



Group on Capacity Building Initiatives (GCBI) 1st Meeting, 2019-2022 Cycle

Geneva, 19-20 March 2019

Skills Requirements and Priority Areas for Capacity Building **An Arab Region Perspective**

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Together Towards a Better Future

Regional priorities on capacity development

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Proposals for strengthening engagement of regional stakeholders
in identifying skills gaps and needs



Agenda

- Skills gaps and skills requirements.
- Priority areas for capacity development and training.
- Engagement.

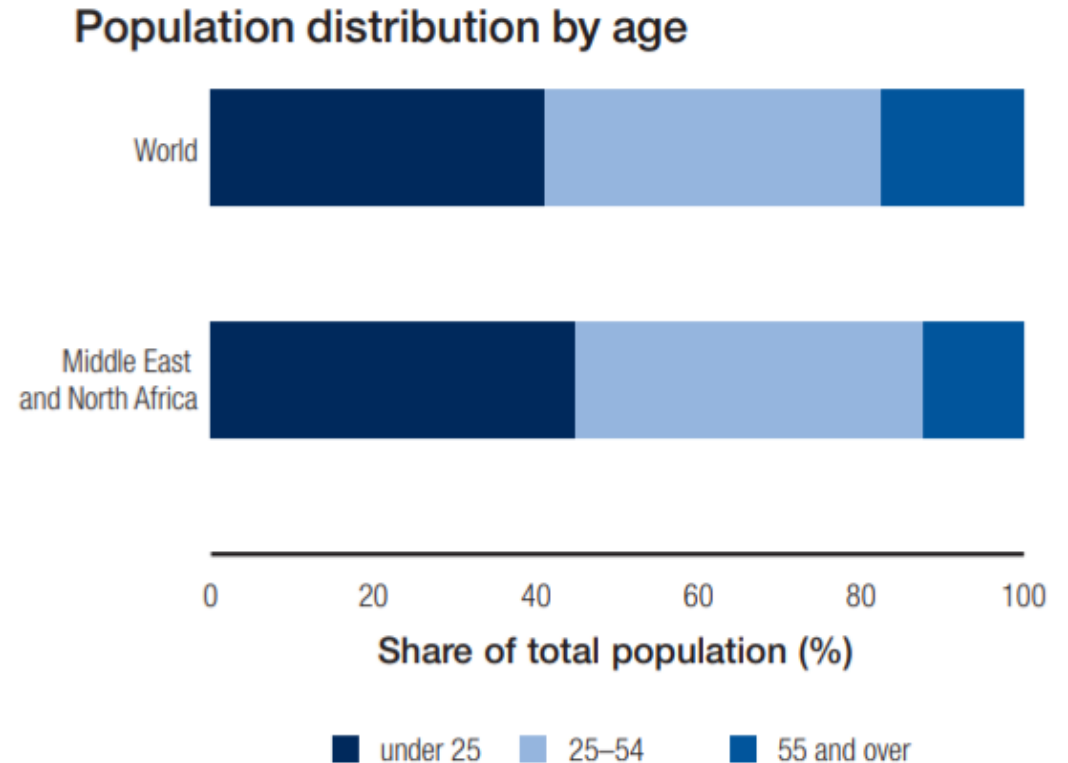
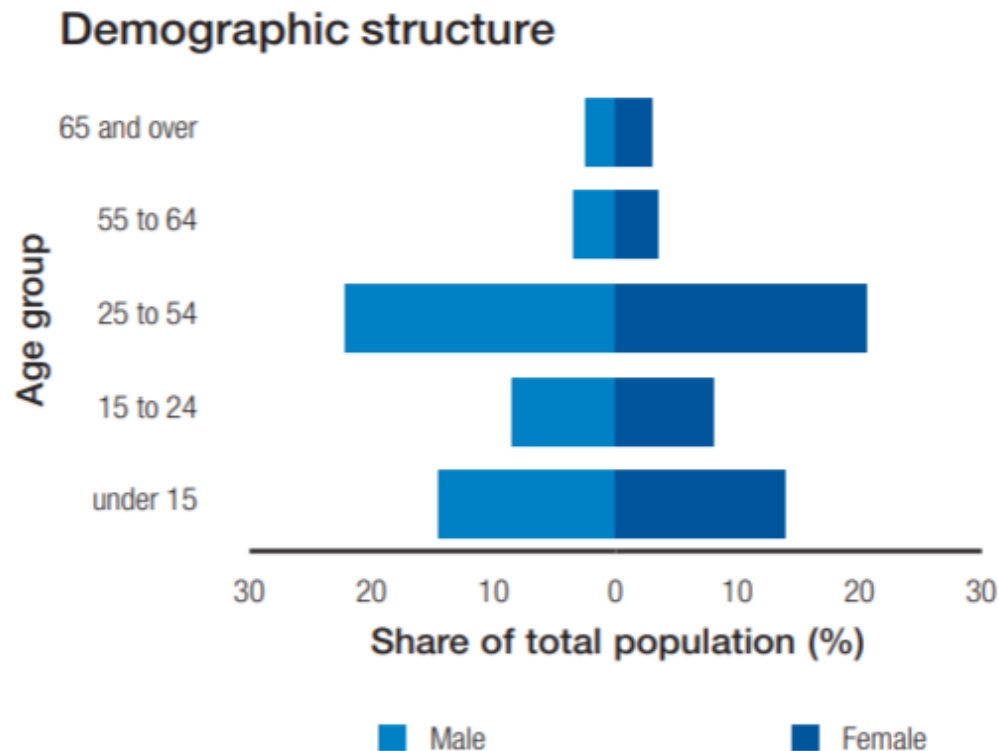




Arab Region Relevant Data Overview



22 Arab States with a population of 400+ Millions, 1 Common Language



Source: United Nations Population Division.



Fast growth rate in smartphone connections and mobile broadband connections



Smartphone connections

will increase from **49%** of total connections in 2017 to

74%

by 2025

Mobile broadband connections

will increase from **59%** of total connections in 2017 to

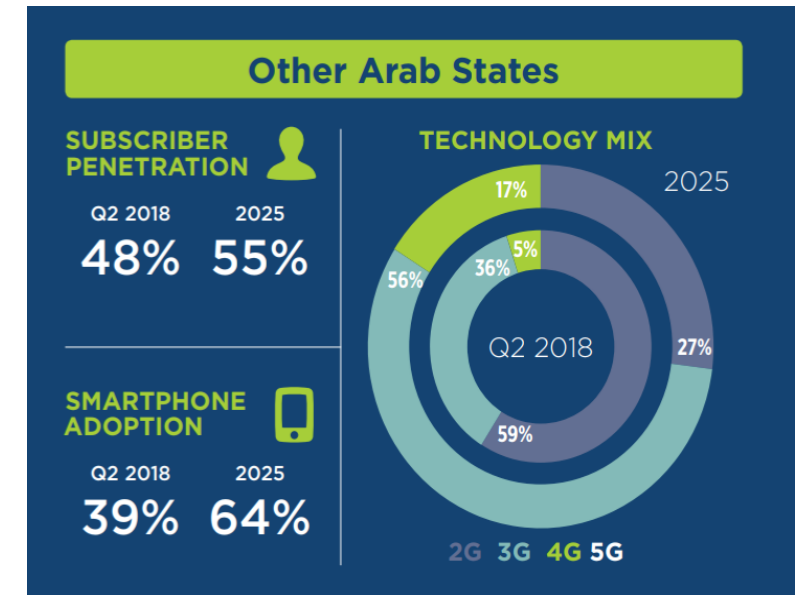
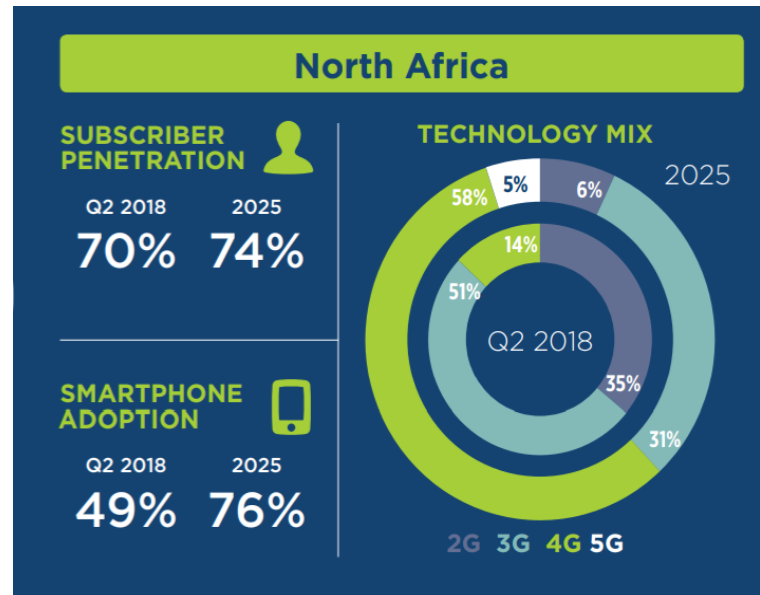
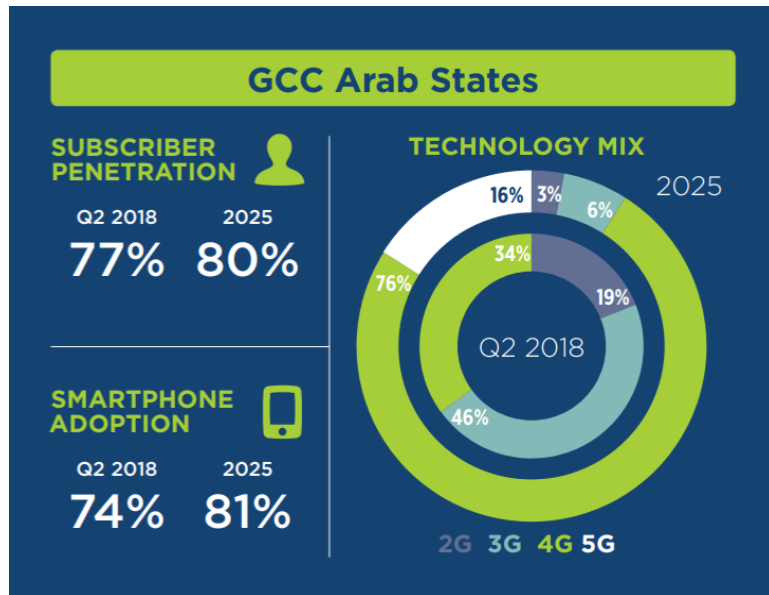
90%

in 2025





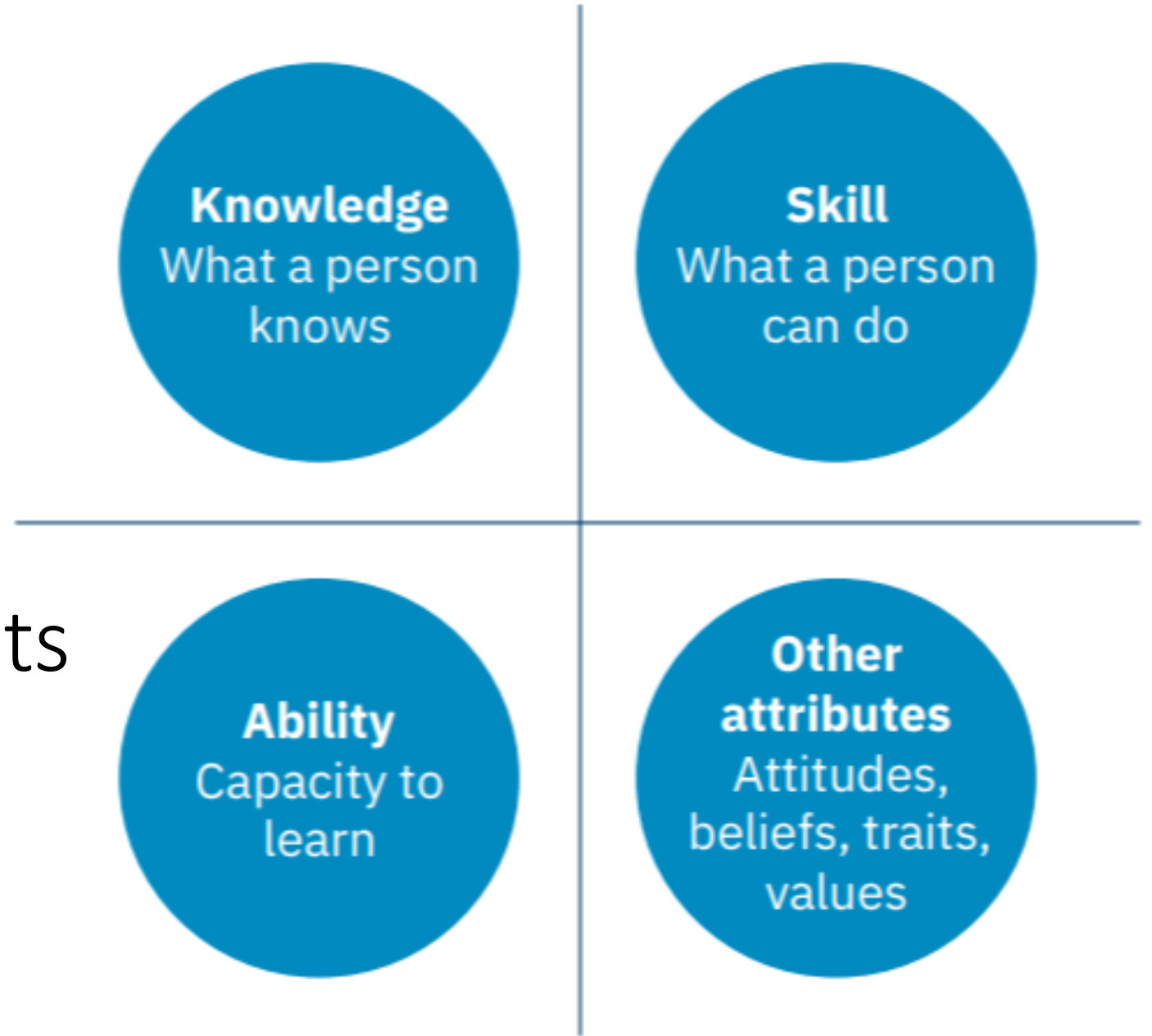
Significant variation among countries in the region in Smart Phone Adoption



Source: The Mobile Economy Middle East and North Africa 2018, GSMA



An overview of skills gaps and skills requirements in the region



Source: Figure from Competencies in the AI era – IBM



Regional Performance by Pillars

Region	Enabling environment				Human capital	
	Institutions	Infrastructure	ICT adoption	Macroeconomic stability	Health	Skills
East Asia and the Pacific	61.6	74.3	67.3	88.9	84.3	66.9
Eurasia	53.0	66.3	57.1	71.7	73.4	65.6
Europe and North America	64.5	78.7	68.0	91.8	90.7	74.2
Latin America and the Caribbean	47.8	61.1	46.4	74.0	82.7	57.5
Middle East and North Africa	54.3	69.0	54.1	79.6	80.0	61.4
South Asia	50.1	59.6	33.0	74.1	68.4	49.7
Sub-Saharan Africa	47.5	46.3	29.6	66.9	48.0	43.4

Source: World Economic Forum analysis.



Pillar 6: Skills 0-100 (best)

- 6.01 Mean years of schooling Years
- 6.02 Extent of staff training 1-7 (best)
- 6.03 Quality of vocational training 1-7 (best)
- 6.04 Skillset of graduates 1-7 (best)
- 6.05 Digital skills among population 1-7 (best)
- 6.06 Ease of finding skilled employees 1-7 (best)
- 6.07 School life expectancy Years
- 6.08 Critical thinking in teaching 1-7 (best)
- 6.09 Pupil-to-teacher ratio in primary education Ratio



Pillar 3: ICT adoption 0-100 (best)

- 3.01 Mobile-cellular telephone subscriptions /100 pop.
- 3.02 Mobile-broadband subscriptions /100 pop.
- 3.03 Fixed-broadband Internet subscriptions /100 pop.
- 3.04 Fibre Internet subscriptions /100 pop.
- 3.05 Internet users % pop.



Trending Skills 2022

Analytical thinking and innovation

Active learning and learning strategies

Complex problem-solving

New Roles 2022

Big Data , AI and Machine Learning Specialists

UX & Human-Machine interaction Designers.

Training and Development Specialists



Top 10 Strategic Technology Trends for 2019

Intelligent

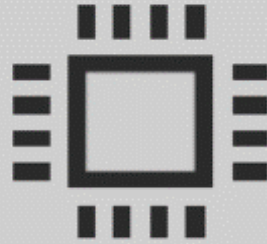


Autonomous Things

Augmented Analytics

AI-Driven Development

Digital

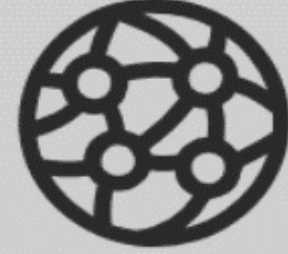


Digital Twins

Empowered Edge

Immersive Experience

Mesh



Blockchain

Smart Spaces

Digital Ethics and Privacy

Quantum Computing

ID: 374252

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Overview

Ongoing ARB Regional Initiatives/Projects





Criteria

- Impact on **people's lives**.
- Interest for a **big number of countries in the region**.
- Contribution to the **socioeconomic development** of the region.
- **Ease of implementation** through concrete projects.
- **Attractiveness** to donors, partners and non-ITU stakeholders.





Regional initiative

1

Environment, climate change and
emergency telecommunications



CAPACITY BUILDING

Implement **awareness-raising** and **capacity-building** activities on the environment, specifically on **EMF, climate change, emergency telecommunications** and **e-waste**.



Regional initiative

2

Confidence and security in the use of telecommunications/information and communication technologies



CAPACITY BUILDING

- Awareness-raising programmes and "Training-of-Trainers" to build confidence in the use of ICTs and on COP.
- Series of events as platform for sharing experiences among stakeholders.
- "Hackathons".



Regional initiative

3

Digital financial inclusion



CAPACITY BUILDING

- **Creating** and **enabling environment** for **digital financial inclusion** in the Arab region.
- **High-level conference** promoting **partnerships** and **sharing experiences** among stakeholders **regionally** on digital financial inclusion.



Regional initiative

4

Internet of Things,
smart cities and big data



CAPACITY BUILDING

- Training and capacity-building activities.
- **High-level forum** on IoT and big data with different themes for smart city development.
- Promote the **exchange of expertise** between the Arab countries in the areas of **IoT**, **big data** and **smart cities and communities**.



Regional initiative

5

Innovation and entrepreneurship



CAPACITY BUILDING

Build capacities and raise awareness on the culture of innovation and entrepreneurship through the development of training programmes for Arab entrepreneurs and managers of entities supporting entrepreneurs.



for Capacity Development and Training



Priority Areas from ARB Regional Initiatives

- Artificial Intelligence
- Internet of Things (IoT)
- Smart ICT, Mobile Technologies, 5G Eco-Systems
- Digital Trust, Cyber-Security, and Blockchain,
- Big Data
- Entrepreneurship

Use Cases

- Emergency Telecommunications
- Smart Cities and Communities
- Smart Energy
- e-Waste Management
- e-Gov, Digital Agriculture, Digital Health
- Industry 4.0
- FinTech



So ...

How could GCBI engage different stakeholders in the region in identifying priorities for capacity and skills development initiatives?



A Few Suggestions

- Develop a **platform** and capitalize on technology such as AI.
- Involve partners from the **private sector, PPP frameworks**.
- Launch initiatives that may have a **common interest** across the region such as *Open Source Software*.
- Engage **entrepreneurs and SMEs** to share their voice (*more agile and reactive*).
- Develop a capacity development **maturity index** for the region.

Scale to measure progress (*if we can't measure it, we can't manage it*).

- Form a **regional advisory group** including members from different states.

Gain access to information and insights.

Thank you

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END

Gracias

Merci