



Islamic Republic of Afghanistan
Ministry of Communication and IT

The future of cooperation partnerships between developed and developing countries

Hadi Hedayati, PhD
Deputy Minister

Symposium on
*“Strengthening the Capacities of Public Institutions & Developing Effective
Partnerships to Realize the 2030 Agenda for Sustainable Development”*

October 25th, 2018

Technology and us

Previous industrial revolutions liberated mankind from animal power

- Technology is reshaping the world
 - Artificial and Natural intelligence is merging
- Let us appreciate breakthroughs and scientific discovery
 - It will be impacting all disciplines, economies and industries
 - This will even be challenging ideas about what it means to be human

Ideas for life

- Countries connected by sea or land
 - Technology made all like a village
 - Look at Facebook
 - Still each country has its own currency
 - The blockchain technology maintains the Bitcoin transaction ledger
 - This is the biggest bank in the world
 - So, we should be connected to each other

Ideas for life

- 1 day a mobile phone will emit oxygen and not radiation, more changes in next 30 years
- Business operations will link with mathematical functions
- Artificial intelligence, 3D printing, efficient sustainable production and robotics will make, manage and mend products and services
- Korea developed a lot in ICT
- We need your support from hard-core Engineering point of view for 4IR, role of UN organization (UNPOG, UNDP, ...)

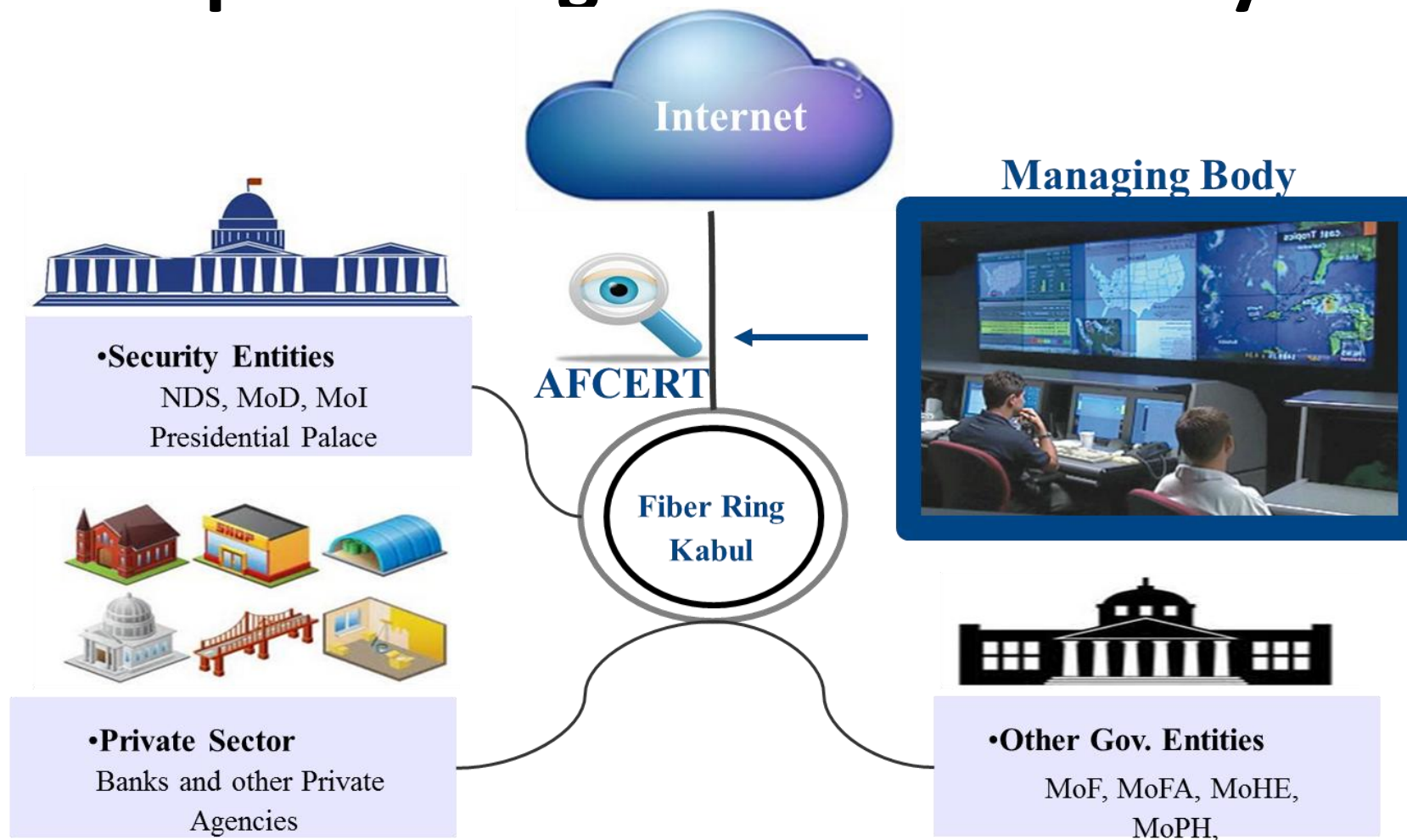
Current status

- Afghanistan will face these issues much slower
- But we developed a lot in last 15 years
- We link via best fiber optic service and wireless communication
- Silk road project connects (China, Kyrgyzstan, Tajikistan, Afghanistan)
4700 KM
- Digital CASA project is reshaping lives of our people
- Our talents are all set to meet global demands and expectations
- Regional connectivity (Turkmenistan, Uzbekistan, Tajikistan, Iran, Pakistan)

Current status apart to regional connectivity



Current status apart to regional connectivity



Current status

- 92% of country is covered by wireless telecommunication
- 76% of country is covered by fiber optics for 4G communication
- Planning to have a new satellite with 24 transponders
- 60%+ government employees are now computer literate
- Cost of internet average is lower than 12USD
- All set to become a regional IT hub by 2022

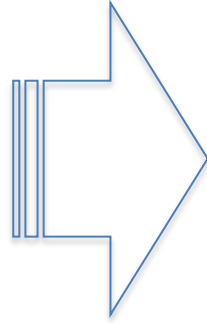


AFGHANISTAN



The ICT sector development

Very little
infrastructure and
almost no service



\$ 3 Billion Private investment

25 Million Subscribers

\$ 300 Million in gov revenue

92 % coverage

180000 jobs

90 % Telephone penetration

2001

to date



The robotic girls
team enabled to
win the races.

Developed and Developing Countries

- In First World countries people already enjoyed
 - benefits of a connected world, as well as new products and services
- Need to adequately plan and regulate this new capability
 - to ensure there is appropriate global equitabilities.
 - social tensions due to the socioeconomic changes brought by the Fourth Industrial Revolution
- The job markets segregated into “low-skill / low-pay” and “high-skill / high-pay”

Challenges

- IT's biggest future challenge is security,
- Can negatively impact connectivity of public networks,
- If not solved, government will stay aloof from citizens
- Distrust will grow, people cannot interact with government
- Artificial Intelligence cannot solve it, only skilled people can

Probable Solutions

- We must be proactive in shaping this technology and disruption.
 - requires global cooperation on how technology should reshape our global, economic, social, cultural and individual lives now on.
 - develop leaders with the skills to manage organizations through these dramatic shifts; or else we will be swept completely.
 - Our education and training system need to adapt to better prepare people for the flexibility and critical thinking skills they will need.

Result and conclusion

- Augmented Reality, IoT, Big data, Bio-printing, Quantum Computing, Genetic Engineering, Nanotechnology, Synthetic Biology calling us
- One day technology will vanish food shortages and other problems
- In future there will be vaccine for all cancers and much more
- Let me leave the rest to your imagination



let's be hope for
the global
partnership for
sustainable
development



Islamic Republic of Afghanistan
Ministry of Communication and IT

Thanks for your kind attention!

Hadi Hedayati, PhD

Deputy Minister

HDHEDAYATI@GMAIL.COM