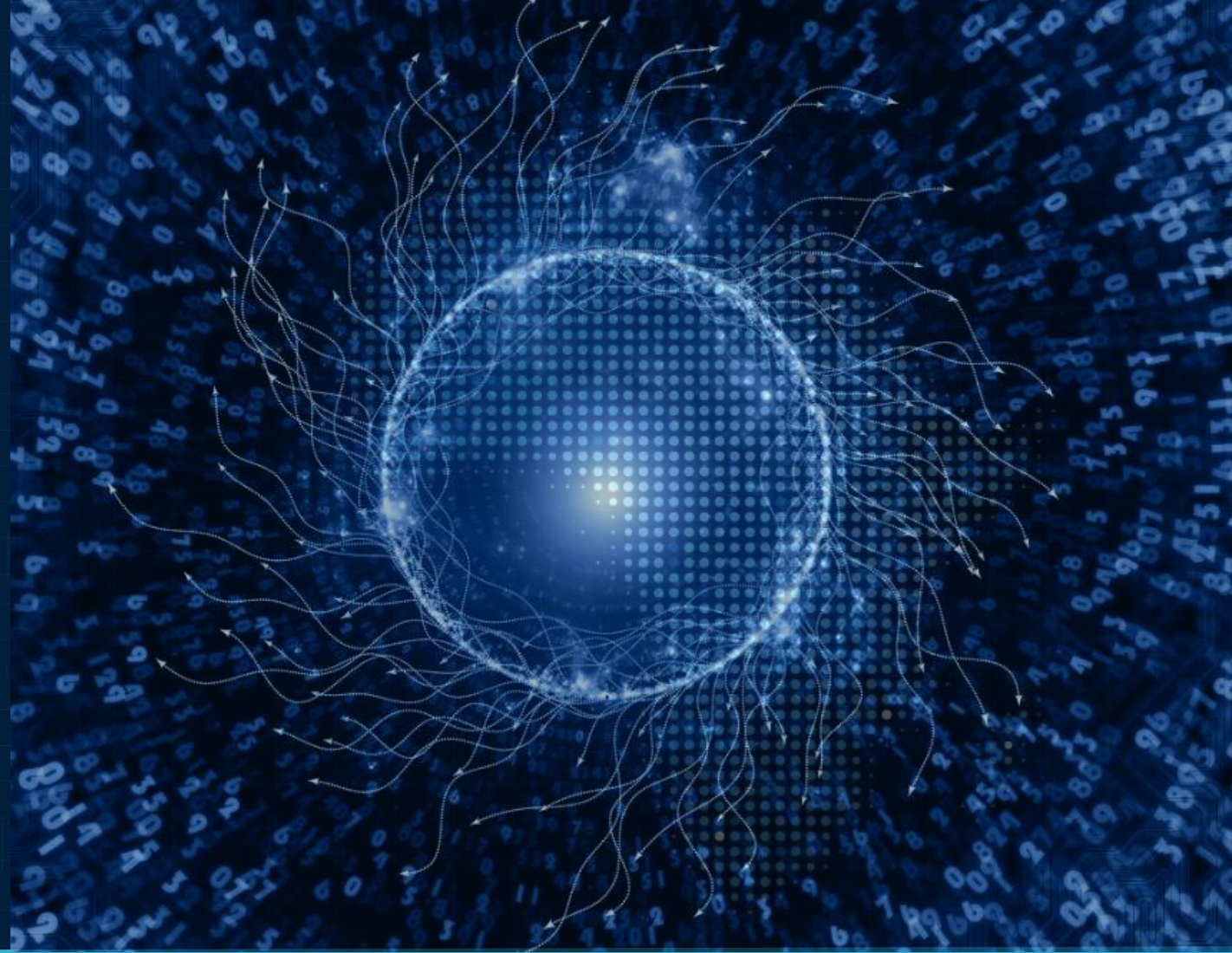


Harnessing Artificial Intelligence for Development



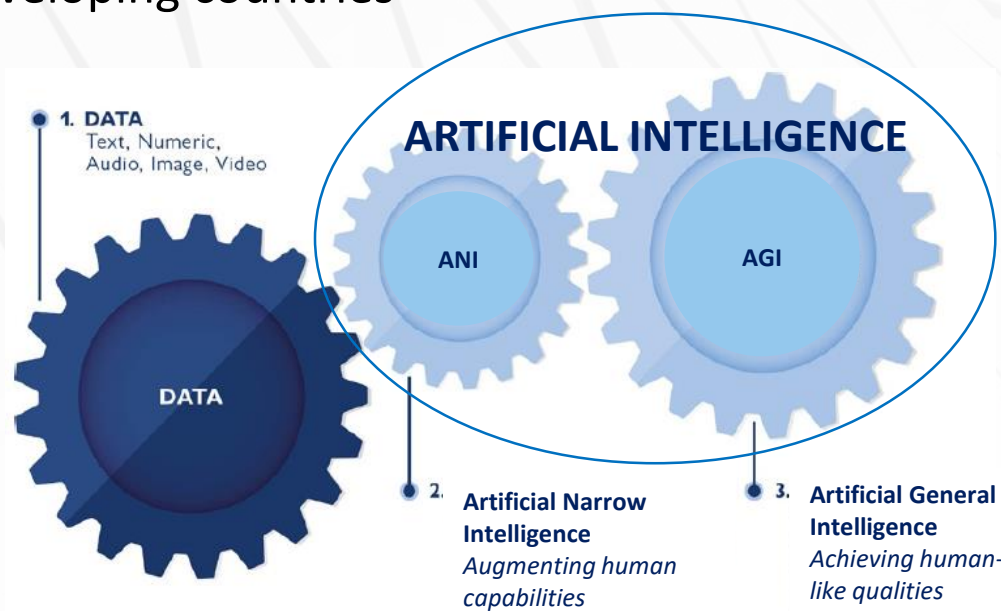
Emerging Practices in Policy and Regulation



THE WORLD BANK
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AI for development: an opportunity for developing countries

- Artificial intelligence (AI) is beginning to **TRANSFORM SOCIETIES** across the world and is rapidly emerging as a topic relevant to global development, reshaping national economic development and individual livelihoods.
- Technological progress in the field of AI is driven by rapidly increasing amounts of **DATA, DIGITAL CONNECTIVITY**, and **ADVANCED ALGORITHMS**.
- The pace and magnitude of the ongoing digital revolution create both **OPPORTUNITIES** and **RISKS** for developing countries



Data is key for AI



AI applications rely on ML to analyze data

AI for development ... Now is not the time to be left behind

As the AI revolution takes off, developing countries cannot afford to lag behind in harnessing AI and determining their trajectory towards AI adoption.

OPPORTUNITIES

AI can support economic and human development in key sectors and public services.

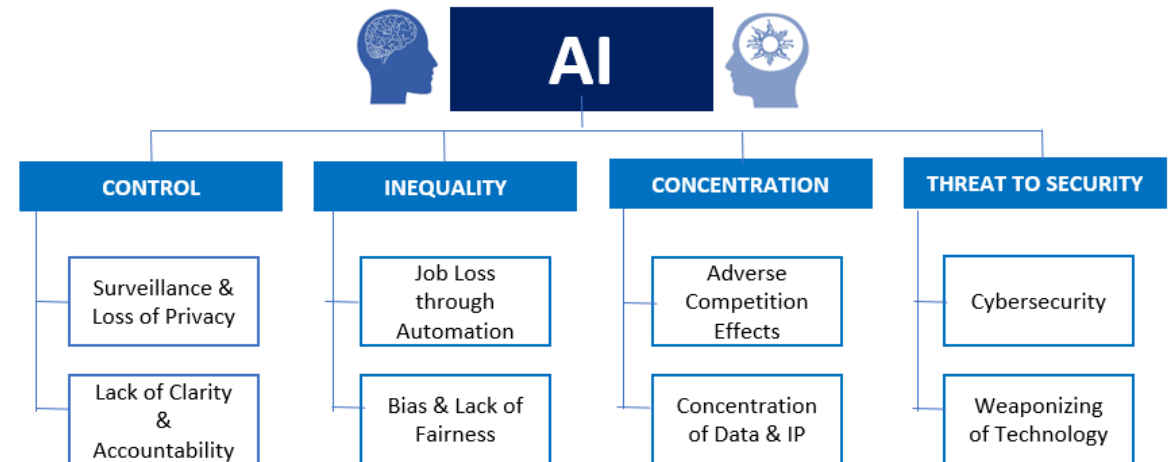


<p>AI offers vast opportunities to transform how we understand disease and improve health.</p>	<p>AI can provide safe and efficient transportation; expand the capacity of existing road infrastructure and improve traffic flow. It can also reduce carbon emissions and facilitate greater inclusiveness.</p>	<p>AI can develop predictive models for engagement and comprehension. It can be used to develop new approaches to education that may revolutionise how people learn.</p>	<p>AI can improve how governments interact with their citizens and deliver services. It can create efficiencies, reduce burdens, and eliminate redundancies.</p>	<p>AI offers significant opportunities to increase food production by improving agricultural yield and reducing waste.</p>
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7 AFFORDABLE AND CLEAN ENERGY
 Usage of remote sensing and AI for tanker farms and crude carrier ships along with generating a generic neural net for **predicting power consumption** to dynamically alter power production, therefore generating up to 10% reduction in carbon footprint of conventional energy sources

RISKS

AI can aggravate inequality, concentration, and control risks as with digital technology more generally.

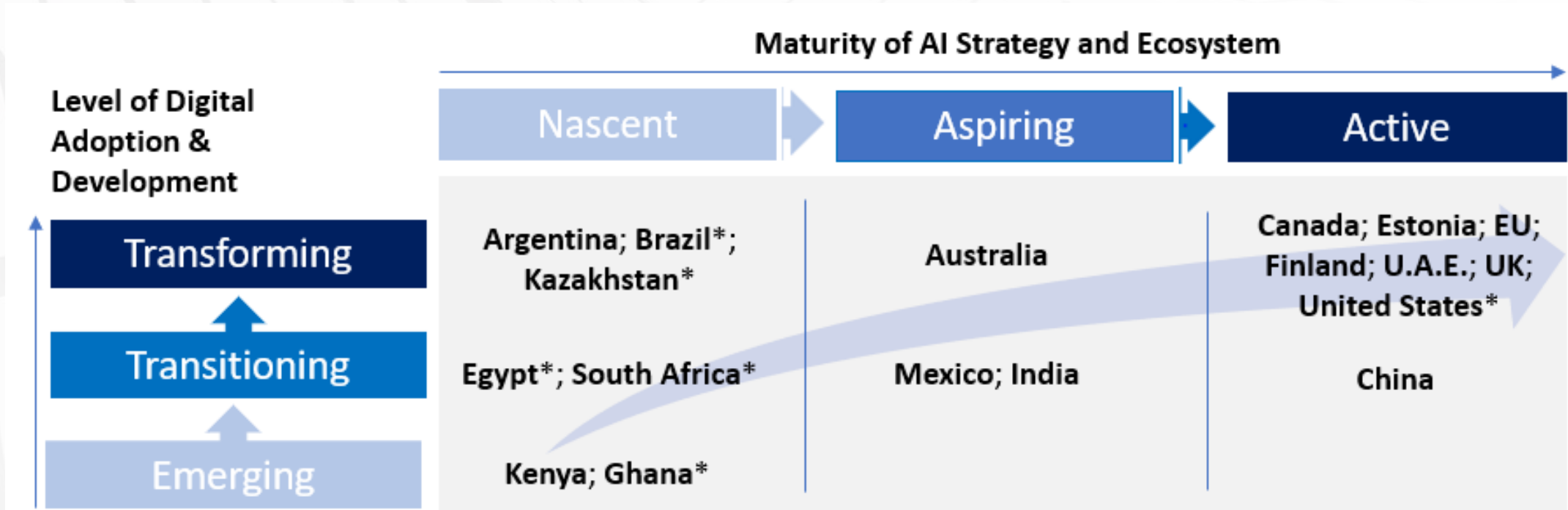


Governments can **balance AI opportunities and risks** to create shared prosperity and better lives for all citizens.

An Enabling AI Policy Framework

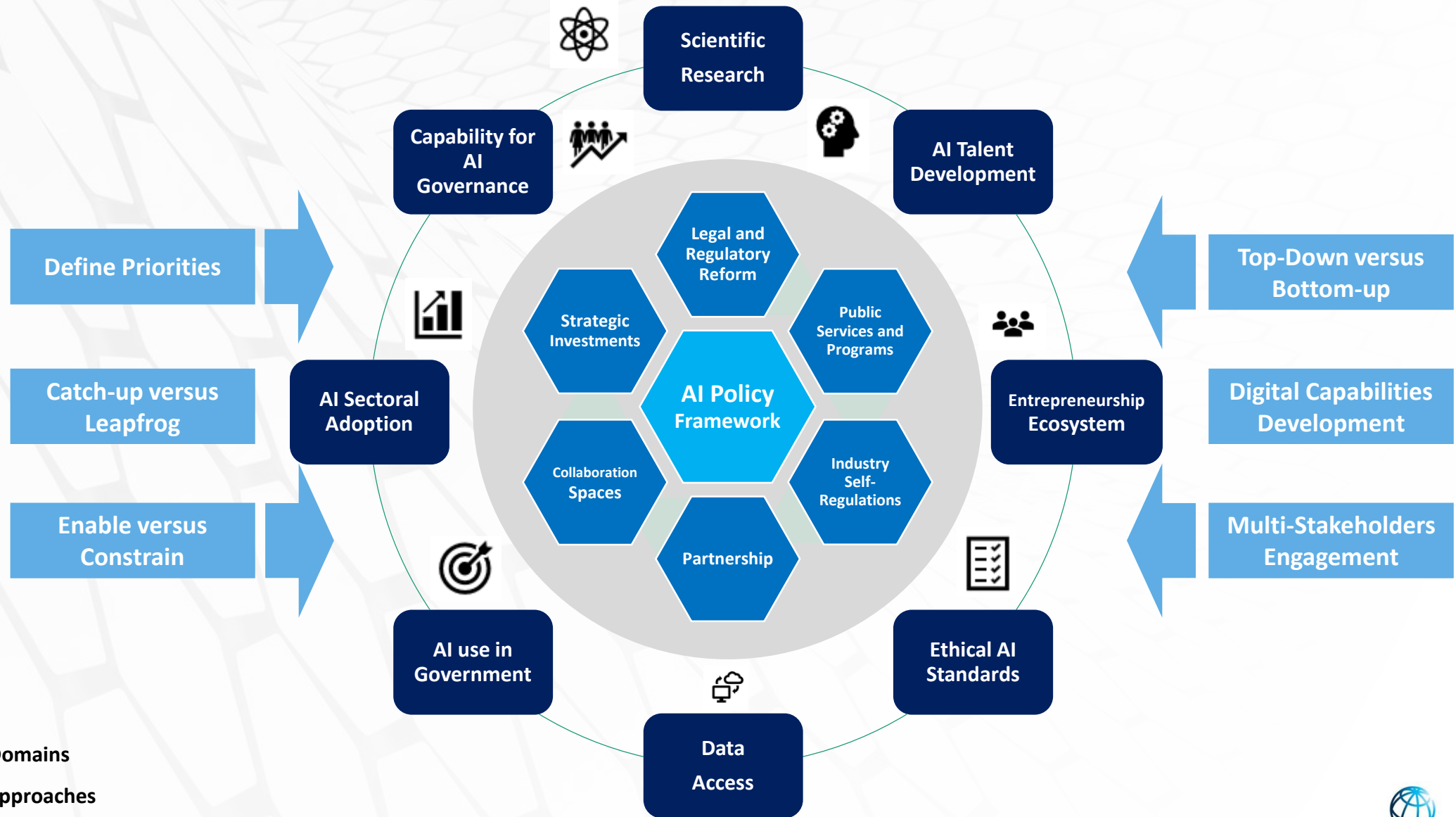
Multi-dimensional Matrix of selected Case Studies & Practices

Nineteen case studies were studied in both developed and developing countries, reflecting various levels of economic, human, and digital development, as well as an opportunity for leapfrogging.



* AI initiatives

AI policymaking: Domains, Tools and Approaches



- Policy Domains
- Policy Approaches
- Policy Tools

The Way Forward



An Enabling Government in AI policymaking

• Emerging practices in AI policymaking shows that **while various stakeholders participate in implementing strategies, governments can play a fundamental role in setting policy direction and accelerating development and adoption.**

• **Governments remain an enabling player even in domains where other stakeholders lead.** In scientific research, this includes supporting the **private sector** in scaling AI into markets, **Academia** in developing new research centers and skills, and **Think-Tanks** to monitor the implementation of Trustworthy AI.

• **Beyond national-level strategies, public sector policies at local levels can be more targeted to the needs of local markets.** Cities are slowly emerging as new leaders in AI policies and practices, targeting local objectives and priorities, and fostering local entrepreneurship and job creation.

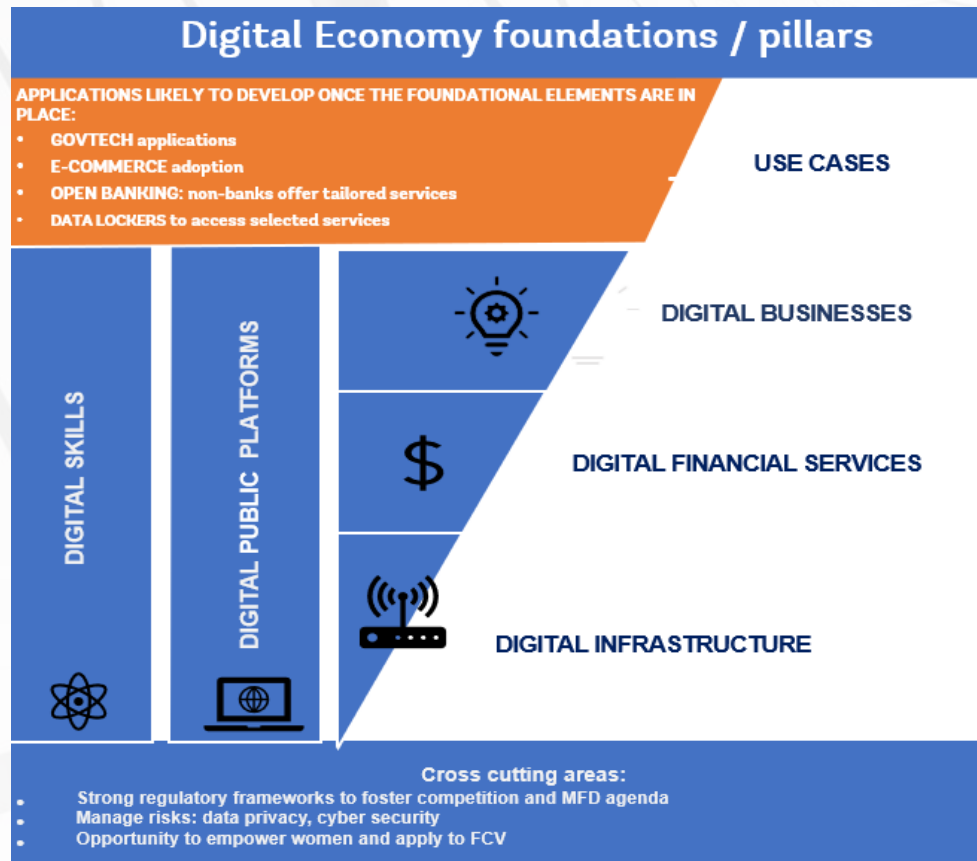
Essential Drivers



- **Invest in modern digital infrastructure** to develop the AI foundations;
- **Widen access to data** while providing safeguards against risks.
- **Build AI capabilities** and operationalize Trustworthy AI

AI as an accelerator of Digital Economy

- Think AI as you think about Digital Economy
- In each element of the Digital Economy ecosystem, there is a vital place for AI



Digital Infrastructure

Availability of affordable and quality internet, instrumental to bringing more people online.

Digital Public Platforms

Use of digital platforms that support greater digital exchange and access to public and private services online.

Digital Financial Services

Ability to pay, save, borrow, and invest through digital means, which is key to accessing digital services.

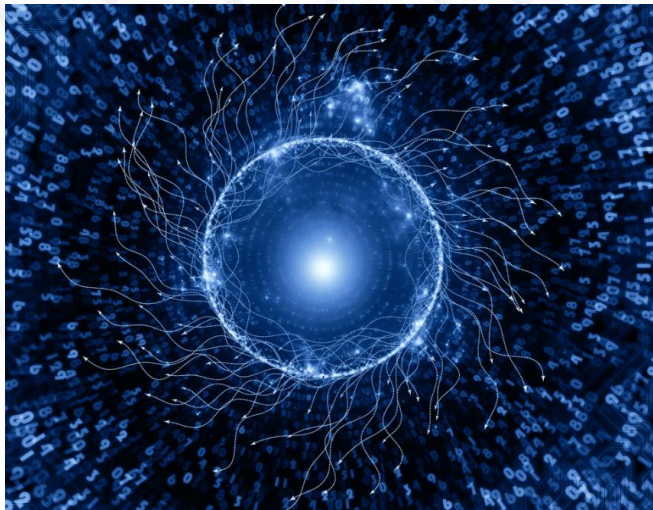
Digital Businesses

Ecosystem that supports firms generating products and services which leverage new technologies and business models.

Digital Skills

Development of a tech-savvy workforce, with digital skills to support increased technology adoption and innovation.

Thank you ...



Boutheina Guerhazi
Director, Digital Development Global Practice



Zaki Khoury
Senior Digital Development Specialist, Digital Development