e-Governance Conference 2019

21 May 2019 | Tallinn, Estonia

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DIGITAL TRANSFORMATION AS SUSTAINABLE DEVELOPMENT PATHWAY

Overview

- The global imperative
  - The Sustainable Development Goals (SDGs)
  - Key trends and issues
- Digital Transformation
  - Key concepts and approaches
  - The Estonia-UNDP cooperation and framework
  - The digital transformation diagnostic tool
- Key priorities and next steps
  - Piloting of the tool, capacity building, multilevel/multistakeholder efforts
- Dialogue [Q/A/Comments/Insights]

The Global Imperative

The SDGs: Five years on

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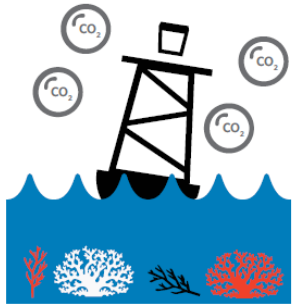
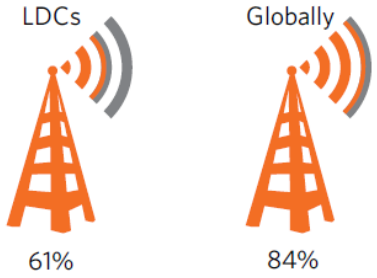
Open ocean sites show **current levels of acidity have increased by 26 per cent** since the start of the Industrial Revolution



Economic losses attributed to disasters were **over $300 billion** in 2017

Proportion of population covered by a 3G mobile broadband network was **lower in the LDCs** in 2016



The Global Imperative

All 232 SDG Indicators: What data is available?

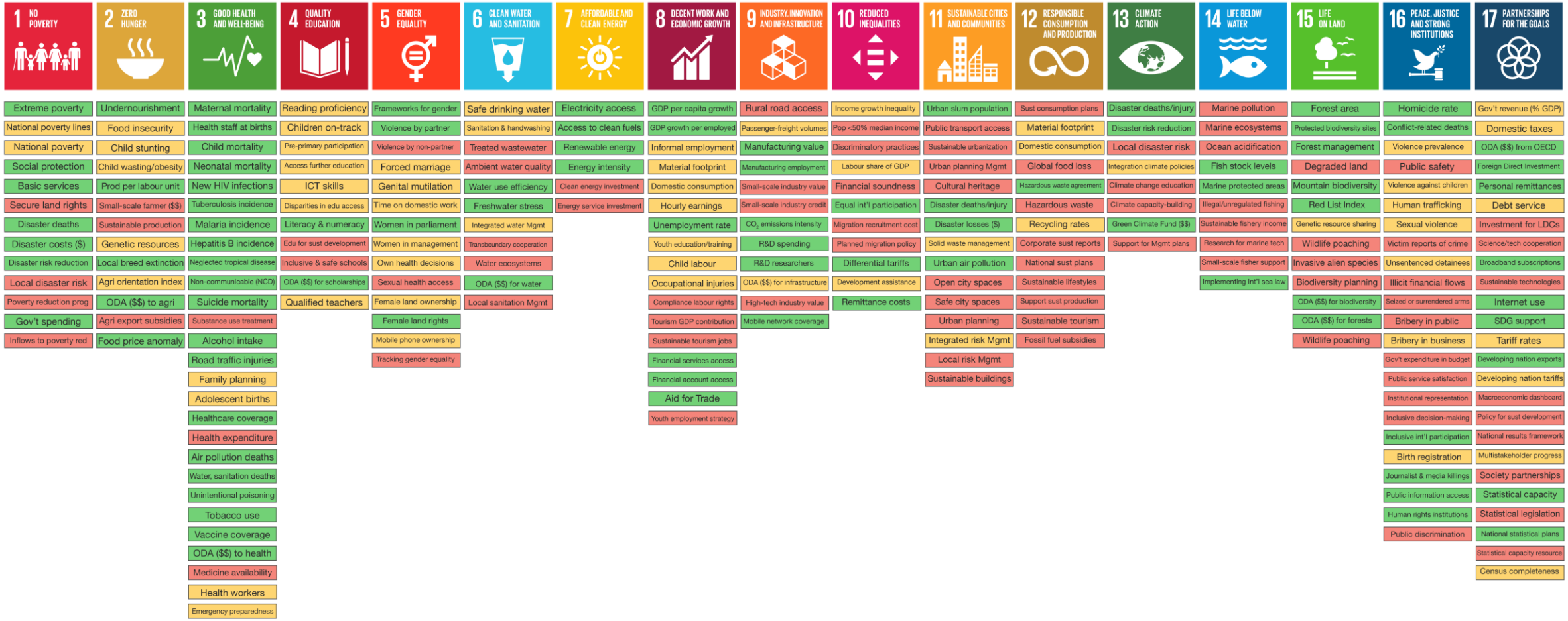
Our World in Data

This visualization shows for which of the 230 *Sustainable Development Goals (SDGs) Indicators* data is available at **SDG-Tracker.org**.

= Indicators for which recent global official metrics are available, or for which alternative good-quality cross-country source are available (e.g. estimates from independent research institutes).

= Indicators that do have official metrics, but for which available data is very incomplete or outdated. Yellow boxes also mark Indicators for which there are no official metrics, but for which closely related estimates are available that allow informative but imperfect monitoring.

= Indicators for which – to the best of our knowledge – global monitoring is not currently possible.



You find all data on SDG-Tracker.org, a sister project of OurWorldinData.org. In case you are aware of relevant data we have not included yet please let us know via SDG-Tracker.org.

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Key trends and issues

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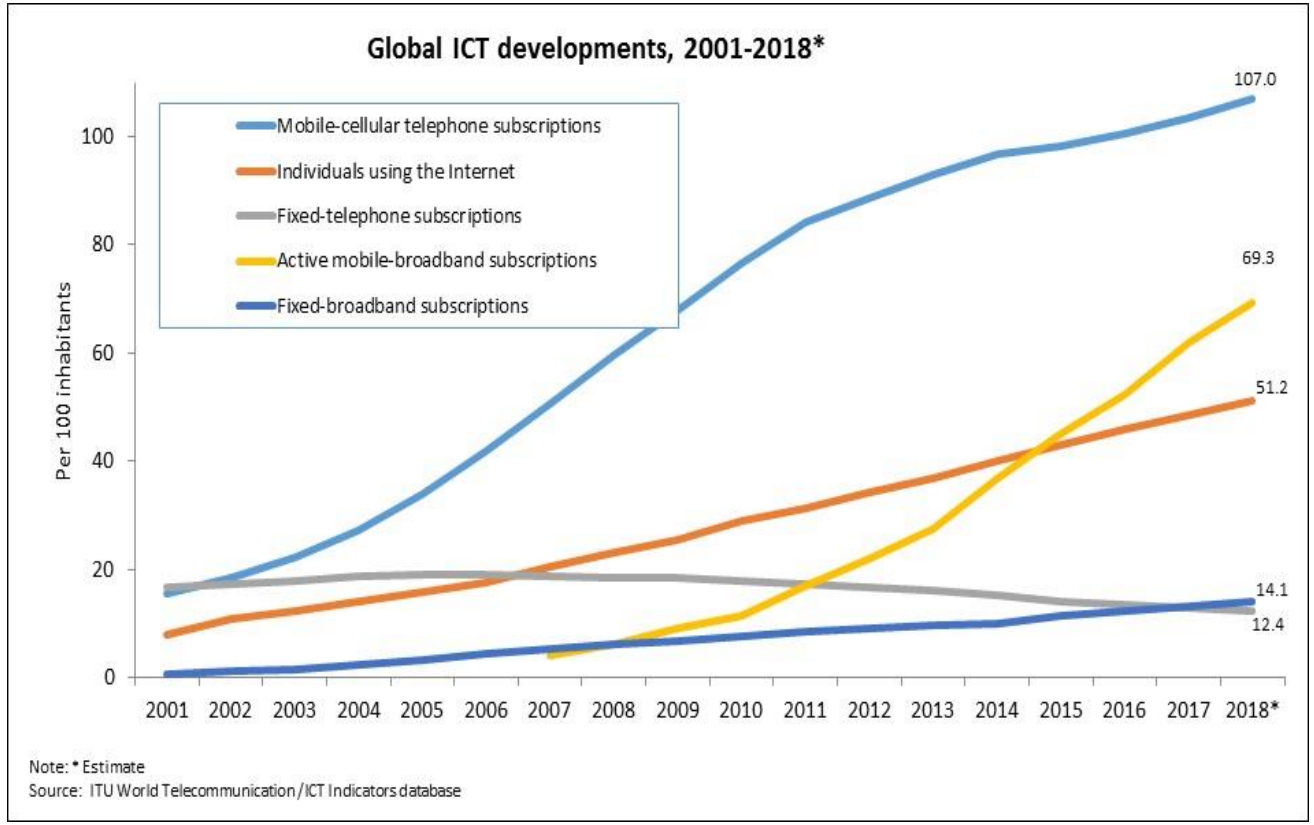
- Quickening Fourth Industrial Revolution (implications)
- Quickly evolving societies and economies
- Increasingly digital and urban (~70% by 2050)
- Rising risks: inequality, violence and conflict, environmental pressures, etc.
- Risks to the promise to “leave no one behind”



The global imperative

Accelerating progress towards 2030

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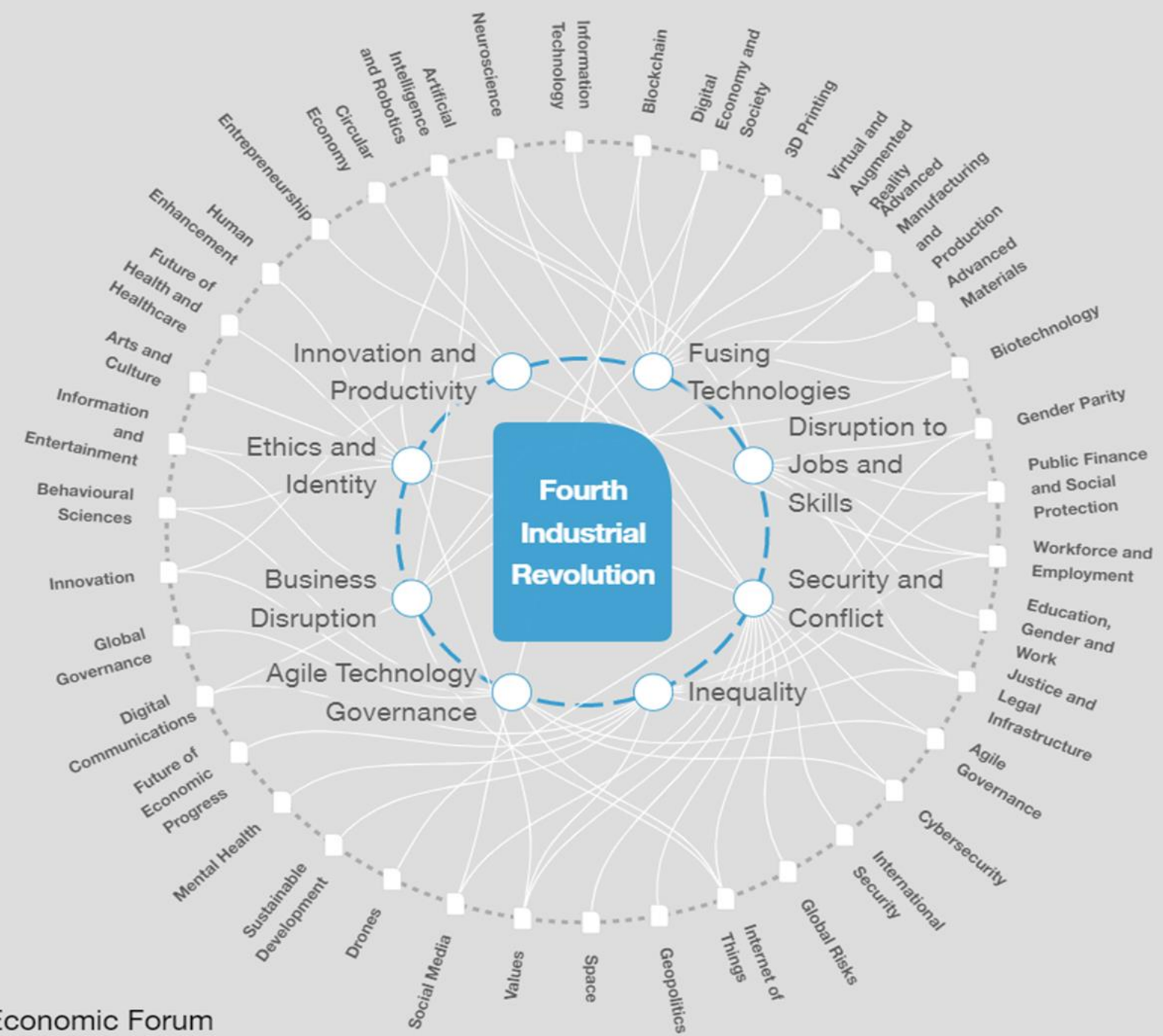
Digital Transformation



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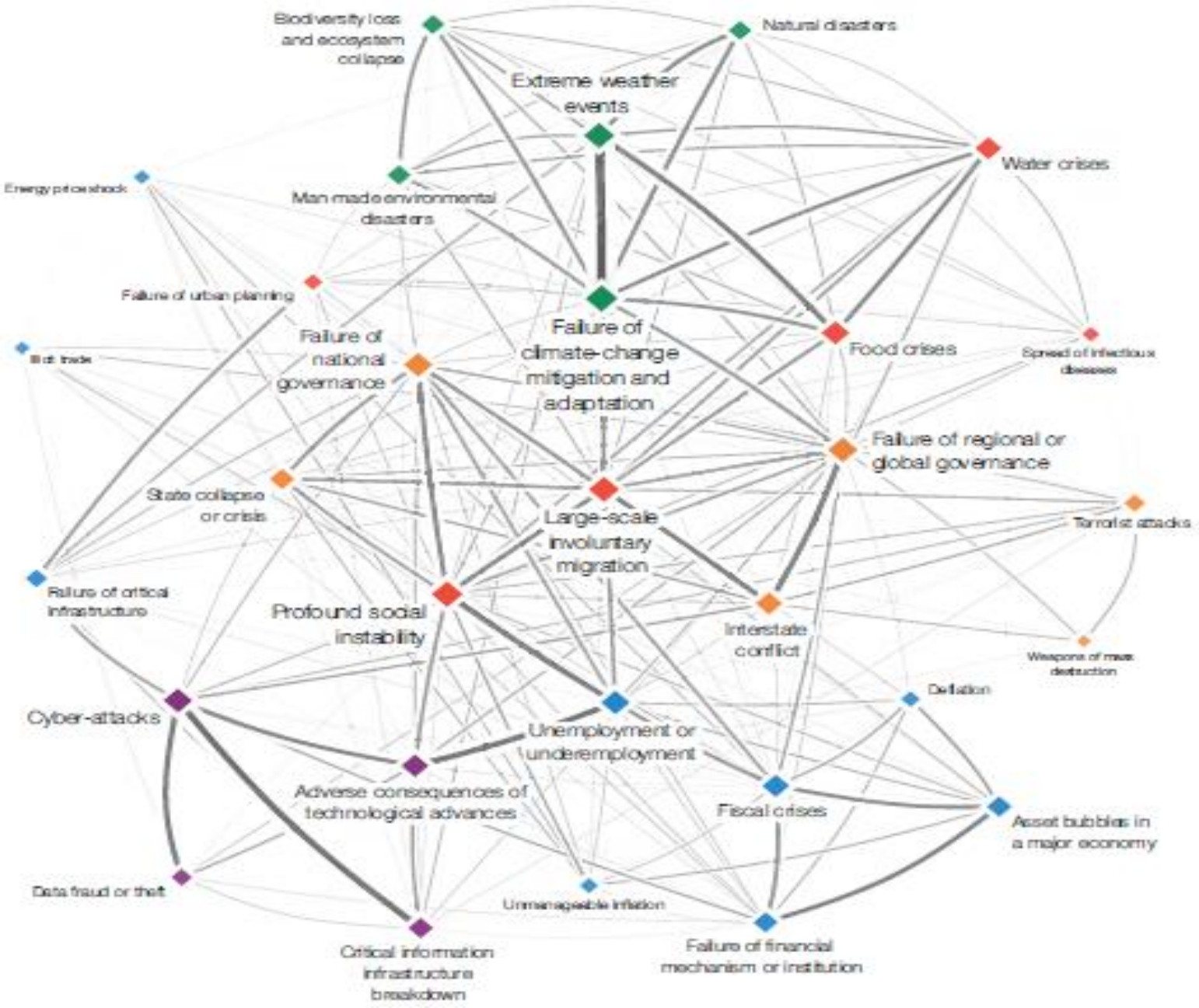
Digital Transformation



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No room for "random acts of digital"

Digital transformation as sustainable development pathway

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Digital strategies to achieve the SDGs

Transforming digital landscapes to transform societies and economies for sustainable future

Digital transformation

Estonia-UNDP cooperation & framework

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- Leveraging shared goals and strengths
- Priorities: development of a diagnostic tool; capacity building (internal UNDP and programme countries, knowledge exchange, network-building, etc.; e-Identity and Smart Cities

On the ground in about 170 countries and territories, UNDP works to eradicate poverty while protecting the planet. We help countries develop strong policies, skills, partnerships and institutions so they can sustain their progress.

we have built a digital society and so can you

Named 'the most advanced digital society in the world' by Wired, ingenious Estonians are pathfinders, who have built an efficient, secure and transparent ecosystem that saves time and money. e-Estonia invites you to follow the digital journey.

Digital Transformation

The diagnostic tool

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Components

- Rapid Integrated Assessment (RIA): applied in over 65 countries (national and subnational)
- Digital Landscape Survey
- Accelerator and Bottleneck Assessment (ABA)

* *Towards a digital transformation roadmap*

Smart Governance

Benefit from our knowledge and experience to make informed choices for transformation of digital governance in your country or city.

https://undg.org/sdg_toolkit https://www.undp.org/ https://ega.ee/

Diagnostic Tool

Rapid Integrated Assessment

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- Assess the level of alignment of digital/ICT targets within a country's national development framework with the SDG targets, and identify the gaps.
- Identify:
  - Linkages across targets as made explicit in national plans
  - Relevant indicators as captured in national plans
  - Landscape of entities responsible for specific targets
- Primary audience: the Government, including line ministry/department in charge of development planning.

Diagnostic Tool

Methodology: Main steps

1. Gather national/sub-national development plans and relevant sector strategies, including digital/ICT strategies
2. Desk review of planning documents to identify:
    - and exclude SDG targets not relevant to the assessment based on country context
    - digital/ICT targets within development plans and sector strategies that align with SDG targets
    - relevant gaps in alignment i.e. the SDG targets that are not addressed by the digital/ICT targets
    - intersectoral linkages and institutions responsible for digital/ICT target implementation
3. Prepare observations document based on assessment

Diagnostic Tool: Observations Deck

SDGs Goals/Targets	Thematic Area/Sector, as Identified in Key Government Planning Documents	National Development Plan Identify closest Goal/Target presented in Document addressing the issues in the corresponding SDG Goal/Target	Identify National Indicators for the Specific Targets	Institution Responsible for Target implementation (line ministries)	Any relevant comment related to this priority target area in the National Development Plan?
Goal 8. Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all					
8.5 By 2030, achieve full and productive employment and decent work for all women and men, including for young people and persons with disabilities, and equal pay for work of equal value	Information and Communication Technology & Media	Contribution to GDP and number of job created[263]	✓ No. of Bhutanese employed (IT/ ITES) by gender	Ministry of Information and Communications	
Goal 13. Take urgent action to combat climate change and its impacts					
13.3 Improve education, awareness-raising and human and institutional capacity on climate change mitigation, adaptation, impact reduction and early warning	Hydromet	Improved availability & access to reliable, high quality hydro-meteorological data[166] Delivery of hydrological and related environmental information & services to the public, government and other users enhanced[158]	✓ Central Data base system with GIS (Nos) ✓ Access to online hydrological information (%)	Ministry of Economic Affairs	

Diagnostic Tool: SDG Profile

#	Policy Area/ Sector	SDG-1: Poverty					SDG-2:Hunger					SDG-3: Health									SDG-4: Education							SDG-5: Gender						SDG-6: Water and Sanitation					
		1.1	1.2	1.3	1.4	1.5	2.1	2.2	2.3	2.4	2.5	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.1	4.2	4.3	4.4.	4.5	4.6	4.7	5.1	5.2	5.3	5.4	5.5.	5.6	6.1	6.2	6.3	6.4	6.5	6.6
1.	Education		X^{1}				X^{2}	X^{3}													X^{4}	X^{5}	X^{6}	X^{7}	X^{8}	X^{9}	X^{10}	X^{11}				X^{12}		X^{13}	X^{14}				
2.	Health		X^{15}				X^{16}	X^{17}				X^{18}	X^{19}	X^{20}	X^{21}	X^{22}	X^{23}	X^{24}	X^{25}														X^{26}	X^{27}	X^{28}	X^{29}			
3.	HR Development& Management		X																																				
4.	Employment		X^{30}																																					
5.	Renewable Natural Resources		X^{31}			X^{32}	X^{33}		X^{34}	X^{35}	X^{36}																													
6.	Tourism				X^{37}																			X^{38}															
7.	Trade, Industries & Mines				X^{39}															X^{40}																X^{41}			
8.	Hydropower, Renewable Energy and Hydromet																																						
9.	ICT and Media																																						
10.	Transport																X^{42}																						
11.	Roads & Bridges																																						
12.	Construction				X^{43}																							X^{44}				X^{45}		X^{46}					
13.	Human Settlement and Housing				X^{47}																													X^{48}	X^{49}				
14.	Emerging Social Challenges	X^{60}		X^{61}	X^{62}				X^{63}	X^{64}															X^{65}			X^{66}	X^{67}	X^{68}		X^{69}		X^{90}	X^{91}				
15.	Sports														X										X^{83}		X^{84}							X^{86}	X^{88}				
16.	Preservation and Promotion of Culture		X^{87}																		X^{88}						X^{89}												
17.	Conservation of Environment																																			X^{70}		X^{71}	X^{72}
18.	Good Governance																							X^{73}				X^{74}											

SDG targets addressed by multiple sectors

SDG targets addressed by one sector

SDG targets not addressed

Profile per 5 Ps of the 2030 Agenda

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Policy Document Analysis						
Goal #	Short Title	#Targets	#Targets Covered	#Targets w Indicators	%Targets Covered	%Targets w Indicator
1	No Poverty	5	3	3	60%	100%
2	Zero Hunger	5	3	2	60%	67%
3	Good Health and Well-being	8	4	2	50%	50%
4	Quality Education	7	1	1	14%	100%
5	Gender Equality	6	4	3	67%	75%
6	Clean Water and Sanitation	5	3	3	60%	100%
7	Affordable and Clean Energy	3	2	2	67%	100%
8	Decent Work and Economic Development	7	7	4	100%	57%
9	Industry, Innovation, and Infrastructure	4	3	1	75%	33%
10	Reduced Inequalities	4	3	3	75%	100%
11	Sustainable Cities and Communities	3	2	2	67%	100%
12	Responsible Consumption and Production	8	5	2	63%	40%
13	Climate Action	3	2	1	67%	50%
14	Life below Water	7	1	1	14%	100%
15	Life on Land	6	3	1	50%	33%
16	Peace, Justice, and Strong Institutions	6	4	2	67%	50%
17	Partnerships for the Goals	7	2	0	29%	0%

People	45%
Planet	44%
Prosperity	45%
Peace	46%
Partnerships	15%

Diagnostic tool: Visual of Alignment

Balance across 17 SDGs and 5 pillars

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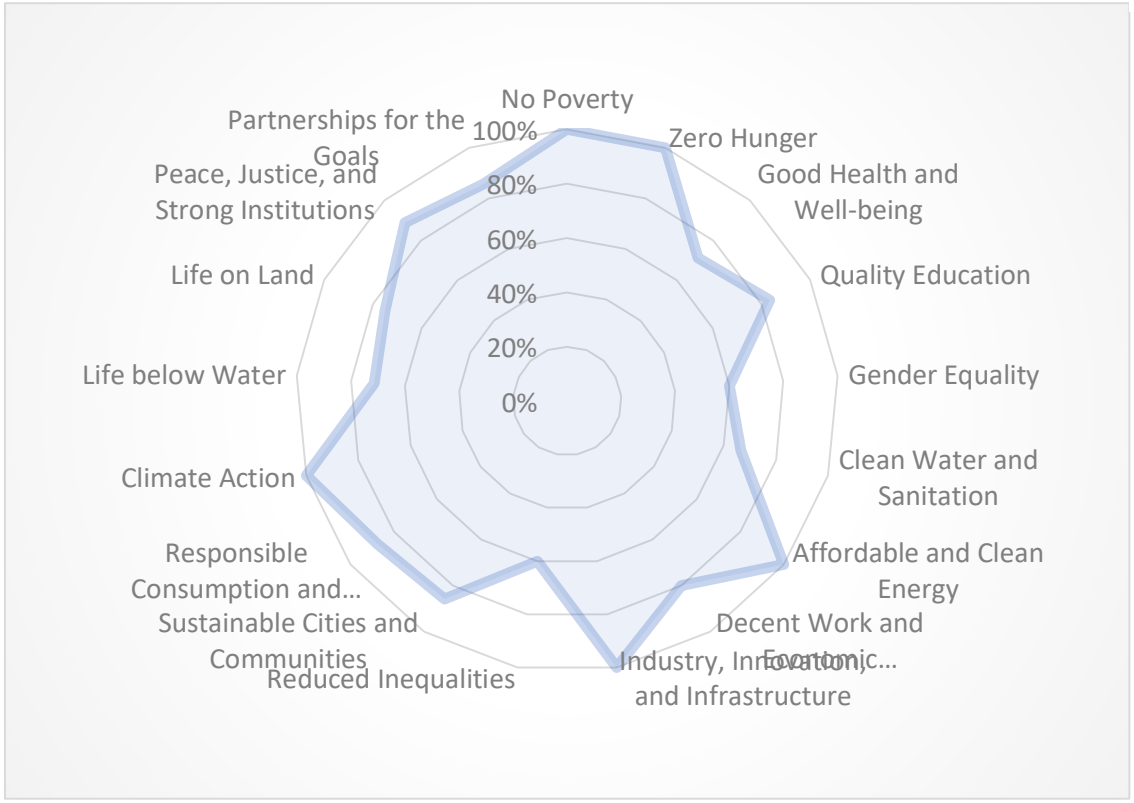

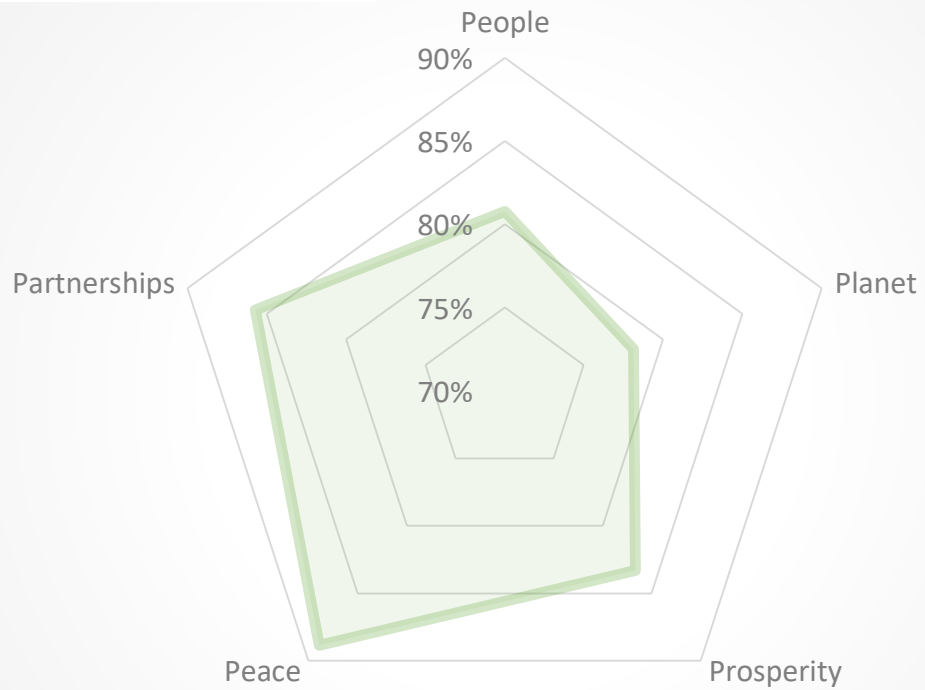

Digital Landscape Survey

130+ countries, 200+ organisations
5500+ participants in training events

Digital Landscape Survey

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Digital Landscape Survey

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- Analysis of current e-governance situation
- Positioning on development levels
- Recommendations
- Input to accelerator and bottleneck assessment
- Possible digital transformation roadmap (in a later phase)

Digital Landscape Survey

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- Analysis of current e-governance situation
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Example: Development levels of digital identity

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Basic level

- Identity register is established
- Unique personal identification mechanism is agreed
- Technical solution for digital signature is deployed

Useful level

- ID token issuing system is established
- A significant amount of citizens have ID tokens
- Digital signature is recognized by law
- Digital identity and digital signatures are used by citizens
- Programs to make digital identities and signatures known and usable for the public are established

Sustainable level

- Secure technologies is introduced
- Trust services exist
- Digital identity is used when communicating with government agencies
- Digital signature is used by citizens in everyday life

ABA Methodology

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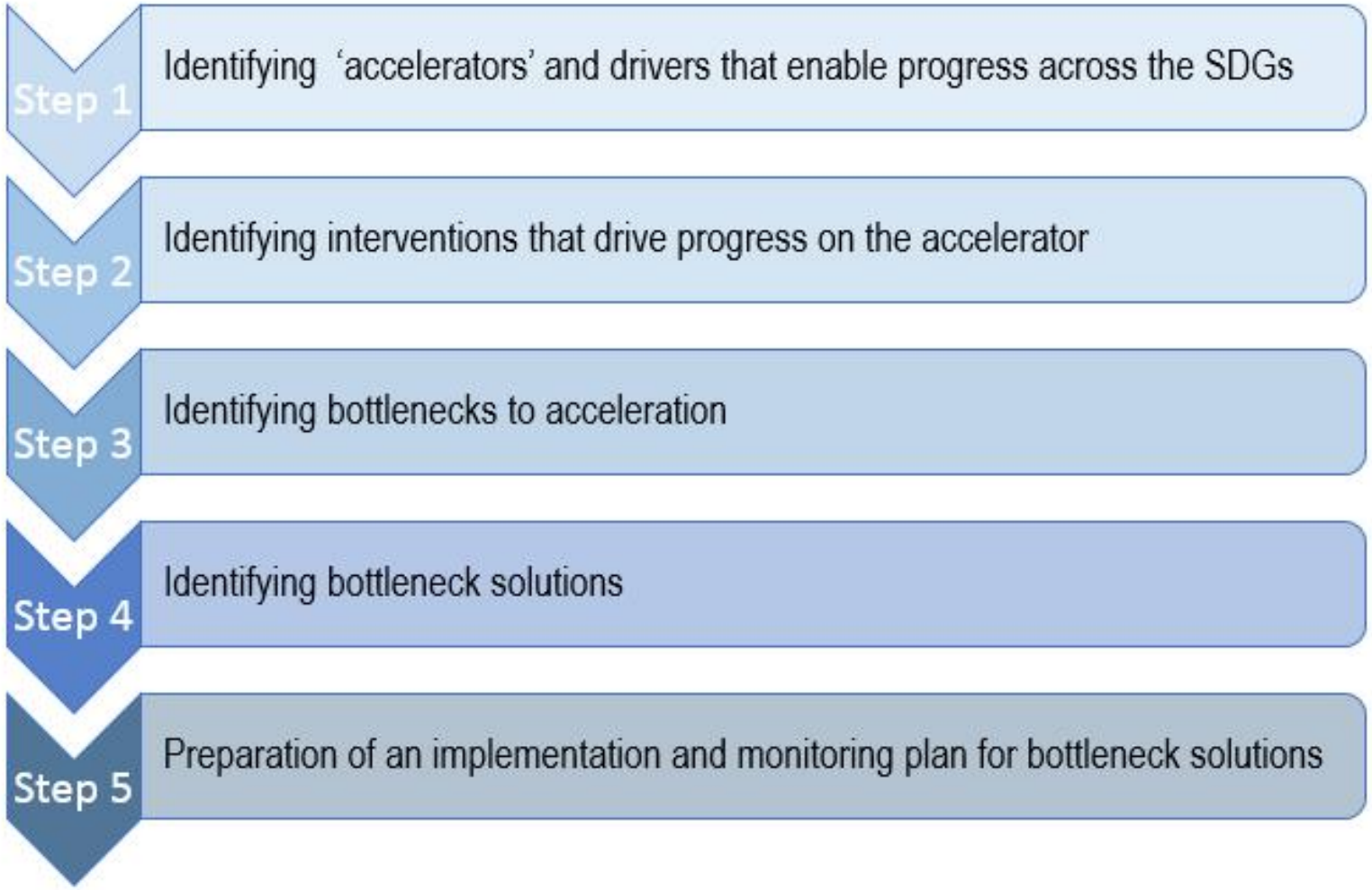

Theory of Change

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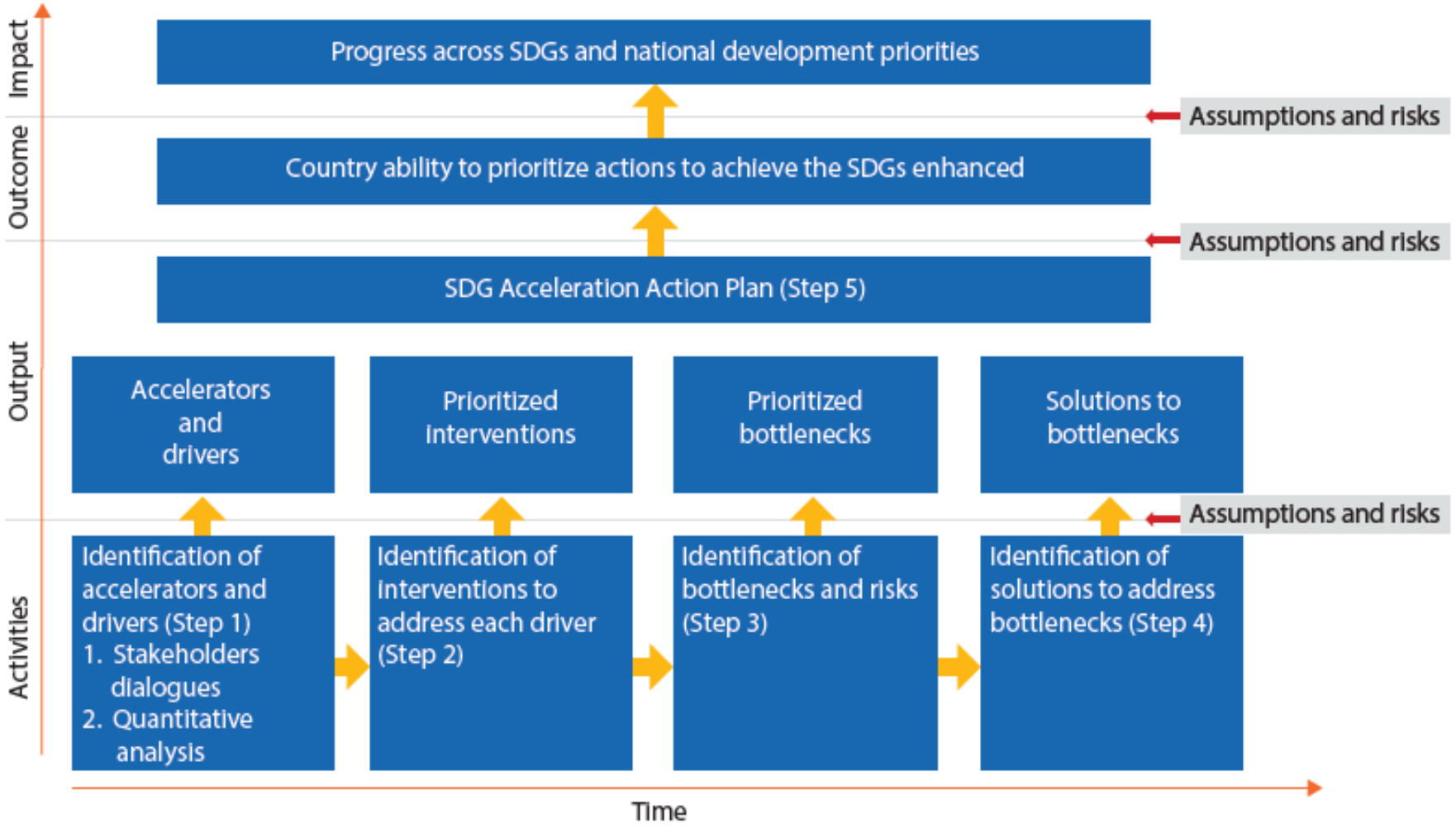

Identifying an accelerator and related challenges

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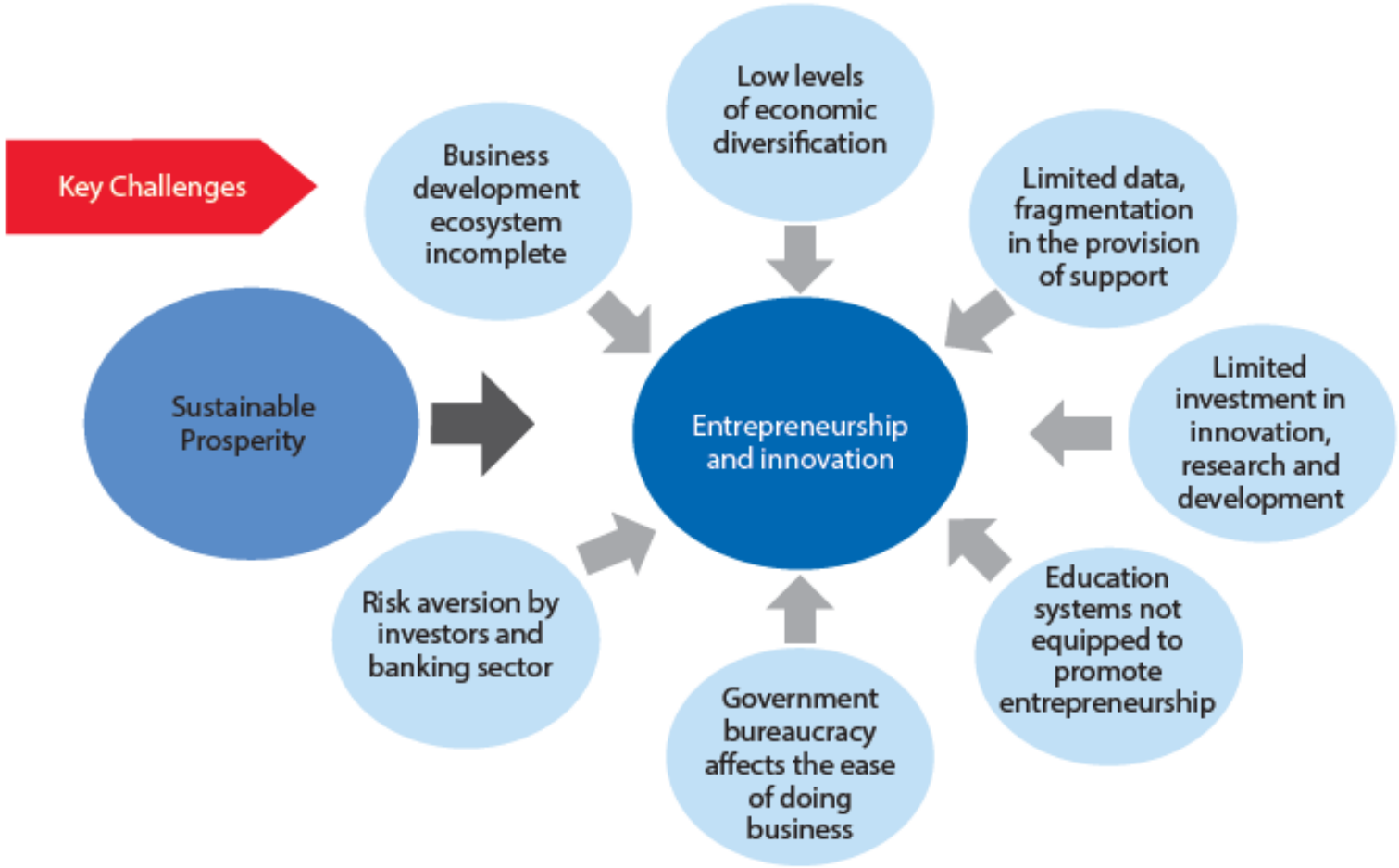

Identifying an accelerator and its drivers

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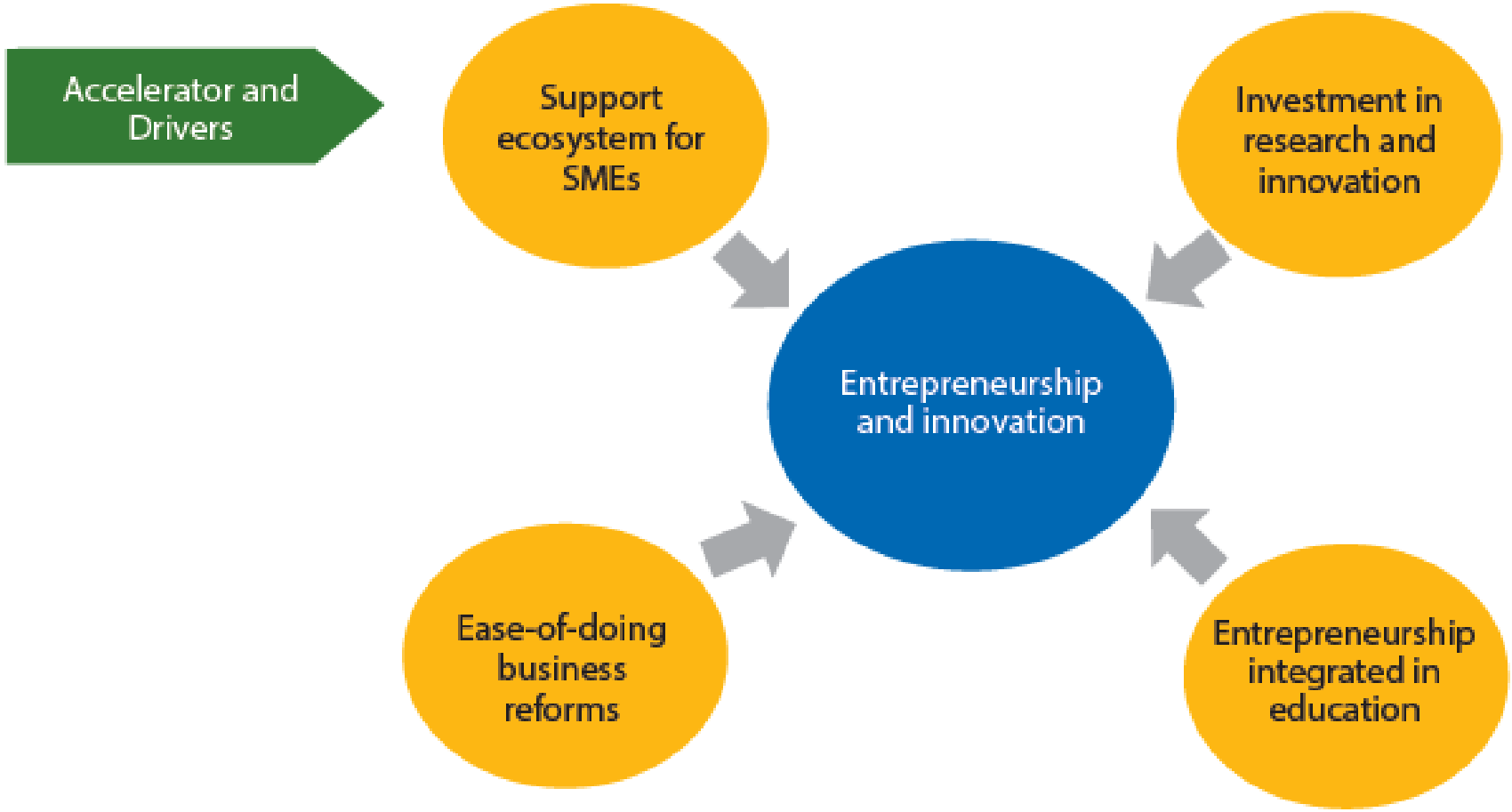

ABA Results

Potential accelerators, drivers and interventions

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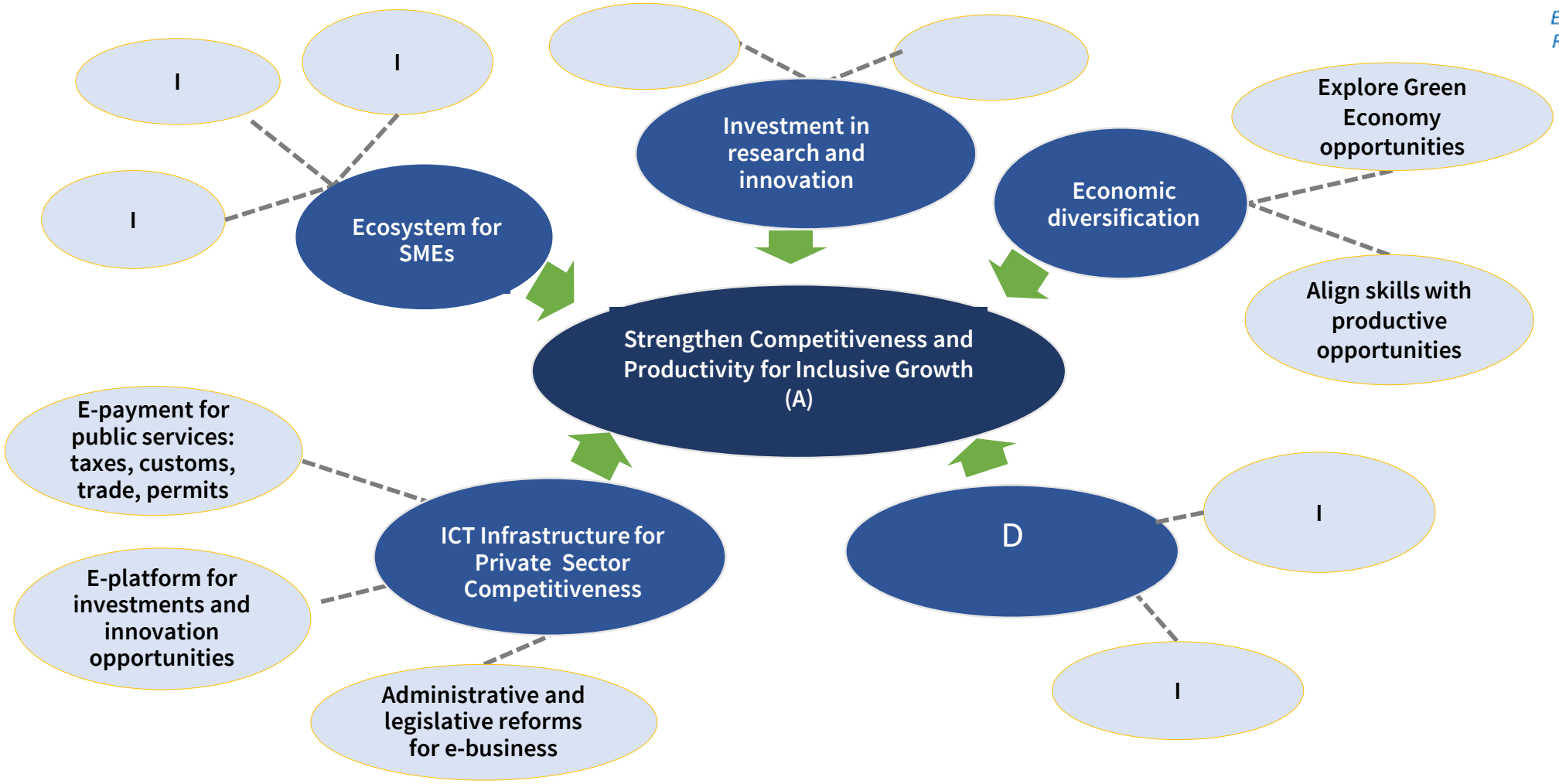
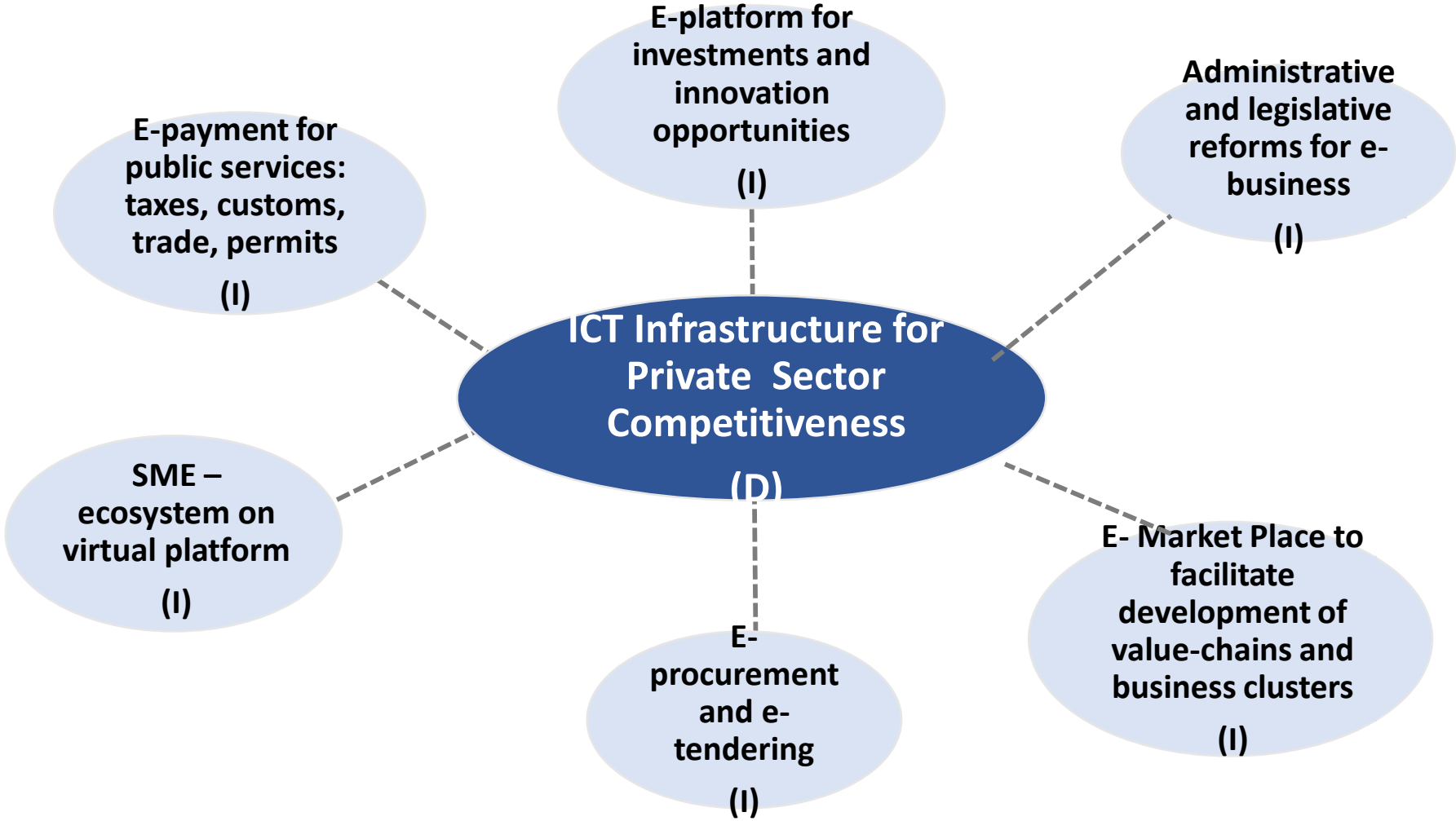


ABA Results

Potential driver and interventions



ABA: Bottleneck Categories

Bottleneck categories	Policy and planning	Budget and financing	Service delivery (supply)	Service utilization (demand)	Cross-cutting
Sub-categories	Political will and concerned interests	Resource mobilization	Geography and demography	Empowerment and self-efficacy	Engagement and advocacy
	Strategies, policies and plans	Resource allocation	Human resources, skills	Acceptability	Coordination and alignment
	Legislation and enforcement	Resource expenditure	Equipment and supply	Accessibility and affordability	Accountability and transparency
	Institutional capacities		Quality and equitability	Inclusiveness (are there barriers for specific groups to access services?)	Communication
	Coordination and alignment		Inclusiveness (are adequate services offered for marginalized groups?)		
	Accountability and transparency				

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ABA Results

Potential driver and interventions

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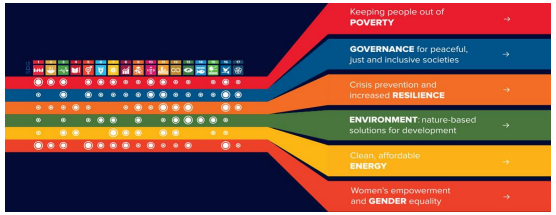

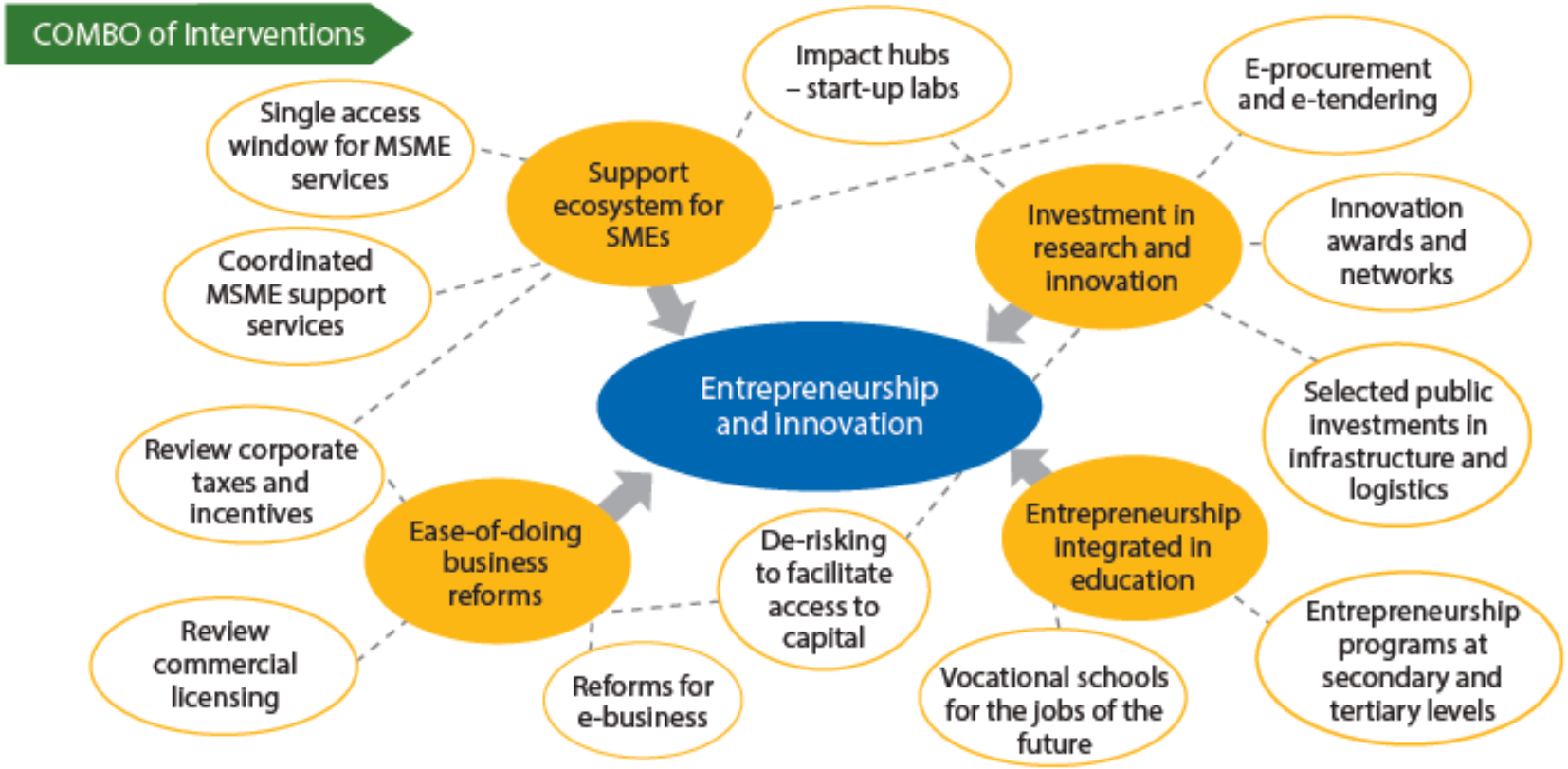

Next Steps

Cooperation and priorities

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- Piloting the diagnostic tool [then finalize report and launch]
  - Introduce pilot at UNGA high-level event
  - Application at city level
- Capacity building, network-building
  - Workshop on the tool and digital transformation approaches
  - Online resources building: e-Courses, tools, networks
  - [City2City network launch]

Dialogue

Q/A/Comments/Insights

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Marit Lani
Project Manager
e-Governance Academy
Tallinn, Estonia
marit.lani@ega.ee

- Minerva Novero-Belec
- Global Policy Specialist
- [Manager, Estonia-UNDP Cooperation]
- UNDP, New York
- minerva.novero@undp.org

Thank you!