

**Addressing the Human and Technical
Capacity Challenges Through Digital Skills
ITU—DOT TRAINING PROGRAM**

**CREATING OPPORTUNITIES
WITH DIGITAL SKILLS**

29th July — 1st August, 2019
New Delhi, India

Mr. Peter Argent, ITU Expert

The background of the slide is a photograph of the India Gate in Delhi, India. The monument is a large, classical-style archway made of light-colored stone. The word "INDIA" is inscribed on the top of the arch. The sky is a clear, pale blue with several birds in flight. The lighting suggests it's either early morning or late afternoon, with a warm glow. The text "Topics" is overlaid on the left side of the image in a large, white, sans-serif font.

Topics

1. Collaboration between government, universities, ICTs and citizens
2. Tech skills for business and employment growth
3. Investment in community technology hubs for social impact

Collaboration

“is the process of two or more people or organizations working together to complete a task or achieve a goal.”

“collaboration is a purposeful relationship in which all parties strategically choose to cooperate in order to accomplish a shared outcome.”

Benefits of Collaboration

What are some benefits of government, academia, ICTs and citizen collaboration?

Examples of successful collaborations?

Collaboration Challenges

What are some barriers to successful collaboration?

Collaboration Challenges

What are some challenges for collaboration?

- Does not happen by itself
- Cultural differences impact communication and teamwork
- Requires time investment

Creating opportunities for collaboration

What can be done to create opportunities to collaborate?

- Training programs like this
- Think tanks
- Hackathons
- Meetup groups
- Social innovation projects

Opportunities for increasing digital skills

Do you think these activities would create opportunities for increasing digital skills?

Impact of Increasing Technology Skills

When a single person learns digital skills (technology design, coding, innovation etc), what might we expect as outcomes for them?

Impact of Increasing Technology Skills

When a single person learns digital skills (technology design, coding, innovation etc), what might we expect as outcomes for them?

- Greater employment opportunities
- Motivation for entrepreneurship/social entrepreneurship
- Greater earning potential: provide well for their family
- Ability to work as a freelancer for international companies

Impact of Increasing Technology Skills

What would be the impact of improving the level of digital skills in your country?

Impact of Increasing Technology Skills

What would be the impact of improving the level of digital skills in your country?

- New businesses
- More innovative/digital businesses
- Lower unemployment
- Greater trade/export opportunities

Increasing digital skills

What are some methods a country can increase its digital skills?

Increasing digital skills

What are some methods a country can increase its digital skills?

- Train school teachers (I believe this is most important)
- Technology education in schools
- Support enterprises that are teaching technology skills
- Encourage a culture of innovation

Community Tech Hubs

An excellent way to increase digital skills in the country is to create community tech hubs

Community Tech Hubs

A tech hub could have:

- Computer labs
- Maker labs (3D printing, electronics, emerging technologies)
- Staffed by passionate technology people

Community Tech Hubs

A tech hub could:

- Run classes for anyone to come and learn
- Citizens can work together to solve community problems with technology
- Run hackathons, expos
- Have a children's club like Scouts for the 21st century

Community Tech Hubs

Can be a collaboration between government, academia, schools and ICTs.

TEAM CHALLENGE (3)

Creating Opportunities with Digital Skills

In teams of 2 - 4, discuss how you would increase the digital skills in your country.

- How could you or your organisation make it a reality?
- Who would you need to involve?

Link to the Team Challenge Evaluation Form: bit.ly/eval-team

TEAM CHALLENGE (1)

Social Innovation Challenge

Instructions:

In pairs or teams, discuss emerging technology solutions to Sustainable Development Goals.

Be creative!

Further instructions

1. Choose an SDG
2. Choose an emerging technology
3. Discuss for 15 minutes
4. Present your ideas in 1 minute



Select an Emerging Technology

Artificial Intelligence	Blockchain
3D Printing	Unmanned Autonomous Vehicles
Internet of Things	Mobile Devices

Discuss

How can the chosen emerging technology be used to solve a challenge that fits with your selected SDG?

1. Start with a problem that you know about.
2. Discuss ideas as to how the technology can be used to solve the problem.
3. Prepare to present your problem and idea in 1 minute.