Regional Innovation Forum

BRIDGING THE DIGITAL INNOVATION DIVIDE

Fostering Digital Entrepreneurship and Startup Ecosystems

1 - 2 October 2019

Smart Village, Cairo, Egypt





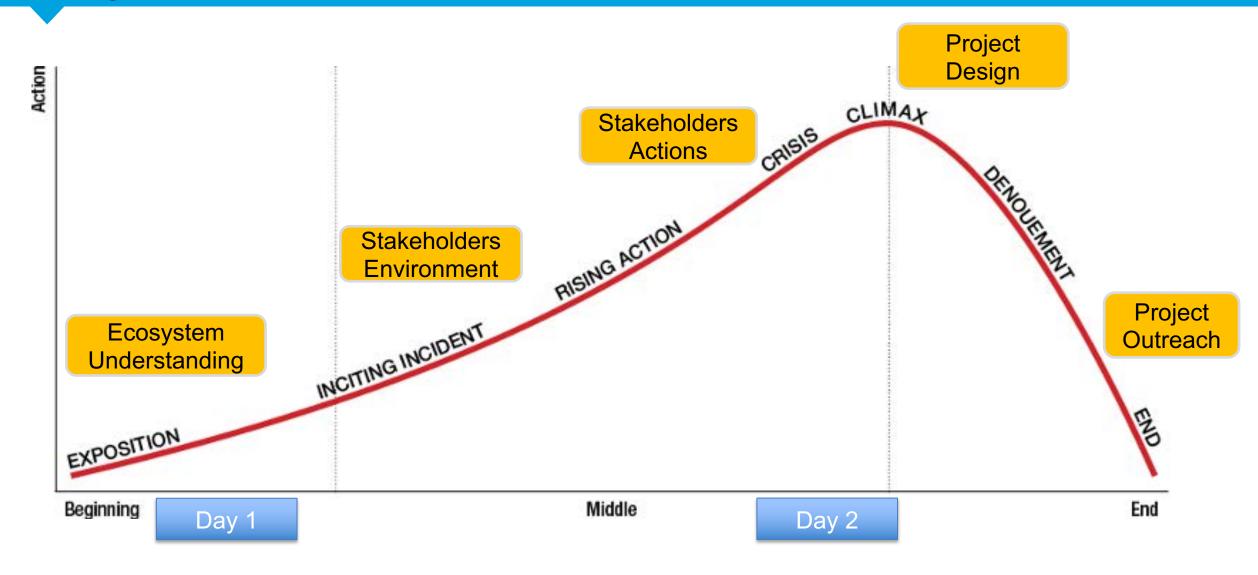
What is the relationship between entrepreneurship, innovation, trading and creativity?

Thoughts and reflections





Agenda



ITU Innovation



Accelerate Digital Transformation

Mission

To "bridge the digital innovation divide (gap) through strengthened ICT ecosystems that are vibrant, innovation driven and supportive of job creation, development of innovative businesses, and the growth of small and medium enterprises, as well as inclusive of all economic sectors and aligned to national development."

Vision

To achieve a sustainable digital transformation of society and inclusive economic growth.





REGIONAL REPORT | EUROPE

Accelerating Digital Transformation: Good practices for developing, driving and accelerating ICT centric innovation ecosystems in Europe



POLICY TOOLKIT - IN SIX LANGUAGES

Bridging the digital innovation divide:

A toolkit for strengthening ICT centric ecosystems



DIGITAL INNOVATION PROFILE

SERBIA

ICT centric innovation ecosystem Snapshot



COUNTRY REVIEW

ICT centric Innovation Ecosystem Country Review MOLDOVA

Initiatives

Launch of the African Digital Transformation centre initiative in Durban, South Africa -September 2018



Knowledge sharing



Champions and Good Practices

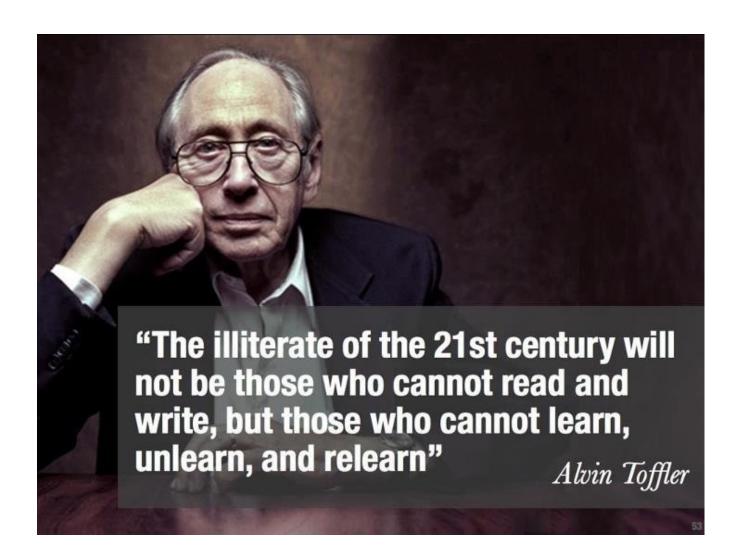


CASE PRESENTATIONS



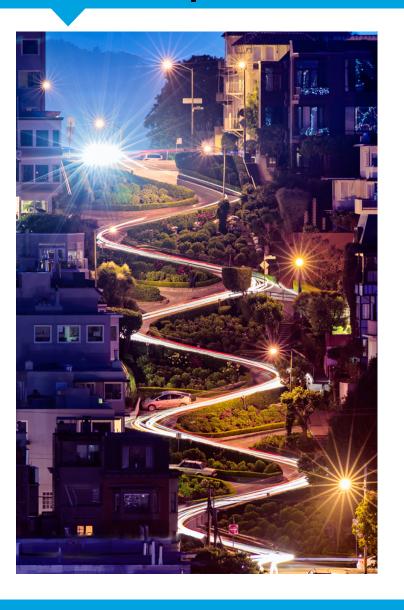
Session 1:

Understanding the Digital Innovation Divide





Competitiveness of communities







Impact of a globally connected world





Can current innovation undermine future incentives to

Credits: Andrew Wyckoff and Dirk Pilat Directorate for Science, Technology and Innovation, presentation at European Political Strategy Centre, 5 May 2017, Brussels

Innovation@ITU-D





WhatsApp: 300 M users, 50B message/day, 55 employees

For example: Scale without Mass



Netflix: USD8.8B revenue, 3500 employees



Dropbox: 500M users, 1.2B files stored/day, 1200 employees

Challenges policies that target firms by measure of mass (e.g. employees) as well as competition policy, may contribute to productivity divergence across firms









ICT vs Manufacturing



Alphabet:

Operating revenues: 90,272,000 Th. USD

Employees: 72,053

Ratio: 1253 Th. USD per employee

Facebook:

Operating revenues: 27,638,000 Th. USD

Employees: 17,048

Ratio: 1621 Th. USD per employee

Source: ORBIS, Bureau Van Dijk. Data refers to 2016

Volkswagen:

Operating revenues: 237,564,000 Th. USD

Employees: 626,715

Ratio: 379 Th. USD per employee

Johnson & Johnson

Operating revenues: 71,890,000 Th. USD

Employees: 126,400

Ratio: 568 Th. USD per employee

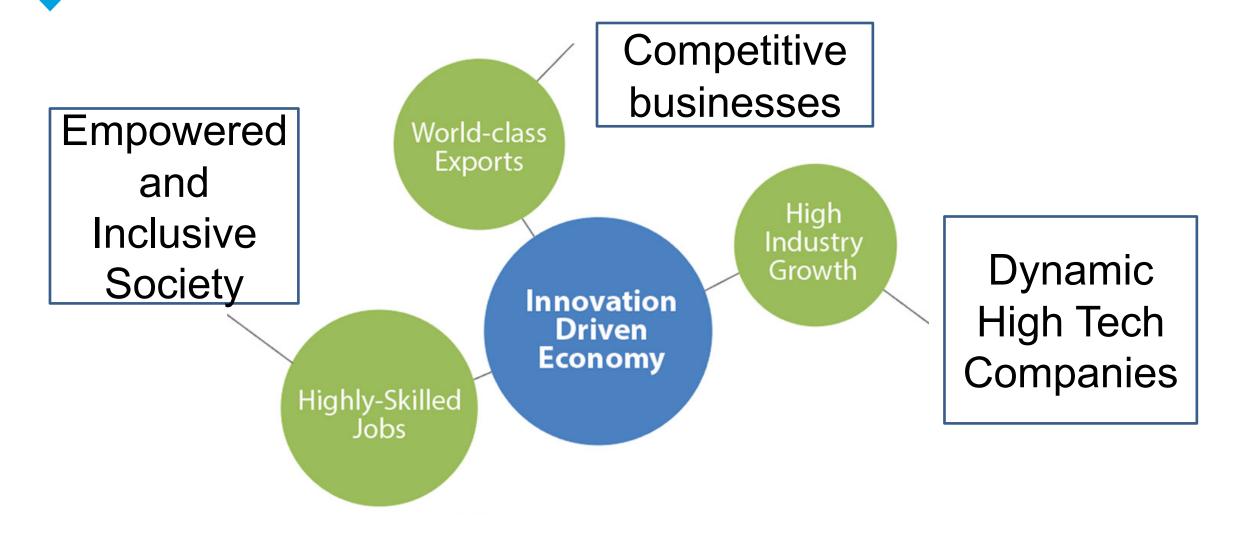
Champions of productivity or simply Scale without Mass?



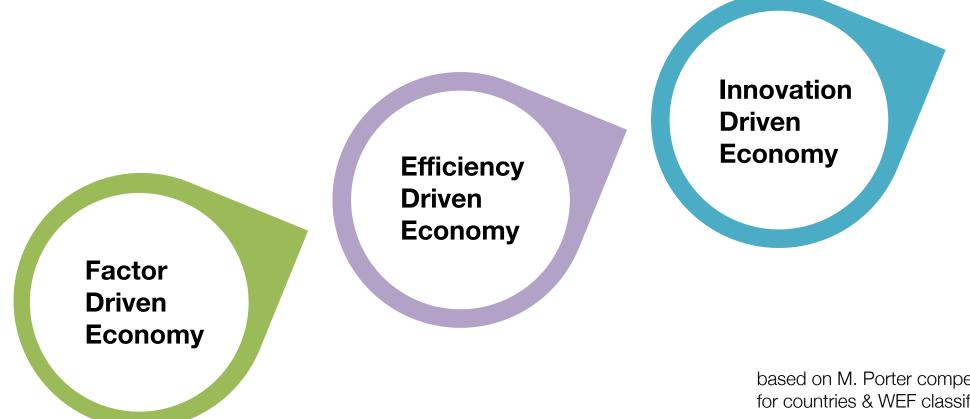




The desire for competitive jobs and inclusive growth



There Is Always A Risk To Be Left Behind

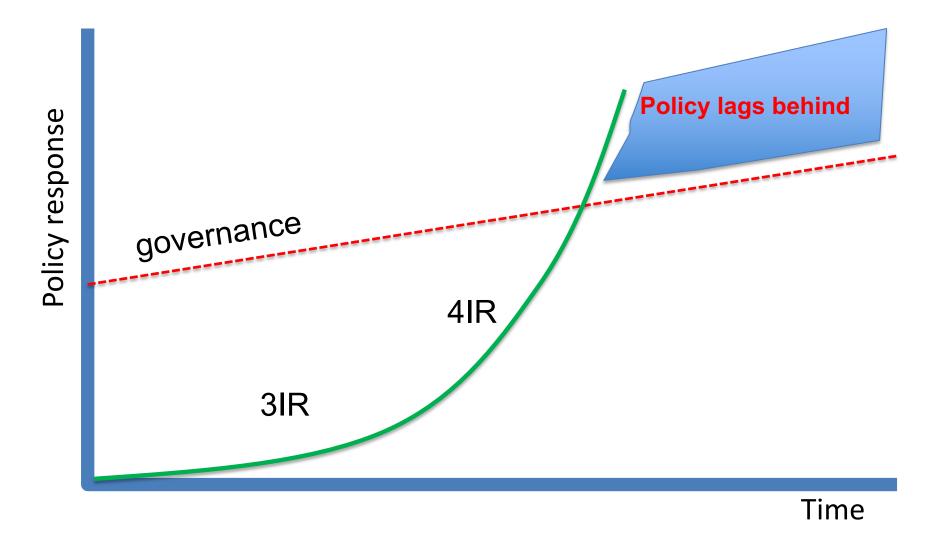


based on M. Porter competitive strategy for countries & WEF classification

Source: ITU

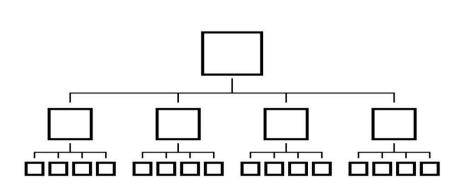


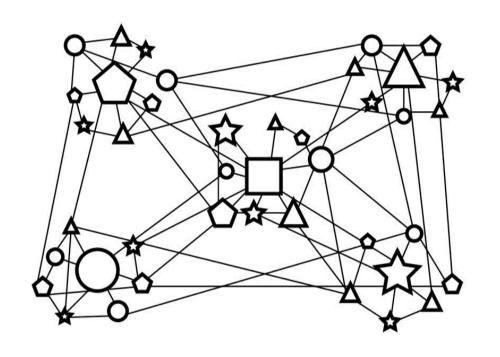
Increasing complex technology vs. policy response





Our organizations have the DNA of 3rd Revolution structures

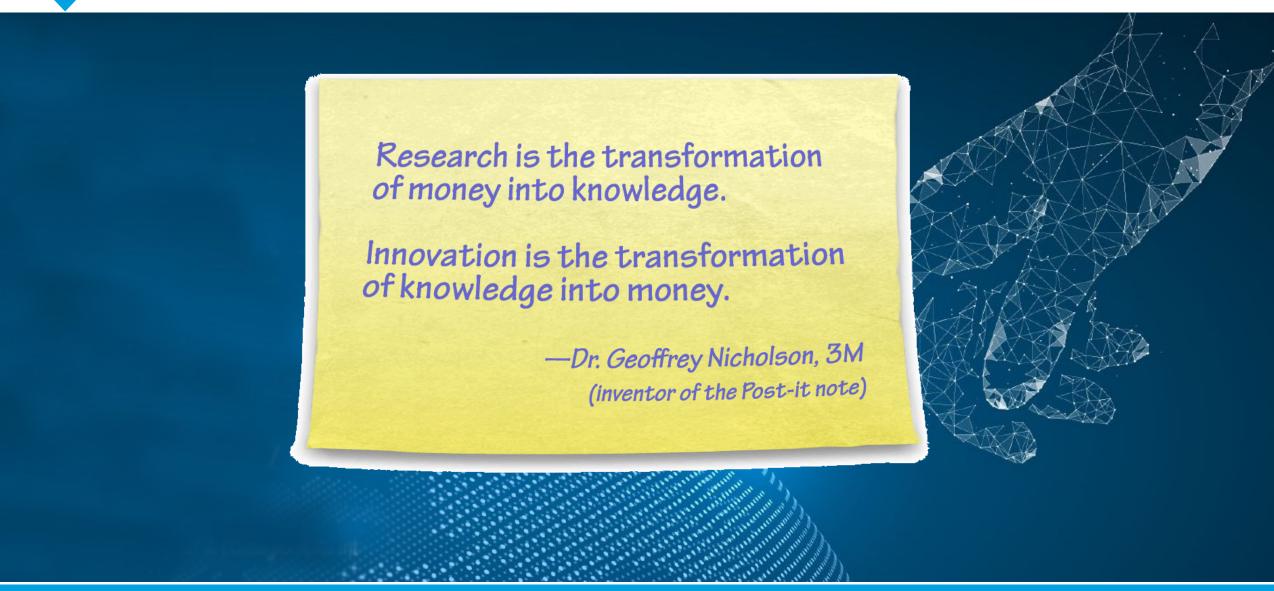




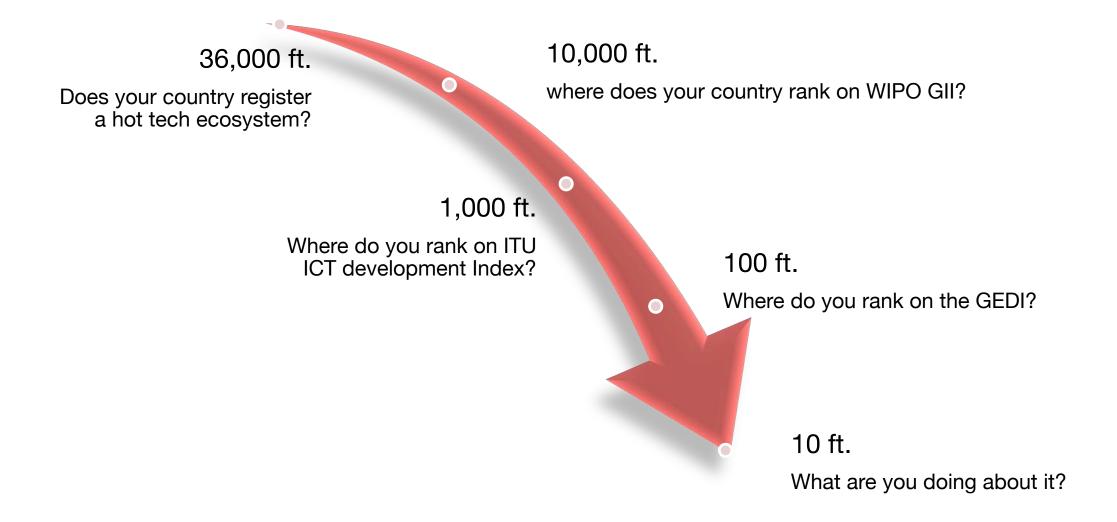
Can we handle it?



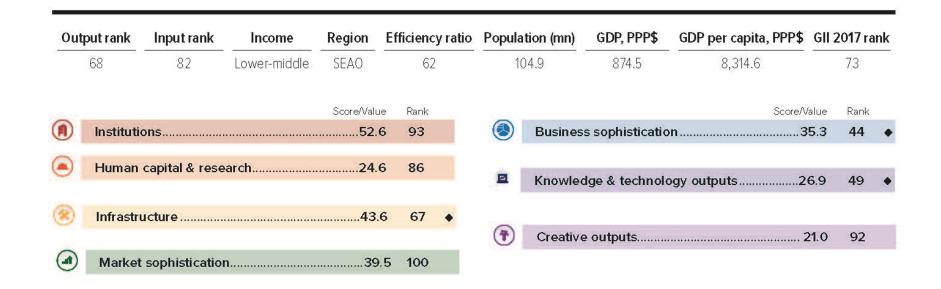
You need a proper diagnosis of your capabilities



What is the Nation's performance?



Global Innovation Index



Efficiency 0.62



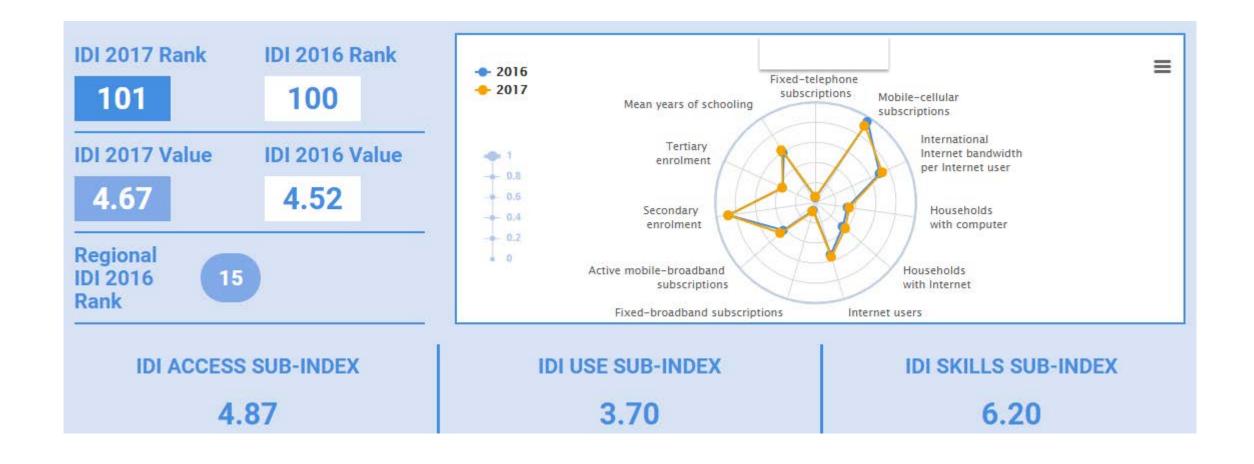
Global Competitiveness Index



Source WEF 2018



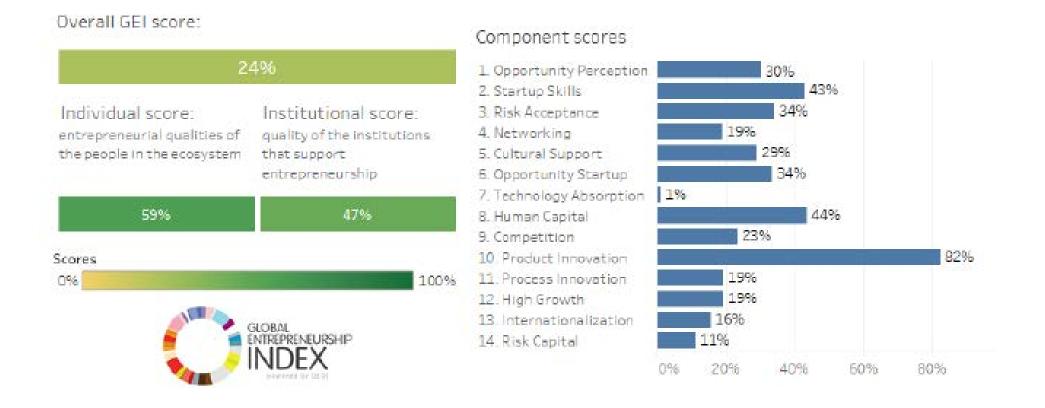
ICT Development Index



Source ITU 2017



Global Entrepreneurship Development Index

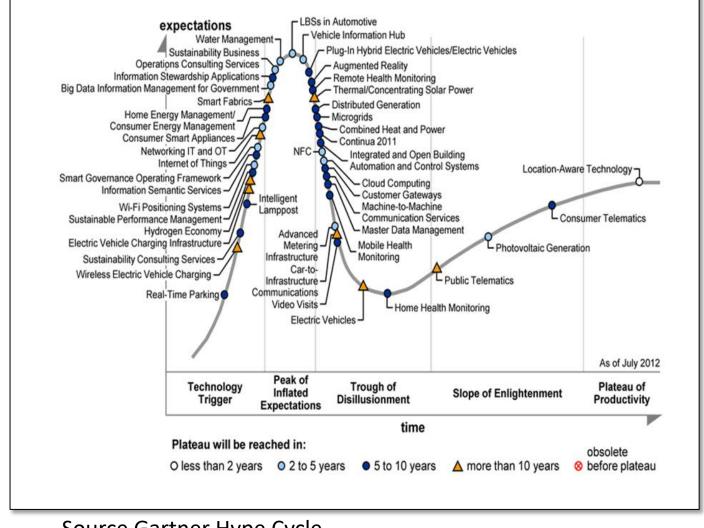


Source: Global Entrepreneurship Network 2017-2018



Technology is always changing

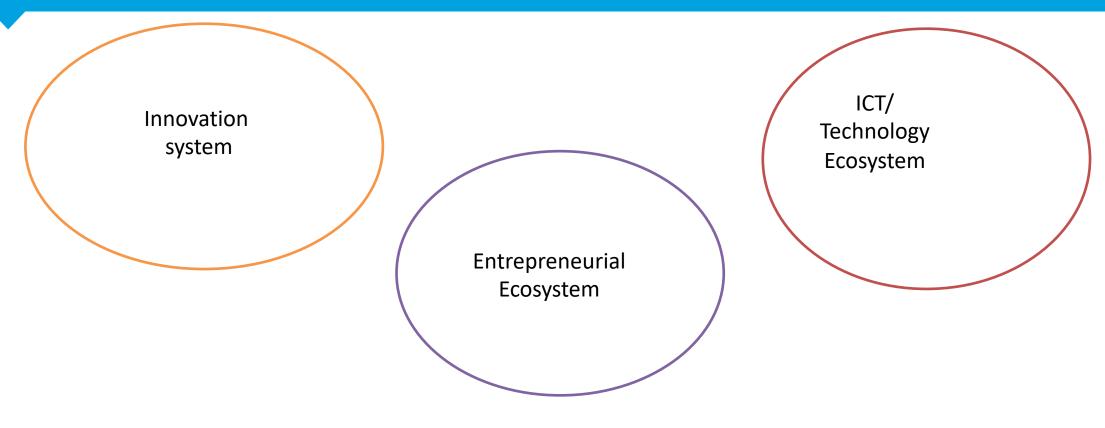
To navigate it, an ecosystem of stakeholders need to absorb it and solve the problem of the country



Source Gartner Hype Cycle



Three growth engines must come together to address issues



Stakeholders















Symptoms of misaligned engine of growth















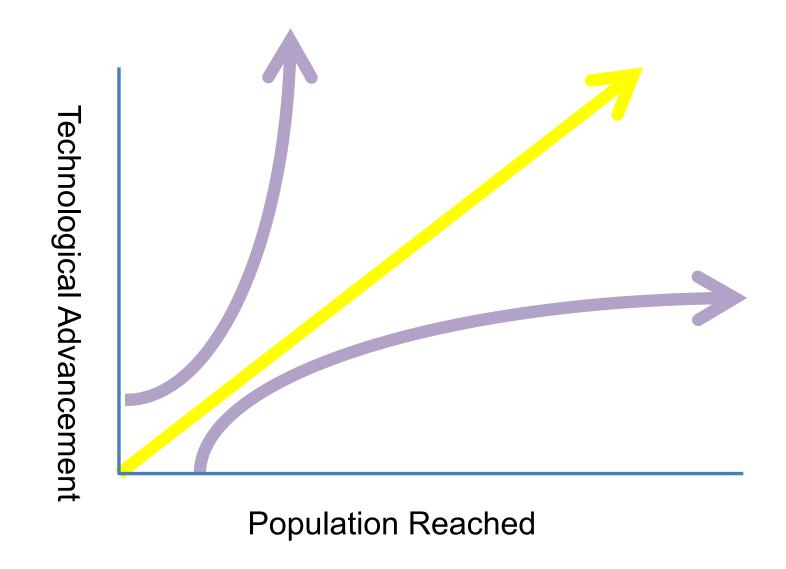








Technology absorption capacity is key



Source: ITU



Stakeholders in the ecosystem are struggling

Public Sector

"Here, people would rather buy foreign than create their own solutions."

8

Academia

"We need to stop teaching what children can find on Google."
"It might be a good idea if university professors can work with the private sector for three years to exchange knowledge"



Entrepreneurs

"We are not taught to be the owner of something at the education level. This is the reason most of us end up work for others."



Entrepreneurial Support Network

"The local companies don't invest in R&D. They also don't train people. So starting engineers can be liabilities!"



"If we compare ourselves to our neighbours, there are leading in fostering networking. Their governments are more supportive than ours."

Private Sector

"Our culture is receptive to change and is catching up on the latest trends. However, if we don't begin to invest enough in ICT research or produce a good pool of Next Gen with ICT knowledge, we will lag in competition."





Finance

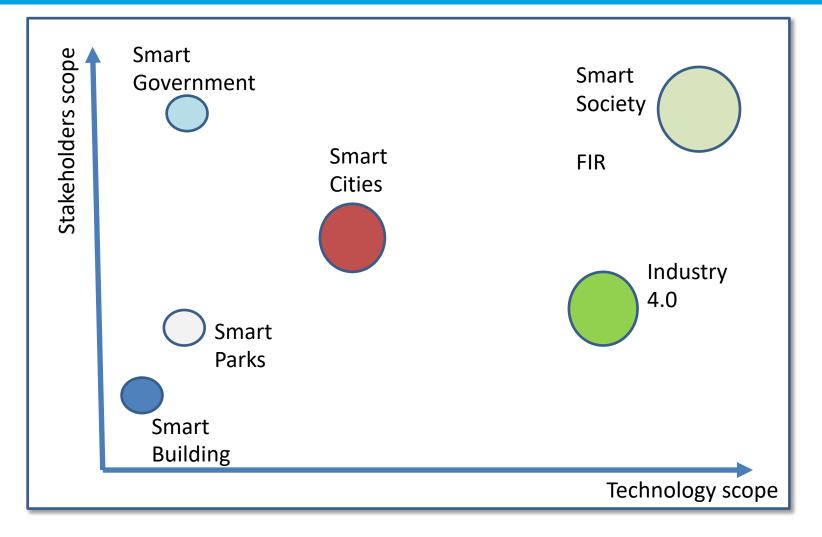
"There are a lot of government funds available for entrepreneurs but no right mechanism to filter through the start-ups to fund the deserving ones."

Source: ITU country review



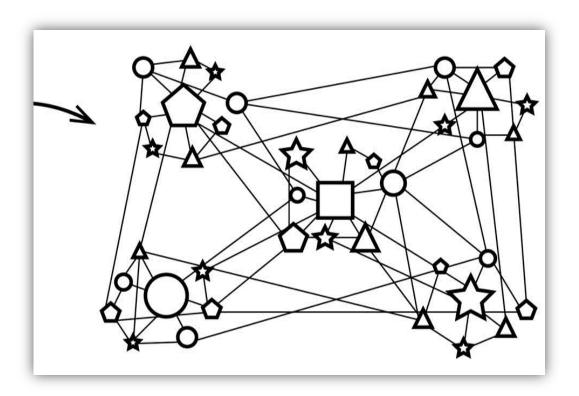
They may have different visions but the mission is same

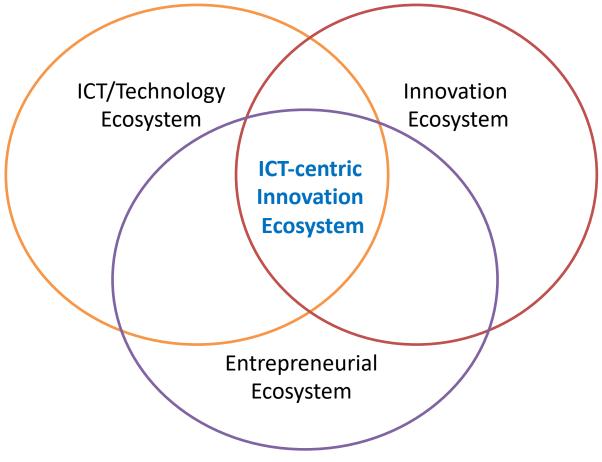
Mission:
Sustainable
Digital
Transformation
of Society





They need new paradigms

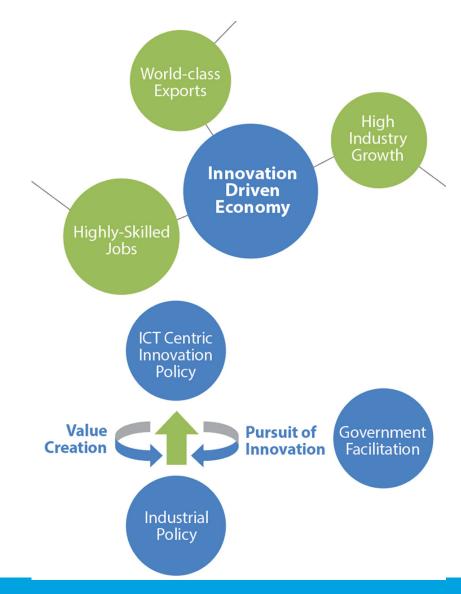




A Platform for partnership in the digital ecosystem



The key is the ecosystem





A Common Language

"An innovation is the implementation of a new or significantly improved product (good or service), or process, a new marketing method, or a new organizational method in business practices, workplace organization or external relations."

Source: OCED, Oslo manual

"Digital transformation is what happens when innovation is applied to solve problems through the use of ICT/telecommunication technology.

The benefits to a country and its people are immense: significantly increased productivity, economic growth and greater employment opportunities."

Source ITU

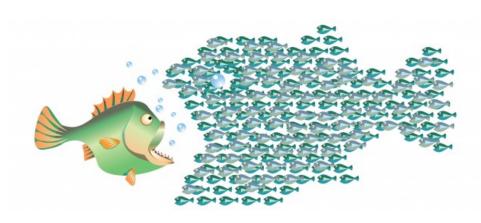
"An ecosystem is a system or network of interconnecting and interacting organizations and stakeholders, from multiple sectors, who come together and address the problems people are facing within their communities."

Source ITU



Change is inevitable

Your Ecosystem



A stronger Connected Ecosystem







Thoughts and reflections

• What is threatening the dreams in your environment?



SESSION 1 – KEY TAKEAWAY

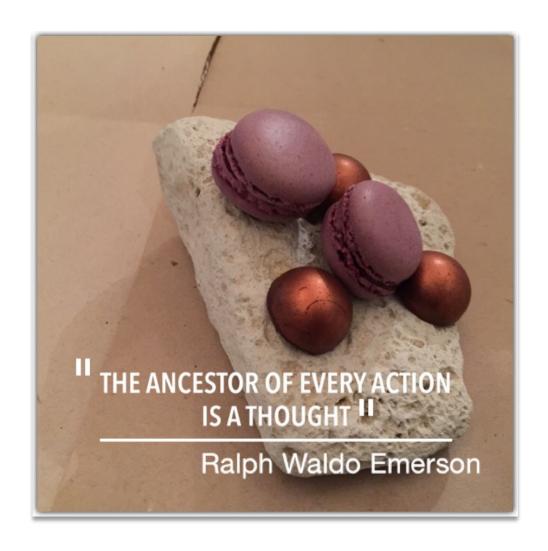
Understanding the innovation divide & its challenges

- Pros and Cons of each case studies
- Basic understanding of the innovation divide
- Basic understanding of the ecosystem



Session 2:

How to make Digital Innovation Work





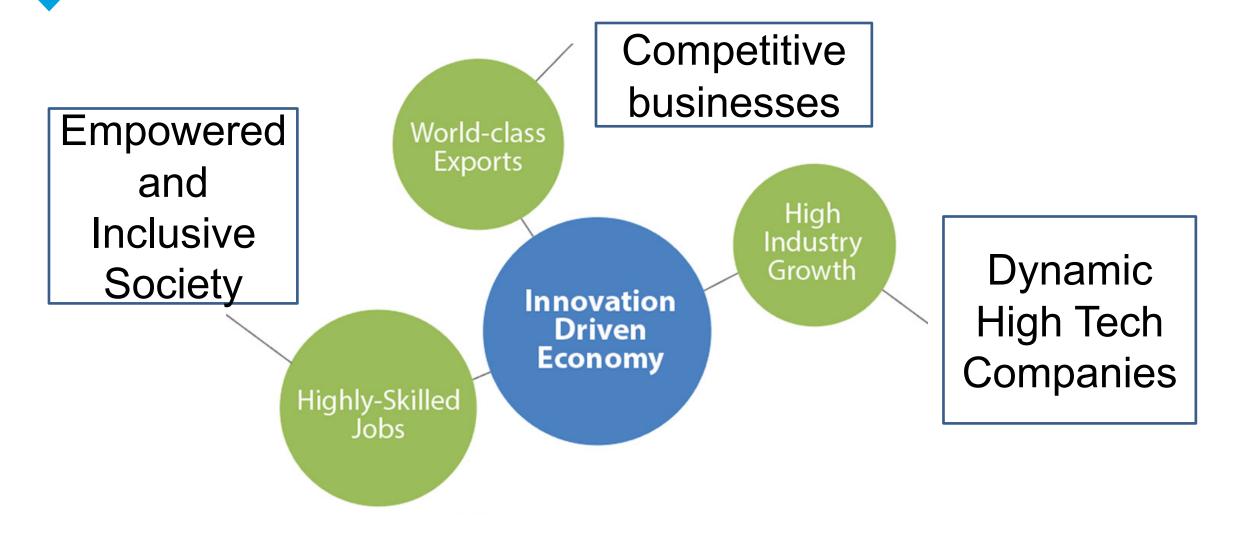
Enablers For Digital Transformation

PILLARS Vision & **Market Capital W** Talent **Culture Policy** Infrastructure Strategy Comprehensive Integration of **Inclusive digital** Sustainable Scope and **Appropriate** Talent appropriobjectives **Demand side** infrastructure culture of enand grassroots economic ateness trepreneurship innovation polisectors resources and innovation cies & programs Resilient & se-**ISSUES** cure broadband Infrastructure **Communities Aligned Digital** Continuum of Market access **Champions** Legal domestic and frameworks strategies Supply side international resources Soft infrastructure

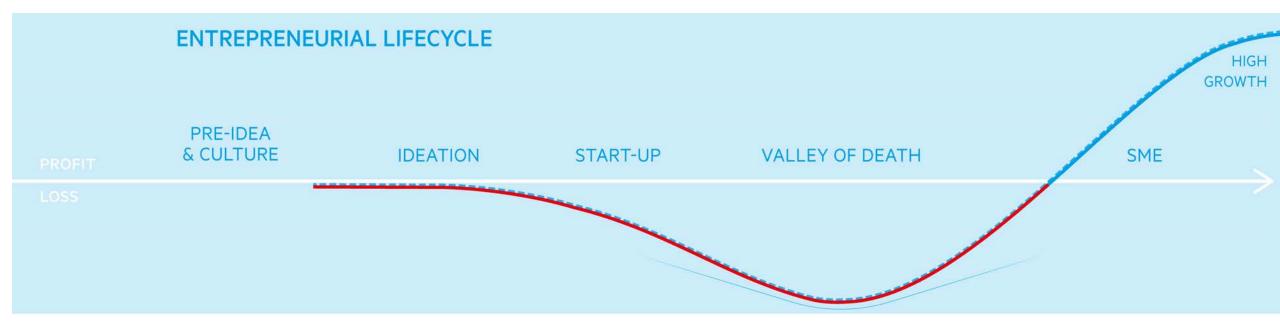
All stakeholders in the ecosystem need to understand their potential for making a difference, as well as their very real capabilities – as they engage in digital transformation.



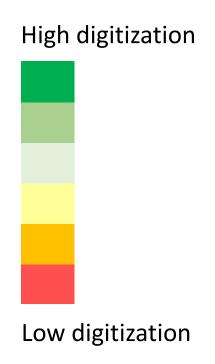
Why Is It Important to you?



The Job To Be Done



The Opportunities Are Endless



Source adapted from Mckinsey Global Institute report : Digital America

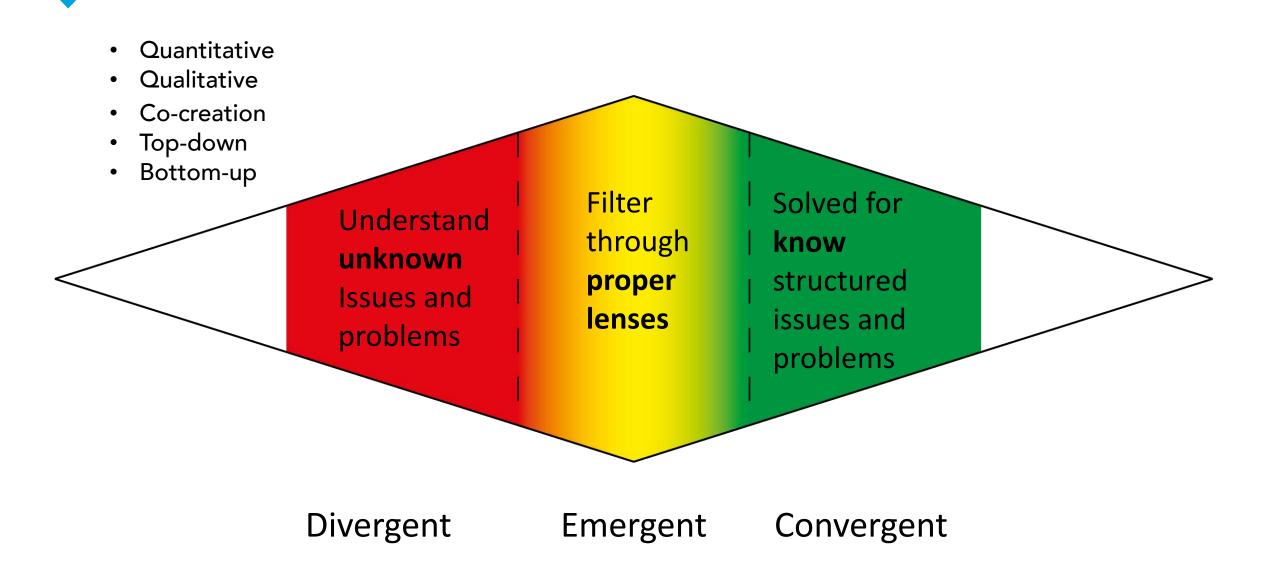
SECTOR DIGITIZATION ICT Media **Professional Services** Finance and Insurance Wholesale Trade Advanced Manufacturing Oil and Gas **Utilities** Chemicals and pharmaceuticals Basic goods manufacturing Mining Real Estate Transportation and warehousing Education Retail trade Entertainment and recreation Personal and local services Government Health care Hospitality



Agriculture and hunting

Construction

Solving Complex Problems is Hard





The 4 Inhibitors of An Innovation Culture

Inability to manage hierarchies to align priorities and rewards



Wrong communication approach to persuade

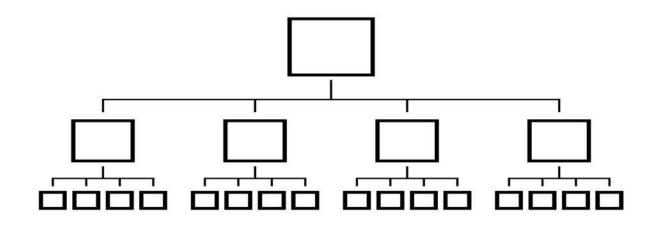


Strong **tensions** between stakeholders



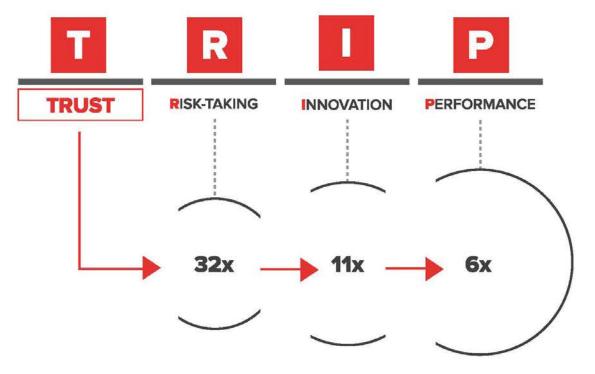
Lack of efficient informal and formal **networks** to drive change







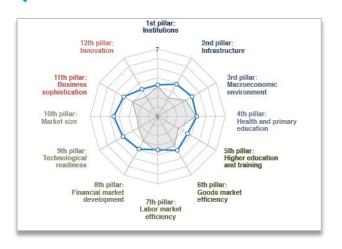
Agile Based Organization Are Self-Organizing And Better Performers

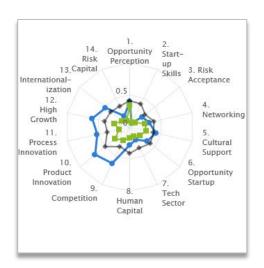


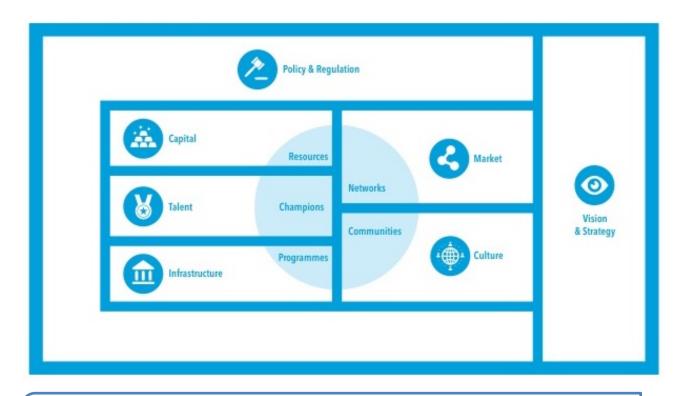
Self organizing, source How Report, LRN 2016



Assessing An Environment For Digital Transformation Readiness



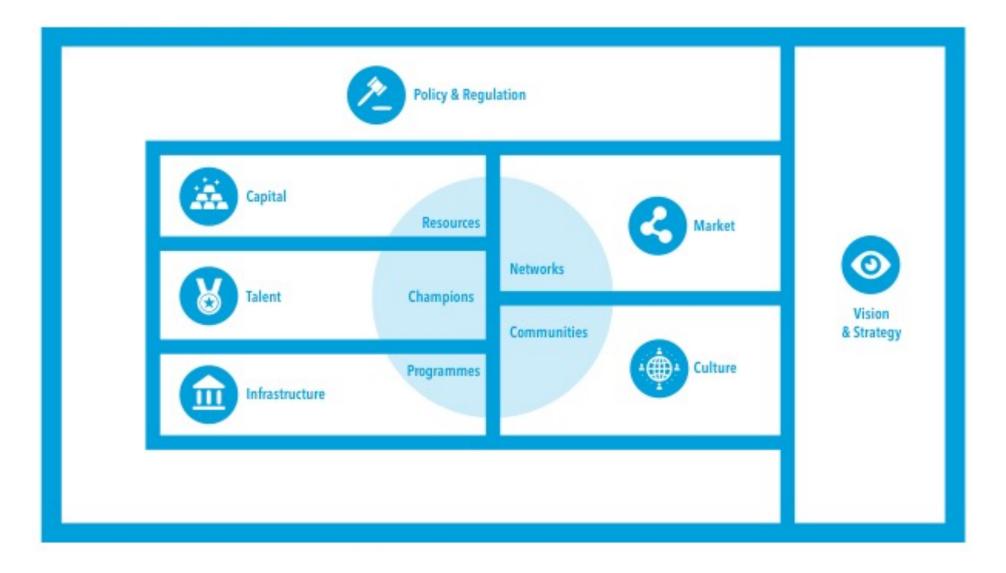




Leading or lagging indicators?



Understanding Their Environment



Source: ITU



Understanding Stakeholders Actions

"People run in different directions, there is no common strategy to my knowledge"

Source: ITU country review-Ecosystem Maturity Map

Entrepreneurshin Pre-Idea

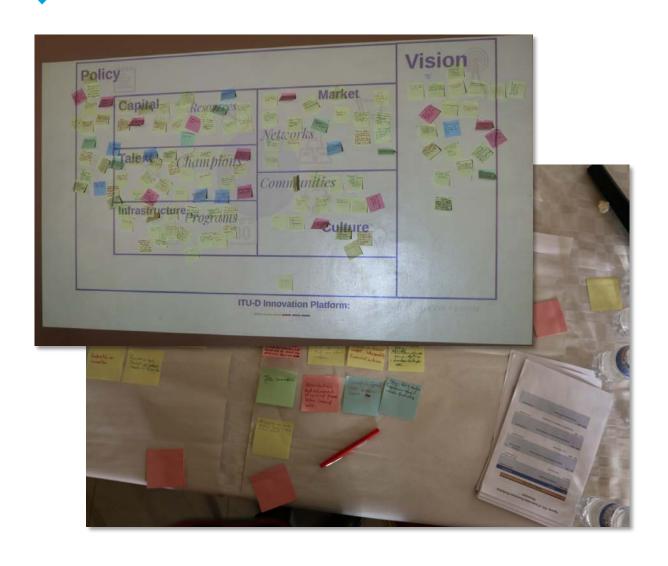
Phase	1 10 1000	Ideation	Otartap	Death"	OIVIL
Entrepreneurs	Entrepreneurial Interest	Engage with problems	Develop Business Models	Build Collaboration	Expand
Finance	Research Funding	Seed Funding	Angel Investment	Venture Capital	Business Finance & Loans
Entrepreneurial Support	Entrepreneurial Events	Hackathons & Competitions	Co-working & Support	Incubators & Accelerators	Business Association
Private Sector	Success Stories	Research Programs	Lab programs	B2B & Support Services	Skill Training Programs
Academia	Entrepreneur Community	Basic Research	Spin Offs	Soft skill trainings	Human capital
Public Sector	Vision & Strategy	IP & R&D Support	Tax Support	Public Procurement	Trade Policy

Startun

The "Valley of

SME

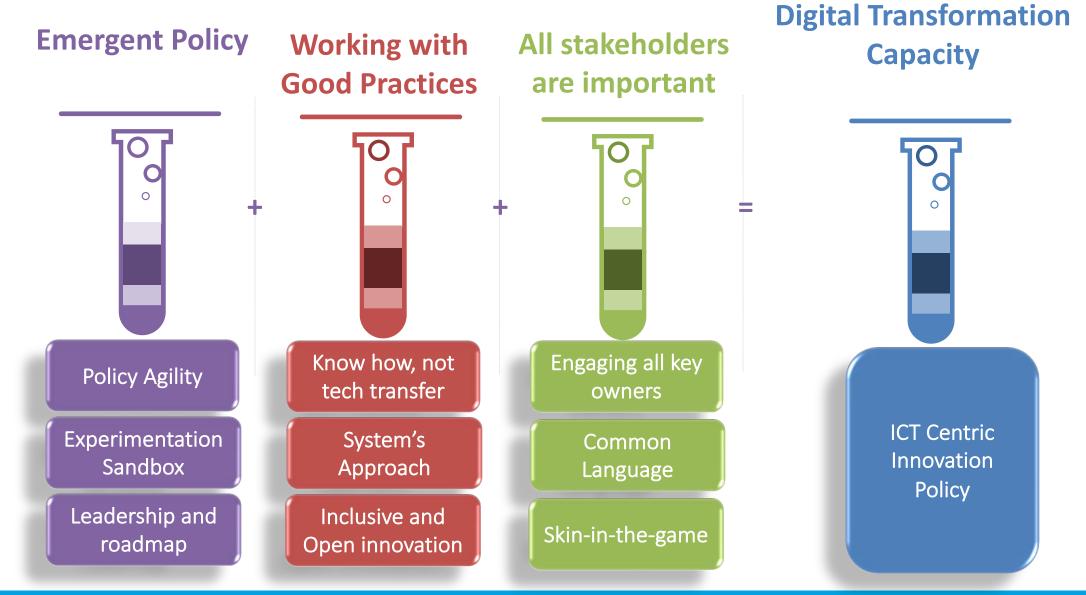
New Principles Are Needed To Navigate Change



- User centric approachPrivate sector led Innovation
- ☐ Efficient resources utilization (e.g. find and invest in working good practices)
- ☐ Replicable every year with fast changing ICT context
- ☐ Common language between all stakeholders (e.g. common understanding)
- Everyone should have skin in the game (e.g. engaged)
- ☐ Sustainable and predictable (e.g. Stability),

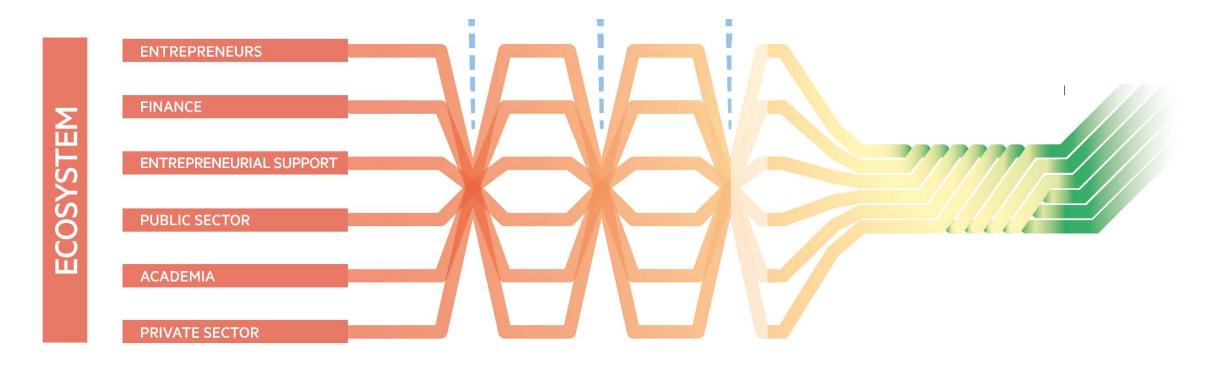


New Policy Paradigm Needed





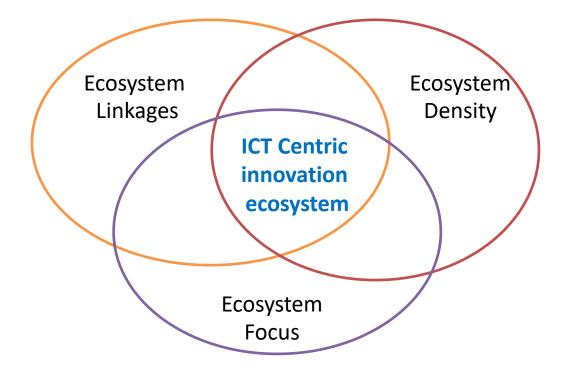
The Next Frontier Is All About Nurturing Ecosystems







KEY TO A WIN-WIN



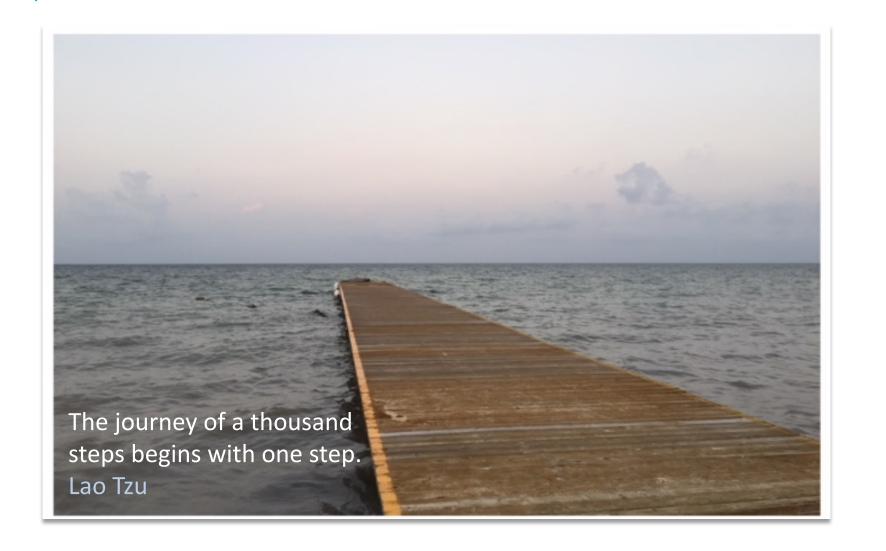


SESSION 2 – KEY TAKEAWAY

UNDERSTANDING ACTORS & INTERACTIONS

- Common Language on Innovation
- Systems of Innovation
- Innovation Capacity
- Innovation Inefficiencies
- Innovation Principles
- Ecosystem
- Stakeholders
- Avoiding Bad Practices





For more information

Mohamed Ba (LinkedIn: Moe Ba)
innovation@itu.int

Innovation.itu.int

