



DIGITAL TRANSFORMATION ROLE  
IN REALIZING THE SUSTAINABLE  
DEVELOPMENT IN EGYPT

CSTD Inter-Sessional Panel Meeting  
**The impact of rapid technological change  
on sustainable development**

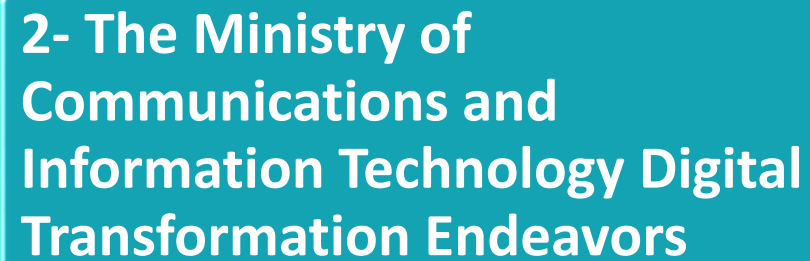
Vienna , 15-19 January, 2019

# Agenda

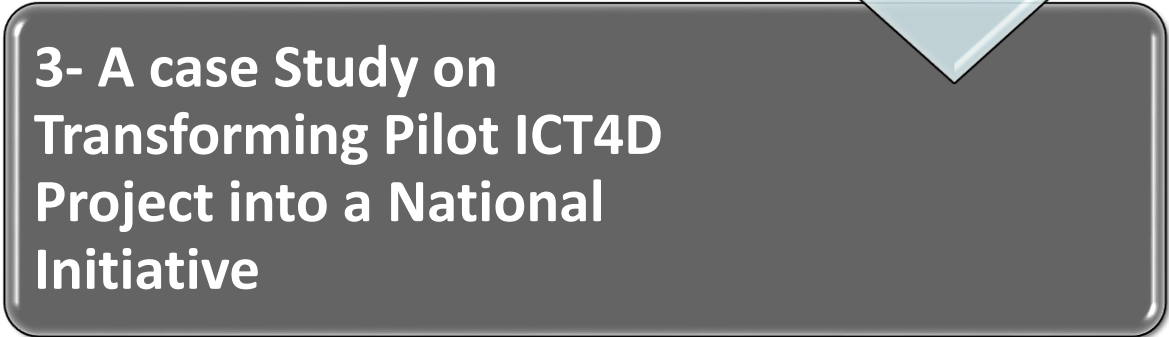
**1- Egypt's Sustainable Development Strategy (SDS) and the Global Goals (SDGs)**

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**2- The Ministry of Communications and Information Technology Digital Transformation Endeavors**

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**3- A case Study on Transforming Pilot ICT4D Project into a National Initiative**

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# 1- Egypt's Sustainable Development Strategy (SDS) and the Global Goals (SDGs)

# Egypt



Arab Republic of Egypt  
Ministry of Communications  
and Information Technology



**+98 MILLION**





# THE GLOBAL GOALS

For Sustainable Development





# The Sustainable Development Strategy (SDS)



# Egypt 2030 Overview



BY 2030, THE NEW EGYPT WILL ACHIEVE A **COMPETITIVE, BALANCED, DIVERSIFIED AND KNOWLEDGE BASED ECONOMY**, CHARACTERIZED BY JUSTICE, SOCIAL INTEGRATION AND PARTICIPATION, WITH A BALANCED AND DIVERSIFIED ECOSYSTEM, BENEFITING FROM ITS STRATEGIC LOCATION AND **HUMAN CAPITAL** TO ACHIEVE SUSTAINABLE DEVELOPMENT FOR A BETTER LIFE TO ALL EGYPTIANS

# The consistency and coherence between the SDS & the SDGs



## Programs:

- Suez Canal Development Project
- Decent Work Program
- .....



## Programs:

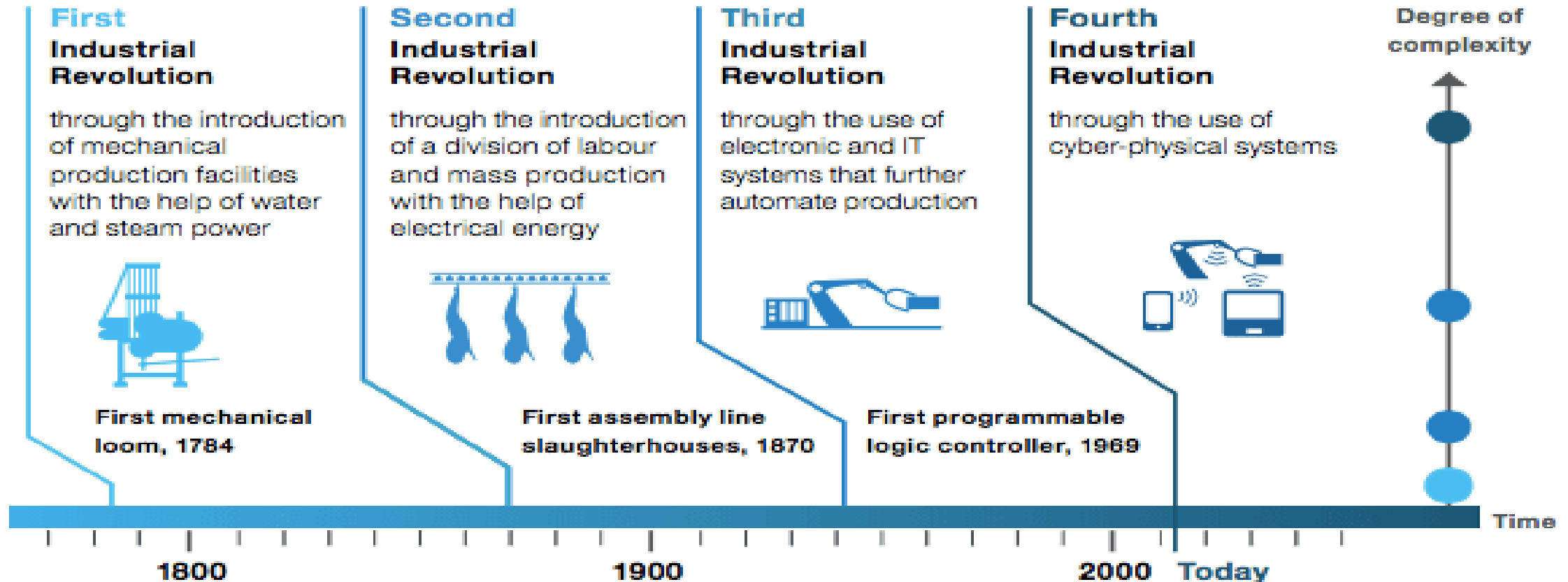
- Social Protection program
- .....

## Sustainable Development Goal 1 - KPIs

Goals	SDGs
<b>Goal 1:</b> End poverty in all its forms everywhere	<ul style="list-style-type: none"> <li>▪ Proportion of population below \$1.25 (PPP) per day (MDG Indicator)</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Proportion of population living below national poverty line, by urban/rural (modified MDG Indicator)</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Multidimensional Poverty Index.</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Percentage of eligible population covered by national social protection programs</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Percentage of women, men, indigenous peoples, and local communities with secure rights to land, property, and natural resources, measured by (i) percentage with documented or recognized evidence of tenure, and (ii) percentage who perceive their rights are recognized and protected.</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Losses from natural disasters, by climate and non-climate-related events (in US\$ and lives lost)</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Total fertility rate</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Complementary National Indicators:                             <ol style="list-style-type: none"> <li>1.1. Poverty gap ratio (MDG Indicator)</li> <li>1.2. Percentage of population using banking services (including mobile banking)</li> <li>1.3. [Indicator on equal access to inheritance] – to be developed</li> <li>1.4. [Disaster Risk Reduction Indicator] – to be developed</li> </ol> </li> </ul>



# The fourth Industrial Revolution



Cyber-physical assistance systems are driving the fourth industrial revolution

Source: Siemens, Pictures of the Future, Spring 2013

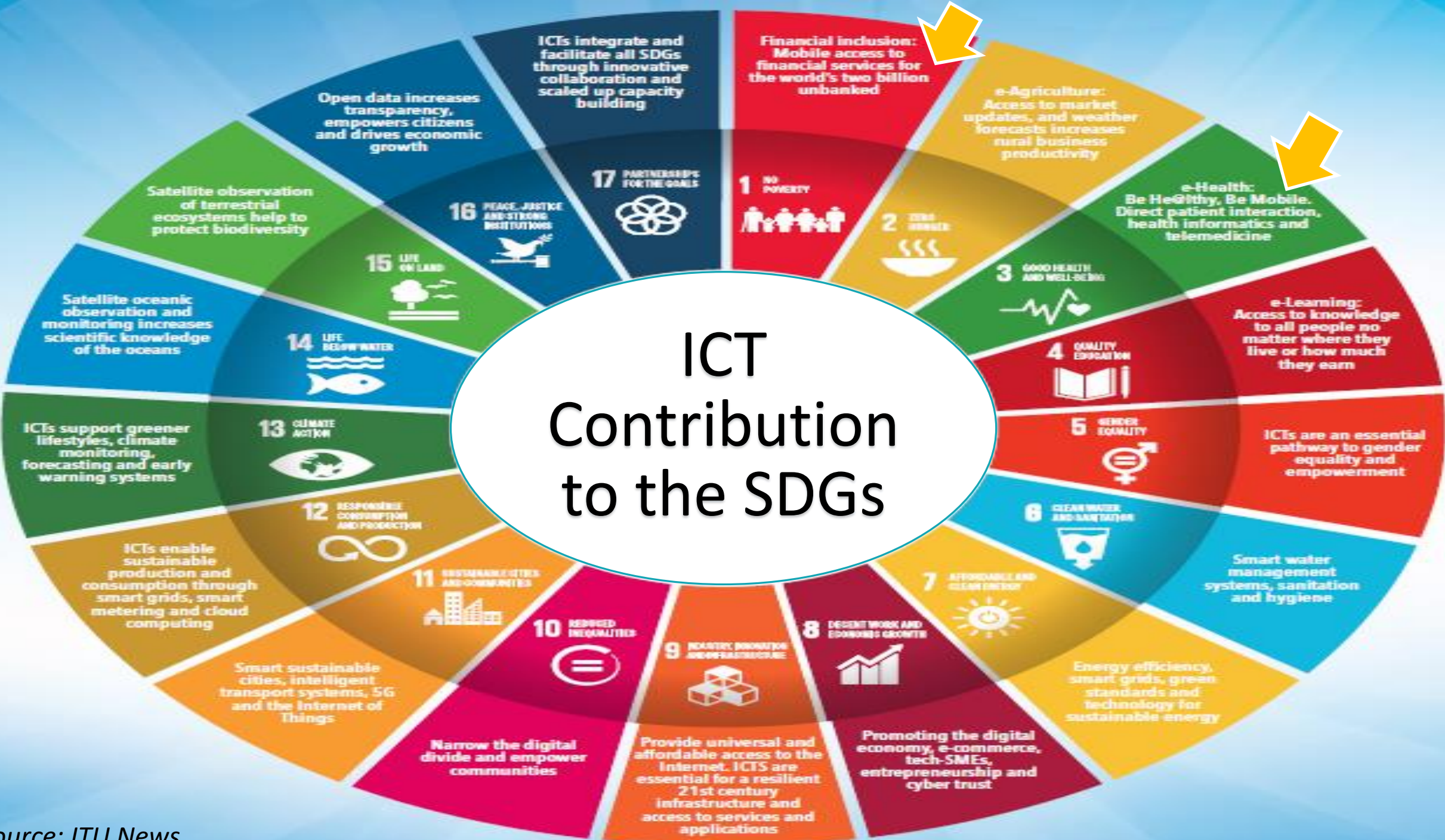
# Can We?

*ICT Makes Ends meet*



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## 2- The Ministry of Communications and Information Technology Digital Transformation Endeavors

# The National Program Pillars



**1- National Security and Foreign Policy**



**2- Egyptian Human Being Building**



**3- Economic Development and boosting the governmental performance efficiency**

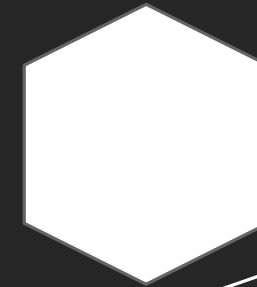


**4- Increase of Employment and Workforce Levels**

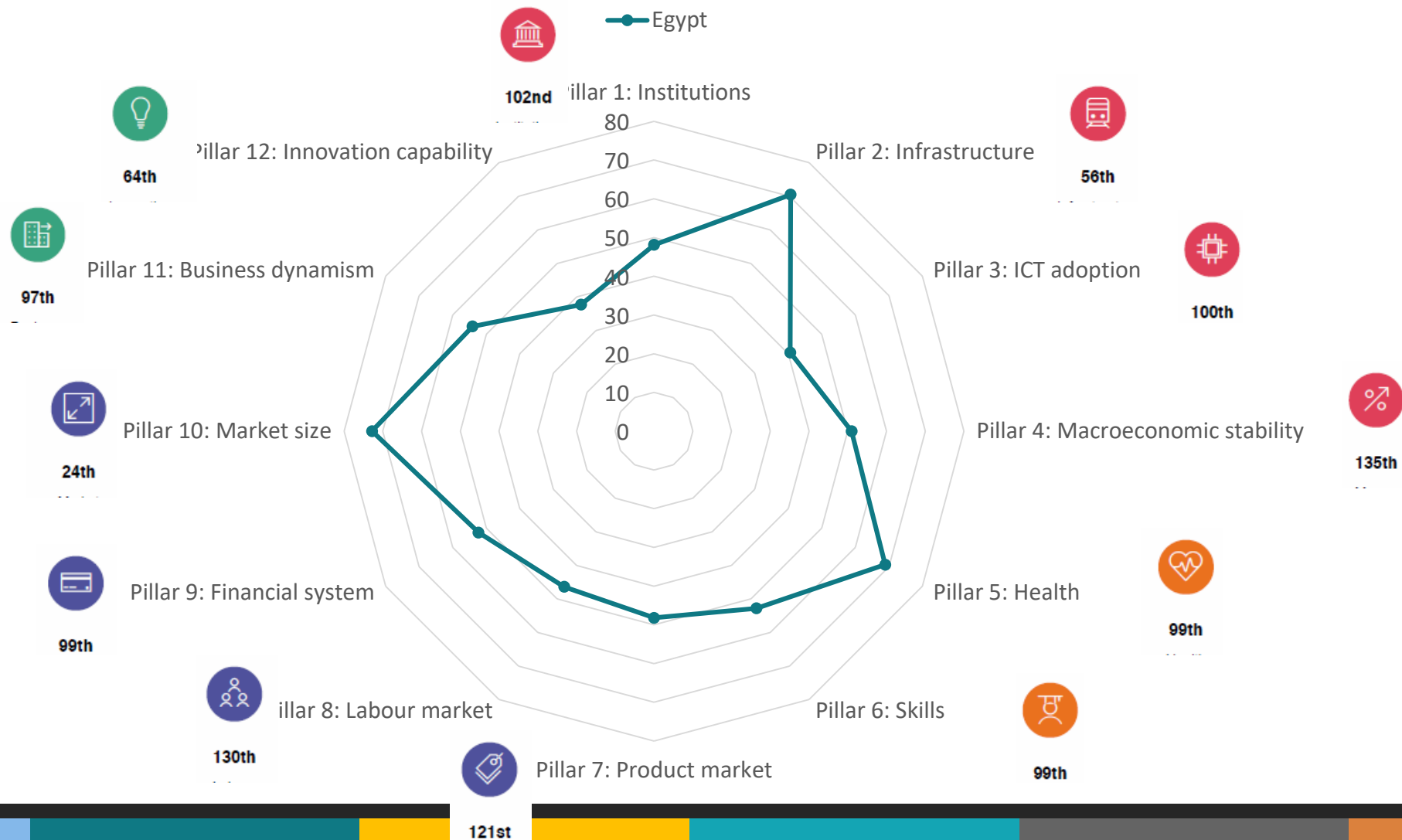


**5- Enhancing Citizens' Living Standards**

**Ministry of Communications and Information Technology**



# Global Competitiveness index (94th/140)





# Egypt Digital Readiness

2018

Active Internet  
Users



39.7 M

Active social  
Media Accounts



35 M

Mobile  
Connections



95.7 M

Active Mobile  
Social Accounts



32.8 M

Source: We are social report, 2018



# Connecting an ever-growing population



3958 Office

23,118,000 Person

330 Newly Established  
ICT Companies



319.77

M EGP



3,391,000

Graduates received  
ICT training



International Internet Bandwidth

1,906.35 Gbps

8

Technology  
Parks

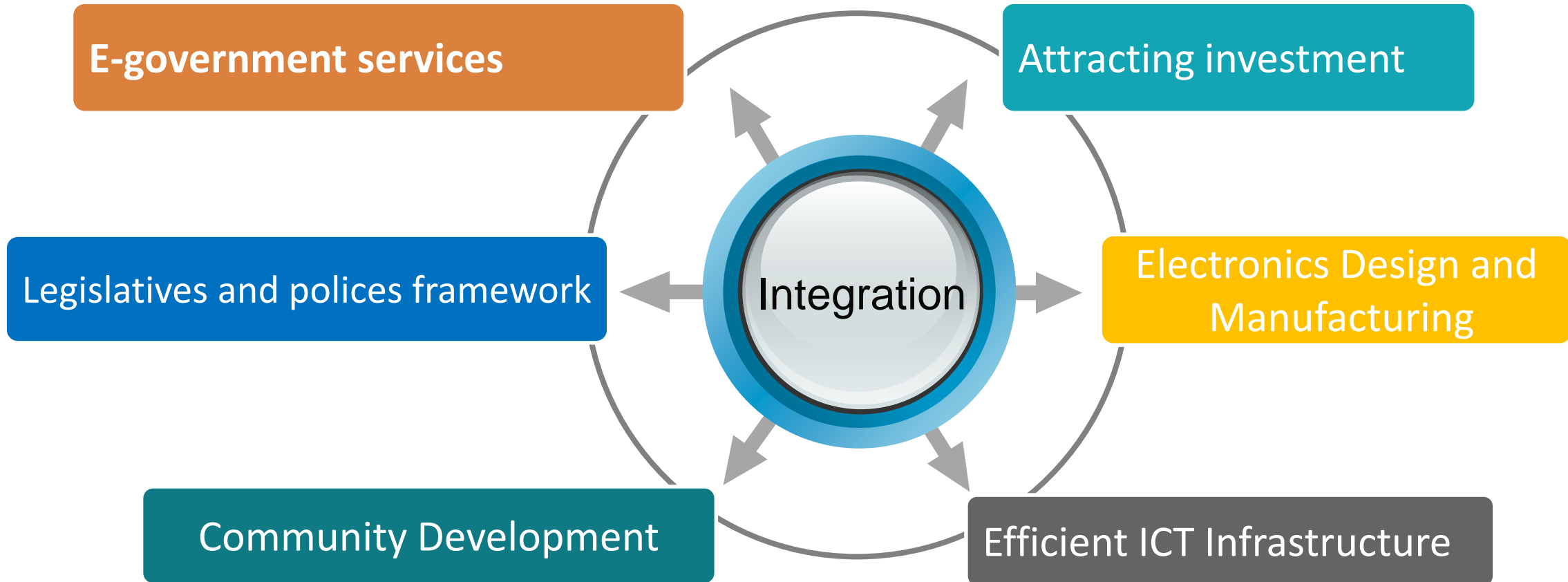


Smart Cities



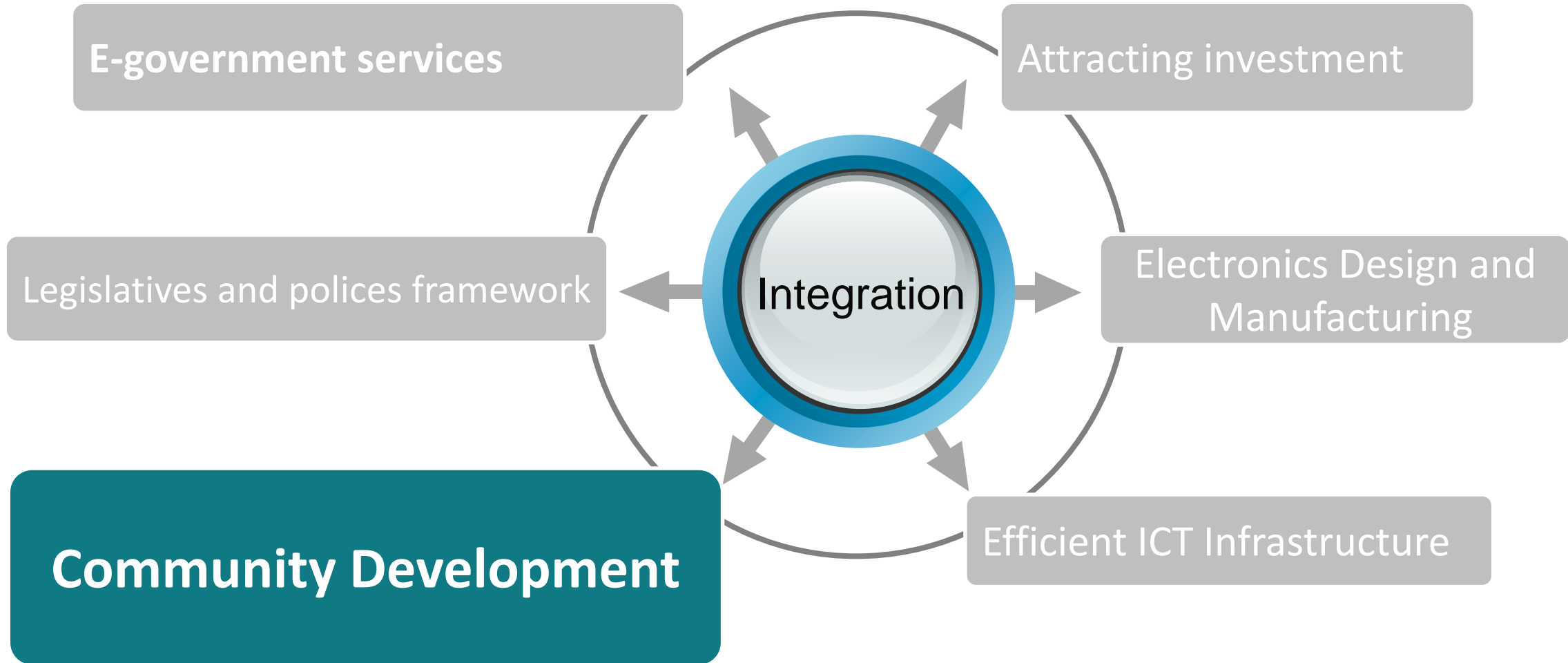


# Towards Digital Transformation

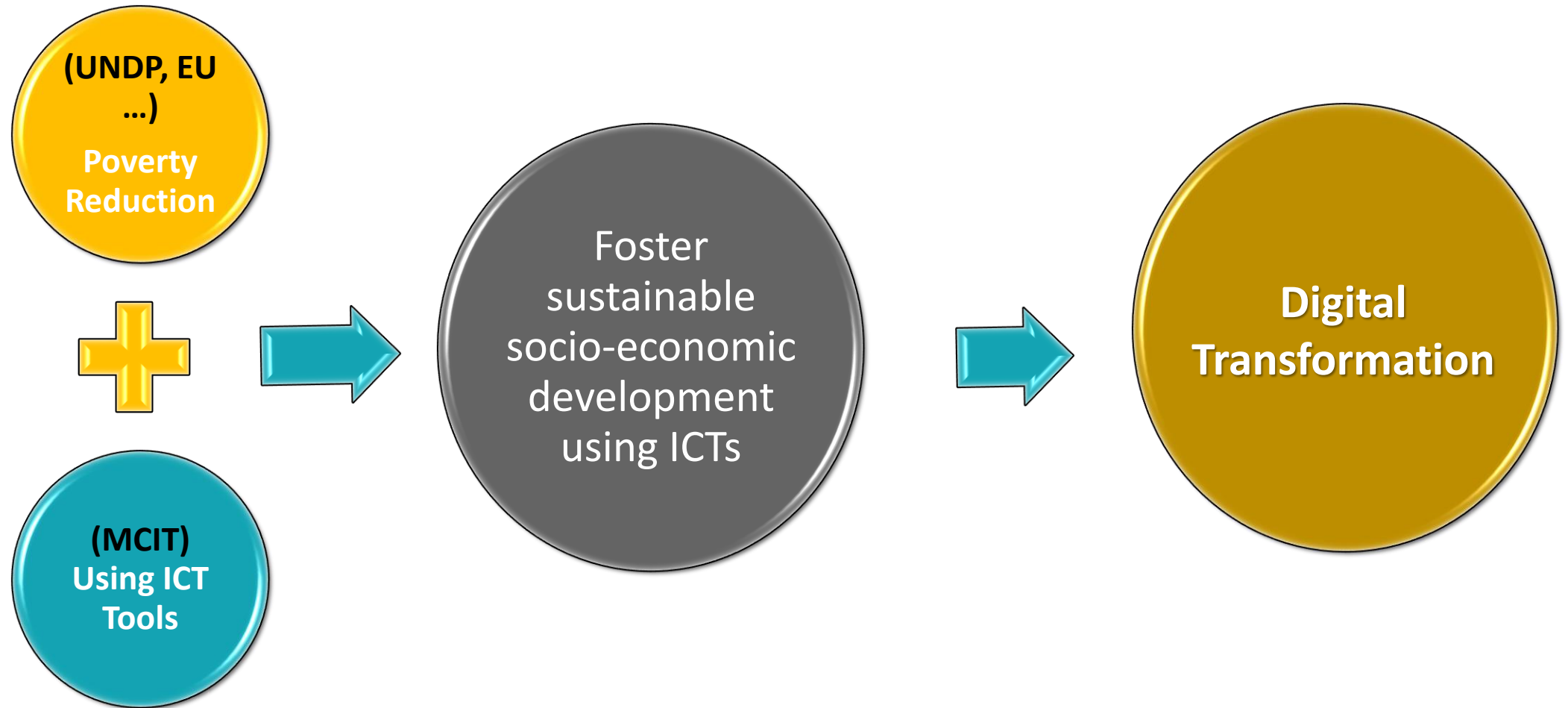




# Towards Digital Transformation

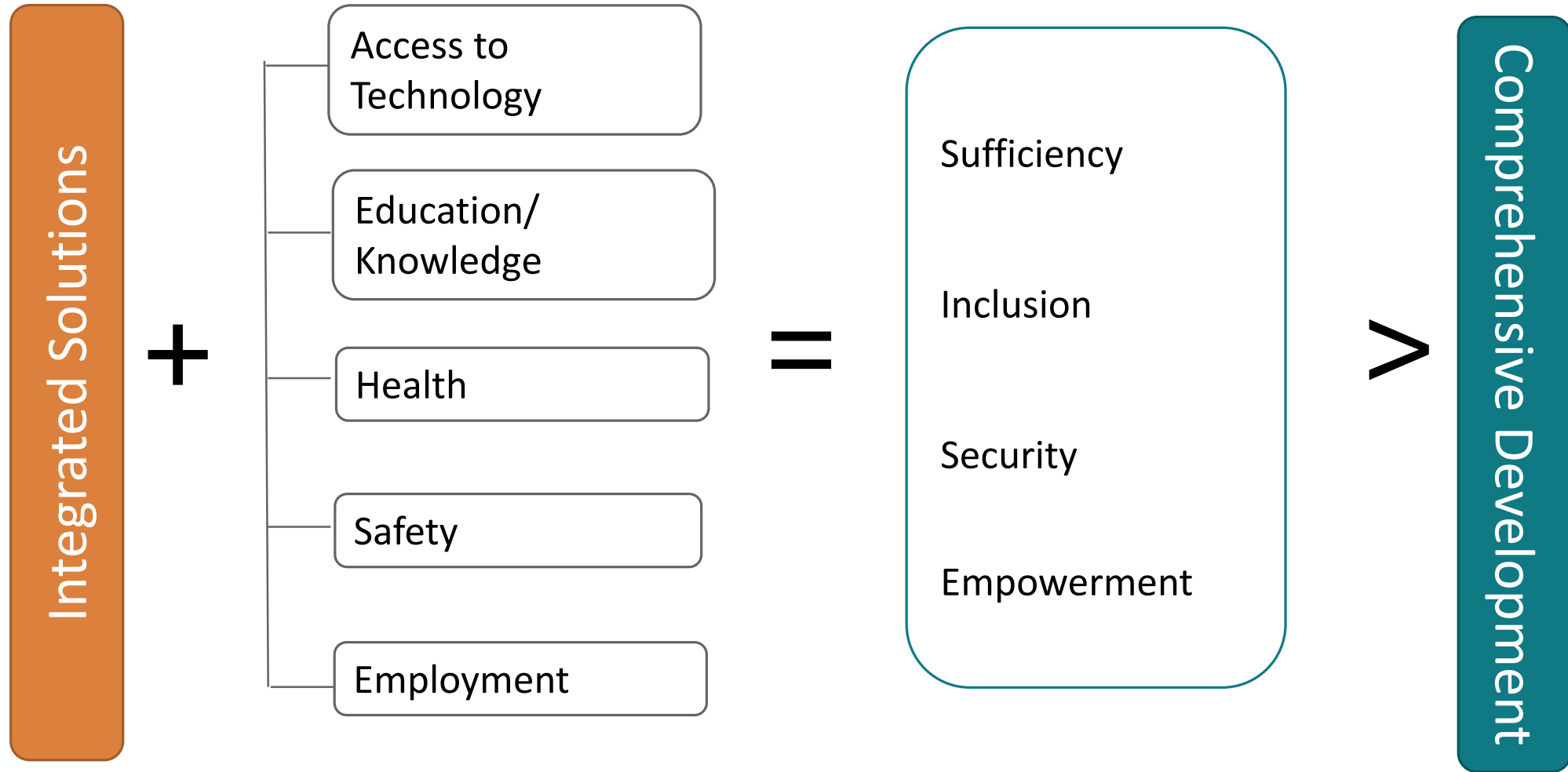


# ICT For Development





# Community Empowerment Equation



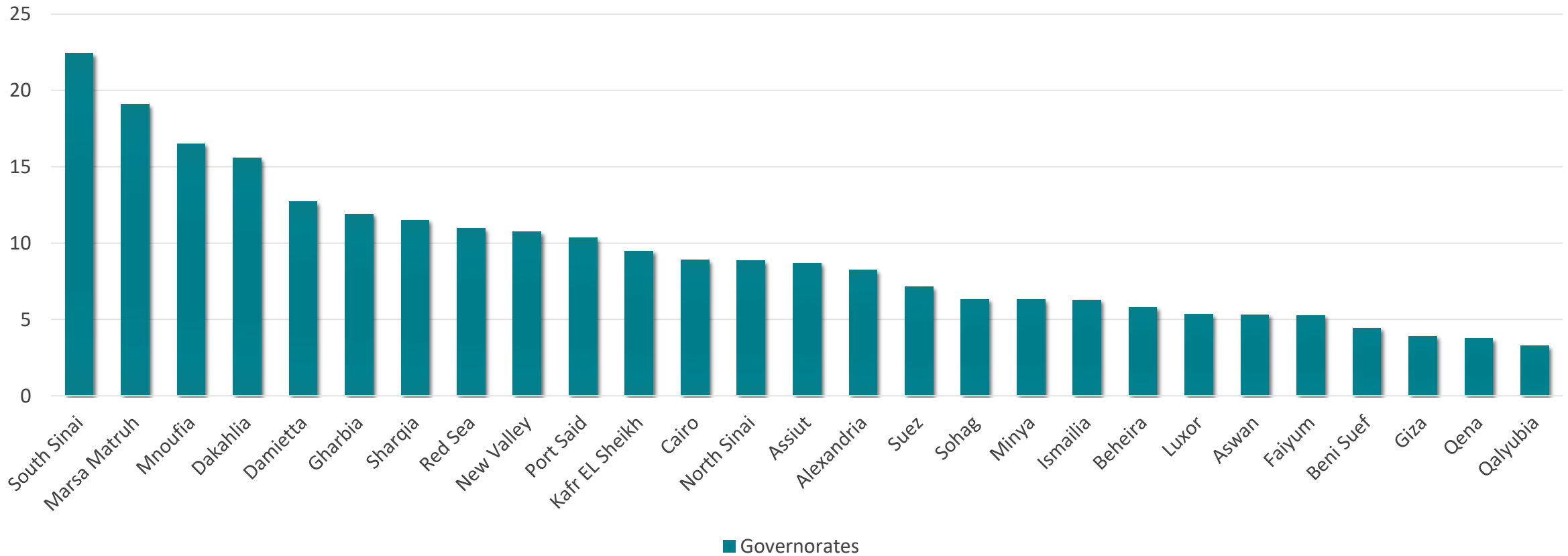


### 3- A case Study on Transforming Pilot ICT4D Project into a National Initiative

# Density of Physicians



AVG 8.2 Physician for each 10000 Citizen



Source: Ministry of Health and Population





# High Turn Over of GP in rural areas



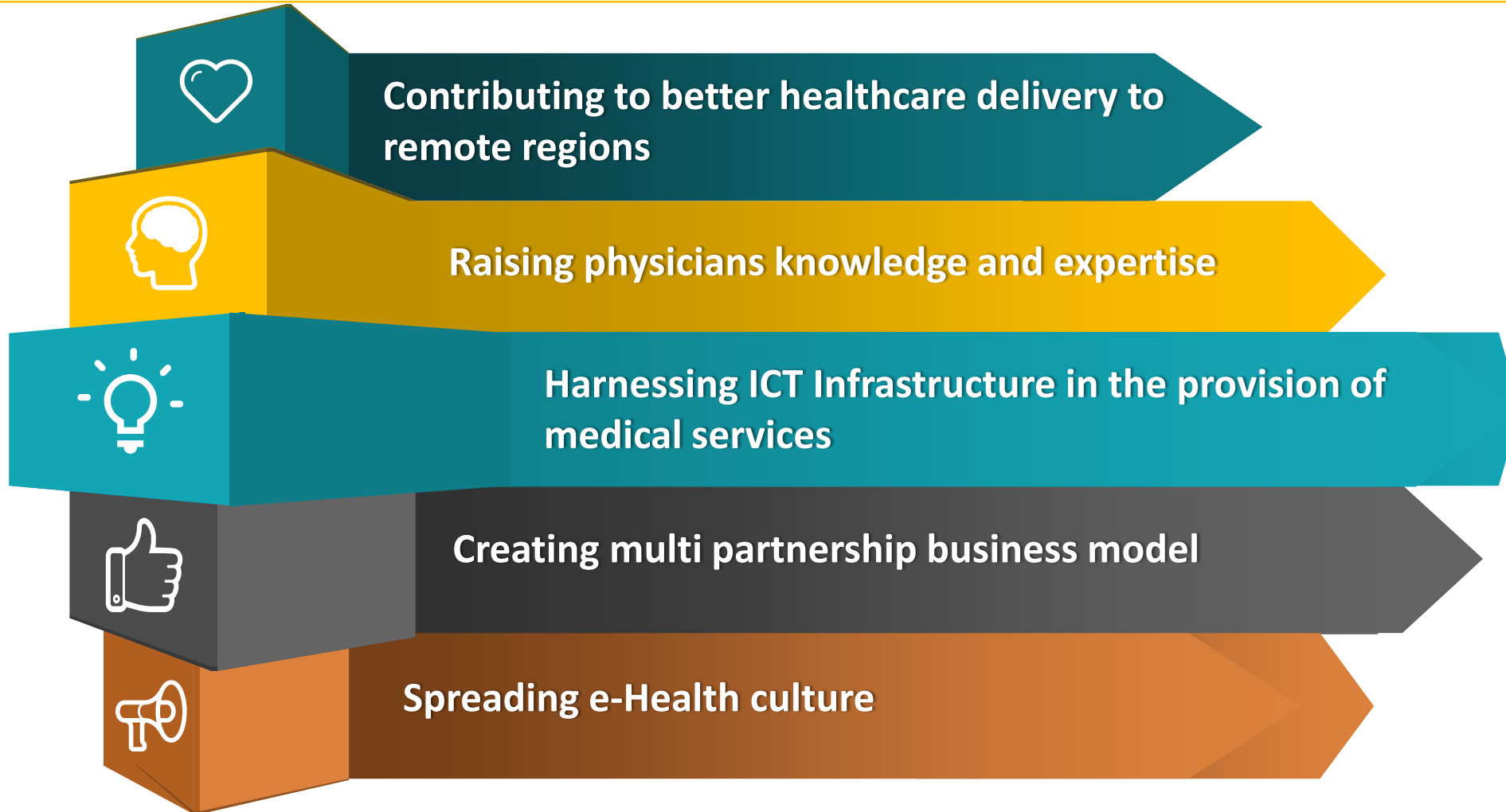
Compulsory service programs for recruiting fresh graduate health workers in remote and rural areas.

**High Turn over and Less than optimal healthcare services quality**





# Bridging the Health Gap in Remote Areas



The Telemedicine





# The Telemedicine program: Step By Step

## Interest



## Trust



## Collaborate

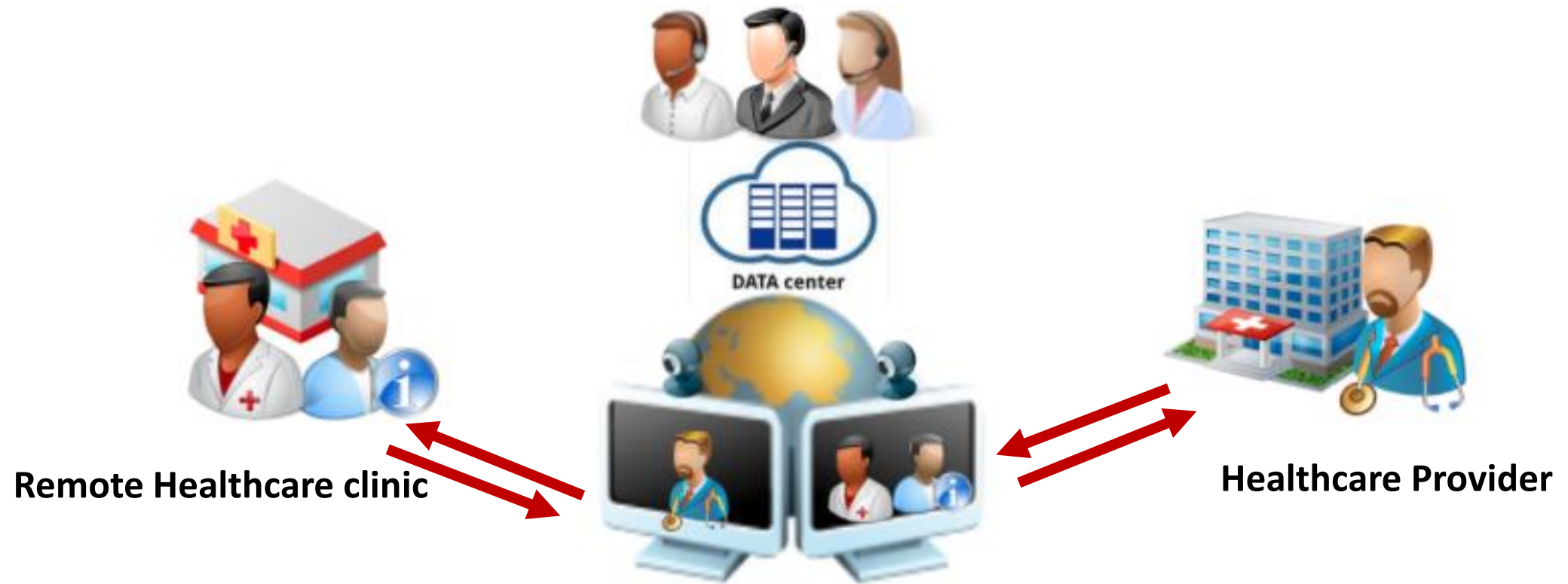


## Generate



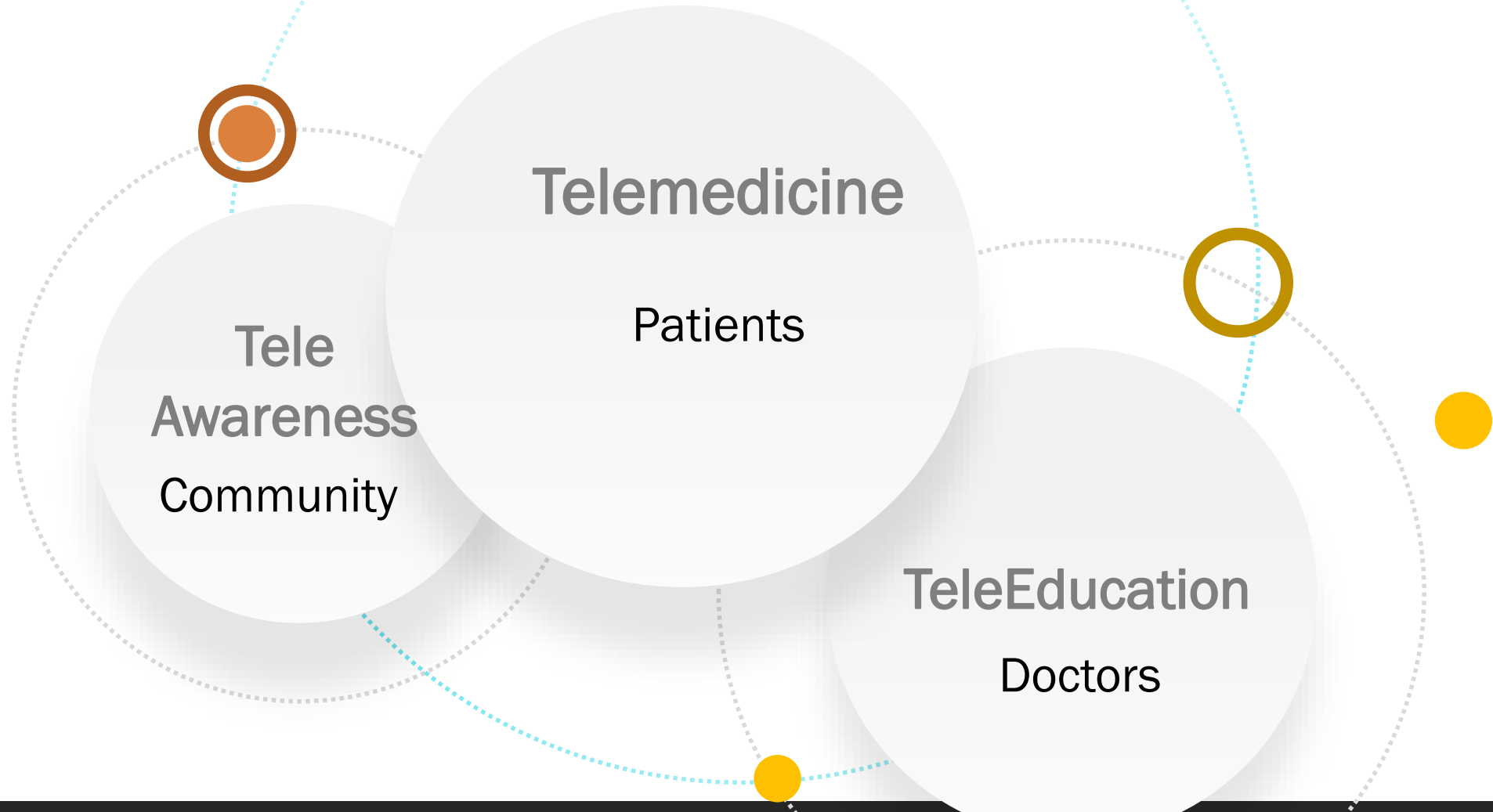


# The Telemedicine Business Model





# Integrated approach Targeting the whole community





# Program outcomes

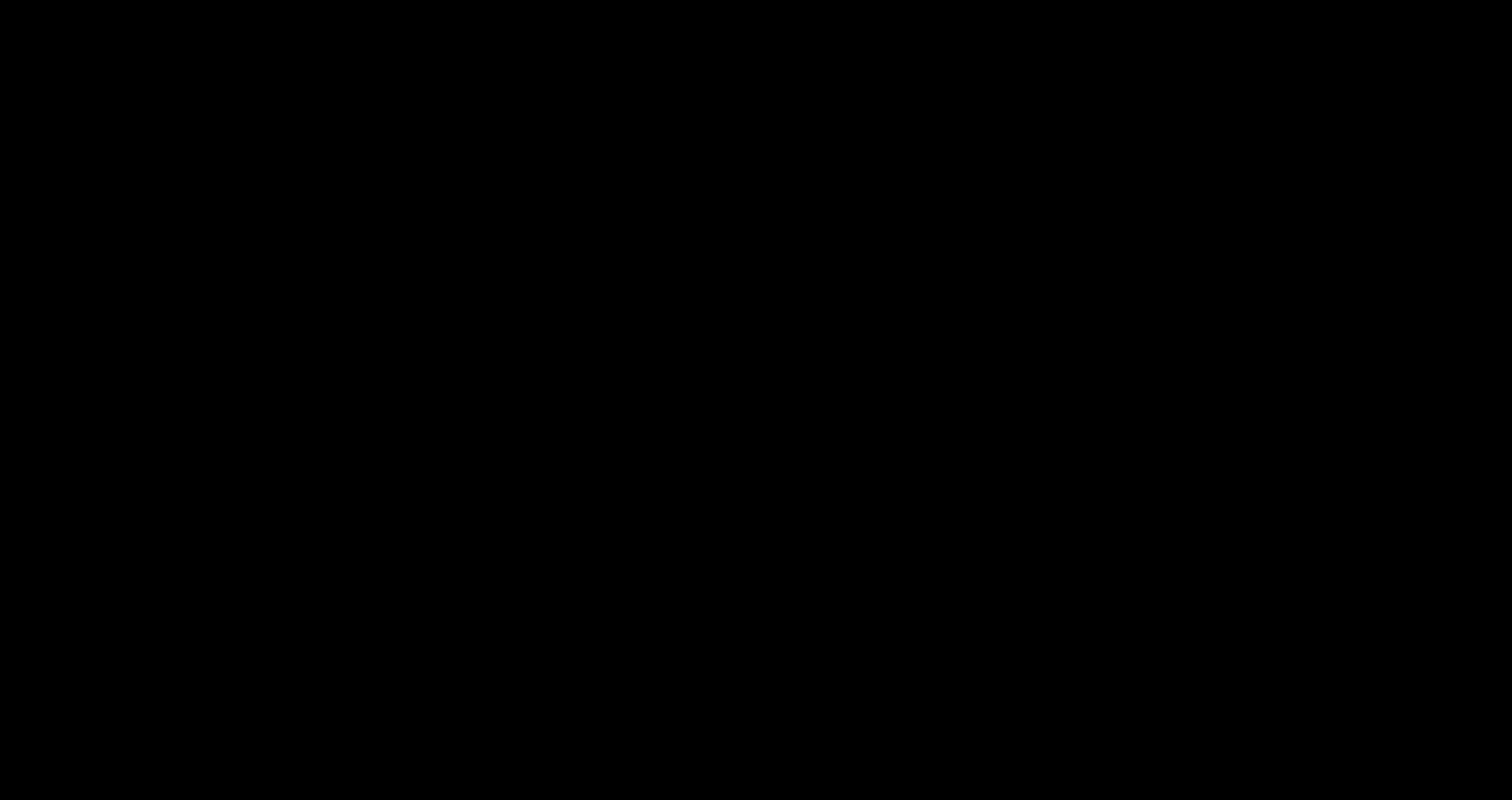




# In 2008: We started in Siwa



**Reaching the Unreached**





# Scaling South: Nuba



## Telemedicine Initiative in Nuba 2013



طبيب استشاري من القاهرة

التشخيص عن بعد

بدون الحاجة إلى السفر خارج أسوان

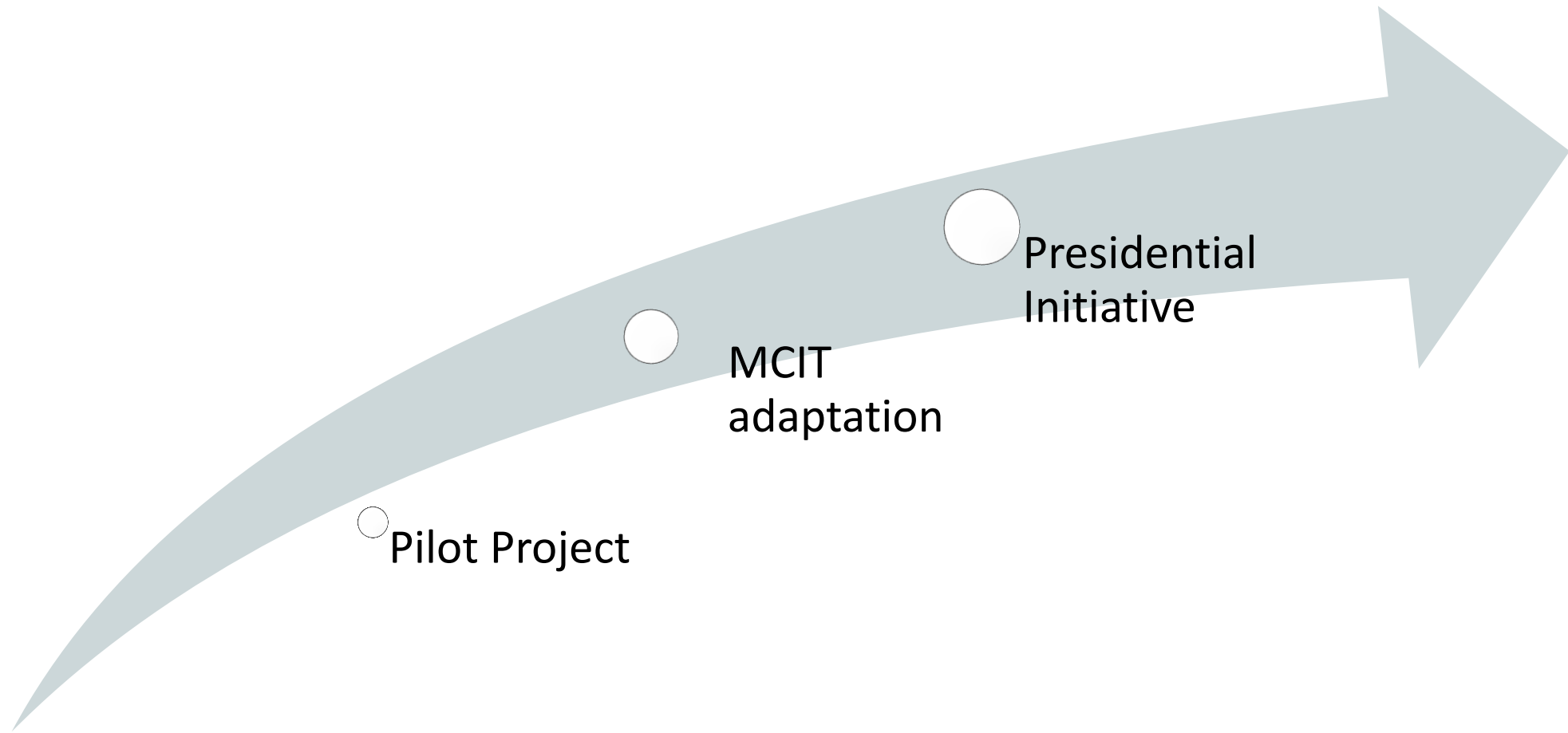


# integrated ICT solution for development in Nuba

# مشروع التنمية التكنولوجية المتكاملة بالنوبة



# Influencing the Polices





DRIVING **CAIROICT**<sup>2018</sup>  
TRANSFORMATION

## The 22<sup>nd</sup> Technology

Fair and Forum for the Middle East and Africa

Official Sponsor



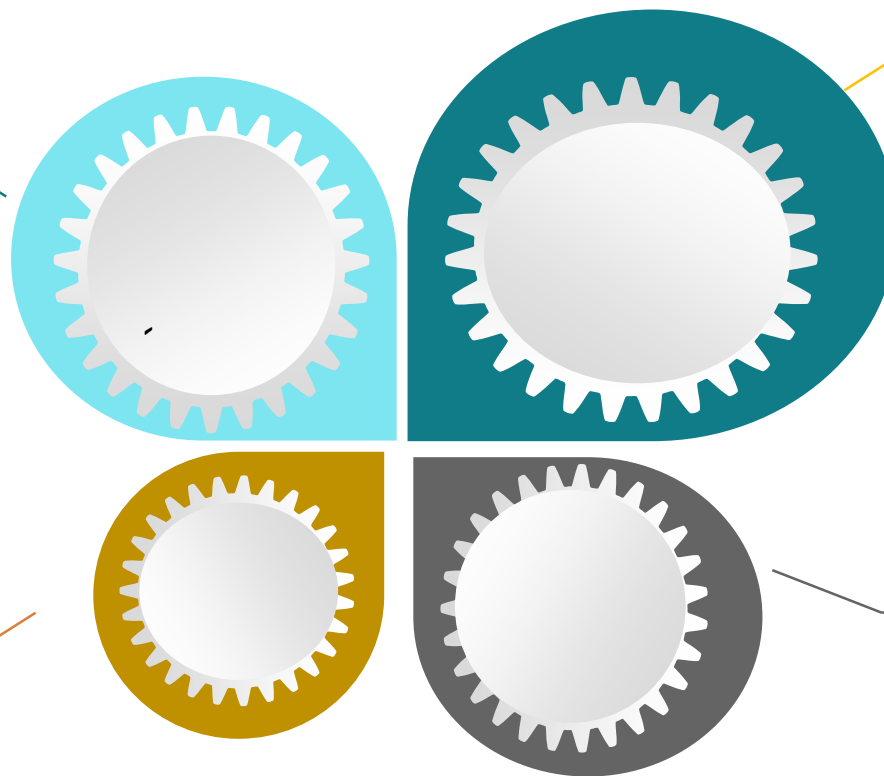
The Presidential Announcement of a National Initiative



# Inclusive Multi-stakeholder Partnerships

## Ministry of Higher Education

- ✓ University Hospitals
- ✓ Medicine Faculties



## MCIT

- ✓ Software providers
- ✓ Hardware suppliers

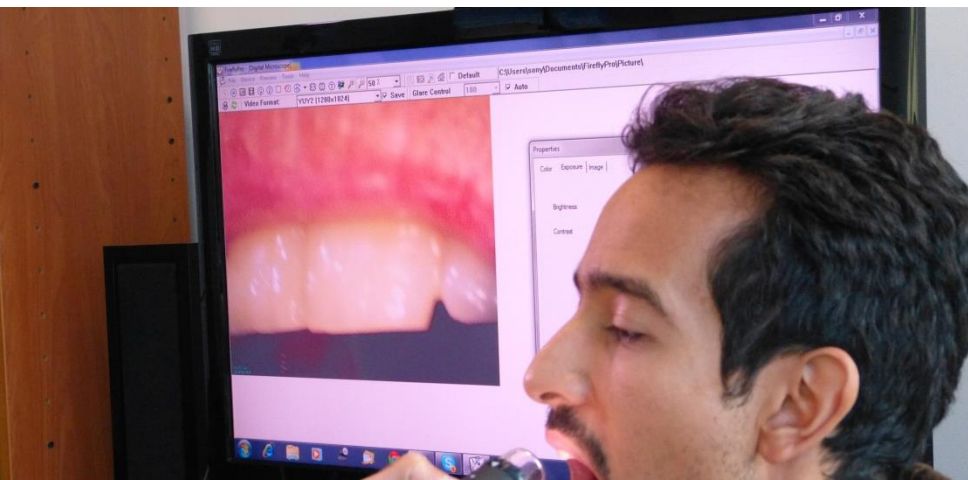
## Private sector and Civil Society

- ✓ Sponsors
- ✓ Community Outreach

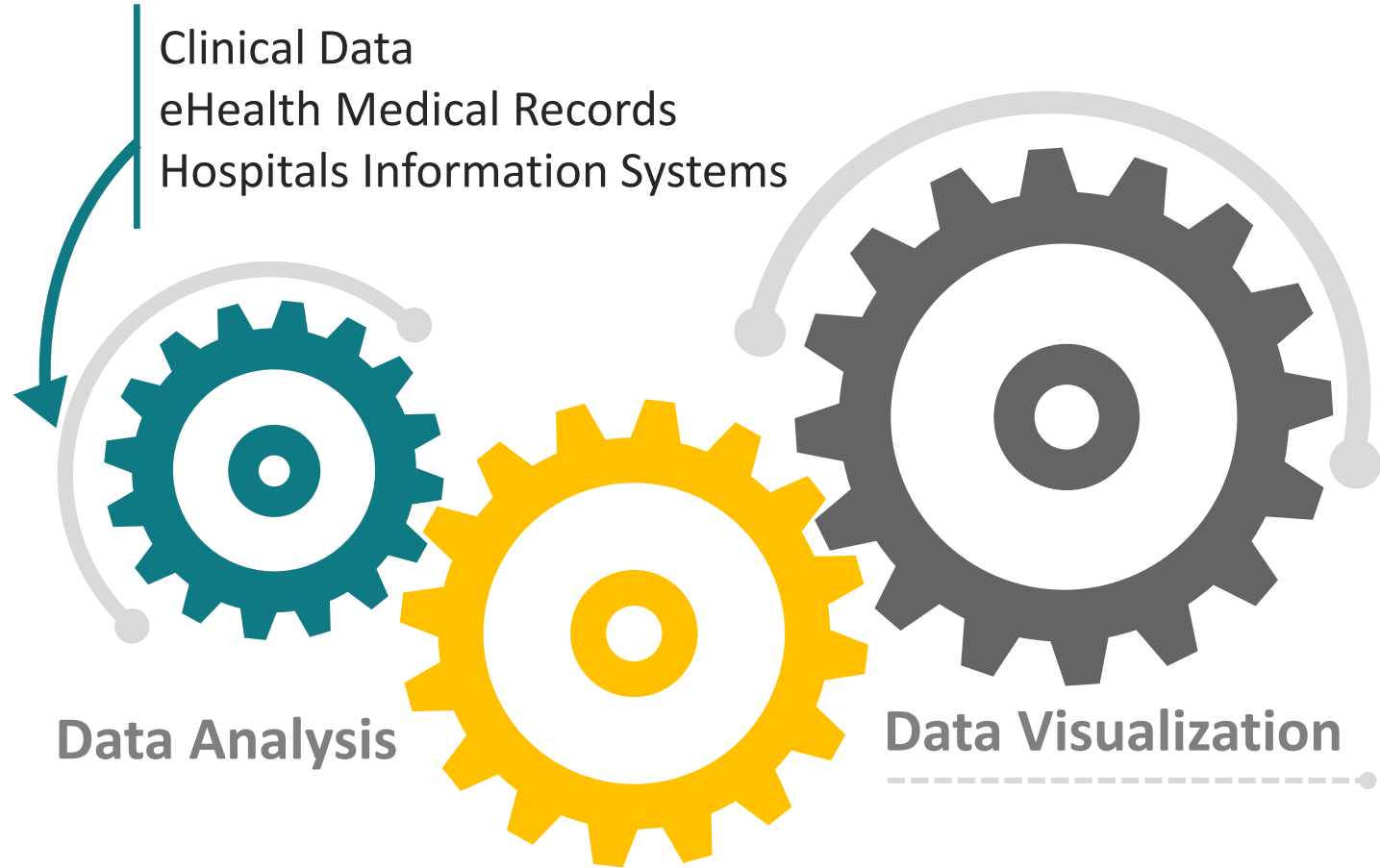
## Ministry of Health and Population

- ✓ Healthcare providers
- ✓ Public Hospitals

**300 Nodes Nationwide**



# Leverage information for better clinical and patient outcomes



- ▶ Identify needs and support Healthcare Map
- ▶ Knowledge Base for Research and development
- ▶ Informed Decision Making
- ▶ Improved healthcare services quality
- ▶ Predict and prevent crisis

## Conclusion

- √The ever-changing characteristic of the ICTs continuously shall direct the governments strategies towards a more flexible policies and plans.
- √Extra efforts shall be done to include the unheard voices of deprived people whose inclusion has no return on investment on the short term.
- √In the fourth industrial revolutions “The Digital Revolution” there are always gains; missing communications or technological trend open up a faster route to embed the later breakthroughs within societies with less costs.
- √It’s important to design instruments that builds on the important knowledge sharing mechanisms of international organizations and integrate the latest recommendations in the national development framework.

# A Shared Responsibility “The Ripple Effect”



Arab Republic of Egypt  
Ministry of Communications  
and Information Technology





## Hoda Dahroug

- Member of the Presidential Advisory Council for Community Development
- Head of the Central Department for Community Development – MCIT
- National Project Director – Egypt ICT Trust fund (MCIT – UNDP)

# Thank You

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