



Islamic Republic of Afghanistan
Ministry of Communication and IT

The future of cooperation partnerships between developed and developing countries

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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, ...)

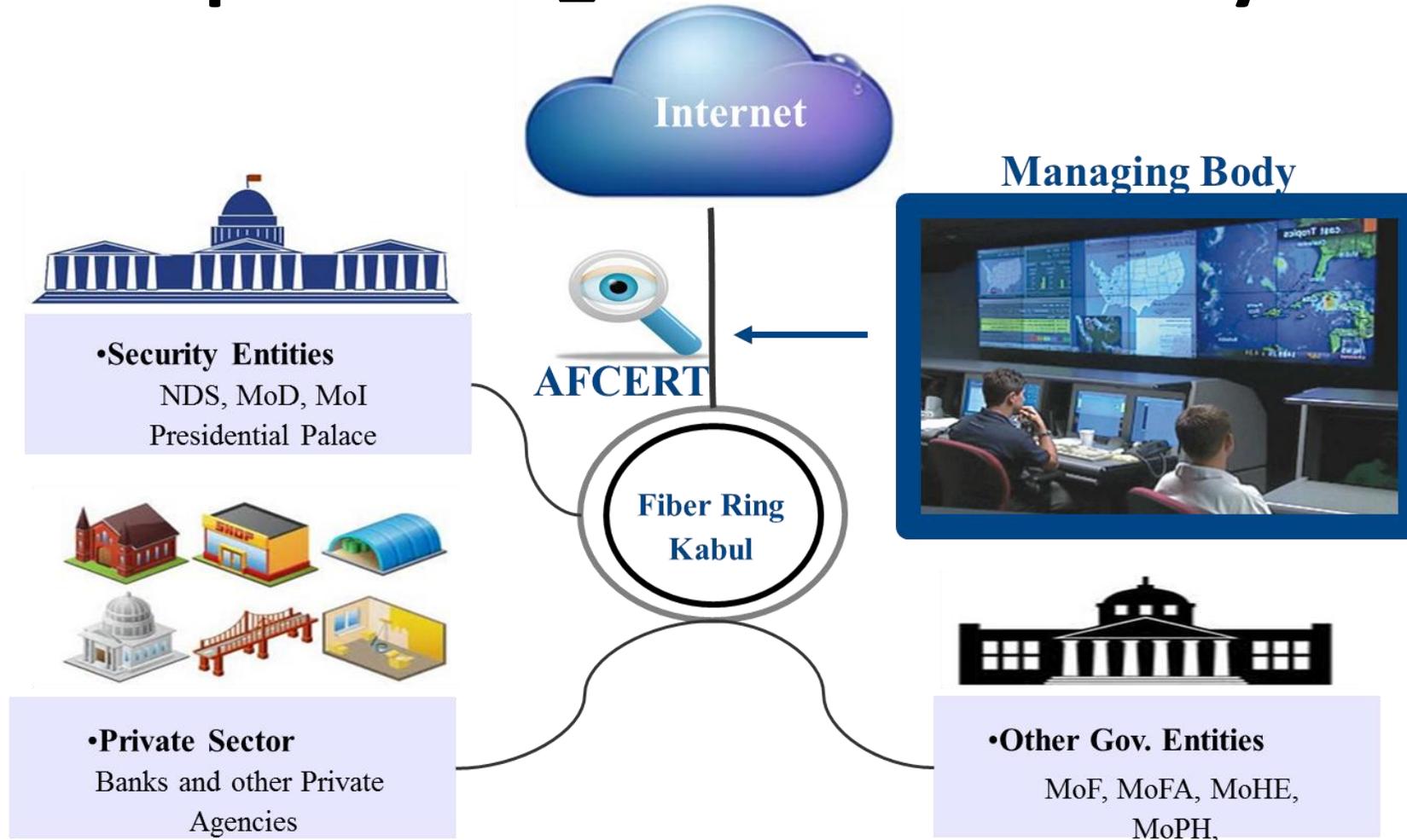
Current status

- 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

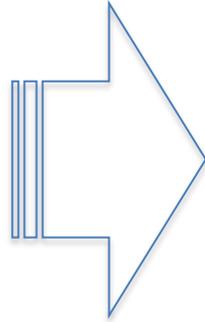


AFGHANISTAN



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



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Thanks for your kind attention!

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