Moldova National Data Ecosystem Case Study: Context & Approach

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CONTEXT:
DATA IS ESSENTIAL FOR DIGITAL TRANSFORMATION

In today's world, data has become an essential resource for a nation's digital development. The World Bank Development Report 2021 "Data for Better Lives" (WDR) points to many studies that show that digital transformation based on effective data management can have an impact on economic growth, new jobs creation and social inclusion.

INTRODUCTION: DATA ECOSYSTEMS DEVELOPMENT PROGRAM

The Global Program strives to:

Implement a strategic approach to mainstreaming and operationalization of data ecosystems globally

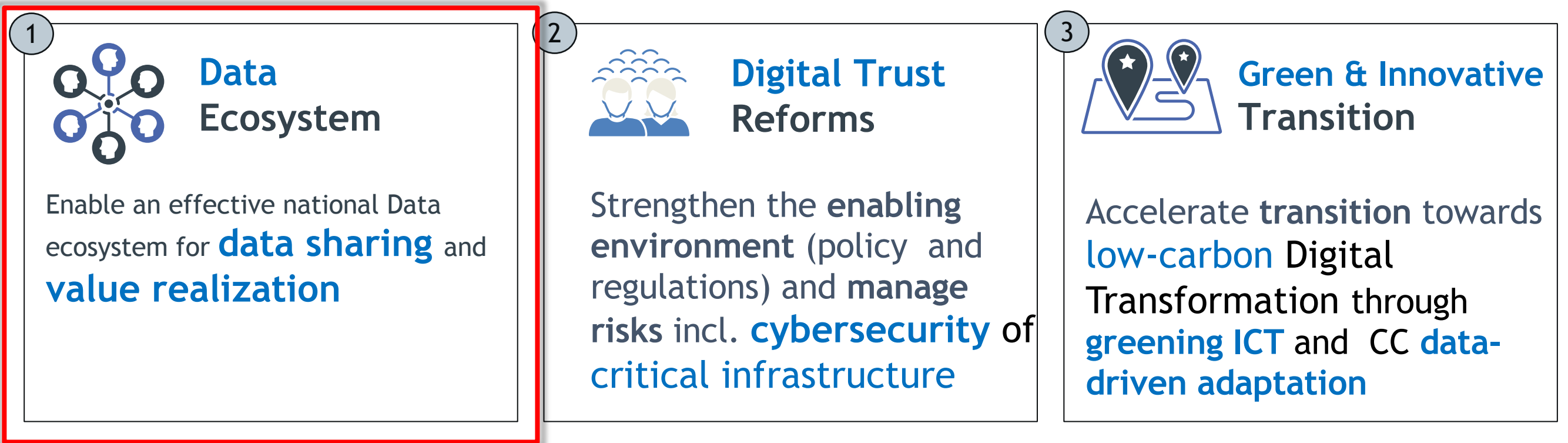Adopt a diagnostic framework at a national level and a city-level

Build knowledge-sharing and partnership programs (in cooperation with Data Ecosystems CoP)
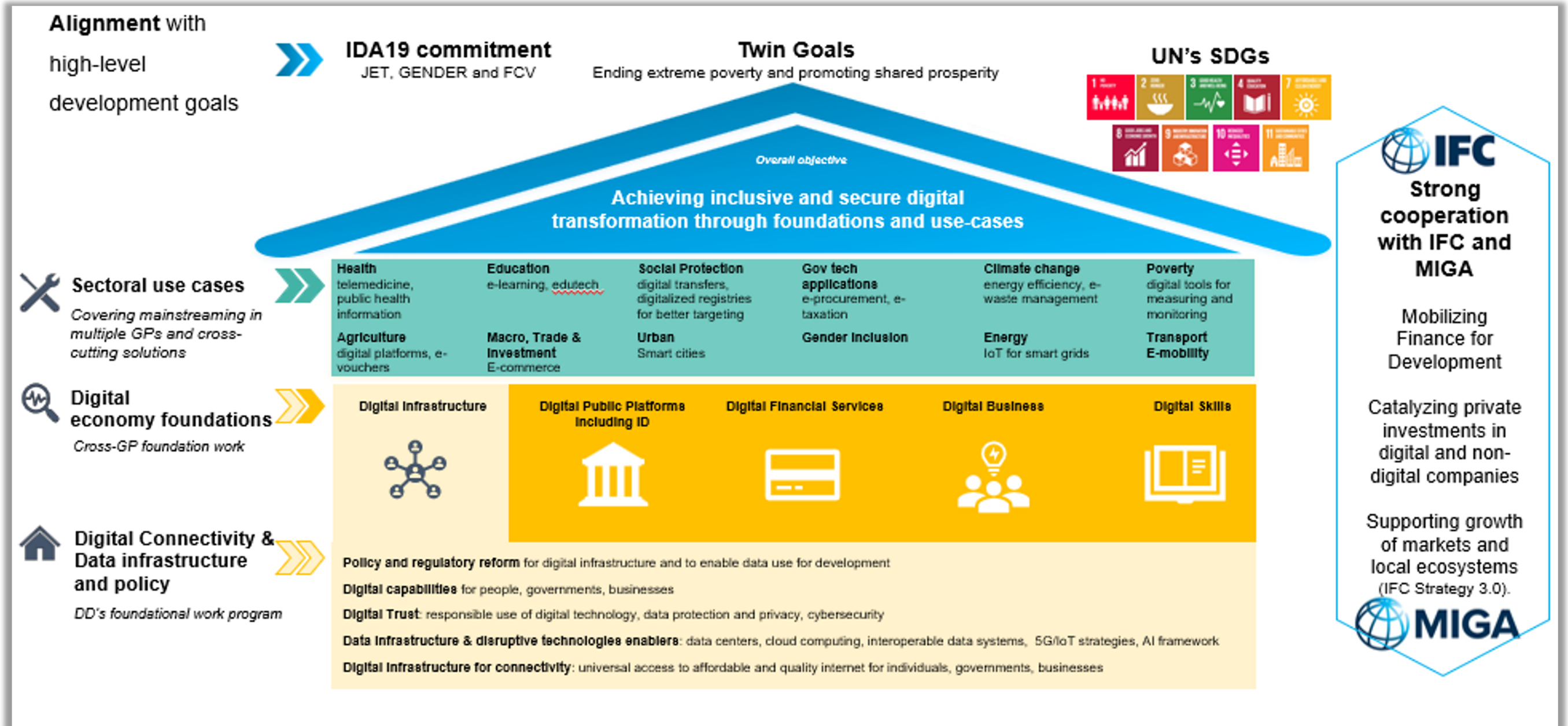
KOREA DIGITAL DEVELOPMENT PROGRAM

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Three Strategic Pillars for FY22-24

Help Countries Accelerating Digital Transformation that is Data-Driven, Secure and Green

1

Data Ecosystem

Enable an effective national Data ecosystem for **data sharing** and **value realization**

2

Digital Trust Reforms

Strengthen the **enabling environment** (policy and regulations) and **manage risks** incl. **cybersecurity** of critical infrastructure

3

Green & Innovative Transition

Accelerate **transition** towards **low-carbon** Digital Transformation through **greening ICT** and CC **data-driven adaptation**

Enhance Digital Capabilities

KoDi
Accelerating Digital Transformation

AN ECOSYSTEM-BASED APPROACH TO DATA-DRIVEN DEVELOPMENT IS A KEY FOUNDATION FOR ALL

Alignment with high-level development goals

IDA19 commitment
JET, GENDER and FCV

Twin Goals
Ending extreme poverty and promoting shared prosperity

UN's SDGs

Overall objective

Achieving inclusive and secure digital transformation through foundations and use-cases

Sectoral use cases
Covering mainstreaming in multiple GPs and cross-cutting solutions

Health telemedicine, public health information	**Education** e-learning, edutech	**Social Protection** digital transfers, digitalized registries for better targeting	**Gov tech applications** e-procurement, e-taxation	**Climate change** energy efficiency, e-waste management	**Poverty** digital tools for measuring and monitoring
Agriculture digital platforms, e-vouchers	**Macro, Trade & Investment** E-commerce	**Urban** Smart cities	**Gender Inclusion**	**Energy** IoT for smart grids	**Transport** E-mobility

Digital economy foundations
Cross-GP foundation work

Digital Infrastructure

Digital Public Platforms Including ID

Digital Financial Services

Digital Business

Digital Skills

Digital Connectivity & Data infrastructure and policy
DD's foundational work program

Policy and regulatory reform for digital infrastructure and to enable data use for development

Digital capabilities for people, governments, businesses

Digital Trust: responsible use of digital technology, data protection and privacy, cybersecurity

Data infrastructure & disruptive technologies enablers: data centers, cloud computing, interoperable data systems, 5G/IoT strategies, AI framework

Digital infrastructure for connectivity: universal access to affordable and quality internet for individuals, governments, businesses

IFC
Strong cooperation with IFC and MIGA

Mobilizing Finance for Development

Catalyzing private investments in digital and non-digital companies

Supporting growth of markets and local ecosystems (IFC Strategy 3.0).

MIGA

GLOBAL GUIDE – A WAY TO IDENTIFY OPPORTUNITIES AND GAPS IN THE GOVERNANCE AND MANAGEMENT OF DATA
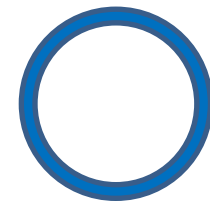
The Digital Development team is preparing a Guide for open publication that will seek to inform policymakers striving to find solutions to the challenges posed by an increased reliance on data and digital technologies globally. It answers the following:
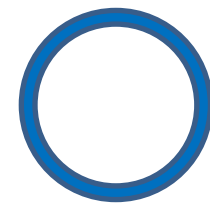
○ How and **Where to start** operationalizing data?
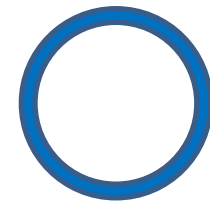
○ **How to operationalize** data relying on practical evidence?

○ **How to develop** a data ecosystem and What is the action plan for each country?

THE NEXT STAGE OF DIGITAL TRANSFORMATION – DATA-DRIVEN SOCIETY

DIGITAL COMPASS

Digital Compass highlights data's central role and emphasizes that the evolution to a data-driven society needs to be comprehensive and interconnected.

Source: European Commission, 2021
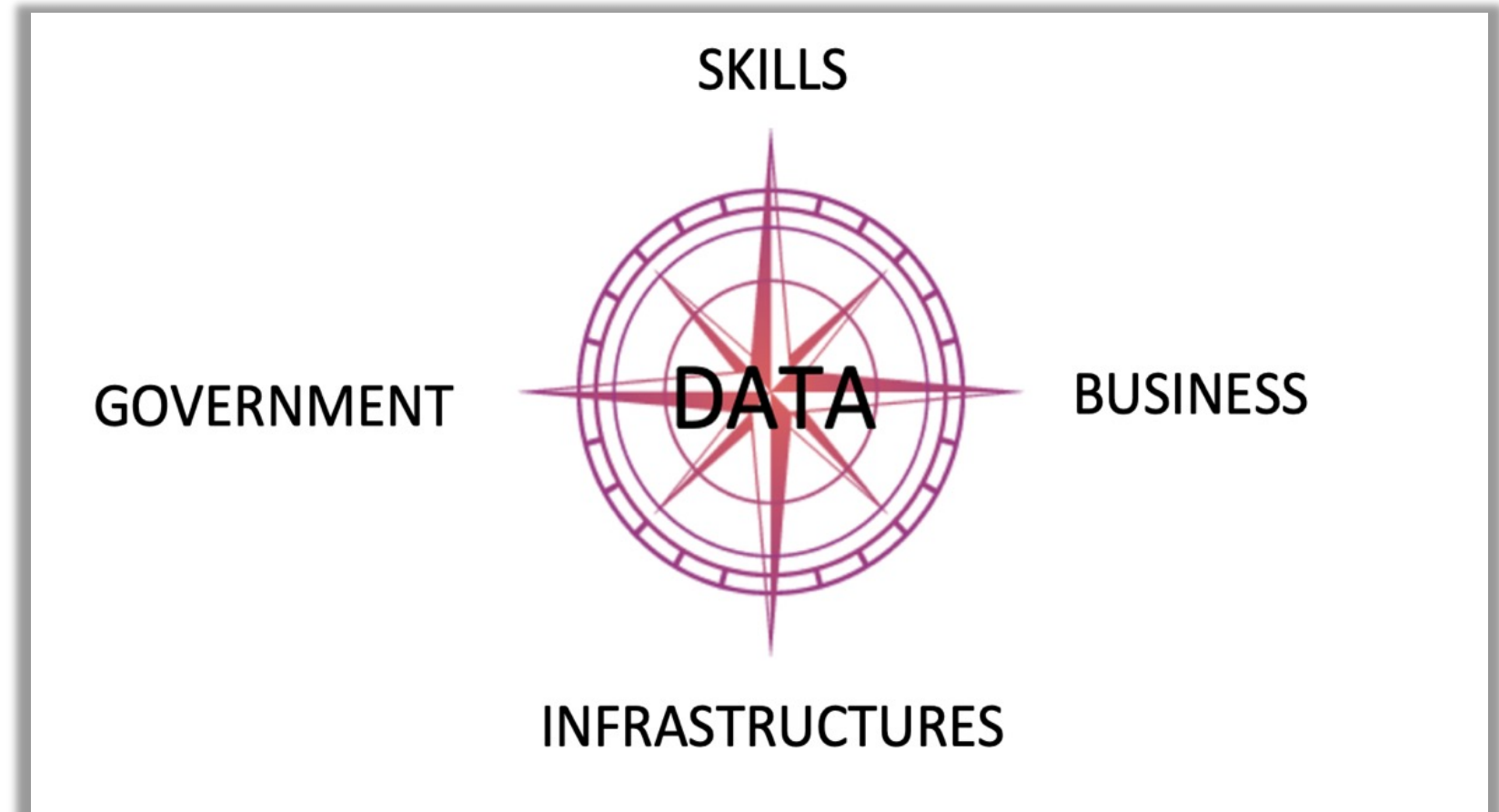
DELIVERING THE POTENTIAL DIVIDENDS OF DATA REQUIRES INNOVATIVE ANSWERS TO FUNDAMENTAL QUESTIONS

How does a country extract **value** from its data? What economic policies are needed?

How does a country ensure **trust** in its data, by which laws and regulations

What inclusive, overarching, independent **institutions** does a country need?

What resilient data **infrastructure** does a country need to securely manage its data?

How a country should develop **human capital** to derive benefit from its data?

What data **governance framework** does a country need to oversee it all and work together to manage data across the complete life cycle?

A COUNTRY'S SUCCESS IN DELIVERING DIGITAL DIVIDENDS DEPENDS ON ITS ABILITY TO MANAGE ITS DATA RESOURCES BY BUILDING A NATIONAL DATA ECOSYSTEM

A well-functioning data governance framework allows policy-makers to capture the **full economic and social value from different types of data*** and ensures that infrastructure, laws, economic policies, and institutions work together to support the use of data
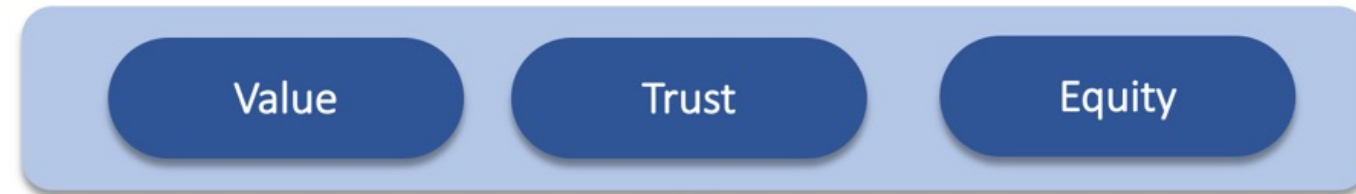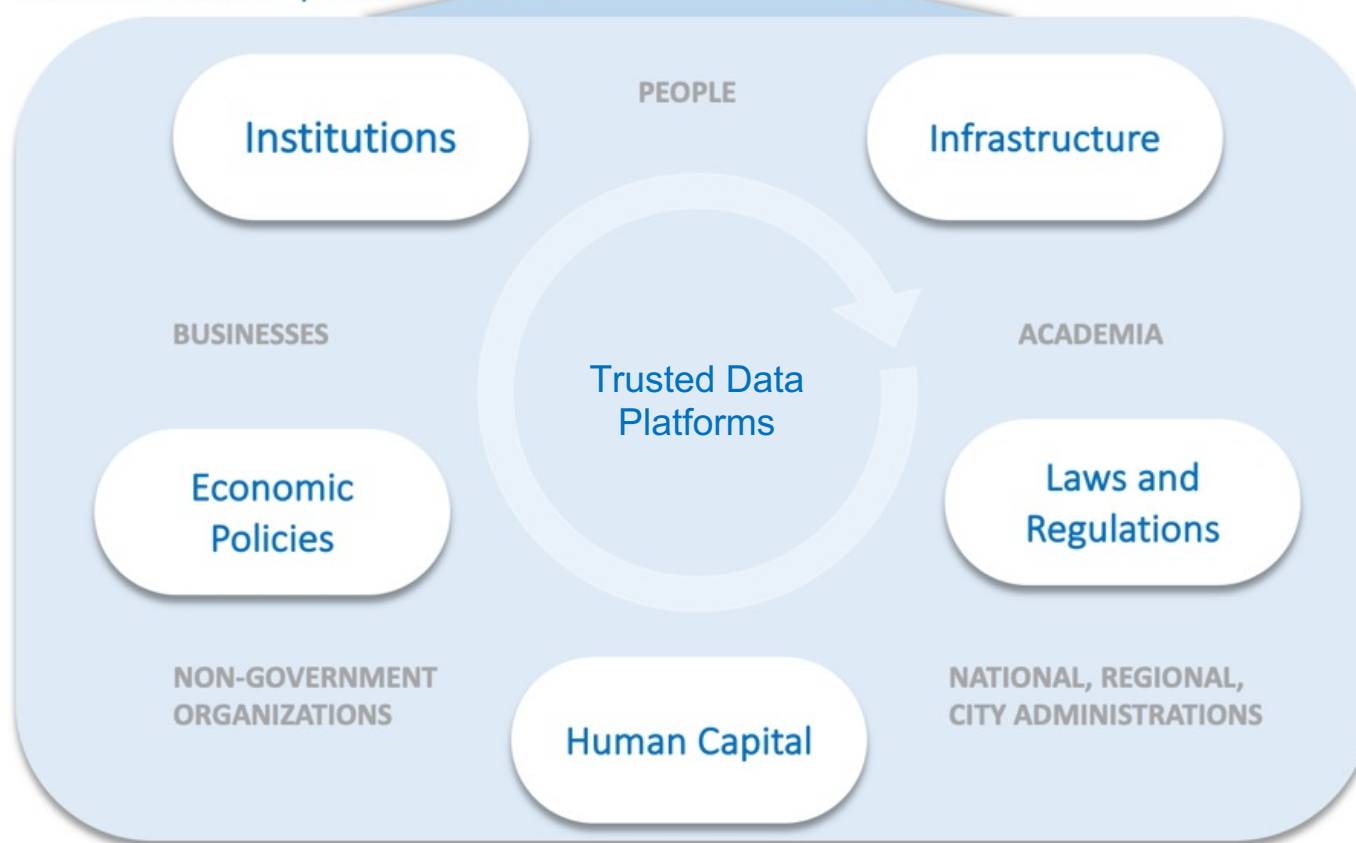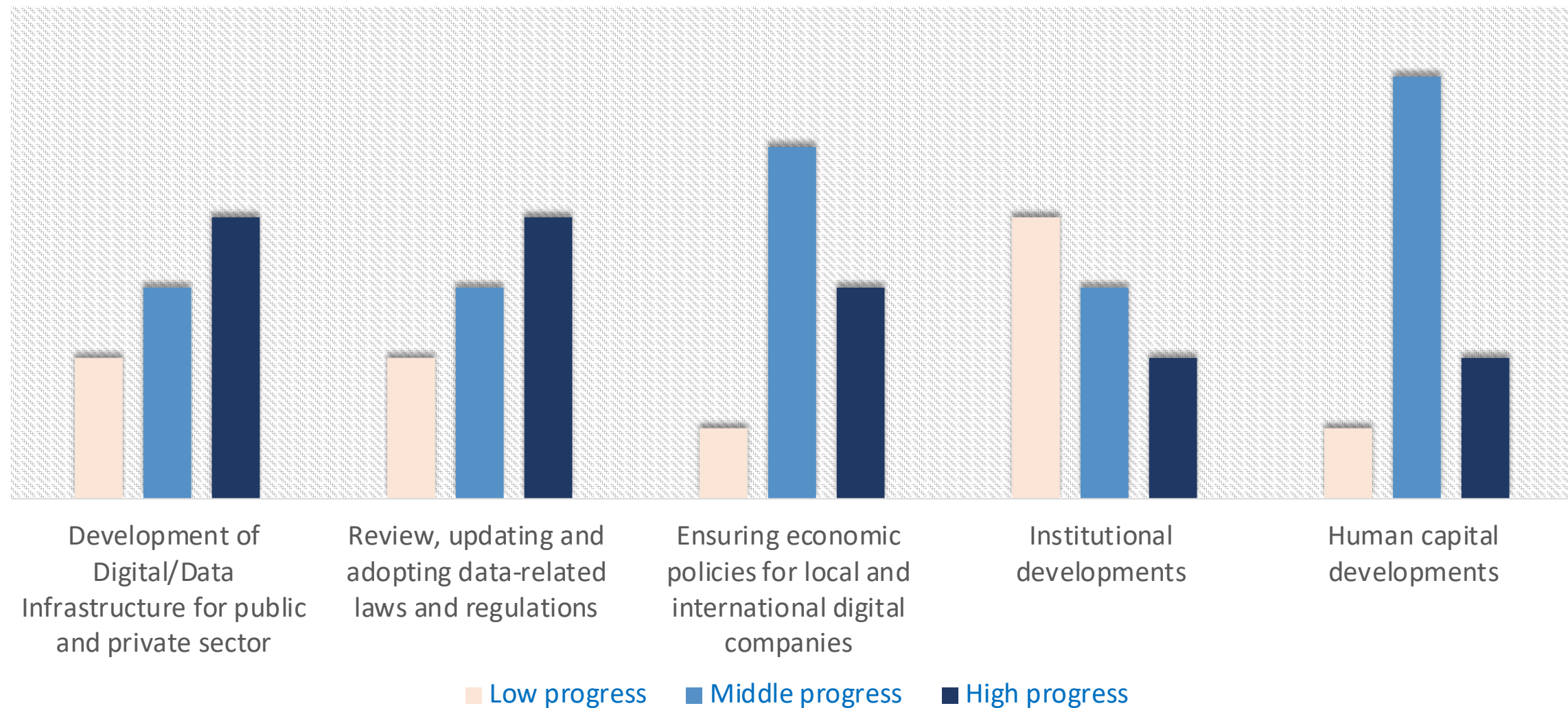

* including administrative, statistical, business, industrial, scientific and real-time machine generated data
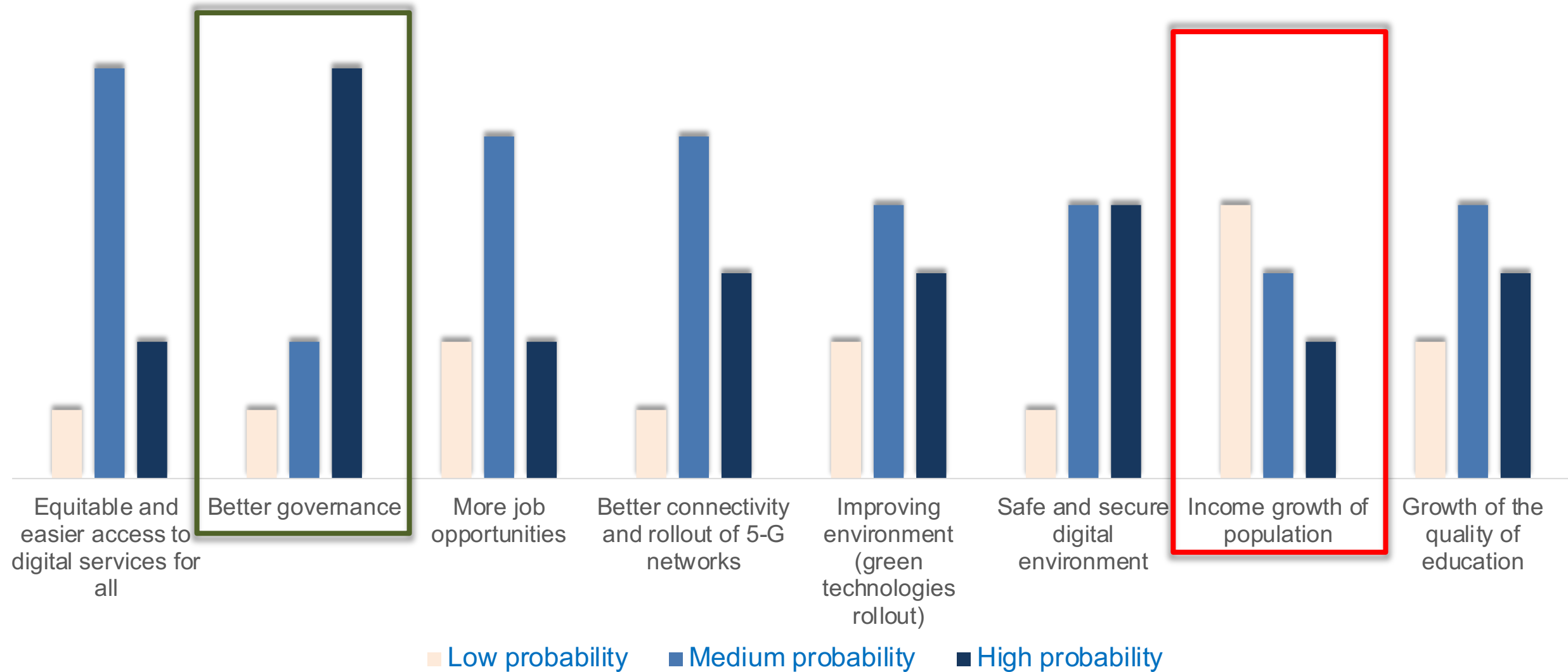
HOW IS MOLDOVA BUILDING A NATIONAL DATA ECOSYSTEM: QUICK GLANCE

In which of the following areas Moldova has made substantial progress over the last five years?

Legend: Low progress | Middle progress | High progress

Categories: Development of Digital/Data Infrastructure for public and private sector | Review, updating and adopting data-related laws and regulations | Ensuring economic policies for local and international digital companies | Institutional developments | Human capital developments

Source: Based on preliminary results of Moldova Data Ecosystem Survey

HOW IS MOLDOVA BUILDING A NATIONAL DATA ECOSYSTEM: QUICK GLANCE - 2

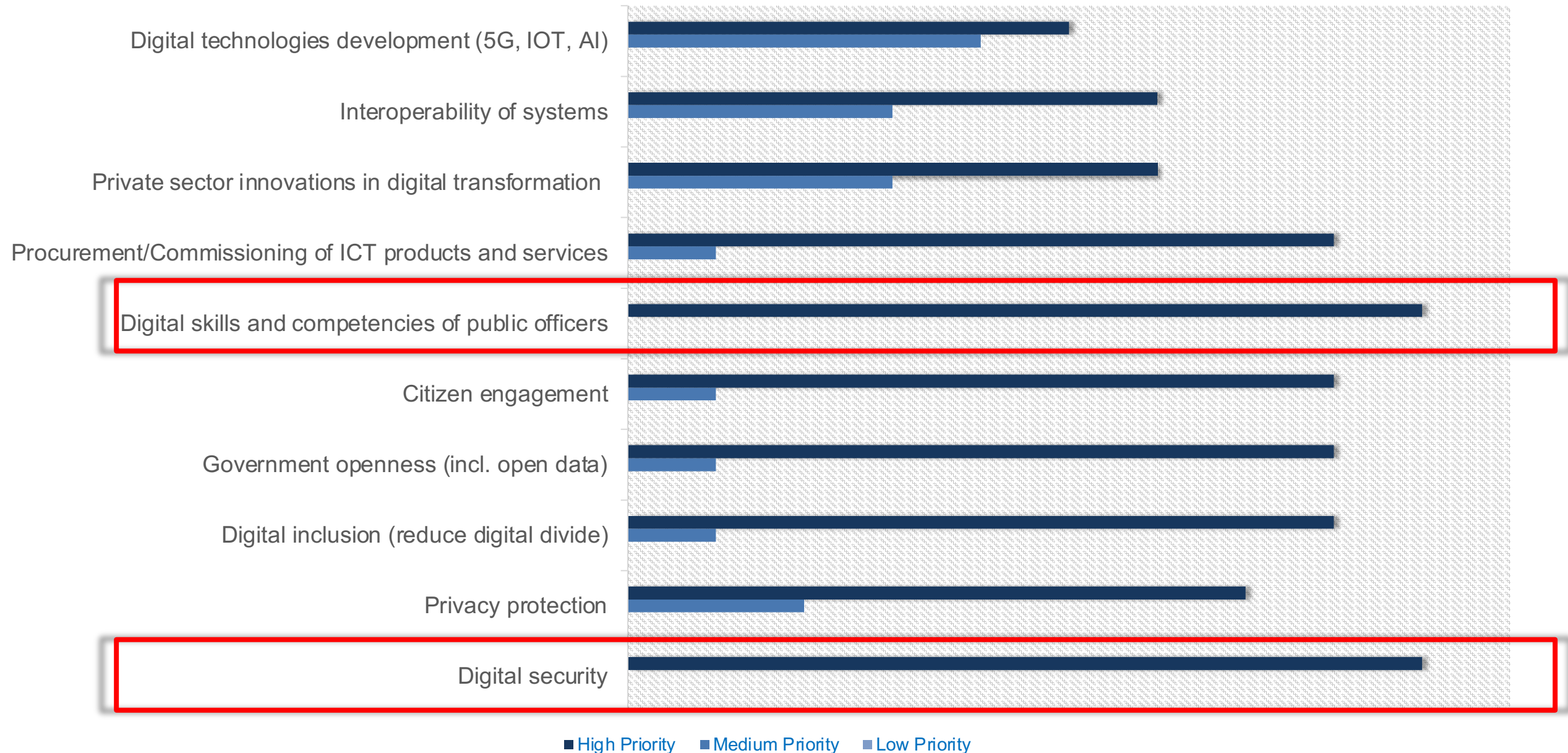What are the benefits in having a data-driven development strategy in Moldova?

Equitable and easier access to digital services for all | Better governance | More job opportunities | Better connectivity and rollout of 5-G networks | Improving environment (green technologies rollout) | Safe and secure digital environment | Income growth of population | Growth of the quality of education

■ Low probability   ■ Medium probability   ■ High probability

Source: Based on preliminary results of Moldova Data Ecosystem Survey

HOW IS MOLDOVA BUILDING A NATIONAL DATA ECOSYSTEM: QUICK GLANCE - 3

In which of the following topics the Republic of Moldova faces challenges?

Legend: No challenge, Insignificant, Serious
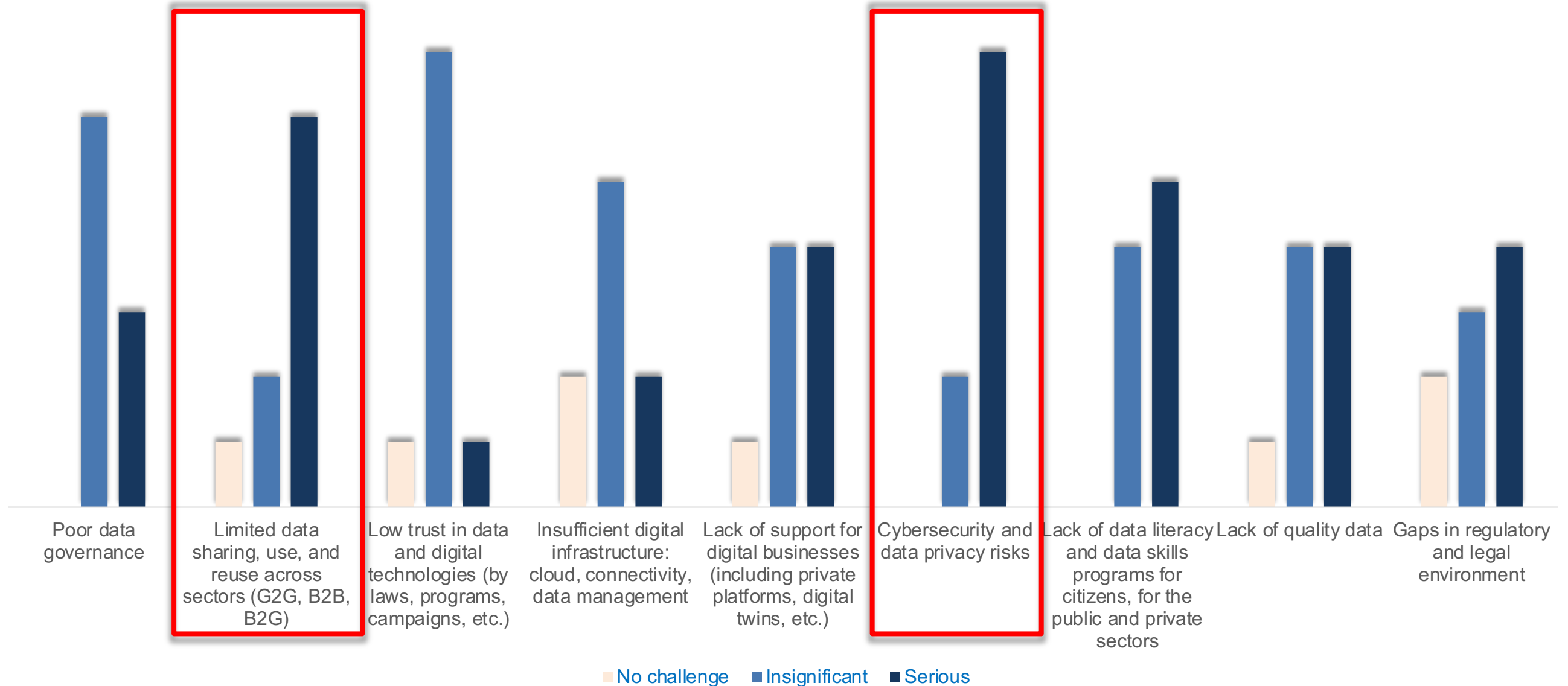
HOW IS MOLDOVA BUILDING A NATIOANAL DATA ECOSYSTEM: QUICK GLANCE - 4

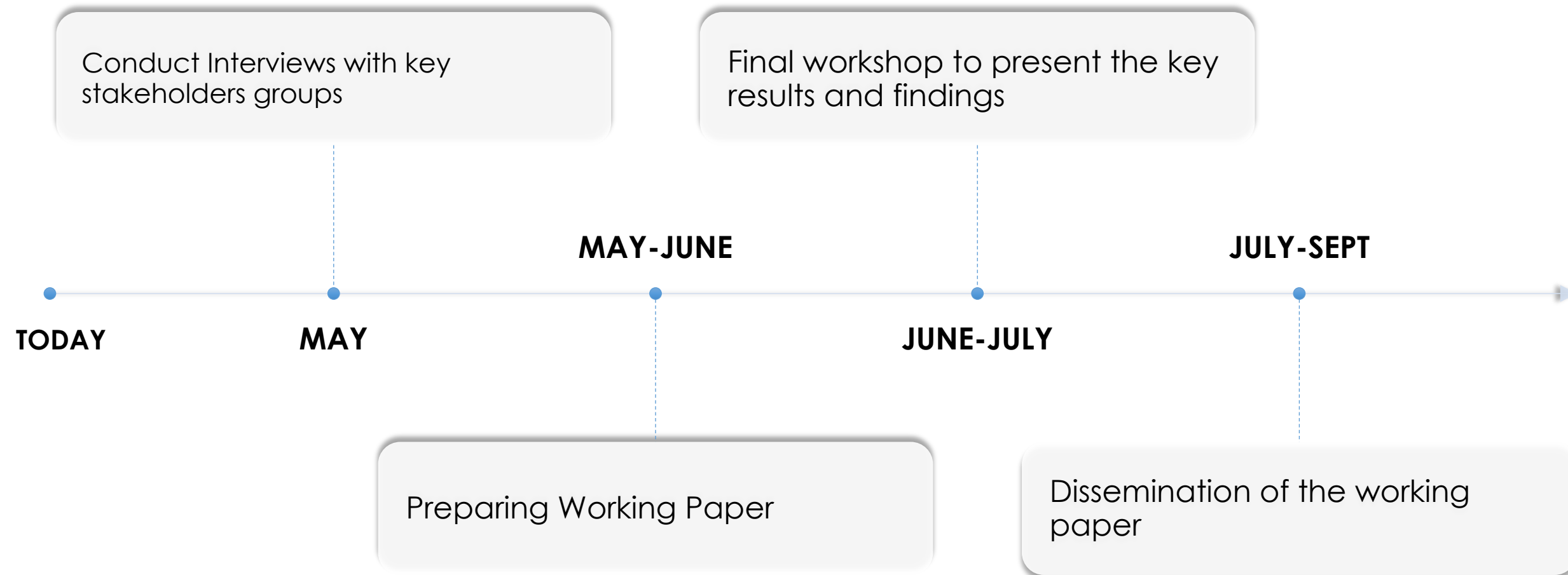Which of the following topics should be prioritized by the government of Moldova?

High Priority   Medium Priority   Low Priority

Source: Based on preliminary results of Moldova Data Ecosystem Survey

PLEASE TELL US MORE

A link to the online survey

TENTATIVE TIMELINE

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Conduct Interviews with key stakeholders groups

Final workshop to present the key results and findings

MAY-JUNE

JULY-SEPT

TODAY

MAY

JUNE-JULY

Preparing Working Paper

Dissemination of the working paper

CORE TEAM COMPOSITION

YOU

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Broader team includes many other World Bank global and local experts

Thank you