the skills system aim to describe how effectively actors in Bulgaria can successfully implement policies to develop and use people's skills. Seven milestones have been identified for the priority area on strengthening the governance of the skills system (Box 4.5). The five milestones to be achieved at the short-term involve various activities, including those that enhance the co-operation of authorities and stakeholders in Bulgaria in the implementation of skills policies. These include creating a Skills Policy Council (GOV.A) and an Inter-institutional Data and Evidence Centre (DEC) (GOV.B), as well as developing a tripartite agreement for funding skills development (GOV.C), broadening the membership of the Consultative Council for Vocational Education and Training (CCVET) (GOV.D), and expanding the membership of planned Sectoral Skills councils (SSCs) (GOV.E). The two medium-term milestones include developing a methodology for skills anticipation (GOV.F) and expanding the remit of the CCVET to cover tertiary education and adult learning (GOV.G). In addition to these seven milestones, nine indicators have been identified for the priority area on strengthening the governance of the skills system – three of which are inputs, one is an uptake indicator, and three are outcomes. The indicators for the priority area on strengthening the governance of the skills system – three of which are inputs, one is an uptake indicator, and three are summarised in Table 1.4.

### Table 1.4. Summary of indicators for priority area 4: Strengthening the governance of the skills system

	Indicator name	Indicator type	Output 2 activities linked to the indicator					
Objective 12: Developing a whole-of-government and stakeholder-inclusive approach to skills policies								
Policy Action 12.1: Developing a whole-of-government approach to skills policies								
GOV.1	Expenditure on activities to promote a whole-of- government approach to collaboration on skills policies	Input	Activity 12.1.1: Improve whole-of-government leadership, oversight and co-ordination of the skills system Activity 12.1.2: Identify and strengthen the most important bilateral inter-ministerial relationships for skills policies					
GOV.2	Number of meetings of the Skills Policy Council (SPC) or its sub-committees/working groups	Uptake	Activity 12.1.1					
GOV.3	Number of skills policy-related bilateral activities between ministries with skills policy mandates Outcome Activity 12.1.		Activity 12.1.2					
Policy Action 12.2: Engaging stakeholders effectively for skills policy making at the national, sectoral and local levels								
GOV.4	Number of active Sectoral Skills Councils (SSCs)	Uptake	Activity 12.2.2: Improve the effectiveness of planned sectoral skills councils (SSCs)					
GOV.5	Number and share of stakeholders who participate in skills policy planning and implementation activities	Uptake	Activity 12.2.1: Strengthen and extend the mandate of the Consultative Council for Vocational Education and Training (CCVET) Activities 12.1.1 and 12.2.2					
	Objective 13: Building and better	utilising evide	nce in skills development and use					
Policy Action 13.1: Improving the quality and use of skills needs information								
	Policy Action 13.2: Improving the quality and u	use of performar	nce data and evaluation evidence in skills policy					
GOV.6	Expenditure on improvement of skills assessment and anticipation (SAA) activities and skills policymaking at the national, sectoral and local levels	Input	Activity 13.1.1: Develop a more comprehensive and consolidated skills assessment and anticipation (SAA) approach for use by all key actors in the skills system					
GOV.7	Number of entities/actors covered by SAA initiatives	Outcome	Activity 13.1.1					
Objective 14: Ensuring well-targeted and sustainable financing of skills policies								
Policy Action 14.1: Increasing and reallocating spending on skills development and use								
GOV.8			Activity 14.1.2: Evaluate existing spending across the skills system with the aim of reallocating resources to the activities offering the greatest returns					
GOV.9	General government expenditure on education and training (total, % of GDP)	Outcome	Activity 14.1.1: Set targets for increasing expenditure on skills development Activity 14.1.2					

#### Monitoring and reporting framework for an Action Plan for Skills in Bulgaria

Monitoring and reporting are key steps in the policy cycle, as they provide real-time, accurate, and reliable information about the progress of implementation and the uptake of policy measures among target groups. Moreover, developing a monitoring and reporting framework can improve policy outcomes and public trust by enhancing accountability for the use of public funds, improving understanding of the link between public interventions and their results, and facilitating policy learning over time to make future policies more efficient and effective (OECD, 2023<sup>[4]</sup>).

The OECD has proposed a list of six principles to guide Bulgarian authorities in establishing an effective monitoring and reporting framework for the Action Plan for Skills, all of which are elaborated in Chapter 5:

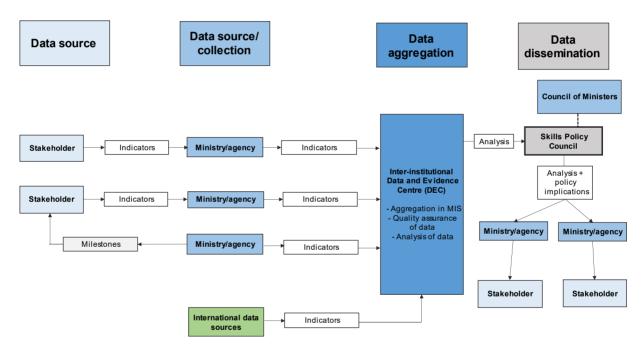
- 1. Employing a systematic approach for monitoring policy inputs, uptake, outcomes, and impact
- 2. Enhancing the quality and comprehensive collection of useful indicators for assessing impact

- 3. Establishing regular and realistic monitoring and reporting requirements
- 4. Developing a governance framework for the flow of data and information within the monitoring and reporting framework
- 5. Ensuring the credibility and wide dissemination of evaluation findings
- 6. Systematically utilising evaluation findings to inform the design of future policy.

In addition to the list of milestones and indicators specific to each priority area, this report also presents a monitoring and reporting framework for each priority area, describing the flow of information, processes and responsibilities for monitoring and reporting on the implementation of Bulgaria's Action Plan for Skills in that area.

A detailed monitoring and reporting framework has been developed for each of the four priority areas below and can be viewed in Chapter 5, in Figure 5.1, Figure 5.2, Figure 5.3 and Figure 5.4. All four frameworks follow a similar outline, depicting in detail the flow of information from data source through data collection, aggregation and quality assurance, analysis and dissemination (Figure 1.1).





Note: This is a sample figure for purposes of demonstration only.

#### Developing youth skills

Much of the data being collected for this priority area is collected and overseen by various directorates within the Ministry of Education and Science (MES). For this reason, stakeholders proposed strengthening the capacity of the Strategic Development and Information Policy Directorate (SDIPD) within MES to give this directorate a more active role in consolidating the relevant data to be sent to the Inter-institutional Data and Evidence Centre (DEC) for aggregation with other data in the unified management information system, quality assurance and analysis. While MES is the main collector of data, the data sources for some of the indicators come from municipalities, Regional Educational Departments (REDs) and higher education institutions. A few other key indicators can be collected directly by DEC from National Statistical Institute

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(NSI) and from external OECD and Eurostat databases (e.g., PISA, Labour Force Survey). The milestones in the priority area for developing youth skills primarily need to be initiated by the MES.

Once the DEC has analysed the relevant data and transmitted this data to the Skills Policy Council for further analysis and to draw policy implications, the evaluation results should be disseminated through MES to other relevant stakeholders, including regional and local officials (e.g., REDs, municipalities) and directly to education providers such as higher education institutions.

#### Developing adult skills

Many of the indicators for this priority areas come from relevant government ministries and agencies. As adult education and training (AET) overlaps with the mandate of multiple ministries and agencies, the responsibility for collecting information on implementation of skills activities related to adults is spread across MES, the National Agency for Vocational Education and Training (NAVET), the Ministry of Labour and Social Policy (MLSP) and the National Employment Agency (NEA). The milestones identified for the priority area on improving the skills of adults all relate to better equipping AET providers to provide relevant and quality training and services to adults in Bulgaria. Some of these milestones should be initiated by NAVET and others by MLSP.

Following the DEC's work of consolidating, quality assuring, and analysing the data, results should be submitted to the Skills Policy Council to complete the evaluation of implementation progress, including implications for further skills policy. The evaluation results should then be disseminated to all involved ministries. The ministries in turn should be responsible for conveying the data and evaluation results to key non-governmental partners such as the social partners and AET providers.

#### Using skills effectively

Multiple ministries and agencies are responsible for gathering data for the milestones and indicators in Priority Area 3: Using skills effectively. In many cases, these ministries and agencies are also the primary sources of data as this information would come from programme data related to the activities in the Action Plan for Skills. Enterprises are also the sources of information for Indicator USE.6, which will be collected directly from the enterprises by the DEC, either through self-reporting (e.g., into a platform) by enterprises or a survey to be distributed. The DEC may coordinate with the MLSP to communicate with the enterprises when gathering responses from them (e.g., communication of the link to the platform where enterprises must respond), as well as in ensuring data quality (e.g., communication with enterprises that provide low-quality answers).

All of this data will be submitted to and analysed by the DEC, after which the Skills Policy Council is responsible for disseminating these findings and policy implications to actors significantly involved in skills use in Bulgaria, such as the MLSP, the NEA, the Social Assistance Agency, the MIG, and other government bodies responsible for emigration and immigration policy (e.g., Ministry of Interior; State National Council on Migration, Borders, Asylum and Integration; Council for Working with Bulgarians Abroad), as well as social partners (e.g., employer and employee representatives, employers) (OECD, 2023<sub>[5]</sub>).

#### Strengthening the governance of the skills system

The Skills Policy Council, the main body tasked to co-ordinate the implementation the Action Plan for Skills, has been assigned to monitor and report on many of the milestones and indicators related to strengthening the governance of the skills system (Milestones GOV.B, GOV.C, GOV.F, as well as Indicators GOV.1, GOV.2, GOV.3, GOV.5, GOV.6). It may also report on Milestone GOV.A, which concerns its creation, as managed by the Council of Ministers. In addition, the MES is responsible for reporting on Milestones GOV.D, GOV.E, GOV.E, GOV.G, as well as collecting data on Indicator GOV.4. The DEC is tasked to report on its

own activities (Indicators GOV.7 and GOV.8), while the NSI has been tasked to collect data for Indicator GOV.9.

Once this data has been submitted to and analysed by the DEC, the Skills Policy Council is responsible for disseminating these findings and policy implications to actors involved in skills governance in Bulgaria. This includes ministries and agencies at the national level, actors at the regional level (e.g., municipalities, REDs), and non-government stakeholders (e.g., social partners, educational and training providers).

#### **Developing a Skills Action Plan for Bulgaria**

Skills are vital for enabling individuals and countries to thrive in an increasingly complex, interconnected and rapidly changing world. As the digital and green transitions increasingly shape our societies and economies, getting skills policies right becomes even more critical for ensuring societal well-being and promoting inclusive and sustainable growth. For Bulgaria, implementing a strategic approach to skills policies is essential, given the country's exposure to demographic and digital disruptions and persistent inequalities among different social groups.

Against this policy backdrop, the "Technical support for the development of a National Skills Strategy for the Republic of Bulgaria" project (TSI project) provides guidance to the Bulgarian Government for developing an Action Plan for Skills that supports the country in developing and implementing a comprehensive set of skills policy actions. The TSI project builds on the findings of a preliminary report on the performance of the Bulgarian skills system through the *OECD Skills Strategy Bulgaria: Assessment and Recommendations* project (OSS Bulgaria Report, Q1 2022 – Q3 2023). The OSS Bulgaria Report assesses Bulgaria's skills performance and provides high-level recommendations for improving the skills of young people and adults, using skills effectively and strengthening the governance of the skills system.

The TSI project is intended to operationalise the OSS Bulgaria Report by providing guidance on both the content and process of an Action Plan for Skills in Bulgaria. The intended short-medium term outcome of the project is that the Bulgarian Government uses the project outputs to develop an Action Plan for Skills. The expected long-term impact of the Project is that the Bulgarian Government implements the skills policy actions in line with their national priorities.

#### A monitoring and reporting framework for a Skills Action Plan in Bulgaria

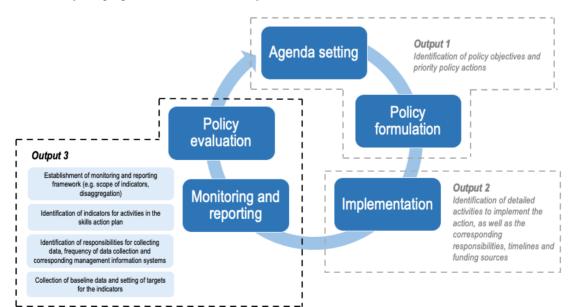
This report is Output 3 of the TSI Project (Figure 2.1). Output 1 outlined medium-term goals, or "objectives" and high-level "priority policy actions" that Bulgaria intends to implement, drawing from the OSS Bulgaria report recommendations and various Bulgarian strategies relevant to skills development, use and governance. Output 2 then expanded upon this to establish finer details of executing the action plan by defining concrete activities, and for each of these proposing responsible entities, timelines, and potential funding sources essential for the plan's implementation. Output 3 provides guidance for developing a monitoring and reporting framework for measuring implementation progress of the skills policy actions identified in Outputs 1 and 2.

Future Outputs will build on Outputs 1, 2 and 3. Output 4 will outline a communication campaign to raise awareness of the Action Plan for Skills in Bulgaria. Subsequently, Output 5 will facilitate and report on a capacity-building workshop for implementation of the Action Plan for Skills.





Outputs 1, 2 and 3 also address all stages of the policymaking process (Figure 2.2). While the higher-level objectives and policy actions identified in Output 1 provide guidance to Bulgaria for agenda setting and policy formulation of skills policy, the more detailed proposal in Output 2 provides guidance that Bulgarian officials can use to actually implement these skills policies. The current Output 3 addresses the remaining stages of the policy cycle by providing guidance to Bulgarian authorities on designing a monitoring and reporting framework that can be used to conduct policy evaluation and to ensure that the outcomes of such evaluations are subsequently used for agenda setting and designing future evidence-based skills policy.



#### Figure 2.2. The policy cycle in relation to Outputs 1, 2 and 3

Source: Adapted from Exton, C. and M. Shinwell (2018<sub>[6]</sub>), "Policy use of well-being metrics: Describing countries' experiences", *OECD Statistics Working Papers*, No. 2018/07, <u>https://doi.org/10.1787/d98eb8ed-en</u>.

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To develop an effective monitoring and reporting framework for Bulgaria's Action Plan for Skills, the present report first describes the existing Bulgarian and EU-level regulations on monitoring and reporting to ensure both that the proposed framework does not conflict with existing standards and to create as many synergies as possible with existing monitoring and reporting requirements so as to lessen the administrative burden on Bulgarian officials of effectively tracking progress in skills policy (Chapter 3). The report then presents specific milestones and indicators to monitor the implementation progress for the Action Plan for Skills in the areas of developing youth skills, improving adult skills, using skills effectively, and strengthening the governance of the skills system (Chapter 4). Chapter 5 outlines how these milestones and indicators should fit into a larger monitoring and reporting framework for Bulgaria's Action Plan for Skills, including the flow of skills data and information for each of the four priority areas. Finally, the report concludes with a brief summary and description of the next steps in the project.

To develop the monitoring and reporting framework, the OECD team drew on desktop research, taking into consideration relevant examples of good policy practices from other EU Member States and across the OECD. A physical mission to Bulgaria was also conducted in order to test and refine the preliminary results of the desktop research and the initial list of indicators, which were then narrowed in line with authorities' and stakeholders' expertise and priorities. Afterwards, a series of bilateral meetings and regional stakeholder discussions were also held virtually in order to gather more detail about how monitoring and reporting activities are done in practice in Bulgaria, further written feedback was provided by some stakeholders, and all findings were incorporated into this report.

# **3** Bulgarian and EU regulations on monitoring and reporting

The proposed monitoring indicators (Chapter 4) and overarching monitoring and reporting framework (Chapter 5) are informed by existing regulations and indicators for monitoring and reporting both within the Bulgarian national context and at the EU-level. These two sources of regulations are fitting to inform the monitoring and reporting framework for a Bulgarian Action Plan for Skills given that the main potential funding sources for skills policy activities indicated in Output 2 were the State budget and EU-programme budgets (or more specific budgets within these). Furthermore, aligning indicators to track implementation of a Skills Action Plan with indicators already being collected for EU programmes or national strategies, to the degree possible, could help to ease the administrative burden for Bulgarian authorities of effectively adhering to the proposed monitoring and reporting framework for an Action Plan for Skills in Bulgaria.

#### General regulations for monitoring and reporting in Bulgaria

In Bulgaria, there is currently no established framework for strategic planning that lays out clear standards, rules, and procedures for the preparation, monitoring, and reporting across all strategic documents. Although a Strategic Planning Act was drafted in 2019, it has not yet been officially adopted. Overall, Bulgaria's strategic planning process remains fragmented, with responsibilities split between different bodies and institutions. Numerous laws and regulations mandate strategic planning for various public authorities. Notably, excluding the National Development Programme Bulgaria 2030, all national strategies are instigated, executed and monitored by line ministries and agencies at their respective sectoral levels.

In line with Article 63 of Bulgaria's **Law on Administration**, ministries, commissions and agencies, as well as regional administrations, are obligated to report to the Council of Ministers at the beginning of each year on the implementation of strategic goals from the preceding year (Bulgaria Council of Ministers, 1998<sub>[1]</sub>). In instances where institutions contribute to interinstitutional programmes, they are required to report to the leading institution. The leading institution is tasked with consolidating the provided information and presenting a report to both the Ministry of Finance and the Council of Ministers on the execution of the interinstitutional programme. However, the monitoring of national strategies and action plans implementation is currently underdeveloped, lacking defined rules and procedures for comprehensive systemic monitoring and impact evaluation (OECD, 2022<sub>[2]</sub>).

#### Monitoring and reporting regulations for specific strategies in Bulgaria

The **National Development Programme Bulgaria 2030** (NDP Bulgaria 2030) is Bulgaria's main framework strategic document, outlining the vision and general objectives of the policies for development of all sectors (Ministry of Finance, 2020<sub>[7]</sub>). The NDP 2030 contains 13 national priorities including a priority on education and skills and one on social inclusion, which include goals that overlap with the proposed Action Plan for Skills in Bulgaria. For each set of measures within the priorities of the NDP Bulgaria 2030, there are specified indicators, target indicator values for 2030, and an indicative financial framework. The NDP Bulgaria 2030 implementation follows three-year action plans, along with annual updates. These

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updates must be coordinated by the designated leading authorities and accompanied by an annual report that outlines the implementation of measures within specific priorities.

Relevant NDP Bulgaria 2030 indicators that have been incorporated or adapted in Table 4.1 include:

- Pupils from age 4 to the starting age of compulsory education at primary level, % of the population of the corresponding age group (Indicator 1.1 in the NDP 2030, Eurostat).
- Employment rate of recent graduates with a vocational upper secondary or post-secondary non-tertiary education (Indicator 1.3 in the NDP 2030, Eurostat).

The **Strategic Framework for the Development of Education, Training, and Learning in the Republic of Bulgaria (2021-2030)** is aligned with the vision and overarching goals of the education and skills priority of the NDP Bulgaria 2030, particularly in its sections related to preschool and school education, vocational education and training, and lifelong learning (Ministry of Education and Science, 2021<sub>[8]</sub>). Twenty-four system-level indicators are specified to monitor the achievement of goals of the strategy, as well as target values for 2030. The strategic framework will be implemented through three action plans and evaluated with two interim reports and a final analytical report. The outlined goals, measures, and indicators will be revised both in 2024 and 2027 to align with progress made or changes in identified challenges.

Relevant indicators from the Strategic Education Framework that have been incorporated or adapted in Table 4.1 and Table 4.2. include:

- Net ratio of pupils from age 3 until entry into compulsory education at primary level, % of the population of the corresponding age group (Indicator 3 in the Strategic Education Framework, Eurostat).
- Relative share of population (ages 25-64) participating in education and training (in previous 4 weeks) (Indicator 16 in the Strategic Education Framework, Eurostat).

The **Strategy for Development of Higher Education in the Republic of Bulgaria 2021-2023** defines the main principles and priorities in the development of the higher education system until 2030 and outlines ten specific goals, activities, and measures for their implementation, as well as 68 outcomes (Ministry of Education and Science, 2020<sub>[9]</sub>). For each measure various expected results are listed, although there are no clearly delineated indicators. Among these expected results are, for example, development and maintenance of mechanisms for tracking the progress of graduates; a greater focus on practical training, guided by clearly stated employer needs and pre-agreed job placements; an increased number of curricula and educational programmes developed with the involvement of business representatives and other external partners; and the development of dual education in higher education in professional fields with a technical focus, where at least 50% of all active students in such specialized areas receive training. The Strategy is implemented based on a multi-year operational plan, approved by the Council of Ministers, while the operational activities are conducted by the MES. The line ministries, in coordination with the MES, carry out activities for the development of higher education in their respective sectors, utilising the measures outlined in the strategy. The implementation of the operational plan is reported at least once every two years.

The **Employment Strategy of the Republic of Bulgaria 2021-2030** sets short-term (up to 2024) and long-term (up to 2030) priority goals and outlines specific activities for their achievement, divided into eleven groups (Ministry of Labour and Social Policy, 2022<sub>[10]</sub>). The strategy is implemented through annual national action plans for employment and monitoring of the strategy's implementation is ongoing, with annual reports prepared to assess progress. The monitoring encompasses indicators tracking progress in achieving the outlined strategy goals, as well as indicators for individual activities, according to the list of indicators attached to the Strategy. Specialised units within the MLSP and the National Employment Agency (NEA) undertake monthly and annual monitoring of employment-related activities. More specifically, NEA, through its regional divisions, conducts monthly, quarterly, and annual observation and evaluation of the implementation of active measures and programmes. Data on implemented measures are collected using methodologies ensuring comparability with data collected by Eurostat, ILO, and OECD.

In addition, impact data on policy are provided by the National Statistical Institute through regular statistical surveys, primarily the Labour Force Survey conducted quarterly. The administrative statistics from the NEA serve as a source of detailed information, allowing ongoing monitoring of the implementation of active measures and programmes. For each implemented measure and programme, data on participants (enrolled, employed, those who have terminated their participation, etc.) and expenditures (financial resources provided to unemployed individuals, employers, etc.) are collected using standardised indicators. Specific data are also collected according to the objectives of the programmes and measures and are summarised quarterly and annually.

Relevant indicators from the Employment Strategy that have been incorporated or adapted to include in Table 4.2 and Table 4.3 include:

- The relative share of individuals participating in formal and informal education and training (ages 25– 64, Eurostat).
- Registered unemployed persons involved in training to acquire key competences.
- Registered unemployed persons included in vocational qualification training.
- Registered unemployed persons consulted individually by case manager.
- Difference in the employment rate for women and men (ages 20-64) (Eurostat).

Specific data relevant to a Skills Action Plan for Bulgaria are also collected as part of the annual National Employment Action Plan (NEAP). For example, the annexes to the National Employment Action Plan (NEAP) for 2023 include various indicators related to subsidised employment and/or training funded by active labour market policy (ALMP) funds. The reports on the implementation of the NEAP also provide data on specific ALMP indicators such as number of job fairs and informational campaigns conducted; number of youth who have participated in forms of vocational orientation; number of individual action plans created by employment mediators for newly registered youth; number of trained individuals, etc.

The **Innovative Strategy for Smart Specialisation 2021-2027** aims to stimulate the transformation of society and the economy based on data and knowledge, oriented towards Industry 4.0, and also to support the green transition (Ministry of Innovation and Growth,  $2022_{[11]}$ ). The Ministry of Innovation and Growth is tasked with implementing the Strategy and its associated programmes/plans. The monitoring and evaluation mechanism for strategy implementation involves ongoing monitoring, preparation of an interim progress report (for the period 2021-2024), and a final monitoring report with an external assessment to be developed two years after the conclusion of the Strategy's term. As part of ongoing monitoring, information shall be collected and summarised for specific indicators for innovation performance (e.g., new doctoral graduates, population with higher education, lifelong learning participants, etc.), innovation support (e.g. supported enterprises and/or research organisations and universities; assisted researchers, etc.) and indicators for monitoring and evaluating operational goals at the operational level (e.g., personnel engaged in R&D, employment in knowledge-intensive services, innovative capacity, etc.).

Relevant indicators from the Smart Specialisation Strategy that have been incorporated or adapted to include in Table 4.3 include:

Staff/personnel engaged in R&D in enterprises, by region (NSI).

The **National Strategy for Small and Medium Enterprises (SMEs) 2021-2027** outlines three strategic goals: enhanced competitiveness, specialisation in high-tech manufacturing and knowledge-intensive services, and regional equality, along with measures for their achievement (Bulgarian SMEs Promotion Agency, 2021<sub>[12]</sub>). The National Strategy for SMEs is implemented through annual action plans developed by the Bulgarian Small and Medium Enterprises Promotion Agency (BSMEPA), which is also responsible for its monitoring and evaluation. Progress reports are prepared annually, relying on official information provided by all relevant authorities. At the end of the planned period, a final report on the progress of the Strategy's implementation will be drafted. Additionally, two interim evaluations (in 2024 and 2026) of the

Strategy's implementation are planned, along with a final evaluation in 2028. The strategy outlines indicators for each of the specific measures in the strategy including baseline values (2020) where relevant and target values for both 2024 and 2027.

Relevant indicators from the SME Strategy that have been incorporated or adapted to include in Table 4.1 and Table 4.2 include:

- Regular training needs assessments carried out in SMEs; digital solutions in training needs assessment in SMEs; training courses conducted in SMEs (Indicator 4.3 in the SME strategy).
- Number of registered enterprises, incl. SMEs, in the information database of employers who conduct dual training (work-based learning); number of students participating in dual training; support for SMEs providing dual training in order to open new classes with dual education; recognition of active SME employers in the field of vocational education and training (Indicator 4.4 in the SME strategy).
- A study of the assessment and validation of informal skills in SMEs; development of national standards and procedures, as well as a certification system for key validation nationally skills and competencies, percentage of SMEs with personnel with validated skills acquired through non-formal training, percentage of SMEs that have increased the formal qualifications of their personnel (Indicator 4.5 in the SME strategy).
- Development of an e-learning platform and tools and promote online-based training for SMEs, development of e-learning courses (Indicator 4.6 in the SME strategy).

However, though outlined in the SME Strategy itself, the above indicators are not, in practice, yet part of the monitoring system of the Bulgarian Small and Medium Enterprises Promotion Agency (BSMEPA) under the National Strategy for SMEs 2021-2027. Their collection both for the purposes of the SME Strategy and an Action Plan for Skills would require consultations across various institutions (e.g., NSI, MLSP, MIG, MEI) to identify the most feasible and convenient way to collect them without creating additional administrative burden for enterprises and government ministries.

The **National Strategy on Migration of the Republic of Bulgaria 2021-2025** aims, among other things, to provide conditions for the reception of migrants who arrive legally in the country for purposes such as work, education, or other reasons, taking into account the needs of the labour market, especially for high-skilled workers (Ministry of Interior, 2021<sub>[13]</sub>). However, there are no clearly delineated indicators outlined in the strategy. The implementation of the strategy is based on annual action plans, adopted by the Council of Ministers upon the proposal of the National Council on Migration, Borders, Asylum, and Integration, which also monitors and reports the implementation.

#### EU regulations for monitoring and reporting in Bulgaria

For EU-funded programmes, Bulgaria employs both EU-wide regulations that establish standards for overseeing the implementation of such programmes across Member States, as well as its own national guidelines for monitoring and reporting on EU-level programmes. The **Regulation (EU) No. 1303/2013 of the European Parliament and of the Council**, also known as the Common Provisions Regulation (CPR) for the 2014-2020 period, sets a comprehensive performance framework across EU countries for tracking progress towards objectives (European Union, 2013<sub>[14]</sub>). This regulation mandates Member States to establish monitoring committees, generate reports for the European Commission, and conduct annual reviews to evaluate programme performance. Crucially, it allows Member States flexibility in applying this framework in line with their own institutional and legal structures and regional competences, ensuring effective implementation while maintaining adherence to EU goals and standards. The updated **Regulation (EU) 2021/1060** for the 2021-2027 period continues this approach and aligns funds more closely with the European Union's current priorities such as sustainability, digitalisation, and social inclusion (European Union, 2021<sub>[15]</sub>).

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The EU-level programmes most relevant to an Action Plan for Skills for Bulgaria are the **European Social Fund Plus (ESF+)** and the **Recovery and Resilience Facility (RRF)**, both of which have been designated as potential funding sources for a number of specific skills activities detailed in Output 2 of this project. The ESF+ is a key EU tool for supporting employment policies across EU countries, focusing on full employment, quality work, and mobility, alongside enhancing education, training, and social inclusion. Its requirements are outlined in **Regulations (EU) 2021/1060** and **2021/1057 (ESF+ Regulation)** of the European Parliament and the Council. Specific indicators for assessing policy impacts, especially those under the lifelong learning objective such as labour market improvements and qualifications, are included in the ESF+ common indicators toolbox (European Union, 2021<sub>[15]</sub>; European Union, 2021<sub>[16]</sub>).

Relevant indicators from the ESF+ indicators toolbox that have been incorporated or adapted to include in Table 4.2 include:

- "Participants in education or training upon leaving" (Indicator EECR02 in the ESF+ indicators toolbox)
   "Participants gaining a qualification upon leaving" (Indicator EECR03 in the ESF+ indicators toolbox)
- "Participants with an improved labour market situation six months after leaving" (Indicator EECR06 in the ESF+ indicators toolbox).

Other indicators in the toolbox may either address different topics or be too broad to be directly relevant to a Skills Action Plan for Bulgaria. The regulations require Bulgaria to establish a performance framework for monitoring and evaluating ESF+ funded activities. This includes forming monitoring committees with relevant partners and organising yearly structured policy dialogues. Within this framework, system-level indicators are set to track progress and outcomes of individuals supported by ESF+ funds.

Bulgaria's National Recovery and Resilience Plan (NRRP) outlines the package of reforms and investments being carried out by the country under the European Union's RRF from 2021 to 2026. It was launched in response to the socio-economic crisis caused by the COVID-19 pandemic and operates under Regulation (EU) 2021/241 (European Union, 2021[17]). The NRRP consists of 12 components related to innovation (including education and skills), the green and digital transitions, and socio-economic equity. Under the "Education and Skills" component, interventions aim to enhance employability by improving skills as well as by upgrading educational quality and accessibility (Bulgaria Council of Ministers, 2022[18]). The plan includes milestones and targets with related qualitative and quantitative indicators. The Ministry of Finance is the central body responsible for overall management of the NRRP implementation, with the Central Coordination Unit Directorate of the Ministry of Finance particularly responsible for monitoring the implementation of the milestones and targets of the RRP. It is also tasked with establishing a strategic framework for information and communication activities in relation to the implementation of the RRP and for administration, maintenance, and upgrade of the IT systems for programmes under shared management with the Union and under the Facility. Line ministries are tasked with implementing individual investments and reform measures in their respective area of activity. The NRRP contains a number of macroeconomic indicators that are all too broad to be of particular interest in determining indicators for an Action Plan for Skills in Bulgaria.

Relevant indicators from Bulgaria's NRRP that have been incorporated or adapted to include in Table 4.1 and Table 4.2 include:

- Number of new kindergartens and schools built and/or renovated; increased coverage of children in kindergartens as a result of renovation, reconstruction, upgrading and modernization of the buildings.
- Number of teachers who undergo training in STEM; increased competencies of teachers to work in STEM environment; percentage of schools that have trained pedagogical specialists; implemented innovative modern teaching methods in all educational institutions.
- Percentage and number of students applying for university specialties in technical, engineering and natural sciences.

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- Developed and implemented virtual platform for e-training of adults; number of developed online training courses for adults; number of developed e-resources for informal learning for adults.
- Number of adults participating in training for basic digital skills and competences.
- Number of adults with validated basic skills and competences.

The **Partnership Agreement on the European Structural and Investment Funds (ESIF)** for Bulgaria for 2014-2020 and the Partnership Agreement between the European Commission and Bulgaria for the 2021-2027 period apply to all Bulgarian projects that are funded using ESIF (European Commission, 2014<sub>[19]</sub>; European Commission, 2022<sub>[20]</sub>). ESIF funds are used for more specific EU funds including the European Regional Development Fund (ERDF), the European Social Fund (ESF+), The Cohesion Fund (CF), the European Agricultural Fund for Rural Development (EAFRD), and the European Maritime and Fisheries Fund (EMFF) (European Commission, 2023<sub>[21]</sub>). The Bulgarian Partnership Agreement for 2021-2027 outlines a roadmap for building national administrative capacity, focusing on three pillars: (i) strategic planning and implementation, (ii) people and organisational management, and (iii) framework conditions.

The Law on Management of Resources from the European Structural and Investment Funds (ESIF) Act is applicable to all Bulgarian programmes funded through EU Structural and Investment Funds (ESIF) (Bulgaria Council of Ministers, 2015<sub>[3]</sub>). It introduces special mechanisms to ensure the proper administration, monitoring, and evaluation of the Partnership Agreement and the EU-funded programmes by adapting the EU's regulatory framework to the specific Bulgarian context and establishes the necessary legal grounds for the national authorities to manage the funds in accordance with both national and EU law. Among other things, the law provides the legal basis for defining the criteria and processes for monitoring, reporting, financial management, and control; setting up the necessary committees, to oversee the implementation of the operational programmes; and monitoring the progress made towards achieving the eSIF Act is overseen by a monitoring committee. This committee is responsible for tracking the progress towards achieving the strategic goals outlined in the Partnership Agreement. Additionally, it reviews information related to the implementation of various programmes and assesses their contributions to the overall objectives and target values defined in the Partnership Agreement.

The law also regulates the establishment of a Bulgarian national **Information System for Management and Monitoring of ESIF Resources (UMIS)**. The goal of the management information system (MIS) is to collect and process all data related to the implementation, management, monitoring, evaluation, and control of all Bulgarian programmes funded by the ESIF and maintain the collected accurate and reliable information in one location, with operational standards set by the Council of Ministers. The terms, arrangement, and operational procedures of the UMIS are specified in a special regulation outlined in Resolution 243 (Bulgaria Council of Ministers, 2016<sub>[22]</sub>). Information crucial for monitoring, evaluation, financial management, and audit of each operation is electronically provided by the authorities responsible for managing and controlling funds from ESIF, as well as by the candidates and beneficiaries. This includes data about individual participants in the operations. The information, including individual data, can be utilised for statistical and analytical purposes and may be published and disseminated to ensure transparency in the management of funds, while complying with data protection requirements. The publicly accessible module of the information system provides implementation information for all programmes, data related to their indicators and evaluation results.

The Council of Ministers plays a vital role under the Law on Management of ESIF. They are responsible for approving the draft Partnership Agreement and the draft programmes before their submission to the European Commission. Furthermore, the Council of Ministers adopts strategies and operational programmes, sets priorities, and ensures alignment with the EU's objectives and Bulgaria's socioeconomic needs. The Council also oversees the implementation of these programmes, designating the entities responsible for developing and implementing them and ensuring efficient fund utilisation and compliance with both national and EU regulations.

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## **4** Milestones and indicators for monitoring the implementation of Bulgaria's Action Plan for Skills

#### Introduction

As part of the larger monitoring and reporting framework, the OECD team has proposed a set of milestones and indicators to measure the implementation progress of Bulgaria's Action Plan for Skills. These monitoring mechanisms aim to allow authorities and stakeholders in Bulgaria to determine whether target populations have been reached, if activities are being implemented as planned, if the governance structures put in place have been effective and efficient, if the outcomes of the Action Plan for Skills are being achieved as expected, if there are unforeseen challenges that are hindering progress, and what elements of the policy should be modified and improved (OECD, 2022<sub>[23]</sub>; OECD, 2023<sub>[24]</sub>). A comprehensive set of milestones and indicators can allow Bulgarian authorities and stakeholders to gather information for contributing to evidence-based policymaking, informing executive decisions, enabling more effective resource allocation, and promoting accountability (OECD, 2022<sub>[23]</sub>; OECD, 2023<sub>[24]</sub>).

This chapter provides a description of the monitoring mechanisms for Bulgaria's Action Plan for Skills, explaining the distinction between milestones and indicators, and presenting the information included for each proposed indicator, namely its type, disaggregation details, data considerations, a cross-reference to relevant activities in Output 2, and the baseline value (where relevant and available). This if followed by a list of milestones and indicators for each of the priority areas identified in earlier project Outputs.

#### Monitoring mechanisms

The monitoring mechanisms for Bulgaria's Action Plan for Skills include two main elements, namely milestones and indicators (Figure 4.1). Milestones and indicators are distinct elements of the monitoring process that collect different kinds of information, but are nonetheless closely related and interlinked. The milestones are specific activities in the Action Plan for Skills, such as the establishment of governance bodies or the development of more specific policy plans, that indicate key events in the Action Plan's implementation. The achievement of these milestones is often binary (e.g. a new skills-related group has or has not been established) and they tend to be prerequisites for the implementation of other activities in the Action Plan that are better captured through the collection of indicator data. For instance, in the priority area on strengthening the governance of the skills system, Activity 13.2.1.1, which involves the creation of an Inter-institutional Data and Evidence Centre (DEC), has been identified as a milestone. Its establishment would allow for the implementation of other related activities, such as Activity 14.1.2.1, which aims to systematically evaluate public expenditure on skills development and use and is monitored through Indicators GOV.7 and GOV.8.

#### Figure 4.1. Information to be collected for milestones and indicators

Milestones Description of the milestone and their timeframe for implementation (short-term, medium-term, long-term), as specified in Output 2 activities					
Indicators Concise description of the indicator and its corresponding indicator number					
		₽	Indicator type Input, uptake, outcome		
		<b>1</b>	Disaggregation Sub-categories of characteristics that describe the indicator, allowing authorities to analyse trends and patterns across different target groups and specific actions		
		<u></u>	Data considerations Status of the indicator (i.e., new or existing), its feasibility, source, collector, frequency of data collection, and presence of metadata		
		₽ J	Activities in the Action Plan for Skills Cross-reference to specific activities in the Action Plan, as described in Output 2, that the indicator aims to track		
		~	Baseline value Most recent available value of the indicator, for indicators for which this information is relevant and available		

On the other hand, the indicators proposed for the Action Plan for Skills aim to provide accurate, timely, and reliable information on the progress of the implementation of the activities in the Action Plan, reflecting relative increases or decreases over time. They cover various aspects of policy implementation, including the amount of resources (e.g., financial expenditure, human resources) devoted to actualising the activities in the Action Plan for Skills, their scale of uptake among target groups, and the quality of their outcomes. For each of the indicators, the OECD has identified information that provide authorities and stakeholders in Bulgaria with guidance on how to design and use indicators effectively (Figure 4.1):

- Indicator name and reference number. Each indicator is provided with a name that concisely
  describes what the indicator aims to measure, as well as a reference number to facilitate identification.
  The reference numbers are formed based on the initials of the priority area to which the indicator
  belongs: YS for developing youth skills, AS for improving adult skills, USE for using skills effectively,
  and GOV for strengthening the governance of the skills system. In each priority area, these initials are
  followed by numbers to refer to indicators (e.g., Indicator YS.1) and by letters to refer to milestones
  (e.g., Milestone YS.A) in order to distinguish between the two.
- Indicator type. The proposed indicators are comprised of three indicator types, namely input, uptake, and outcome indicators (Figure 4.2). Inputs refer to the financial and human resources that are devoted to the implementation of the activities in the Action Plan for Skills. Uptake refers to the number and share of participants (e.g., individuals, enterprises, education and training providers) that take part in the activities, while outcomes refer to the effects of their participation in such activities, as observed in their educational and labour market conditions.<sup>5</sup> All three indicator types are generally covered for

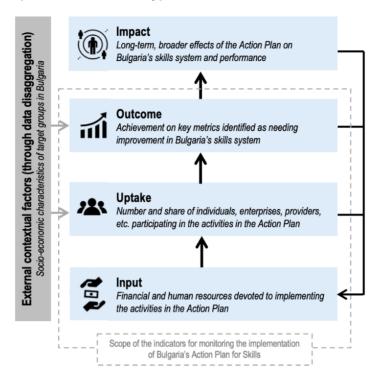
GUIDANCE ON DEVELOPING A MONITORING AND REPORTING FRAMEWORK FOR BULGARIA'S SKILLS ACTION PLAN © OECD 2024

<sup>&</sup>lt;sup>5</sup> It is important to take note how these indicators are referred to differently in European programmes and reporting processes. "Uptake" in this report would refer to "output", and "output" in this report would refer to "results" as per <u>EU</u> <u>Regulation 2021/2060</u>.

each policy action in the four priority areas in order to explore the links between inputs, uptake, and outcomes. Taken together, input, uptake and outcome indicators can provide insight on the impact, or the higher-level and longer-term effects, of the Skills Action Plan.

- Disaggregation. The OECD team has suggested that the indicators be disaggregated by various characteristics (e.g., gender, age group, municipality, sector, type of activity) in order to track differences in the inputs, uptake and outcomes for subsets of the target population or the full scope of actions detailed in the Action Plan for Skills. Some of the proposed characteristics for disaggregation may not be possible to collect at present, but should become possible to collect as the activities in the Skills Action Plan are implemented (e.g. public expenditure on activities detailed in the Action Plan). These disaggregated indicators should help Bulgarian authorities understand in a more detailed way what aspects of implementation have been more or less successful and adjust the implementation of activities accordingly.
- Data considerations. The OECD team has indicated several data considerations for each of the indicators, namely if they are taken from existing indicators used in Bulgaria or not, and how feasible they would be to implement. New indicators that have been suggested in the report have been deemed as instrumental by the OECD to adequately monitor activities in the Action Plan for Skills that are not yet covered by existing indicators in Bulgaria. Feasible indicators are those which are relatively easy and straightforward to set up and track, while semi-feasible indicators would require some additional steps (e.g., development of a new methodology, administration of additional surveys, compiling data from difference sources) to adequately collect data. The column on data considerations also includes the data source, the collector, the frequency at which data should be collected, and whether metadata is present or still needs to be developed.
- **Output 2 activities linked to the indicator**. The OECD team has provided cross-references between the indicators and the specific skills policy activities for a Skills Action Plan detailed in Output 2 in order to more clearly demonstrate the implementation progress the indicators are tracking.
- **Baseline value**. Baseline values are the latest numerical values available for the indicators for the Action Plan for Skills. They may be taken from existing, reliable, accessible and internationally comparable sources, such as Eurostat, the OECD, and publicly available Bulgarian data registries.

#### Figure 4.2. Relationship between indicator types



#### Stakeholder feedback on monitoring mechanisms

During consultations, stakeholders were invited to review and provide their insights on the OECD's interim proposal for monitoring mechanisms, focusing on the number and types of indicators, their level of detail, and the allocation of responsibilities assigned to each indicator. Unless otherwise indicated, the suggestions made by stakeholders have been integrated into the content presented in this report.

Stakeholders agreed with the overall target of around 70 indicators for Bulgaria's Skills Action Plan, but suggested perhaps beginning with a subset of these indicators and adding the remaining indicators over time, as the Action Plan is implemented.

Stakeholders generally agreed with the OECD's original proposal for the types of indicators (input, uptake/eligibility, output, outcome) to be included in the monitoring and reporting framework, but noted that the indicators designated as output indicators were actually more suitable as milestones or pre-requisites upon which other types of indicators can build. Therefore, they suggested removing the category of output indicators and creating a distinction between milestones and indicators for each priority area.

While the stakeholders agreed with the OECD interim proposal to collect information on indicator type, disaggregation, data considerations, and baseline value (where available) for each proposed indicator, they noted that the OECD interim proposal to collect information on "responsibilities" for each indicator should be revised. Rather than identifying one responsible actor for each indicator, stakeholders suggested that the flow of data and information should be reflected for each indicator, including the data source and collection, and that responsibilities for the general aggregation, analysis and dissemination of data in the monitoring and reporting system be made clear. This approach should ensure transparency and efficiency in data management, with clear responsibilities at each stage of the data flow. Furthermore, as in Latvia (Box 4.1), the data sources should come from existing indicators and trusted primary or international data sources where possible to be most reliable. The stakeholders also suggested refining the list of responsible institutions after consulting with the National Statistical Institute and the identified entities, to ensure a comprehensive understanding of each institution's role in the data lifecycle.

Additional recommendations by stakeholders related to input indicators, the connection between indicators and specific skills policy activities, and refining the description of indicators. The stakeholders emphasised that input indicators should be more holistic and include inputs beyond expenditures, such as infrastructure, facilities, equipment, and human capital, including teachers, policymakers, and data experts. They also expressed that the display of indicators for a monitoring and reporting framework would be enhanced by clearly connecting the indicators in the OECD interim proposal to the specific activities proposed for inclusion in the Skills Action Plan (in Output 2) for which they are relevant. Finally, stakeholders highlighted the importance of refining the description of indicators and developing metadata to create clear and consistent expectations about how to collect information on indicators, particularly for new indicators.

#### Box 4.1. Establishing Indicators and Data Integration: Lessons from Latvia

Latvia's Education Development Guidelines (EDG) 2021-2027 represent a comprehensive, seven-year strategy for educational advancement, prioritising quality and inclusive education, and adaptability to societal and economic shifts. This framework encompasses the educational spectrum from preschool to adult learning and targets four key objectives: developing competent teachers and academic staff, enhancing educational quality, supporting individual growth, and ensuring effective system and resource management.

Latvia's approach to establishing metrics for monitoring the implementation of the EDG 2021-2027 combines using both existing and new indicators. Over 75% of these indicators are based on preexisting data sources: five are derived from national databases and twelve are in alignment with international standards, including OECD's PISA and Eurostat. Newly introduced indicators focus on tracking progress in priority areas such as the value of higher education and the quality of vocational training, as well as monitoring the effectiveness of inclusive education initiatives. These targets are set with the European Union's benchmarks in mind. The EDG's tripartite action plan allows quick industry response and detailed monitoring but requires significant administrative effort and coherent policy development. Data quality is an ongoing concern, with efforts ongoing to address inaccuracies in educational data entry.

Note: These insights were shared as part of an expert presentation from Latvia during the Output 3 stakeholder consultation workshop.

#### **Establishing targets for indicators**

Targets are quantifiable levels of indicators that a country or organisation aims to achieve within a given timeframe (World Bank, 2004<sub>[25]</sub>). Target setting is an inclusive and evidence-based process that is a key part of strategic planning. It serves multiple functions in monitoring and reporting. First, targets serve as guideposts for determining whether implementation progress (e.g. on expenditure, levels of uptake) is being made according to plan, and help policymakers judge performance. Second, they help to establish clear expectations for stakeholders involved in implementation, whether among ministries or social partners outside of government. Lastly, targets promote transparency and accountability by providing information on results vis-à-vis the allocation and expenditure of resources (ILO, 2018<sub>[26]</sub>); (USAID, 2010<sub>[27]</sub>). Targets for indicators must be:

Ambitious but feasible. As targets reflect a country's objectives to improve current conditions, they
must demonstrate increasing coverage (e.g. of an intervention) or increased allocation of resources
(e.g. funding) through time. In some cases, targets may also be lower than the initial baseline value,
such as when a smaller value reflects an improvement in conditions (e.g., student-to-staff ratio in

childcare and preschools [YS.4], percentage of population who did not participate and did not want to participate in adult education and training [AS.6], percentage of population wanting to participate in education and training but not [AS.8]). Targets should therefore be backed by political will and aligned with objectives identified in country-level strategies, such as the National Development Programme BULGARIA 2030, the Strategic Framework for the Development of Education, Training and Learning in the Republic of Bulgaria (2021-2023), and the Higher Education Strategy, among others. Indicator targets for the Action Plan for Skills should reflect a balance between the local context in Bulgaria and the country's performance in comparison to other countries in the EU. However, despite reflecting national ambitions, targets should also be feasible within the implementation period specified and be based on the resources (e.g., budgets, institutional capacity, personnel, facilities) that will likely be available during the period (World Bank, 2004<sub>[25]</sub>).

- Developed in partnership with stakeholders. To determine what is feasible when setting targets, a
  joint discussion should be held local stakeholders and technical experts. Involving stakeholders in the
  target-setting process will contribute to greater transparency and will help gather valuable insights on
  what might be practical and possible to achieve in specific contexts, as stakeholders are more aware
  of local conditions and capacities on the ground. Stakeholders may be consulted through methods
  including surveys, interviews, and focus group discussions (USAID, 2021<sub>[28]</sub>).
- Informed by research and previous indicator history. Reviewing current and historical trend data may be helpful in the target-setting process, as past data whether on the same indicator or similar indicators may help inform policy makers on what the future performance of an intervention may be. While current and past trends are not indicative of future performance, knowing whether an indicator is on an upward or downward trajectory or if it fluctuates throughout the year can help inform initial targets. It is also possible to draw on data, literature and research findings on similar programmes or strategies in other countries or across countries (e.g., OECD or EU average) in order to set realistic and well-informed targets (ILO, 2018[26]); (USAID, 2021[28]).
- Consistent with other indicators. The process of setting targets for performance indicators must take
  into consideration other relevant indicators that are systematically interconnected. For instance, inputs
  (e.g., expenditure) will determine the scale of uptake among participants (e.g., number of enterprises
  adopting employment support measures), which will then influence results at the outcome level
  (e.g., employment rate among women). When setting targets at higher levels of the results chain
  (e.g., outcomes), it is then useful to refer to lower levels (e.g., inputs) to determine what is realistic and
  feasible (OECD, 2020<sub>[29]</sub>).
- Consistent with the nature of the intervention. When setting targets, it is important to consider the features of the intervention, such as the scope of the population that is eligible (e.g., all citizens in the country vs. only unemployed adults), and the modality for delivering the intervention (e.g., obligatory vs. voluntary). Such considerations will help determine who will be receiving the outputs and how much of the outputs could potentially be taken up (USAID, 2021<sub>[28]</sub>).

#### Stakeholder feedback on setting targets for indicators

While stakeholders largely concurred with the OECD's proposed principles above, they also suggested several enhancements. These included adapting indicators to the local context while maintaining a focus on European benchmarks and ensuring alignment with other national strategic documents in Bulgaria, like the Education Framework 2021-2030. They also stressed the importance of understanding the relationships among different indicators (e.g. between input and outcome indicators) and the crucial role of stakeholder involvement in determining ambitious yet realistic targets. They noted that mere consultations were insufficient, emphasising the need for deeper engagement with stakeholders as they are vital sources of information to develop effective targets.

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In addition, stakeholders discussed the role of political will in the effective establishment of indicator targets and in incorporating these targets into the larger policy cycle. It is essential that targets are regularly reviewed at a political level to ensure they align with political priorities, are practical and realistic, are made feasible through the allocation of dedicated funding and a supportive policy environment and are consistent with targets set across government departments. Without strong political commitment, even well-designed indicators and targets could fall short of their potential impact, and therefore it is important to include discussion of political will in establishing indicator targets.

#### Milestones and indicators by priority area

Specific milestones and indicators are displayed below for each of the four priority areas: developing youth skills, improving adult skills, using skills effectively and strengthening the governance of the skills system.

#### Milestones and indicators for priority area 1: Developing youth skills

The milestones and indicators for developing youth skills aim to capture the degree to which Bulgaria is increasing the skills level of the next generation by improving the development and acquisition of skills from early childhood and through post-secondary vocational and higher education. These milestones and indicators are designed to track progress in improving early childhood development, participation and outcomes, ensuring that curriculum reform and assessment practices improve students' skills, improving equity at all stages in education, developing a highly skilled teaching workforce, and making vocational and higher education more responsive to labour market needs.

Six milestones have been identified for the priority area of developing youth skills, spanning across the short- and medium-term (Box 4.2). The milestones in the short-term focus on developing systems and institutions to help improve and track progress (e.g., by establishing indicators) over time. The two milestones for the medium term both involve creating more systemic changes within academic institutions, which will likely take more time to actualise.

#### Box 4.2. Milestones for developing youth skills

The reference numbers here and in Box 4.3, Box 4.4 and Box 4.5, as well as in Table 4.1, Table 4.2, Table 4.3 and Table 4.4, are formed based on the initials of the priority area to which the indicator belongs: YS for developing youth skills, AS for improving adult skills, USE for using skills effectively, and GOV for strengthening the governance of the skills system. In each priority area, these initials are followed by numbers to refer to indicators (e.g., Indicator YS.1) and by letters to refer to milestones (e.g., Milestone YS.A) in order to distinguish between the two.

#### Short term (<2 years)

 Milestone YS.A: Establish centres providing Early Childhood Development (ECD) services for children from vulnerable groups and their parents, including educational, linguistic, social and health services. These centres would provide general and additional support for young children beyond those provided in ECEC classrooms and groups, such as providing tailored outreach and information to parents from vulnerable backgrounds and engaging all parents of young children in ECEC more effectively, including through information, training, parent-teacher engagement, and by offering psychological and pedagogical support, and access to specialists in health and social services (Activity 1.1.2.1).

- Milestone YS.B: Operationalise the National Quality Framework for early childhood education and care (ECEC) developed in 2022, including developing quality assurance indicators and benchmarks to enable periodic monitoring and analysis (Activity 1.2.2.1).
- **Milestone YS.C:** Develop and disseminate an **annual**, **school-based formative appraisal** to generate evidence on teachers', staff's and principals' training needs (Activity 4.2.1.1).
- Milestone YS.D: Introduce / develop indicators to evaluate the effectiveness of continuous professional development (CPD) programmes for teachers (e.g. outcome indicators such as newly acquired knowledge and skills; improved quality of student-teacher interaction based on teachers' surveys and teacher appraisals; process indicators such as material, equipment, and facilities; and number of training hours delivered) (Activity 4.2.2.2).

#### Medium term (2-4 years)

- Milestone YS.E: Establish a more selective and comprehensive admission system for initial teacher education (ITE) to ensure the suitability and quality of teaching candidates. Create a working group gathering university representatives to encourage ITE providers to establish a common minimum threshold score for ITE admission based on State Matura scores and additional criteria for assessing ITE applicants (Activities 4.1.1.1 and 4.1.1.2).
- Milestone YS.F: Develop a system for automatically generating user-friendly labour market information (LMI) indicators annually for higher education institutions (e.g. graduate labour market outcomes by degree programme and level of study), to inform their course offerings (Activity 5.2.1.1).

Note: All activity numbers refer to the Output 2 report. Source: OECD (2023[30]), Guidance on the Implementation of a Whole-of-Government Action Plan for Skills in Bulgaria, www.oecd.org/skills/centre-for-skills/Guidance-on-the-implementation-of-a-whole-of-government-action-plan-for-skills-in-Bulgaria.pdf.

In total, 18 indicators have been proposed for the priority area on developing youth skills: seven input indicators, six uptake indicators, and five outcome indicators. Seven of the indicators are taken from existing indicators used in Bulgaria or easily accessible from international data sources while eleven are new. Of the new indicators, the OECD has identified three as being semi-feasible as they would require additional methodological steps to collect, whereas the remainder were identified as feasible as they should be quite possible to collect from programme data within municipalities and MES. Because MES registers are not publicly available, the OECD proposes that the Strategic Development and Information Policy Directorate (SDIPD) within MES gather all of the relevant indicator data within MES and transmit the data to the Inter-institutional Data and Evidence Centre (DEC) (see also Figure 5.1).

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## Table 4.1. Indicators for priority area 1: Developing youth skills

	dicator name and eference number	Indicator type	Disaggregation	Data considerations	Output 2 activities linked to the indicator	Baseline value
			Objective 1: Improving early childhood deve	elopment, participation and outcomes		
			Policy Action 1.1: Increasing the participation of young chil	ldren in early childhood education and care	(ECEC)	
YS.1	Expenditure on activities to increase the participation of young children in ECEC	Input	<ul> <li>By type of activity: expansion of existing kindergartens, construction of new kindergartens, provision of support to familiarise kindergarten students with primary schools, provision of information to parents of vulnerable backgrounds about the benefits of ECEC (e.g. home visits, training, parent-teacher engagement, etc.)</li> <li>By source of funding</li> </ul>	New semi-feasible indicator <sup>6</sup> Adapted from: Indicators in NRRP <sup>7</sup> Source: Municipalities, MES State Property and Public Procurement Directorate <sup>8</sup> Collector: MES, Strategic Development and Information Policy Directorate (SDIPD) Frequency: Annual, school year Metadata: To be developed	Activity 1.1.1: Improve access to ECEC and the transition to primary education for every child Activity 1.1.2: Expand general and additional support for participating in ECEC for children and their parents	N/A
YS.2	Number and share of families/households receiving support to increase the participation of young children in ECEC	Uptake	<ul> <li>By type of support activity: see applicable activities in Indicator YS.1</li> <li>By socio-demographic characteristics</li> </ul>	New semi-feasible indicator Adapted from: Indicators in NRRP Source: Municipalities Collector: MES, SDIPD Frequency: Annual, school year Metadata: To be developed	Activities 1.1.1 and 1.1.2	N/A
YS.3	Share of children enrolled in child care and pre-school education institutions, out of total age group	Outcome	<ul> <li>By socio-demographic characteristics</li> <li>By age</li> <li>By municipality or if too complicated - by type of settlement - village, small town, regional city, capital</li> </ul>	Existing feasible indicator Also used in: Indicator 1.1 in NDP Bulgaria 2030; Indicator 3 in Strategic Education Framework 2021-2030 Source: Education and Lifelong Learning ( <u>NSI</u> )	Activities 1.1.1 and 1.1.2	87.3% (ages 3- 7)

<sup>&</sup>lt;sup>6</sup> Given that government institutions (including MES) lack a mechanism to collect data from municipalities and monitor municipal funding for ECEC and provision of support for families, collecting this indicator would likely necessitate additional efforts to establish a mechanism for data collection from municipalities such as developing a methodology and instruments for data collection (e.g. questionnaires for municipal administrations).

<sup>&</sup>lt;sup>7</sup> See more detailed information in Chapter 3.

<sup>&</sup>lt;sup>8</sup> MES already collects data on the construction/expansion of preschools and kindergartens under the "Programme for construction, extension, upgrade and reconstruction of nurseries, kindergartens and schools 2024 – 2026".

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	licator name and ference number	Indicator type	Disaggregation	Data considerations	Output 2 activities linked to the indicator	Baseline value
				Collector: Inter-institutional Data and Evidence Centre (DEC) Frequency: Annual, school year Metadata: Available		
			Policy Action 1.2: Improving	the quality of ECEC		
YS.4	Student-to-staff ratio in childcare and pre- school: Number of pedagogical staff in pre-primary education per number of students enrolled in pre- primary education	Input	<ul> <li>By municipality/region</li> <li>By type of staff (e.g., teachers, non-teacher pedagogical staff)</li> </ul>	Existing feasible indicator Source: Education and Lifelong Learning ( <u>NSI</u> ) Collector: DEC Frequency: Annual, school year Metadata: Available	Activity 1.2.1: Improve the quality of pedagogical and non-pedagogical staff in ECEC	10.96 (2022/20 3 school year)
YS.5	Share of ECEC staff who have participated in ongoing education and training in the last 12 months	Uptake	<ul> <li>By municipality/region</li> <li>By type of staff (e.g., teachers, non-teacher pedagogical staff)</li> </ul>	New feasible indicator Source: MES, Qualifications and Career Development Directorate Collector: MES, SDIPD Frequency: Annual, school year Metadata: To be developed	Activity 1.2.1	N/A
		Objective 2: I	Ensuring that curriculum reform and assessment practic	es improve students' skills in primary an	d secondary education	
			Policy Action 2.1: Building awareness and capacity for Policy Action 2.2: Improving assessment pra	competency-based curriculum implementa		
YS.6	Expenditure on activities to promote competency-based curriculum implementation	Input	<ul> <li>By type of activity: communication activities with stakeholders (e.g. establishment of an online portal, information sessions/workshops on the new curriculum), provision of tools to implement the new curriculum reform, reviews of REDs' capacity and resources, capacity building activities in REDs (e.g. training for teachers)</li> <li>By source of funding</li> <li>By municipality/region</li> </ul>	New feasible indicator Source: REDs, MES Pre-school and School Education Content Directorate Collector: MES, SDIPD Frequency: Annual, school year Metadata: To be developed	Activity 2.1.1: Increase the active involvement of stakeholders in implementing curriculum reform Activity 2.1.2: Reinforce the capacity of regional education departments (REDs) to provide methodological support to teachers in implementing the competency-based curriculum Activity 2.2.1: Align external assessments with the competency-based curriculum Activity 2.2.2: Strengthen the national external assessment system	N/A

	dicator name and ference number	Indicator type	Disaggregation	Data considerations	Output 2 activities linked to the indicator	Baseline value
YS.7	PISA mean score in reading, maths and science; average 3- year trend in reading, maths and science	Outcome	By socio-demographic characteristics	Existing feasible indicator Source: OECD ( <u>PISA</u> ) Collector: DEC Frequency: Annual, school year Metadata: Available	Activities 2.1.1 and 2.1.2 Activity 1.2.1 <sup>9</sup>	Reading: 404 Mathematics: 417 Science: 421
			Objective 3: Improving e	equity in education		1
		Р	Policy Action 3.1: Promoting educational ec olicy Action 3.2: Encouraging multicultural understanding and		ol environment	
YS.8	Resources and expenditure on initiatives to improve equity in education	Input	<ul> <li>By socio-demographic characteristics</li> <li>By municipality/region</li> <li>By type of resource: expenditure, staff, infrastructure</li> <li>By type of activity: development of assessment tools for students with Special Education Needs (SEN), recruitment and training of more teachers for gifted students, multicultural events, trainings for school staff on multicultural understanding, support services to parents from multicultural backgrounds, Bulgarian language training for children from vulnerable groups, etc.</li> </ul>	New feasible indicator Source: REDs Collector: MES, SDIPD Frequency: Annual, school year Metadata: To be developed	Activity 3.1.1: Support full participation in the educational process of children and students with different educational needs (including students in special education and gifted students) Activity 3.1.2: Better tailor educational services to the needs of specific students or groups or students Activity 3.2.1: Foster multicultural understanding in schools Activity 3.2.2: Support greater integration of vulnerable students into the school environment	N/A
YS.9	Number of students receiving support services for social integration into the school environment	Uptake	<ul> <li>By level of education</li> <li>By socio-demographic characteristics</li> <li>By type of support activity: see applicable activities in Indicator YS.8</li> <li>By source of funding</li> </ul>	New feasible indicator Source: REDs Collector: MES, SDIPD Frequency: Annual, school year Metadata: To be developed	Activities 3.1.1, 3.1.2, 3.2.1, 3.2.2	N/A
YS.10	Index of self-efficacy; score in reading, mathematics at age 15	Outcome	<ul> <li>By grade/age/level of education</li> <li>By socio-demographic characteristics</li> <li>By socioeconomic status</li> </ul>	Existing feasible indicator Source: OECD ( <u>PISA, Education</u> <u>Equity Dashboard</u> ) Collector: DEC Frequency: Every 3 years Metadata: Available	Activities 3.1.1, 3.1.2, 3.2.1, 3.2.2	-0.16 (2018)

<sup>&</sup>lt;sup>9</sup> Though somewhat removed temporally from early childhood education and care, Indicator YS.7 could potentially also be used as a proxy outcome indicator under Objective 1, Policy Action 1.2: "Improving the quality of ECEC".

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	dicator name and ference number	Indicator type	Disaggregation	Data considerations	Output 2 activities linked to the indicator	Baselin value
			Objective 4: Developing a highl	y skilled teaching workforce		1
			Policy Action 4.1: Selecting, preparing and n Policy Action 4.2: Monitoring and improving the d		e	
YS.11	Expenditure on activities to select, prepare and retain high-quality teaching candidates	Input	<ul> <li>By type of activity: incentives for employees in industry to enrol in ITE for VET, expansion of practical classroom- and work-based learning for teacher trainees, incentives for diverse ITE teachers, training for teacher mentors</li> <li>By source of funding</li> <li>By level of education (e.g., ECEC, primary, secondary, VET, higher education)</li> </ul>	New feasible indicator Source: MES, Qualifications and Career Development Directorate Collector: MES, SDIPD Frequency: Annual, school year Metadata: To be developed	Activity 4.1.1: Introduce a more selective and comprehensive admission system for initial teacher education (ITE) to ensure the suitability and quality of teaching candidates Activity 4.1.2: Improve the quality and relevance of initial teacher education (ITE) by aligning it more closely with classroom practice, including by expanding and supporting teaching practicum Activity 4.2.1: Align continuing professional development (CPD) programmes more closely to teachers' training needs by improving the collection and use of appraisal, assessment and evaluation data in CPD planning Activity 4.2.2: Strengthen the quality assurance of teachers' continuing professional development (CPD) through preliminary assessment of the CPD offer and systematic evaluation of CPD outcomes	N/A
YS.12	Share of teachers who participated in CPD in the last 12 months	Uptake	<ul> <li>By type of training</li> <li>By level of education</li> <li>By municipality/region</li> </ul>	New feasible indicator <sup>10</sup> Similar indicators also available: Indicators in NRRP Source: MES Pre-school and School Education Directorate; OECD ( <u>TALIS</u> ) Collector: MES, SDIPD Frequency: Annual, school year Metadata: Available	Activities 4.2.1 and 4.2.2	95.9% (OECD TALIS, 2018)

<sup>&</sup>lt;sup>10</sup> This new feasible indicator is proposed as it can be collected frequently, on an annual basis. However, given that stakeholders have expressed a preference for internationally-recognised indicators, an additional measure of this indicator can be collected every five years from the OECD <u>TALIS</u> database to supplement the annual data from MES.

	icator name and ference number	Indicator type	Disaggregation	Data considerations	Output 2 activities linked to the indicator	41 Baseline value
			Objective 5: Making vocational and higher education	•		
Policy YS.13	Expenditure on financial support to	the role of stak Input	<ul> <li>eholders in the development and provision of initial Vocationa</li> <li>By type of incentive: apprentice wage subsidies, tax deductions</li> </ul>	Al Education and Training (VET) programme New semi-feasible indicator <sup>11</sup> Adapted from: Indicator 4.4 in the	Activity 5.1.2: Improve financial and non- financial support to enterprises and students	N/A
	encourage businesses to provide work-based learning (WBL) opportunities to VET students		<ul> <li>By municipality/region</li> <li>By sector</li> <li>By source of funding</li> <li>By size of firm</li> </ul>	SME Strategy 2021-2027 Source : MES VET Directorate, MoF Collector: DEC Frequency: Annual, school year Metadata: To be developed	to engage in work-based learning (WBL)	
YS.14	Number of VET students who are enrolled in work- based learning (WBL) during a specific academic year	Uptake	<ul> <li>By socio-demographic characteristics</li> <li>By municipality/region</li> <li>By sector</li> </ul>	Existing feasible indicator Also used in: Indicator 4.4 in the SME Strategy 2021-2027 Source : MES VET Directorate (MES annual report) Collector: MES, SDIPD Frequency: Annual, school year Metadata: To be developed	Activity 5.1.2	N/A
YS.15	Employment rate of VET graduates 1-3 years after graduation	Outcome	<ul> <li>By sex and age</li> <li>By NUTS 2 regions <sup>12</sup></li> </ul>	Existing feasible indicator Also used in: Indicator 1.3 in NDP Bulgaria 2030 Source: Labour Force Survey (Eurostat) Collector: DEC Frequency: Annual, school year Metadata: Available	Activity 5.1.2	64.8% (2022)

<sup>&</sup>lt;sup>11</sup> In order to collect data and some of the proposed levels of disaggregation (e.g. size of firm) additional steps might need to be taken to enable data collection, as there is currently no method in please to easily track this.

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<sup>&</sup>lt;sup>12</sup> <u>NUTS</u> is a hierarchical system used to divide regions into three levels: NUTS 1 are major socio-economic regions, NUTS2 are basic regions for the application of regional policies, and NUTS 3 are small regions for specific diagnoses.

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	licator name and ference number	Indicator type	Disaggregation	Data considerations	Output 2 activities linked to the indicator	Baselir value
			Policy Action 5.2: Increasing the relevance of higher	education to labour market and student ne	eds	
YS.16	Resources used to steer higher education students into prioritised fields	Input	<ul> <li>By type of activity: subsidies for enrolment places in priority areas, scholarships, career guidance, incentives to support disadvantaged students</li> <li>By area of education</li> <li>By source of funding</li> <li>By municipality/region</li> </ul>	New feasible indicator Source: MES Higher Education Directorate, MoF Collector: MES, SDIPD Frequency: Annual, school year Metadata: To be developed	Activity 5.2.1: Strengthen higher education institutions' capacity to align their educational offers in relevant fields of study with labour market needs Activity 5.2.2: Continue to provide financial aid and expand non-financial measures to support students from disadvantaged backgrounds in higher education, especially in programmes meeting priority skills needs	N/A
YS.17	Share of student enrollment and completions in fields designated as facing skills shortages and/or being of strategic importance	Uptake	<ul> <li>By area of education</li> <li>By municipality/region</li> <li>By socio-demographic characteristics</li> </ul>	New feasible indicator Adapted from: Indicators in NRRP Source: Higher education institutions Collector: MES, SDIPD Frequency: Annual, school year Metadata: To be developed	Activity 5.2.1	N/A
YS.18	Employment rate of higher education graduates 1-3 years after graduation	Outcome	<ul> <li>By sex and age</li> <li>By NUTS 2 regions</li> </ul>	Existing feasible indicator Source: Labour Force Survey (Eurostat) Collector: DEC Frequency: Annual, school year Metadata: Available	Activity 5.2.1	90.6% (2022)

Note: The reference numbers here and in Table 4.2, Table 4.3 and Table 4.4, as well as in Box 4.2, Box 4.3, Box 4.4 and Box 4.5, are formed based on the initials of the priority area to which the indicator belongs: YS for developing youth skills, AS for improving adult skills, USE for using skills effectively, and GOV for strengthening the governance of the skills system. In each priority area, these initials are followed by numbers to refer to indicators (e.g., Indicator YS.1) and by letters to refer to milestones (e.g., Milestone YS.A) in order to distinguish between the two.

## Stakeholder feedback on milestones and indicators for developing youth skills

During consultations stakeholders identified three areas for improvement of the proposed indicators related to developing youth skills. Unless stated otherwise, these suggestions have been incorporated into Table 4.1. First, stakeholders noted that there is a need to remove or adjust indicators that relate to legal mandates or are incomplete and therefore would not show progress or changes over time. Second, some indicators need to be made more precise, whether in their wording, data source or collector, or their Bulgarian translation. Third, some indicators need to be added or assigned a different indicator type to accurately reflect policy goals.

Specific stakeholder feedback included:

- Reassign the responsibility of the indicator on expenditure to increase participation in Early Childhood Education and Care (ECEC) (YS.1) from MES to municipalities. OECD kept MES in addition to adding municipalities, as MES has data specifically on the construction and expansion of kindergartens, which is included under YS.1.
- Some indicators where municipalities have been identified as the data source (YS.1, YS.2) should be changed to be "semi-feasible" new indicators given that additional steps will have to be taken to facilitate data collection from municipalities that is not currently in place. For others (YS.5, YS.6, YS.8, YS.9, YS.11, YS.14), the source should be changed to MES and/or REDs.
- Add a disaggregation by municipality or type of settlement for the indicator on children enrolled in ECEC (YS.3).
- Move the indicator on staff-to-student ratio (YS.4) from an outcome indicator to an uptake indicator. The OECD ultimately decided that this acts as more of an input indicator.
- Specify source of information for the indicator on school readiness among children. Alternatively, other stakeholders reflected that this is not so feasible to collect and that current assessments of children entering primary education are for the specific purpose of identifying learning difficulties. The OECD decided to remove this indicator.
- Redefine or delete the indicator on the PISA mean scores (YS.7). At the moment it covers only part of the student population, making it unsuitable as an indicator. While the OECD agrees this indicator does not cover the entire student population, it has been kept as a proxy indicator of student performance.
- Add an additional indicator that tracks the number of students from lower socio-economic backgrounds achieving good results using PISA indicators. **The OECD has added YS.10.**
- Delete the indicator on hours ITE students spend in practical training, as this is mandated and would not be informative.
- Ensure that teachers at all levels of education (including higher education) are included (YS.11, YS.12).
- Revise the translations into Bulgarian of indicators on support for work-based learning (YS.13, YS.14). This will be noted for future implementation.
- Ministry of Finance (MoF) should be added to the data source for expenditure on support for WBL (YS.13) and it should be made a semi-feasible indicator because collecting data at some of the proposed levels of disaggregation (e.g. size of firm) may require additional methodological steps.
- The data source for expenditure on steering higher education students to prioritised fields (YS.16) should be the higher education directorate in MES, not the higher education institutions themselves.
- Remove the following disaggregation categories from the indicator on employment rate of HE graduates (YS.18) it is not possible to disaggregate in these ways based on the Eurostat data: by industry, by area of education/study, by municipality. The OECD has applied the same to YS.15 as well.

## Milestones and indicators for priority area 2: Improving adult skills

The milestones and indicators for developing adult skills are intended to track progress in increasing the frequency and quality of lifelong learning through adulthood in Bulgaria. Some of the milestones and indicators capture changes in lifelong learning over time as they relate to individual adults, others as they relate to enterprises, and others still as they relate to adult education and training providers. They include input, uptake and outcome indicators related to increasing the motivation among adults and employers to participate in adult learning, making education and training more flexible and accessible for adults and employers.

There are four milestones within the priority area of improving adult skills, three of which are meant to be realised in the short term and one in the medium term. Two of the milestones for the short term are related to improving Bulgaria's process for the recognition of prior learning (RPL), which can help adults in Bulgaria access jobs, trainings, and additional qualifications based on the skills they have already acquired informally. The other milestone designated for the short term aims to help Bulgarian officials understand at a more systemic level which skills and areas of adult education and training should be prioritised and incentivised through skills policy in order to meet the needs of the labour market and the demand for skills among employers. In the medium term, there is also a milestone to create greater transparency and credibility in institutions providing adult education and training by developing a process for external, objective assessment.

## Box 4.3. Milestones for improving adult skills

## Short term (<2 years)

- **Milestone AS.A**: Reform and streamline the **recognition of prior learning (RPL) procedure** in Bulgaria. This could be done by simplifying and shortening the administrative process for RPL both for individuals and for RPL providers (Activity 7.2.1.1).
- **Milestone AS.B:** Alter the design of **RPL certificates**. The certificates should be changed to match professional qualification certificates to make them better understood and more accepted by educational and training institutions and employers (Activity 7.2.1.2).
- Milestone AS.C: Develop and regularly update a list of prioritised skills and areas of adult education and training of national and/or regional importance informed by the skills assessment and anticipation, current employment forecasting projections and the list of "protected specialities" and "priority professional fields" (these lists are already used to determine financial incentives in secondary education) (Activity 8.2.2.1).

### Medium term (2-4 years)

• **Milestone AS.D**: Establish an *ex post* assessment process of all adult education and training providers. This assessment process should be required for all adult learning providers, including those only providing partial qualifications. The assessments should be conducted by an external evaluation team (Activity 8.1.2.1).

Note: All activity numbers refer to the Output 2 report. The reference numbers here and in Box 4.2, Box 4.4 and Box 4.5, as well as in Table 4.1, Table 4.2, Table 4.3 and Table 4.4 are formed based on the initials of the priority area to which the indicator belongs: YS for developing youth skills, AS for improving adult skills, USE for using skills effectively, and GOV for strengthening the governance of the skills system. In each priority area, these initials are followed by numbers to refer to indicators (e.g., Indicator AS.1) and by letters to refer to milestones (e.g., Milestone AS.A) in order to distinguish between the two.

Source: OECD (2023<sub>[30]</sub>), Guidance on the Implementation of a Whole-of-Government Action Plan for Skills in Bulgaria, www.oecd.org/skills/centre-for-skills/Guidance-on-the-implementation-of-a-whole-of-government-action-plan-for-skills-in-Bulgaria.pdf.

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For the priority area on improving adult skills, 16 indicators have been selected and displayed below (Table 4.2). These include five input indicators, six uptake indicators and five outcome indicators. Five of the indicators are existing indicators, while the remainder are new but feasible. Much of the data is expected to come from NAVET and MLSP/NEA, with the rest coming from MES and international-standard surveys such as the Adult Education Survey, the Labour Force Survey and the Continuing Vocational Training Survey.

## Table 4.2. Indicators for priority area 2: Improving adult skills

Indi	cator name and reference number	Indicator type	Disaggregation	Data considerations	Output 2 activities linked to the indicator	Baseline value
	Deliau Action C.4. In	-		dults and employers to participate in add	-	
				duals and employers (including SMEs) to pa individuals and employers (including SMEs	<ul> <li>b) to participate in adult education and training</li> <li>c) to participate in adult education and training</li> </ul>	
AS.1	Expenditure on activities to improve the motivation of adults to participate in AET	Input	<ul> <li>By activity type: Provision of career guidance services through guidance centres, provision of information and support, provision of online skills assessment tools, training vouchers</li> <li>By guidance provider: Guidance centres, employers</li> <li>By sources of funding</li> <li>By type of support provided to adults through the activity (e.g., information, financial)</li> <li>By type of training: Vocational training, key competences, soft skills</li> </ul>	New feasible indicator Source: NAVET, MLSP, NEA, Collector: DEC Frequency: Annual Metadata: To be developed	Activity 6.1.1: Strengthen holistic career guidance services for employed adults Activity 6.2.1: Improve the effectiveness of individual training vouchers	N/A
AS.2	Expenditure on activities to improve the motivation of employers to encourage/provide AET for their workers	Input	<ul> <li>By activity type: Provision of information and support to employers, subsidies for employers, skills assessment tools for the workplace</li> <li>By sources of funding</li> <li>By type of support provided to employers through the activity: Financial, non-financial</li> </ul>	New feasible indicator Adapted from: Indicator 4.3 in the SME Strategy 2021-2027 Source: MLSP, NEA Collector: DEC Frequency: Annual Metadata: To be developed	Activity 6.1.2: Strengthen guidance to employers to assess their skills and training needs Activity 6.2.2: Better engage small- and medium-sized enterprises in adult education and training by piloting a sectoral training fund(s), with relatively higher support for smaller-sized enterprises	N/A
AS.3	Number and share of adults receiving support to improve motivation to participate in AET	Uptake	<ul> <li>By socio-demographic characteristics</li> <li>By education level</li> <li>By type of support: Career guidance, training vouchers</li> </ul>	New feasible indicator Source: NAVET, MLSP, NEA Collector: DEC Frequency: Annual Metadata: To be developed	Activities 6.1.1 and 6.2.1	N/A

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Indi	cator name and reference number	Indicator type	Disaggregation	Data considerations	Output 2 activities linked to the indicator	47 Baseline value
AS.4	Number and share of enterprises receiving support to improve motivation for promoting AET among workers	Uptake	<ul> <li>By sector</li> <li>By type of support: Skills assessment tools, financial support for sectoral training funds, financial support for training provision</li> </ul>	New feasible indicator Adapted from: Indicator 4.3 in the SME Strategy 2021-2027 Source: MLSP, NEA Collector: DEC Frequency: Annual Metadata: To be developed	Activities 6.1.2 and 6.2.2	N/A
AS.5	Percentage of the adult population (25 to 64 years) who did not participate and did not want to participate in adult education and training	Outcome	• By age	Existing feasible indicator Source: Adult Education Survey (AES) (Eurostat) Collector: Inter-institutional Data and Evidence Centre (DEC) Frequency: Every 5 years Metadata: Available	Activities 6.1.1 and 6.2.1	72% (2022)
		Objectiv		nore flexible and accessible for adults and	d employers	
			Policy Action 7.1: Improving the fle	xibility of adult education and training offers		
AS.6	Number and percentage of AET courses that are offered in a flexible format	Input	<ul> <li>By type of training: Vocational training, key competences, soft skills</li> <li>By type of course: Partial qualifications, online courses, micro-credentials</li> </ul>	New feasible indicator Adapted from: Indicator 4.6 in the SME Strategy 2021-2027; Indicators in NRRP <sup>13</sup> Source: NAVET, MES, MLSP <sup>14</sup> Collector: DEC Frequency: Annual Metadata: To be developed	Activity 7.1.1: Promote existing flexible adult education and training opportunities Activity 7.1.2: Expand flexible adult education and training opportunities	N/A
AS.7	Number and percentage of adults participating in flexible AET courses	Uptake	<ul> <li>By type of training: See AS.6</li> <li>By type of course: See AS.6</li> <li>By socio-demographic characteristics</li> <li>By municipality/region</li> </ul>	New feasible indicator Source: NAVET (register on individuals trained in Vocational Training Centres (VTCs)), MLSP, NEA Collector: DEC Frequency: Annual Metadata: To be developed	Activities 7.1.1 and 7.1.2	N/A

<sup>13</sup> See more detailed information in Chapter 3.

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<sup>&</sup>lt;sup>14</sup> MLSP is involved in the development of an online adult education platform under the "Provision of Training for Digital Skills and Creation of a Platform for Adult Education" project under the ESF+ Human Resources Development Programme, and therefore will likely have relevant information to contribute to this indicator once the platform is operational (currently forecasted for 2026).

India	cator name and reference number	Indicator type	Disaggregation	Data considerations	Output 2 activities linked to the indicator	Baseline value
AS.8	Percentage of adult population (25 to 64 years) wanting to participate in education and training but not	Outcome	<ul> <li>By reason for not participating</li> <li>By sex and age</li> </ul>	Existing feasible indicator Source: AES ( <u>Eurostat</u> ) Collector: DEC Frequency: Every 5 years Metadata: Available	Activities 7.1.1 and 7.1.2	21% (2016)
			Policy Action 7.2: Improving the equity	and accessibility of adult education and train	ning	
AS.9	Expenditure on improving the RPL system	Input	<ul> <li>By activity: RPL services, adult basic (primary) education</li> <li>By type of resource: Financial, non-financial</li> <li>By funding source</li> <li>By target of initiative: Adults, AET providers</li> </ul>	New feasible indicator Adapted from: Indicator 4.5 in the SME Strategy 2021-2027; Indicators in NRRP Source: MES Collector: DEC Frequency: Annual Metadata: To be developed	Activity 7.2.1: Optimise the procedure for the recognition of prior learning (RPL) to encourage greater uptake of RPL services Activity 7.2.2: Ease access to adult basic education and expand basic education opportunities for learners in other education and training programmes	N/A
AS.10	Number and share of adults participating in free basic (primary) education for a specific period (e.g. last 12 months)	Uptake	<ul> <li>By socio-demographic characteristics</li> <li>By municipality/region</li> </ul>	New feasible indicator Source: MES Collector: DEC Frequency: Annual, school year Metadata: To be developed	Activity 7.2.2	N/A
AS.11	Number and share of AET providers offering RPL services	Uptake	<ul><li>By type of AET institution</li><li>By region</li></ul>	New feasible indicator Source: NAVET (register of VTCs) Collector: DEC Frequency: Annual Metadata: To be developed	Activity 7.2.1	N/A
AS.12	Share of adults with basic education or below who participated in formal or non-formal education and training out of total adults with basic education	Outcome	N/A	Existing feasible indicator Source: AES ( <u>NSI</u> ) Collector: DEC Frequency: Every 5 years Metadata: Available	Activities 7.2.1 and 7.2.2	5.6% (2022)
		-		ce of education and training for adults a		
				adult learning opportunities, and the quality nore relevant to learners' and labour market		
AS.13	Expenditure on initiatives to improve the quality and relevance of AET	Input	• By type of activity: Andragogical training for AET trainers, skills forecasting, awareness-raising activities	New feasible indicator Source: NAVET, MES Collector: DEC Frequency: Annual Metadata: To be developed	Activity 8.1.1: Strengthen <i>ex ante</i> assessment of adult learning providers Activity 8.1.2: Develop a system for independent, ex post monitoring and assessment of adult learning	N/A

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Indic	cator name and reference number	Indicator type	Disaggregation	Data considerations	Output 2 activities linked to the indicator	49 Baseline value
			<ul> <li>By type of resources: human, financial, infrastructure</li> <li>By source of funding</li> </ul>		Activity 8.2.1: Make adult education and training more relevant to the specific needs of adult learners Activity 8.2.2: Align AET with skills needs in the labour market	
AS.14	Number and share of adults enrolled in AET courses in areas on the "list of prioritised areas for AET"	Uptake	<ul> <li>By socio-demographic characteristics</li> <li>By municipality/region</li> <li>By prioritised area</li> </ul>	New feasible indicator Source: NAVET, MLSP, NEA Collector: DEC Frequency: Annual Metadata: To be developed	Activity 8.2.2	N/A
AS.15	Share of people aged 25 to 64 who received formal or non-formal education and training in the four weeks preceding the survey out of the total population of the same age group <sup>15</sup>	Outcome	• By sex and age	Existing feasible indicator Also used in: Indicator 16 in Strategic Education Framework 2021-2030; Employment Strategy 2021-2030 <sup>16</sup> Source : Labour Force Survey (LFS) ( <u>Eurostat</u> ) Collector: DEC Frequency: Annual Metadata: Available	Activities 8.1.1, 8.1.2, 8.2.1, 8.2.2	1.7% (2022)
AS.16	Percentage of enterprises providing training	Outcome	<ul> <li>By firm size</li> <li>By type of training provided</li> </ul>	Existing feasible indicator Source: Continuing Vocational Training Survey (CVTS) (Eurostat) Collector: DEC Frequency: Every 5 years Metadata: Available	Activity 8.2.2	41.1% (2020)

Note: The reference numbers here and in Table 4.1, Table 4.3 and Table 4.4, as well as in Box 4.2, Box 4.3, Box 4.4 and Box 4.5, are formed based on the initials of the priority area to which the indicator belongs: YS for developing youth skills, AS for improving adult skills, USE for using skills effectively, and GOV for strengthening the governance of the skills system. In each priority area, these initials are followed by numbers to refer to indicators (e.g., Indicator AS.1) and by letters to refer to milestones (e.g., Milestone AS.A) in order to distinguish between the two.

<sup>&</sup>lt;sup>15</sup> Alternatively or additionally, Bulgaria could consider tracking the total *number* of adults participating in adult education and training courses.

<sup>&</sup>lt;sup>16</sup> See more detailed information in Chapter 3.

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## Stakeholder feedback on milestones and indicators for improving adult skills

For indicators related to developing adult skills in Bulgaria, stakeholders highlighted concerns about feasibility of data due to challenges in quality and/or collection. Stakeholders also requested clarity on concepts mentioned in the indicators such as "pilot sector training funds" and key stakeholders who should be mentioned like national accreditation agencies. In addition, stakeholder discussions also covered the degree to which proposed indicators capture progress in the transversality of vocational education, recognition of prior learning, quality of trainee evaluations and international cooperation on skills development. Unless otherwise indicated, the stakeholder suggestions have been reflected in Table 4.2.

Specific stakeholder feedback included:

- MES should be removed as responsible actors for the indicators on improving motivation of individuals to participate in AET (AS.1, AS.3) and an indicator related to provision of flexible and accessible AET (AS.7), but MLSP and NEA should be added as they are more involved in these areas.
- MLSP and NEA should replace MEI as the data source for the indicators on improving the motivation
  of employers to encourage/provide AET to workers (AS.2, AS.4) as MEI does not fund or track
  funding/uptake in this area.
- Indicators on incentives for individuals and incentives for employers need to be separated as indicators for these different target audiences had different data sources and methodologies for data collection.
- Delete the following indicators: the indicator on expenditure on awareness raising activities for flexible
  education and training courses as it lacks reliable sources of information; the indicator on eligible
  individuals for adult education financial benefits as it is redundant given that all people of age 18 or
  over are eligible; the indicator on the percentage of adults participating in AET measures and reporting
  positive outcomes as it raises methodological concerns.
- Expand the indicator on AET institutions and employers that use/promote more flexible offers to include universities and their recognition of courses from VET schools. In order to limit the total number of indicators, the OECD decided to include only an indicator on the number and percentage of adults participating in flexible courses (AS.7), and not another on the offer.
- Credibility concerns were raised regarding the indicators on adults who assess the quality of adult learning and CVET as "good" or "very good" and the change in employees that answered 'High' when asked 'Perceived value of training' on the European Company Survey. The OECD removed these indicators for now. However, NAVET also commented that a recent update to its information system included creating a module for measuring and presenting the degree of satisfaction of trained individuals in VTCs and their employers for the purpose of tracking quality of training provided. In the future, Bulgaria may consider adding an indicator based on this module.
- Remove disaggregation categories for the indicator on adults with basic education or lower participating in education and training (AS.12), as this is not possible with the data available in NSI.
- For the indicator on adults participating in education and training (AS.15), remove the disaggregation by type of adult education as this is not possible if the source is the Labour Force Survey (LFS) and specify which socio-demographic characteristics are possible to track with data from LFS.
- An indicator on adult participation in education and training in the past 12 months (Eurostat) can be added instead of or in addition to the present indicator (AS.15). The OECD has chosen to keep indicator AS.15 as the data for this indicator is updated more frequently in Eurostat.
- In general, it is not feasible to provide disaggregated data by firm size for EU funded projects, as the assessment of the size of enterprise is not mandatory for all funded operations due to the high administrative burden. The OECD has removed disaggregation by firm size from indicators related to improving adult skills due to this feedback. However, as this can provide valuable

information, the OECD would encourage Bulgaria to revisit the feasibility of collecting data according to this disaggregation in the future, where possible.

## Milestones and indicators for priority area 3: Using skills effectively

The milestones and indicators for using skills effectively aim to describe how Bulgaria uses the full economic and social value from its investments in developing the skills of its youth and adults. They cover the inputs, uptake and outcomes of activities that aim to activate of skills of vulnerable groups in the labour market, foster return emigration and skilled immigration to Bulgaria, and support enterprises to utilise their workers' skills more effectively.

Two milestones have been identified for the priority area on using skills effectively, both of which are set over the medium term and involve activities under Objective 10: Fostering return emigration and skilled immigration to Bulgaria (Box 4.4). Both milestones lay the foundations for the promotion of return emigration and skilled immigration to the country, specifically through the development of a roadmap and an online platform. The achievements of these milestones would allow Bulgarian authorities to pursue other related activities, such as assigning clear responsibilities and adequate resources for return emigration and skilled immigration, and the provision of more support services (e.g., access to information, networking events) to emigrants and skilled immigrants.

## Box 4.4. Milestones for using skills effectively

### Medium term (2-4 years)

- Milestone USE.A: Co-ordinate between ministries and social partners to develop a comprehensive and ambitious roadmap for return emigration and skilled immigration. The roadmap should explicitly articulate the potential benefits of and a positive vision for return emigration and skilled immigration; set ambitious and concrete goals and targets for return emigration and skilled immigration (including for international students in Bulgaria); and align with Bulgaria's current and anticipated skills needs (Activity 10.1.1.1)
- Milestone USE.B: Develop an online platform targeting Bulgarian workers abroad and potential skilled immigrants. The platform should promote relocation to Bulgaria, provide relevant information (e.g. on Blue Cards and Startup Visas), foster communications and allow for the development of online communities (Activity 10.2.1.1).

Note: All activity numbers refer to the Output 2 report. The reference numbers here and in Box 4.2, Box 4.3 and Box 4.5, as well as in Table 4.1, Table 4.2, Table 4.3 and Table 4.4, are formed based on the initials of the priority area to which the indicator belongs: YS for developing youth skills, AS for improving adult skills, USE for using skills effectively, and GOV for strengthening the governance of the skills system. In each priority area, these initials are followed by numbers to refer to indicators (e.g., Indicator USE.1) and by letters to refer to milestones (e.g., Milestone USE.A) in order to distinguish between the two.

Source: OECD (2023<sub>[30]</sub>), Guidance on the Implementation of a Whole-of-Government Action Plan for Skills in Bulgaria, www.oecd.org/skills/centre-for-skills/Guidance-on-the-implementation-of-a-whole-of-government-action-plan-for-skills-in-Bulgaria.pdf.

A total of 14 indicators have been identified for the priority area on using skills effectively – six of which are inputs, five of which are uptake, and three of which are outcomes (Table 4.3). Eight indicators come from existing sources, such as databases from the OECD and Eurostat, the European Company Survey, the Labour Force Survey, registries of the National Employment Agency and the National Social Security Institute, and programmes implemented by the Ministry of Innovation and Growth (MIG). While six out of 14 indicators are entirely new, a significant majority of them are feasible, as they may be directly collected from programme data (e.g., expenditure) or involve collecting data directly from the source (e.g., enterprises).

## Table 4.3. Indicators for priority area 3: Using skills effectively

Indica	ator name and reference number	Indicator type	Disaggregation	Data considerations	Output 2 activities linked to the indicator	Baseline value
			Objective 9: Activating the skills of vulne	rable groups in the labour market		
		Polic	cy Action 9.1: Strengthening the effectiveness of	f employment services for vulnerable adults		
USE.1	Number and proportion of National Employment Agency (NEA) mediators assigned to work specifically with members of vulnerable groups <sup>17</sup>	Input	• By target group of NEA clients: Roma, youth, etc.	New feasible indicator Source: NEA Collector: Inter-institutional Data and Evidence Centre (DEC) Frequency: Annual Metadata: To be developed	Activity 9.1.2: Increase the frequency and intensity of NEA caseworker interactions with unemployed adults from vulnerable groups to help more of these adults access training and jobs	N/A
USE.2	Expenditure by active labour market policies <sup>18</sup> (ALMP) intervention	Input	<ul> <li>By professional qualifications</li> <li>By key competencies</li> </ul>	Existing feasible indicator Adapted from: Indicators in the annual National Employment Action Plan (NEAP) Source: Labour Market Policy (LMP) database (Eurostat), or MLSP/NEA Collector: DEC Frequency: Annual Metadata: Available	Activity 9.1.3: Place more unemployed adults from vulnerable groups into tailored and labour- market-relevant training programmes by increasing the supply and demand for these programmes	Ex : EUR 7.16 million on training (2021)
USE.3	Number of persons (aged 15-64) registered as unemployed with the NEA	Uptake	By demographic characteristics	Existing feasible indicator Source: NEA Collector: DEC Frequency: Annual Metadata: Available	Activity 9.1.1: Connect more vulnerable adults to employment services	N/A
USE.4	Employment outcomes of participants in NEA services/ ALMP programmes targeted at specific population groups	Outcome	By demographic groups	Existing feasible indicator Adapted from: Indicators in Employment Strategy 2021-2030 <sup>19</sup> ; Indicator EECR06 in	Activities 9.1.1, 9.1.2, 9.1.3	N/A

<sup>&</sup>lt;sup>17</sup> Currently there are only specific NEA mediators for the Roma and youth populations. However, NEA may consider adding mediators, activators and caseworkers to work with additional vulnerable population groups, as proposed in Activity 9.1.2 in Output 2 (e.g. low-skilled adults, parents unemployed after parental leave) and, if so, should monitor the number and proportion of NEA mediators, activators and caseworkers working specifically with these groups as well.

<sup>19</sup> See more detailed information in Chapter 3.

<sup>&</sup>lt;sup>18</sup> Active labour market policies (ALMP) refer to policies that aim to provide more individuals with access to the labour force and good jobs. ALMPs may be broadly classified into three types: policies that strengthen individuals' motivation to work, policies that improve people's labour-supply capabilities, and policies that expand opportunities through intermediation and improved labour demand (<u>OECD, 2022</u>). See specific examples of relevant ALMP under Activity 9.1.3 in Output 2.

				1	1	53			
Indica	Indicator name and reference number		Indicator name and reference number		ator name and reference number Indicator Disaggregation		Data considerations	Output 2 activities linked to the indicator	Baseline value
			By employment outcome     (e.g., engaged in job searching, in     education or training, gaining a     qualification, in employment)	the ESF+ indicators toolbox <b>Source:</b> NEA microdata, NSI administrative registry <sup>20</sup> <b>Collector:</b> DEC <b>Frequency:</b> Annual <b>Metadata:</b> To be developed					
	1		Policy Action 9.2: Ensuring gender equality in	n the labour market	1				
USE.5	Expenditure on incentives for enterprises to adopt employment support measures for single parents and parents with many children	Input	<ul> <li>By type of support for employment: flexible working time, shorter working hours, more paid leave, financial assistance, training opportunities, long-term care services, on-site kindergartens</li> <li>By economic sector of firm</li> <li>By funding source</li> </ul>	New semi-feasible indicator Source: MLSP Collector: DEC Frequency: Annual Metadata: To be developed	Activity 9.2.1: Provide additional support to adults with family care responsibilities, especially women, to participate in the labour market Activity 9.2.2: Improve services and infrastructure to ease the burden on adults with family care responsibilities, especially women, allowing them to participate more in the labour market	N/A			
USE.6	Number and share of enterprises that have adopted employment support measures for single parents and parents with many children	Uptake	<ul> <li>By type of support for employment</li> <li>By firm characteristics</li> <li>By funding source</li> </ul>	New feasible indicator Source: Enterprises Collector: DEC Frequency: Annual Metadata: To be developed	Activities 9.2.1 and 9.2.2	N/A			
USE.7	Employment rate of women out of the total female working-age population (aged 15-64)	Outcome	<ul> <li>By demographic groups</li> <li>By region</li> <li>By industry</li> </ul>	Existing feasible indicator Adapted from: Indicator in Employment Strategy 2021-2030 Source : Labour Force Survey (Eurostat, NSI) Collector: DEC Frequency: Annual Metadata: Available	Activities 9.2.1 and 9.2.2	66.8% (2022)			

<sup>&</sup>lt;sup>20</sup> Employment outcomes for youth and long-term unemployed are monitored within the <u>EU Council Recommendation of 30 October 2020 on A Bridge to Jobs –</u> <u>Reinforcing the Youth Guarantee</u> and within the <u>EU Council Recommendation of 15 February 2016 on the integration of the long-term unemployed into the labour</u> <u>market</u>. Data collection is done annually by the European Commission through the Employment Committee Indicators Group on the basis of administrative data from the NEA.

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Indica	tor name and reference number	Indicator type	Disaggregation	Data considerations	Output 2 activities linked to the indicator	Baseline value
		Objec	tive 10: Fostering return emigration and skill	ed immigration to Bulgaria		
	Policy A		ising return emigration of qualified specialists an Action 10.2: Reaching and supporting return mig			
USE.8	Financial resources dedicated to support services for returning emigrants and skilled immigrants (including international students)	Input	<ul> <li>By type of support measure: networking events and job fairs, information sessions for starting businesses, job-search matching services, provision of information on integration into Bulgaria</li> <li>By funding source</li> <li>By responsible agency/body</li> </ul>	New feasible indicator Source: State National Council on Migration, Borders, Asylum and Integration Collector: DEC Frequency: Annual Metadata: To be developed	Activity 10.2.1: Develop a comprehensive suite of measures for reaching out to Bulgarian emigrants and potential skilled immigrants to promote migration Activity 10.2.2: Develop a comprehensive suite of services to help returning emigrants, skilled immigrants and international students find suitable work, start businesses and integrate into Bulgarian society	N/A
USE.9	Number of return emigrants and skilled immigrants receiving targeted support measures	Uptake	<ul> <li>By demographic characteristics</li> <li>By type of support measure</li> </ul>	New feasible indicator Source: State National Council on Migration, Borders, Asylum and Integration Collector: DEC Frequency: Annual Metadata: To be developed	Activities 10.2.1 and 10.2.2	N/A
		Object	tive 11: Supporting enterprises to utilise work	kers' skills more effectively		
	Policy Action 11.1: Promoting	effective skills u	se and the adoption of high-performance workpla	ace practices (HPWP) <sup>21</sup> in Bulgarian workplaces,	including in SMEs	
USE.10	Share of employers who report that they have implemented HPWP to a high/very high extent	Uptake	• By firm characteristics	Existing semi-feasible indicator Source: Enterprises (European Company Survey, OECD PIAAC) <sup>22</sup> Collector: DEC Frequency: Every 5 years Metadata: Available	Activity 11.1.1: Raise awareness of effective skills use and HPWP in Bulgarian workplaces Activity 11.1.2: Support employers to improve skills use and adopt high- performance workplace practices (HPWP), including SMEs	N/A

<sup>&</sup>lt;sup>21</sup> While there is no universally agreed-upon definition of HPWPs, the OECD Centre for Skills often refers to HPWPs as practices that aim to use workers' skills more effectively, such as by promoting flexibility in working time and autonomy in task execution, teamwork and information sharing, training and development, and the provision of benefits, career progression and performance management services (<u>OECD, 2023</u>).

<sup>&</sup>lt;sup>22</sup> Until Bulgaria participates in the OECD's Survey of Adult Skills (PIAAC), related indicators from the European Company Survey may be used.

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Indica	tor name and reference number	Indicator type	Disaggregation	Data considerations	Output 2 activities linked to the indicator	Baseline value
	Policy Action 1	1.2: Driving inno	vation within firms by improving human resource	e capacity in fields designated for smart specialisati	ion	
USE.11	Gross domestic expenditure on R&D (GERD) by sector of performance and type of expenditure (% of GDP)	Input	<ul> <li>By activity type: expenditure for establishment of centres of excellence in VET, financial support for dual training programmes, human resources training activities in enterprises, reintegration grants, exchange programmes, promotion of industry-academia collaborations, awareness campaigns and outreach programmes for PhD students, scholarships, promotion of internships and industrial placements etc. <sup>23</sup></li> <li>By economic activity/sector</li> <li>By funding source</li> </ul>	Existing feasible indicator Source: OECD ( <u>Eurostat</u> ) Collector: DEC Frequency: Annual Metadata: Available	Activity 11.2.1: Enhance human resource capacity in new technologies and innovation Activity 11.2.2: Improve the international and intersectoral mobility of skilled individuals in fields designated for smart specialisation	0.77% (2022)
USE.12	Number of centres of excellence in vocational education and training established	Input	<ul><li>By region</li><li>By sector</li></ul>	New feasible indicator Source: MES Collector: DEC Frequency: Annual Metadata: To be developed	Activity 11.2.1	N/A
USE.13	Number of employees in SMEs trained for skills in the field of Industry 4.0	Uptake	• By firm characteristics	Existing feasible indicator Adapted from: The Innovative Strategy for Smart Specialisation 2021-2027 Source: MIG (Programme Competitiveness and Innovation in Enterprises [PCIE] 2021 – 2027) Collector: DEC Frequency: Annual Metadata: Available	Activity 11.2.1	N/A

<sup>&</sup>lt;sup>23</sup> Bulgarian authorities may determine whether these activities from the Action Plan for Skills may be considered as eligible entries for the expenditure and investment types included in the proxy indicator from Eurostat "Gross expenditure on R&D (GERD) by sector of performance and type of expenditure) (see <u>here</u>). This proxy indicator is currently disaggregated into current expenditure (labour cost, other expenditure, other expenditure - external R&D personnel, other expenditure (excluding R&D personnel) and capital expenditure (land and buildings, instruments and equipment, computer software, other intellectual property products).

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Indicat	Indicator name and reference number		Disaggregation	Data considerations	Output 2 activities linked to the indicator	Baseline value
USE.14	Number and share of enterprises that have implemented an innovation (innovation core activities)	Outcome	• By firm characteristics	Existing feasible indicator Source: NSI (Community Innovation Survey [Eurostat], PCIE and Programme Research, Innovation and Digitisation for Smart Transformation [PRIDST]) Collector: DEC Frequency: Every 2 years Metadata: Available	Activity 11.2.1	36.2% (2020)

Note: The reference numbers here and in Table 4.1, Table 4.2 and Table 4.4, as well as in Box 4.2, Box 4.3, Box 4.4 and Box 4.5, are formed based on the initials of the priority area to which the indicator belongs: YS for developing youth skills, AS for improving adult skills, USE for using skills effectively, and GOV for strengthening the governance of the skills system. In each priority area, these initials are followed by numbers to refer to indicators (e.g., Indicator USE.1) and by letters to refer to milestones (e.g., Milestone USE.A) in order to distinguish between the two.

## Stakeholder feedback on milestones and indicators for using skills effectively

Stakeholders provided feedback that a number of indicators for using skills effectively should be deleted or revised in order to streamline the indicators and make them more precise and relevant. In addition, they suggested adaptations to improve the accuracy and applicability of the indicators. Unless otherwise stated the suggested changes have been incorporated in Table 4.3.

Specific stakeholder feedback included:

- Elaborate on the indicator on active labour market policies (ALMP) (USE.2) by further explaining the meaning of ALMP, adding disaggregation by professional qualification and changing disaggregation by 'type of skills' to 'key competences'.
- Add vulnerable groups to the disaggregation of the indicator on NEA caseworker support (USE.1) and delete disaggregation by 'type of support for employment' for the indicator on expenditure on incentives for enterprises to adopt employment support measures for parents (USE.5). The OECD did not delete the latter, as it was deemed critical to the value of the indicator.
- Revise or delete the following indicators due to the following concerns: it is unclear what kind of activity
  is measured through the indicator on expenditure on support services for emigrants/immigrants
  (USE.8), and NEA should be added to responsible entities; it is unclear how the indicators on registered
  unemployed persons receiving career counselling from the NEA (USE.3), difference in work hours
  between men and women (deleted by OECD) and employers who report implementing HPWP
  (USE.10) relate to the previous indicators in this objective and why they are relevant. The OECD has
  adapted and clarified the relevant indicators.
- Revise indicators USE.3, and USE.11. Address translation issues in the indicator on awareness raising
  of HPWP in enterprises. Delete NEA as the institution responsible for the indicators on unemployed
  persons registered with the NEA over the total number of out of work adults (USE.3) and on the share
  of employers reporting awareness of HPWP, as they do not have the relevant information. Add MES
  as the responsible institution for the indicator on unemployed persons participating in training. The
  indicator on the share of employers reporting awareness of HPWP was deleted, as well as the
  indicator on unemployed persons participating in training. The NEA remains one of the
  responsible parties for the USE.3 indicator as they are responsible for providing the number of
  persons registered with the NEA. However, they are not responsible for providing other data
  required for the indicator.
- Delete the indicator on raising awareness among enterprises on how to use skills more effectively, as MIG noted that activities to raise awareness and exchange good practices among enterprises regarding HPWPs are not included or envisaged under the ministry's current programmes, including the Programme Research, Innovation and Digitalisation for Smart Transformation (PRIDST) 2021-2027 and the Programme Competitiveness and Innovation in Enterprises (PCIE) 2021-2027. The OECD has decided to delete the indicator. Expenditure for awareness-raising activities under Policy Action 11.1: Promoting effective skills use and the adoption of high-performance workplace practices (HPWPs) in Bulgarian workplaces, including in SMEs, may be considered in Output 4 of the project, which focuses on an outline for a communication campaign to raise awareness of the national skills strategy for Bulgaria.
- Add an indicator on the number of employees in SMEs trained for skills in the field of Industry 4.0, which is currently being collected by the MIG under Priority 1: Innovation and Growth of PCIE 2021-2027. The OECD has added this indicator as USE.13.
- Indicate the NSI as the provider of data on the number of enterprises that have implemented an innovation (USE.14). The OECD has identified NSI as the source of data, and revised the indicator to include the number of enterprises (in addition to the share).

- Merge the indicators on the roadmap for return emigration and skilled immigration and for an online platform targeting Bulgarian workers abroad and potential skilled immigrants. The OECD has designated these as milestones rather than indicators.
- Remove disaggregation by firm size for EU funded projects, as this is not mandatory for all funded operations due to the high administrative burden. The OECD has also removed disaggregation by firm size for Indicator USE.11, as data on gross domestic expenditure on R&D is not disaggregated by firm size on Eurostat.

## *Milestones and indicators for priority area 4: Strengthening the governance of the skills system*

The milestones and indicators for strengthening the governance of the skills system aim to describe how effectively actors in Bulgaria can successfully implement policies to develop and use people's skills. They cover the inputs, uptake, and outcomes of activities that aim to develop a whole-of-government and stakeholder-inclusive approach to skills policies, build and better use evidence in skills development and use, and ensure well-targeted and sustainable financing of skills policies.

Seven milestones have been identified for the priority area on strengthening the governance of the skills system (Box 4.5). The five milestones to be achieved at the short-term involve various activities, including those that enhance the co-operation of authorities and stakeholders in Bulgaria in the implementation of skills policies. These include the creation of a Skills Policy Council and the creation of the Inter-institutional Data and Evidence Centre (DEC). While the latter was originally identified as an activity to be implemented over the medium term in Output 2, the OECD suggests this be revised and considered for implementation over the short-term, given the central role that the DEC plays in collecting, quality assuring, and analysing monitoring data for the Action Plan for Skills.

The two milestones to be achieved over the medium term involve strengthening Bulgaria's capacity to better use data for skills policymaking and promote a more stakeholder-inclusive approach to skills policies. These are through the development of a methodology for skills anticipation and the expansion of the remit of the CCVET. The achievements of these milestones would allow Bulgarian authorities to pursue related activities, such as establishing networks to improve data collection through the initiative of the DEC.

## Box 4.5. Milestones for strengthening the governance of the skills system

## Short term (<2 years)

- Milestone GOV.A: Create a Skills Policy Council for Bulgaria comprised of ministries, agencies, regional and municipal representatives, and social partners with a stake in skills policies. The council should convene regularly to oversee the skills system and ensure the achievement of Bulgaria's skills policy objectives, for example, by monitoring and reporting on skills policy implementation and outcomes. This should include oversight of existing skills bodies (e.g., NAVET) and those that are planned (e.g. sectoral skills councils). The Skills Policy Council should also oversee and publicly report on initiatives to improve stakeholder engagement, skills need information, policy evidence, resource allocation and cost sharing, and any other measures defined in Bulgaria's proposed action plan for skills (Activity 12.1.1.1).
- **Milestone GOV.B**: Create an **Inter-institutional Data and Evidence Centre** to integrate, undertake and/or commission primary and secondary data collection, analysis, and evaluation for skills policy. The data and evidence centre should be staffed with a small team that is supported with secondments from the ministries involved in skills policy and should be tasked with improving the quality, accessibility and use of data and evaluation evidence for all key stakeholders (Activity 13.2.1.1).

- Milestone GOV.C: Develop a tripartite agreement to define the division of responsibility for funding skills development. The agreement should clarify where and how government (at the national and municipal levels), employers and individuals should co-invest in education and training, in order to achieve Bulgaria's new targets for increased expenditure across the skills system. The agreement should also seek to articulate how stable funding will be ensured over time, even with the use of European project-based funding (Activity 14.2.1.1).
- **Milestone GOV.D:** Broaden the **membership of the CCVET** to include social partners, academic experts, education and training institutions, and agencies from across the whole skills system (Activity 12.2.1.1).
- Milestone GOV.E: Expand the membership of SSCs to include not only MES but several ministries with responsibilities for skills, representatives from the subnational level (e.g. dedicated members or committees representing particular geographical regions), and representatives of the social partners, sectoral and branch organisations and education and training providers (Activity 12.2.2.1).

### Medium term (2-4 years)

- **Milestone GOV.F**: Develop a **methodology for skills anticipation** that consolidates Bulgaria's SAA methods. This should include: defining which data and information key skills actors need from SAA initiatives; expanding existing quantitative tools to provide more sectoral, occupational, educational, demographic and regional insights; and developing qualitative insights from consultation with employers and potentially from foresight techniques (Activity 13.1.1).
- **Milestone GOV.G**: Expand the **remit of the CCVET** to cover tertiary education and adult learning in addition to VET, and to support and advise the new Skills Policy Council (Activity 12.2.1.2).

Note: All activity numbers refer to the Output 2 report. The reference numbers here and in Box 4.2, Box 4.3 and Box 4.4, as well as in Table 4.1, Table 4.2, Table 4.3 and Table 4.4, are formed based on the initials of the priority area to which the indicator belongs: YS for developing youth skills, AS for improving adult skills, USE for using skills effectively, and GOV for strengthening the governance of the skills system. In each priority area, these initials are followed by numbers to refer to indicators (e.g., Indicator GOV.1) and by letters to refer to milestones (e.g., Milestone GOV.A) in order to distinguish between the two.

Source: OECD (2023<sub>[30]</sub>), Guidance on the Implementation of a Whole-of-Government Action Plan for Skills in Bulgaria, www.oecd.org/skills/centre-for-skills/Guidance-on-the-implementation-of-a-whole-of-government-action-plan-for-skills-in-Bulgaria.pdf.

A total of nine indicators have been identified for the priority area on strengthening the governance of the skills system – three of which are inputs, one of which is an uptake indicator, and three of which are outcomes (Table 4.4). One of the indicators in this priority area comes from existing sources, such as data collected by the MES and stored in the information system for management and monitoring of EU funds in Bulgaria. While the rest of the indicators are new, most of them are feasible, as they may be directly collected from programme data (e.g., expenditure in Indicators GOV.1 and GOV.5, number of skills policy-related bilateral activities in GOV.2).

Indic	cator name and reference number	Indicator type	Disaggregation	Data considerations	Output 2 activities linked to the indicator	Baseline value
		-	eloping a whole-of-government and stakeh		es	
		Poli	cy Action 12.1: Developing a whole-of-governr	nent approach to skills policies		
GOV.1	Expenditure on activities to promote a whole-of-government approach to collaboration on skills policies	Input	<ul> <li>By type of activity: monitoring and reporting activities for skills policy implementation; oversight of existing skills bodies; organisation of bilateral meetings, workshops, etc. <sup>24</sup></li> <li>By source of funding</li> </ul>	New semi-feasible indicator Source: SPC Collector: DEC Frequency: Annual Metadata: To be developed	Activity 12.1.1: Improve whole-of- government leadership, oversight and co-ordination of the skills system Activity 12.1.2: Identify and strengthen the most important bilateral inter-ministerial relationships for skills policies	N/A
GOV.2	Number of meetings of the Skills Policy Council or its sub- committees/working groups	Uptake	By meeting type	New feasible indicator Source: SPC Collector: DEC Frequency: Annual Metadata: To be developed	Activity 12.1.1	N/A
GOV.3	Number of skills policy-related bilateral activities between ministries with skills policy mandates	Outcome	By type of activity: organisation of bilateral meetings, joint working groups, joint projects, funding initiatives	New feasible indicator Source: SPC Collector: DEC Frequency: Annual Metadata: To be developed	Activity 12.1.2	N/A
	Pol	icy Action 12.2: En	gaging stakeholders effectively for skills policy	making at the national, sectoral and local	levels	
GOV.4	Number of active Sectoral Skills Councils (SSCs)	Uptake	<ul> <li>By sector</li> <li>By membership: ministries, subnational representatives, social partners, sectoral and branch organisations, education and training providers</li> <li>By types of issues covered: labour market relevance of tertiary</li> </ul>	Existing semi-feasible indicator Source: MES (Information system for management and monitoring of EU funds in Bulgaria) Collector: DEC Frequency: Annual Metadata: TBD	Activity 12.2.2: Improve the effectiveness of planned sectoral skills councils (SSCs)	N/A

## Table 4.4. Indicators for priority area 4: Strengthening the governance of the skills system

<sup>&</sup>lt;sup>24</sup> As stakeholders have expressed the importance of financing specifically earmarked for the monitoring and reporting framework, this expenditure may also be included in the disaggregation of this indicator.

				1		6
Indic	ator name and reference number	Indicator type	Disaggregation	Data considerations	Output 2 activities linked to the indicator	Baseline value
			education and AET, articulation of broader sectoral and local skills needs			
GOV.5	Number and share <sup>25</sup> of stakeholders who participate in skills policy planning and implementation activities	Uptake	<ul> <li>By sector</li> <li>By type of stakeholder</li> <li>By region</li> </ul>	New semi-feasible indicator Source: SPC Collector: DEC Frequency: Annual Metadata: To be developed	Activity 12.2.1: Strengthen and extend the mandate of the Consultative Council for Vocational Education and Training (CCVET) Activities 12.1.1 and 12.2.2	N/A
		Objecti	ve 13: Building and better utilising evidend	ce in skills development and use		
			olicy Action 13.1: Improving the quality and us Improving the quality and use of performance		policy	
GOV.6	Expenditure on improvement of skills assessment and anticipation (SAA) <sup>26</sup> activities and skills policymaking at the national, sectoral and local levels	Input	<ul> <li>By type of activity: membership expansion activities, organisation of meetings, articulation of sectoral and local skills needs</li> <li>By source of funding</li> </ul>	New semi-feasible indicator Source: SPC Collector: DEC Frequency: Annual Metadata: To be developed	Activity 13.1.1: Develop a more comprehensive and consolidated skills assessment and anticipation (SAA) approach for use by all key actors in the skills system	N/A
GOV.7	Number of entities/actors covered by SAA initiatives	Outcome	<ul> <li>By sector</li> <li>By occupation</li> <li>By educational characteristics</li> <li>By demographic characteristics</li> <li>By municipality/region</li> </ul>	New semi-feasible indicator Source: DEC Collector: DEC Frequency: Annual Metadata: To be developed	Activity 13.1.1	N/A
		Object	tive 14: Ensuring well-targeted and sustain	able financing of skills policies		
		Policy /	Action 14.1: Increasing and reallocating spend	ling on skills development and use		
GOV.8	Number and share of skills policies evaluations analysing returns on investment	Input	<ul><li>By ministry or agency</li><li>By area of skills policies</li></ul>	New feasible indicator Source: DEC Collector: DEC Frequency: Annual Metadata: To be developed	Activity 14.1.2: Evaluate existing spending across the skills system with the aim of reallocating resources to the activities offering the greatest returns	N/A

<sup>&</sup>lt;sup>25</sup> The share of stakeholders may refer to the total number of sectors, stakeholder types and regions targeted as participants or beneficiaries in the Action Plan for Skills.

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<sup>&</sup>lt;sup>26</sup> Skills assessment and anticipation (SAA) activities are tools to generate information about the current and future skills needs of the labour market, as well as the available supply of skills in the country. They are used to inform policymaking in various sectors, including employment, education and training, and migration. SAA information may also be used by enterprises to promote certain skills among their workers and inform collective bargaining processes, or by individuals to make informed educational or career choices (OECD, 2018).

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Ir	dicator name and reference number	Indicator type	Disaggregation	Data considerations	Output 2 activities linked to the indicator	Baseline value
GOV	General government expenditure on education and training (total, % of GDP)	Outcome	<ul> <li>By level of education</li> <li>By type of funding source</li> </ul>	Existing feasible indicator Source: Education expenditures ( <u>NSI</u> , <u>Eurostat</u> ) Collector: DEC Frequency: Annual Metadata: Available	Activity 14.1.1: Set targets for increasing expenditure on skills development Activity 14.1.2	4.3% (2021)

Note: The reference numbers here and in Table 4.1, Table 4.2 and Table 4.3, as well as in Box 4.2, Box 4.3, Box 4.4 and Box 4.5, are formed based on the initials of the priority area to which the indicator belongs: YS for developing youth skills, AS for improving adult skills, USE for using skills effectively, and GOV for strengthening the governance of the skills system. In each priority area, these initials are followed by numbers to refer to indicators (e.g., Indicator GOV.1) and by letters to refer to milestones (e.g., Milestone GOV.A) in order to distinguish between the two.

## Stakeholder feedback on milestones and indicators for strengthening the governance of the skills system

For indicators related to strengthening the governance of the skills system, stakeholders identified the necessity for simplification and enhanced relevance of the proposed indicators. They suggested merging similar indicators for streamlined efficiency and proposed the deletion or refinement of others to ensure alignment with policy goals. Unless otherwise indicated, the stakeholder suggestions have been incorporated into Table 4.4.

Specific stakeholder feedback included:

- Merge the indicators on expenditure on engaging stakeholders in skills policymaking and skills needs assessment, and merge the indicators on Sectoral Skills Councils and involving stakeholders in skills needs assessments. The first two have been merged in Indicator GOV.1, the latter was simplified in Indicator GOV.3.
- Indicators on creating an Inter-institutional Data and Evidence Centre (DEC), creating a regularly convened Skills Policy Council and establishing bilateral activities between ministries should all be milestones/pre-conditions rather than indicators.
- Highlight the role of NSI and MES for the indicator on expenditure on DEC activities. This has been deleted or incorporated into the milestone on establishing the DEC.
- Connect the indicator on users of skills assessment information to relevant skills activities. This has been done for all indicators by adding a column that cross-references specific skills activities from Output 2.
- Define the indicator on a tripartite agreement for skills development funding more precisely. Specify
  the parties, objectives and financial incentives of/for the agreement. This has been done in the
  milestone section, as this indicator was changed to a milestone.
- Redefine or delete the indicator on stakeholders perceiving quality of whole-of-government collaboration on skills policy as high and the indicator on non-governmental stakeholders attending meetings of national bodies for skills policy as this is unclear in its definition and scope, and its relevance is questionable. The latter was adapted into the broader GOV.5 indicator.
- Delete or move the indicator on government expenditure on education and training (GOV.9). Include the indicator in the contextual analysis of the strategy. The OECD kept this indicator as it was deemed the most useful outcome indicator for the relevant policy action.

# **5** Methodology for the monitoring and reporting framework

## Principles for establishing a monitoring and reporting framework

Monitoring and reporting are key steps in the policy cycle (Figure 2.2), as they provide real-time, accurate, and reliable information about the progress of implementation and the uptake of policy measures among target groups. Moreover, developing a monitoring and reporting framework can improve policy outcomes and public trust by enhancing accountability for the use of public funds, improving understanding of the link between public interventions and their results, and facilitating policy learning over time to make future policies more efficient and effective (OECD, 2023<sup>[4]</sup>).

However, despite the importance of monitoring and reporting, many countries may face a number of challenges when it comes to establishing an effective framework. These include, among others, limited technical capacity, low quality of available data, the lack of an integrated evidence management system, challenges with whole-of-government cooperation, and ineffective use of reporting findings (OECD, 2020<sub>[29]</sub>). In Bulgaria, there is currently no established framework for strategic planning that lays out clear standards, rules and procedures for the preparation, monitoring and reporting of strategic documents. To overcome this challenge, the OECD has proposed a list of six principles and refined it with stakeholders, which could guide Bulgarian authorities in establishing an effective monitoring and reporting framework for the Action Plan for Skills. These principles include the following:

## 1. Employing a systematic approach for monitoring policy inputs, uptake, outcomes, and impact

To ensure that resources are used responsibly, implemented activities align with policy plans, and targeted beneficiaries are reached, a structured and streamlined monitoring and reporting framework needs to be established. The framework must be established based on indicators that capture the degree to which interventions are on track to or have resulted in desired outcomes and impact at every stage of the policy cycle (e.g. design and funding of intervention, uptake of intervention, etc.). The monitoring and reporting framework must capture the different indicator levels of the results chain (i.e. inputs, uptake, outcomes, impact), with each one having well-defined targets that would allow for a systematic and transparent approach to measuring progress. The framework also needs to determine data collection responsibilities, sources and timelines that are coherent with the policy being implemented (ILO, 2018[31]).

The current Output 3 report aims to implement this principle in practice in Bulgaria by outlining a plan for establishing the monitoring and reporting system of the Action Plan for Skills. The report, which was developed in partnership with relevant authorities and social partners in Bulgaria, aims to provide guidance on how to regularly and systematically collect high-quality data on key skills indicators, in order to help policymakers ensure the effective implementation of the Action Plan.

## 2. Enhancing the quality and comprehensive collection of useful indicators for assessing impact

It is crucial to ensure that indicators in the monitoring and reporting framework are comprehensive and of high quality, as they serve as measurable and tangible signs of progress or achievement (Shapiro, 2003<sub>[32]</sub>). While there are no strict rules in selecting indicators, it is commonly advised to select those – or develop new ones – that are specific, measurable, attributable, relevant and timebound. Identifying indicators early in the establishment of the monitoring and reporting framework can allow policymakers to identify a variety of data sources that may yield the highest quality data, which is key to measuring the impact of the policy (ILO, 2018<sub>[31]</sub>; OECD, 2020<sub>[29]</sub>).

Stakeholders expressed concerns regarding quality assurance of the data used for indicators for monitoring progress on skills policy in Bulgaria. They highlighted that many of the indicators that were initially proposed rely on secondary data sources for which accuracy is challenging to verify. While countries across the OECD have adopted various mechanisms to promote data quality, such as a policy or legal framework, guidelines for policy evaluation across government, competence requirements for evaluators, peer reviews (internal/external) of evaluations, and systematic and meta-evaluations, none of these mechanisms currently exist in Bulgaria (OECD, 2020<sub>[29]</sub>).

To overcome these barriers, stakeholders recommended incorporating primary data sources instead, where possible. Such primary sources have been identified in the "Data considerations" column of the indicators listed in Table 4.1, Table 4.2, Table 4.3 and Table 4.4 in Chapter 4, including primary sources that come directly from programme data and information reported by partners to monitor the Action Plan for Skills. However, one possible constraint in the use of primary data sources is the lack of capacity among policy implementers and partners to report data in a complete and accurate manner, as illustrated in the case of Latvia. Some OECD countries have implemented several initiatives to overcome such technical constraints, including interactive forums (e.g., roundtables, policy dialogues) that bring together policymakers and researchers to exchange knowledge on how to collect and review evidence (OECD, 2020<sub>[33]</sub>).

In addition to primary data sources, stakeholders also noted that using internationally recognised data sources, such as PISA and TALIS, and interlinking various data registers could help to ensure higher quality of the data used for indicators. Further suggestions included building in a stage of quality assurance of the data into the larger monitoring and reporting framework and enhancing the quality and reliability of educational data in particular by developing a national framework for monitoring and evaluating educational quality in Bulgaria.

In addition to incorporating primary data sources in the framework, Bulgaria may also build on existing indicators from internationally acknowledged data sources, such as OECD surveys or Eurostat databases, as these are credibly, verified, and guided by rigorous data collection methodologies. In Bulgaria, the main agency responsible for coordinating data collection and validation for these international surveys is the National Statistical Institute, which has a record of producing timely and high-quality data. However, several other ministries and regional actors that are involved in the monitoring of the Action Plan for Skills have raised issues regarding the lack of technical capacity to quality-assure and analyse data by themselves. This suggests that additional capacity building activities (including during Output 5 of this project, see Figure 2.1) and guidance will be needed to ensure that monitoring and reporting activities are implemented effectively.

## 3. Establishing regular and realistic monitoring and reporting requirements

When allocating responsibilities and identifying the methodology for data collection, the monitoring and reporting framework should consider the resources available across ministries and different levels of government. It is crucial to design the monitoring and reporting framework in line with existing policy

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frameworks that provide principles and strategic direction for monitoring and evaluation. For instance, this may include identifying and working with data that is already being regularly collected, aligning new data collection responsibilities with those that already exist across government, and making use of existing management information systems when possible (OECD, 2020<sub>[29]</sub>).

The monitoring and reporting framework also needs to determine coherent methods for data collection and the flow of data through the monitoring and reporting process (ILO,  $2018_{[31]}$ ). For instance, in practice, this means that responsibilities for collecting data on indicators should consider the institutions or ministries responsible for implementing the activities outlined in the policy, as well as the frequency or rate at which they are expected to implement these activities. Allocating responsibilities in this manner could help ensure that monitoring and reporting data are regularly updated as activities are implemented by ministries and agencies that know best how these activities are unfolding on the ground. In keeping with these principles, proposals for the frequency with which indicator data should be collected is included in the data considerations column in the tables presented in Chapter 4.

In addition to regular data collection for indicators, the OECD recommends that three more comprehensive evaluation reports on the implementation of the Skills Action Plan be conducted at the end of each implementation time period proposed in Output 2 and reflected in the discussion of milestones in Chapter 4: a report on implementation progress two years after the adoption of the Skills Action Plan (short-term), after four years (medium-term), and after 6 years (long-term).

## 4. Developing a governance framework for the flow of data and information within the monitoring and reporting framework

To ensure that data is collected on time and that the data collected meets standards, it is crucial to have a governance framework when monitoring and reporting on policies. The governance framework encompasses multiple aspects, including fostering the participation of relevant institutions and stakeholders, promoting the efficiency of the flow of data or information, and ensuring adequate financing for the system.

As stakeholders noted, coordination mechanisms must be clear, with specific responsibilities for data collection, validation, analysis and dissemination assigned early on, in order to avoid the duplication of functions across various ministries and agencies. As the implementation of skills policies involves a wide variety of actors and spans multiple levels of government, ensuring the quality of data and compliance with monitoring and reporting requirements becomes more challenging. Stakeholders emphasised the need for a governance structure that creates a sustainable and self-regulating monitoring and reporting system that can continue operating through political and contextual changes, such as in Norway (Box 5.1). There was strong support for establishing centralised entities to facilitate and oversee the monitoring and reporting system, including the proposed Skills Policy Council (SPC) and Inter-institutional Data and Evidence Centre (DEC) described in Output 2. Stakeholders elaborated that dedicated monitoring and evaluation units could also be established or enhanced within certain ministries to improve effective monitoring, reporting and evaluation practices.

The flow of data must consider the mechanisms by which information will be collected from the source and submitted to the management information system (MIS) where it will eventually be stored. Stakeholders have pointed out that there is currently no centralised database that would be able to house all the indicators for the Action Plan for Skills, and suggested that resources be allocated into setting up an MIS specifically for this purpose. Alternatively, Bulgaria may also invest resources into expanding the current scope of the Registry Information Exchange System (RegiX) in order to transform it into a centralised MIS that could also store the monitoring data for the Action Plan (State e-Government Agency, n.d.<sub>[34]</sub>). In both cases, the MIS should be inter-operable with other existing databases, including the country's educational MIS (EMIS), in order to ensure the efficient exchange of data when necessary. This process of synchronisation may be overseen by various bodies, such as the NSI, the Ministry of Electronic

Governance, the Ministry of Finance (Central Coordination Unit), or the Managing Authority for National and European Programmes.

In general, the stakeholders discussed that a key component of establishing an effective monitoring and reporting system is adequately resourcing (both in terms of human and financial capacity) the system itself in addition to resources for carrying out the activities that are being monitored. Such resources should be able to cover various types of expenses, such as staff and expert fees (i.e., data collection and analysis), logistics, office equipment, and operating expenses to maintain adequate digital infrastructure to house the monitoring data. Usually, M&E costs may constitute between 3% to 10% of the overall programme's budget (Sedrakian, 2016<sub>[35]</sub>). In particular, stakeholders noted that greater human and financial resources are needed to improve the capacity for monitoring and evaluation within the MES, where a lot of the data relevant to Bulgaria's skills system is collected and/or stored.

## Box 5.1. Strategic Skills Policy and Dynamic Monitoring: Lessons from Norway

Norway's Skills Strategy, launched in 2017, addresses the evolving needs of its labour market in response to technological, demographic, and global changes. The strategy, developed collaboratively by the government, social partners, and various stakeholders, focuses on lifelong learning for adults, emphasizing their crucial role in the nation's welfare and competitiveness.

Central to the success of this strategy are two key governance arrangements: the Skills Policy Council and the Future Skills Needs Committee, both of which play a critical role in the monitoring and evaluation of the strategy's implementation.

The Skills Policy Council is responsible for coordinating the fragmented field of skills policy and comprises representatives from government, education, and labour sectors. Its primary role is to oversee the strategy's implementation, including monitoring its progress and effectiveness. The Council also fosters stakeholder cooperation, and if necessary, revises skills policy implementation based on the outcomes of its ongoing evaluation. The transition of the Council from a temporary to a permanent high-level group has significantly bolstered the continuity and consistency in skills policy implementation, monitoring and reporting, ensuring that the strategy remains relevant and effective even beyond its stated time frame.

The independent Future Skills Needs Committee, with members from social partners, researchers, and county councils plays a crucial role in continually assessing Norway's future skills needs. This dynamic evaluation process enables the Committee to inform strategic decision-making more effectively, ensuring the prioritisation of skills policy implementation is responsive to evolving demands. The Committee's reports on a variety of topics, including skills for the green transition and the impact of new technologies, are instrumental in guiding skills policy priorities.

The impact of the Skills Policy Council is particularly evident in the development of the tripartite Sector programmes for training, which target skills gaps in specific industries based on the Council's recommendations. These programmes, while ultimately approved by the government, are shaped by the Council's ongoing assessment of the strategy's effectiveness and the Future Skill Needs Committee's future-oriented insights. Thus, Norway's system for prioritisation, implementation, monitoring and evaluation of skills policy implementation remains robust across time and changes in government.

Note: These insights were shared as part of an expert presentation from Norway during the Output 3 stakeholder consultation workshop.

## 5. Ensuring the credibility and wide dissemination of evaluation findings

Evaluation is closely related to – but distinct – from the monitoring process. While monitoring refers to the ongoing activity of systematically collecting evidence and data as inputs for analysis, evaluations are the periodic outputs that synthesise such analysis and use them to draw conclusions. As such, evaluations are intended to provide structured and objective assessments of the policy, helping determine if policy objectives have been effectively achieved (OECD, 2019[36]). While evaluations are outside of the scope of Output 3, monitoring and reporting lay the foundations for the conduct of evaluation studies, highlighting the need to collect timely and high-quality data throughout the implementation of the Action Plan for Skills.

The dissemination of evaluation results is a key step in the M&E phase, as it helps build support among stakeholders for the incorporation of findings in future programming or policymaking. This may be done by developing knowledge products, such as reviews, annual evaluation reports, or think pieces, among many others. Messages to communicate to stakeholders may include key evaluation findings and policy recommendations, good and innovative practices, and the relevance of the findings to the ministry or organisation's work. These knowledge products may be targeted to different kinds of stakeholders by taking into account their information needs, their thematic expertise, and their roles in the implementation of the policy (ILO, 2020<sub>[37]</sub>).

Across the OECD, many countries develop such knowledge products that evaluate the performance of their skills systems against national goals and make these publicly available, but such initiatives in Bulgaria are limited. This may be due to challenges in data management issues, or in cases where reports are written, they are not accessible by the public or other agencies (Guthrie et al., 2022<sub>[38]</sub>). At present, Bulgaria also does not have a body responsible for research and evaluation across the skills system, an issue which the establishment of the Inter-institutional Data and Evidence Centre (DEC) will help address.

Bulgaria would thus benefit from ensuring that the work of the DEC is disseminated in various formats to relevant stakeholders not only to raise awareness for the Action Plan for Skills, but to continually strengthen buy-in for its more effective and efficient implementation. Throughout the consultations, stakeholders also highlighted the need to effectively disseminate the evaluation findings generated by the new monitoring and reporting system to relevant stakeholders in Bulgaria's skills system, including at the regional and local levels. To address this, a dissemination strategy should be integrated into the monitoring and reporting framework from the outset, ensuring that widely and effectively sharing evaluation results is considered an integral part of the monitoring and reporting process. Additionally, stakeholders pointed out that an effective system for quality evaluation combines internal quality assessments with external audits or evaluations, which would involve partnering with researchers and NGOs.

## 6. Systematically utilising evaluation findings to inform the design of future policy

It is essential to systematically utilise evaluation findings to shape future policies. In the policy development phase, previous evaluations should be actively consulted and integrated. This approach ensures that new policies are informed by empirical evidence and past experiences. It also involves establishing regulations and standards that mandate the use of evaluation findings in policy design, enhancing the effectiveness and relevance of new policies. Utilising the results from evaluation activities promotes evidence-based decision-making and continuous improvement in governance practices (OECD, 2020[29]).

However, in Bulgaria, there is currently no legal requirement to provide evidence in policymaking, nor any institutionalised arrangements for exchanging information between evidence producers and policymakers (European Commission, 2017<sub>[39]</sub>). Bulgaria also ranks below the OECD average in terms of applying impact assessments and ensuring the quality of such assessments (OECD, 2023<sub>[5]</sub>). The country could therefore benefit from establishing a legislative framework for evidence-based policymaking over the longer term in order to systematically incorporate evaluation findings in future policies. However, in the more immediate future, Bulgaria can continue strengthening its efforts to include representatives from civil

society (e.g., scientific groups, academic institutions, NGOs) as working groups in the development of policies (European Commission, 2017[39]).

## A monitoring and reporting framework by priority area

In addition to the list of milestones and indicators specific to each priority area, this report also presents a monitoring and reporting framework for each priority area, describing the flow of information, processes and responsibilities for monitoring and reporting on the implementation of Bulgaria's Action Plan for Skills in that area. As with the indicators presented in Chapter 4, the methodology was refined in consultation with authorities and stakeholders and is in line with current monitoring practices in Bulgaria. In most cases, the ministries, agencies, and other actors responsible for collecting data from the primary source are those also identified as the leads or partners assigned to implement the activities in the Action Plan for Skills, as detailed in the Output 2 report.

Across all priority areas, the Inter-institutional Data and Evidence Centre (DEC) is identified as being responsible for storing and centralising the data in its management information system, as well as quality assuring, analysing, and transforming the data into useful, actionable information that could be fed back into the policy cycle (Figure 2.2). Data quality assurance and the use of evidence in policymaking are two elements that stakeholders in Bulgaria identified as a priority, as these are two elements of skills policies that currently need to be reinforced in the country.

The DEC is then tasked with submitting its analytical findings and policy implications to the Skills Policy Council, which is responsible for disseminating these findings to the main authorities and stakeholders in Bulgaria's skills system. The findings could be used to adjust and refine the implementation of activities in the Action Plan for Skills to make them more effective and efficient, as well as to promote evidence-based policymaking and thus better inform future skills-related policies in Bulgaria.

## Developing youth skills

The flow of data and information for tracking progress on the implementation of skills policy actions related to developing the skills of youth is presented in Figure 5.1. Because so much of the data being collected for this priority area is collected and overseen by various directorates within MES, stakeholders proposed strengthening the capacity of the Strategic Development and Information Policy Directorate (SDIPD) within MES to give this directorate a more active role in consolidating the relevant data to be sent to the Interinstitutional Data and Evidence Centre (DEC) for aggregation with other data in the unified management information system, quality assurance and analysis. While MES is the main collector of data, the data sources for some of the indicators come from municipalities or REDs, which are responsible for data on the ECEC institutions and schools in their jurisdiction, and from higher education institutions. A few other key indicators can be collected directly by DEC from NSI and from external OECD and Eurostat databases (e.g., PISA, Labour Force Survey).

The milestones in the priority area for developing youth skills primarily need to be initiated by the MES, and more particularly by the Preschool and School Education Content Directorate and the Higher Education Directorate. Implementing these milestones should then enhance the ability of the municipalities, REDs and higher education institutions to provide high-quality indicator data back to MES to be fed into DEC.

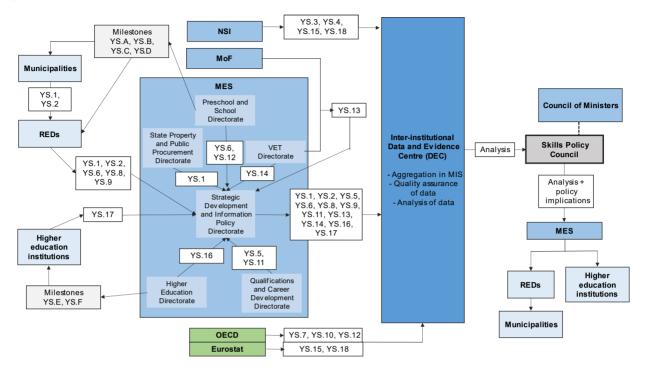


Figure 5.1. Governance of data and information collection for indicators related to developing youth skills

Once the DEC has analysed the relevant data and transmitted this data to the Skills Policy Council for further analysis and to draw policy implications, the evaluation results should be disseminated among key authorities and stakeholders involved in developing the skills of youth. Given that MES is clearly the ministry most responsible for developing the skills of youth, MES is a fitting entity to disseminate the conclusions of the SPC to other relevant stakeholders, including regional and local officials (e.g., REDs, municipalities) and directly to education providers such as higher education institutions. Furthermore, the evaluation results should be used by the various directorates in MES to inform future skills policy making by providing an evidence base on which future skills policy is developed.

## Improving adult skills

The governance of data and information as it relates to improving adult skills is presented in Figure 5.2. Many of the indicators for this priority areas come from relevant government ministries and agencies. As adult education and training (AET) overlaps with the mandate of multiple ministries and agencies, the responsibility for collecting information on implementation of skills activities related to adults is spread across MES, NAVET, MLSP and NEA. The ministry or agency tasked with collecting information also relates to whether the indicator being tracked relates to individual adults, enterprises, and/or AET providers. Because many of the indicators are sourced from multiple ministries/agencies, the OECD suggests that the DEC collect the data from each ministry/agency and aggregate these data from multiple sources within the DEC itself. As with the previous priority area, the DEC will also collect some data directly from NSI and from external Eurostat sources.

The milestones identified for the priority area on improving the skills of adults all relate to better equipping AET providers to provide relevant and quality training and services to adults in Bulgaria. Some of these milestones should be initiated by NAVET and others by MLSP.

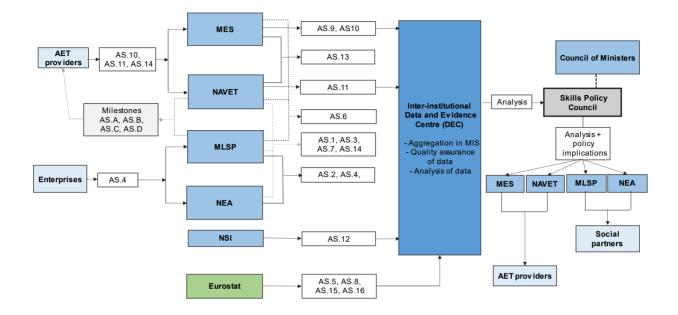


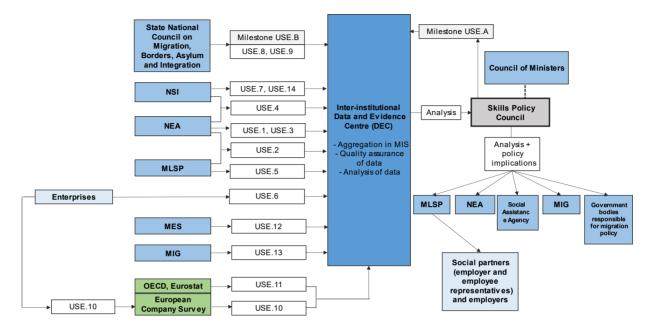
Figure 5.2. Governance of data and information collection for indicators related to improving adult skills

Following the DEC's work of consolidating, quality assuring, and analysing the data, results should be submitted to the Skills Policy Council to complete the evaluation of implementation progress, including implications for further skills policy. The evaluation results should then be disseminated to all involved ministries. The ministries in turn should be responsible for conveying the data and evaluation results to key non-governmental partners such as the social partners and AET providers.

## Using skills effectively

The methodology and flow of data for the priority area on using skills effectively is presented in Figure 5.3. Multiple ministries and agencies are responsible for collecting data for the milestones and indicators, and in many cases, are also the primary sources of data as this information would come from programme data related to the activities in the Action Plan for Skills. Enterprises are also the sources of information for Indicator USE.6, which will be collected directly from the enterprises by the DEC, either through self-reporting (e.g., into a platform) by enterprises or a survey to be distributed. The DEC may coordinate with the MLSP to communicate with the enterprises must respond), as well as in ensuring data quality (e.g., communication with enterprises that provide low-quality answers).

Figure 5.3. Governance of data and information collection for milestones and indicators related to using skills effectively



Once the data has been submitted to and analysed by the DEC, the Skills Policy Council is responsible for disseminating these findings and policy implications to actors significantly involved in skills use in Bulgaria, such as the MLSP, the NEA, the Social Assistance Agency, the MIG, and other government bodies responsible for emigration and immigration policy (e.g., Ministry of Interior; State National Council on Migration, Borders, Asylum and Integration; Council for Working with Bulgarians Abroad), as well as social partners (e.g., employer and employee representatives, employers) (OECD, 2023<sub>[5]</sub>). Based on these policy findings vis-à-vis set targets, the MLSP may make decisions to adjust the implementation of the Action Plan for Skills, including expenditure on active labour market policies such as training programmes for adults (see Activities 9.1.1 and 9.1.3), as well as on other initiatives that aim to promote the full employment and use of skills of individuals in Bulgaria, including those from vulnerable groups (MLSP, 2021<sub>[40]</sub>). While the Social Assistance Agency is not directly involved in monitoring and reporting, the findings may affect its activities, especially at the local level and including the provision of provision of support and benefits to disadvantaged groups identified in the Action Plan for Skills (OECD, 2023<sub>[5]</sub>).

## Strengthening the governance of the skills system

The methodology and flow of data for the priority area on strengthening the governance of the skills system is presented in Figure 5.4. The Skills Policy Council, the main body tasked to co-ordinate the implementation the Action Plan for Skills, and the MES are responsible for monitoring and reporting on three milestones each. The DEC is also tasked to report on its own activities, such as through Indicators GOV.7 and GOV.8. Two ministries have been given data collection responsibilities, namely MES, which is tasked to submit data on the number of active Sectoral Skills Councils (SSC) as it simultaneously collects this data for the Information system for management and monitoring of EU funds in Bulgaria, as well as the NSI, which regularly collects information on government expenditure on education and training for Eurostat purposes.

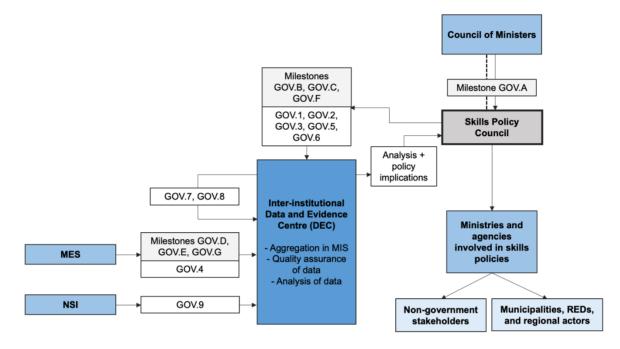


Figure 5.4. Governance of data and information collection for indicators related to strengthening the governance of the skills system

Once this data has been submitted to and analysed by the DEC, the Skills Policy Council is responsible for disseminating these findings and policy implications to actors involved in skills governance in Bulgaria. This includes ministries and agencies at the national level, actors at the regional level (e.g., municipalities, REDs), and non-government stakeholders (e.g., social partners, educational and training providers).

## **6** Summary and next steps

## Summary

Under the Technical support for the development of a National Skills Strategy for the Republic of Bulgaria" project (TSI project), the OECD has developed the current report, which presents a framework for monitoring and reporting on Bulgaria's Action Plan for Skills, with corresponding milestones and indicators. The current framework covers specific activities listed in the Action Plan and was refined through extensive consultations with relevant government stakeholders and social partners in Bulgaria.

The framework and its indicators are informed by existing regulations both within the Bulgarian national context and at the EU level, as the main potential funding sources for skills policy activities are the State budget and EU programme budgets (or more specific budgets within these). Alignment between the monitoring and reporting framework of the Action Plan for Skills with indicators already being collected for EU programmes or national strategies could also ease the administrative burden for Bulgarian authorities when conducting monitoring and reporting activities.

The development of the monitoring and reporting framework was guided by several principles, namely: (1) the employment of a systematic approach for monitoring policy inputs, uptake, outcomes, and impact; (2) the enhancement of the quality and comprehensive collection of useful indicators for assessing impact; (3) the establishment of regular and realistic monitoring and reporting requirements; (4) the development of a governance framework for the flow of data and information within the monitoring and reporting framework; (5) the assurance of credibility and wide dissemination of evaluation findings; and (6) the systematic use of evaluation findings to inform the design of future policy.

The monitoring and reporting framework includes milestones and indicators (i.e., input, uptake and outcome) for each of the priority areas in the Action Plan for Skills. There are six milestones and 18 indicators in Priority area 1: Developing youth skills; four milestones and 16 indicators in Priority area 2: Improving adult skills; two milestones and 15 indicators in Priority area 3: Using skills effectively; and seven milestones and nine indicators in Priority area 4: Strengthening the governance of the skills systems. A methodology to monitor each milestone and indicator has also been included, describing the flow of data as well as the processes and responsibilities for collecting, quality assuring, and analysing data, as well as disseminating the results of the analysis and its policy implications to relevant stakeholders within and beyond government.

In addition to these, the OECD has also provided principles for establishing targets for indicators in order to ensure that Bulgaria chooses targets that are: (1) ambitious but feasible; (2) developed in partnership with stakeholders; (3) informed by research and previous indicator history; (4) consistent with other indicators: and (5) consistent with the nature of the intervention.

## **Next steps**

Preceding Outputs 1 and 2 of the project covered the agenda setting and policy formulation phases of the policy cycle, while the current Output 3 contributes to the monitoring and reporting phase. The results of

monitoring and reporting activities may be used to conduct policy evaluations, the outcomes of which may be subsequently used for agenda setting and designing future evidence-based skills policies in Bulgaria.

Following Output 3, the remaining outputs of the project to facilitate the effective implementation of the Action Plan for Skills include:

- **Output 4:** Outline for a communication campaign to raise awareness of the national skills strategy for Bulgaria
- **Output 5:** Follow-up report and capacity building workshop for implementation
- **Output 6:** Public closure event and communication outputs at the conclusion of the project.

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