



IRAN



Damavand peak



New Investment Opportunities
In Digital Economy & ICT
Industries of I.R. Iran
at 23th CIFIT
September 2023

IRAN

Multi Season, Multi Climate, Multi Culture,
Young Population with Digital Skills (Talents)

Location: West Asia

Area: 1,648,195 Sq. km

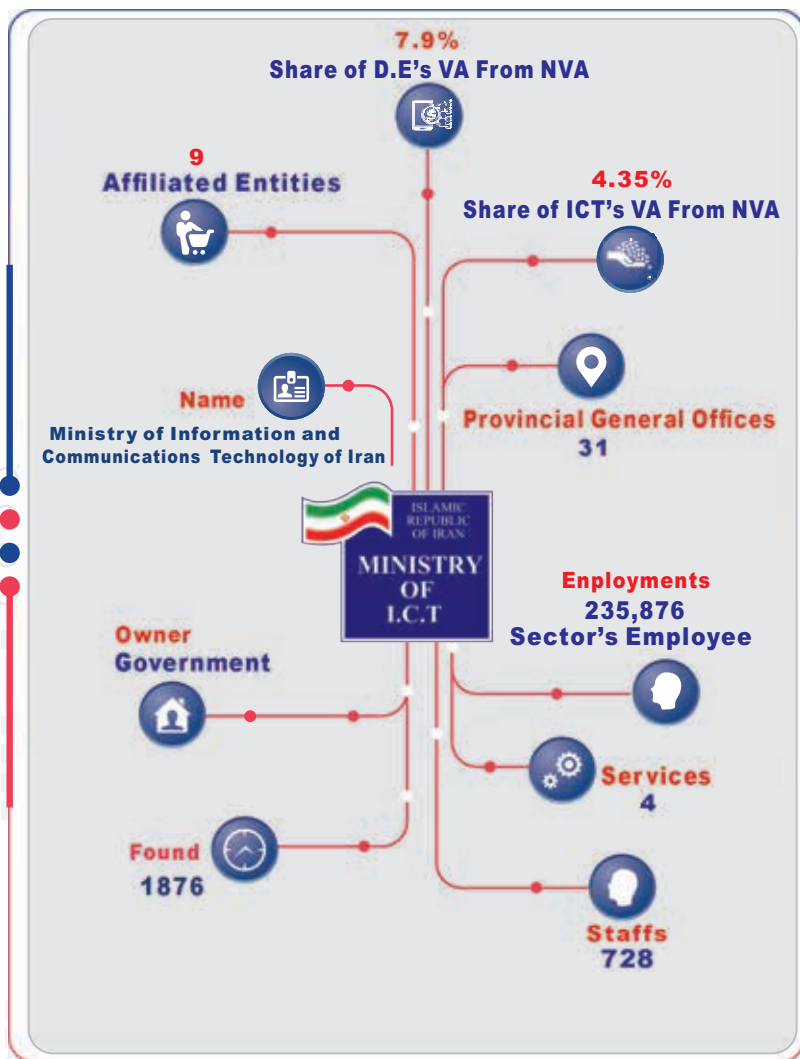
Population: 86,000,000

Land Boundaries: 5894 km

Coast line: 2440 km

Neighboring Countries: Turkiye, Iraq, Pakistan,
Afghanistan, Turkmenistan, Azerbaijan, Armenia, Qatar,
UAE, Oman, Bahrain, Kuwait, Saudi Arabia

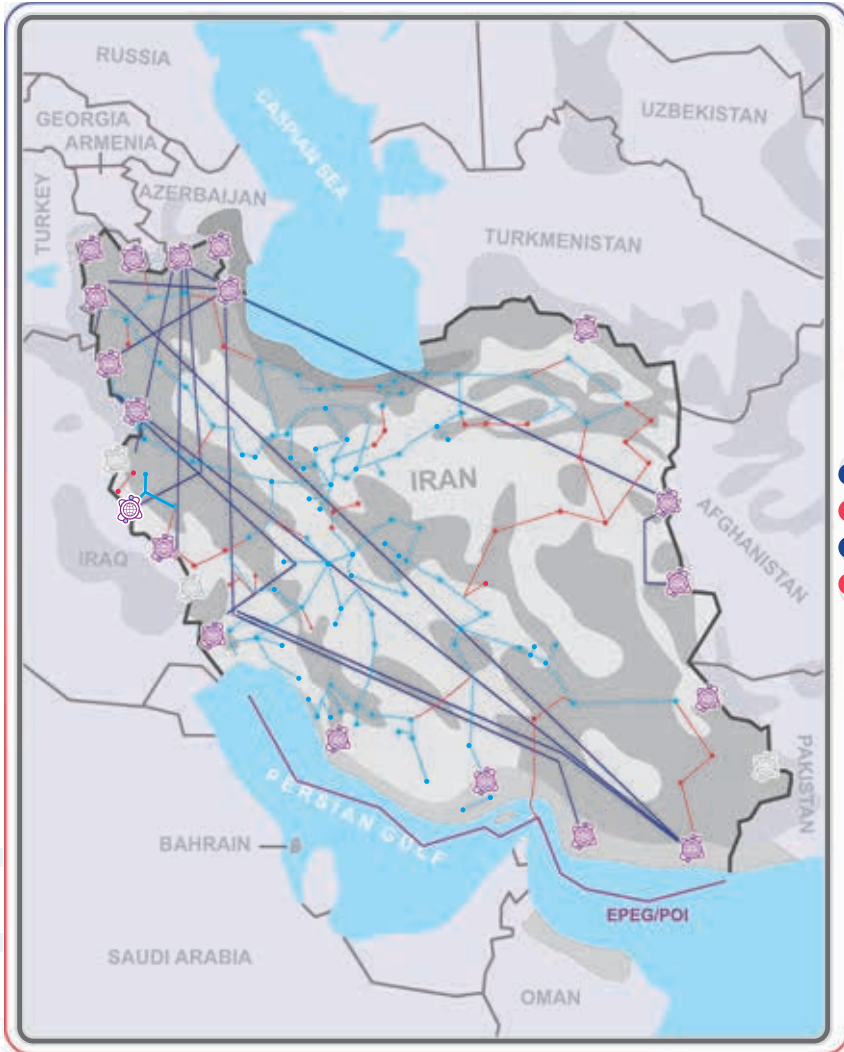




 ICT Central Bld, Shariati Ave, Tehran, IR. of Iran, P.Code 1631713931

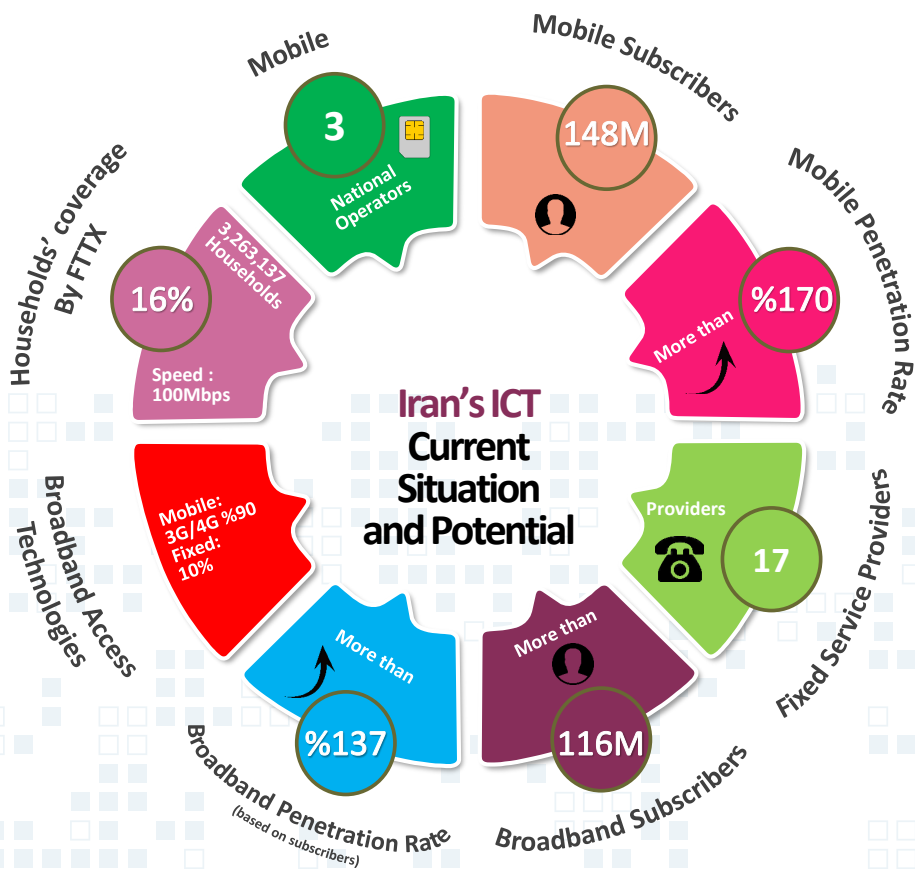
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| International Communication & Transmission |



Iran's ICT

Current Situation and Potential



Activities of the Union of Exporters of Engineering Services, Consultants and Contractors of the ICT Industries of Iran



Call Center



Firewall



Contact Center



Carrier Grade Border Control, Cloud SBC



CRM (Customer Relation Management)



System Integration, Consulting, Data Center Operation



Soft Switch



Cyber Security Products & Solutions, ICT E2E Solutions, Software & Data Integration, ..



TMS Access Controller (TAC) for Bank



Unified Communications



Network Access Controller (NAC) for Bank



Mobile Network Managed Services



NGN/IMS



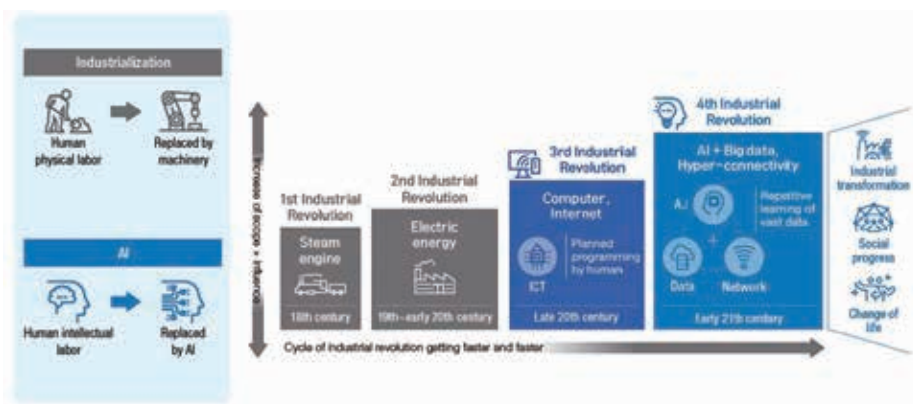
FTTX Network Design & Implementation



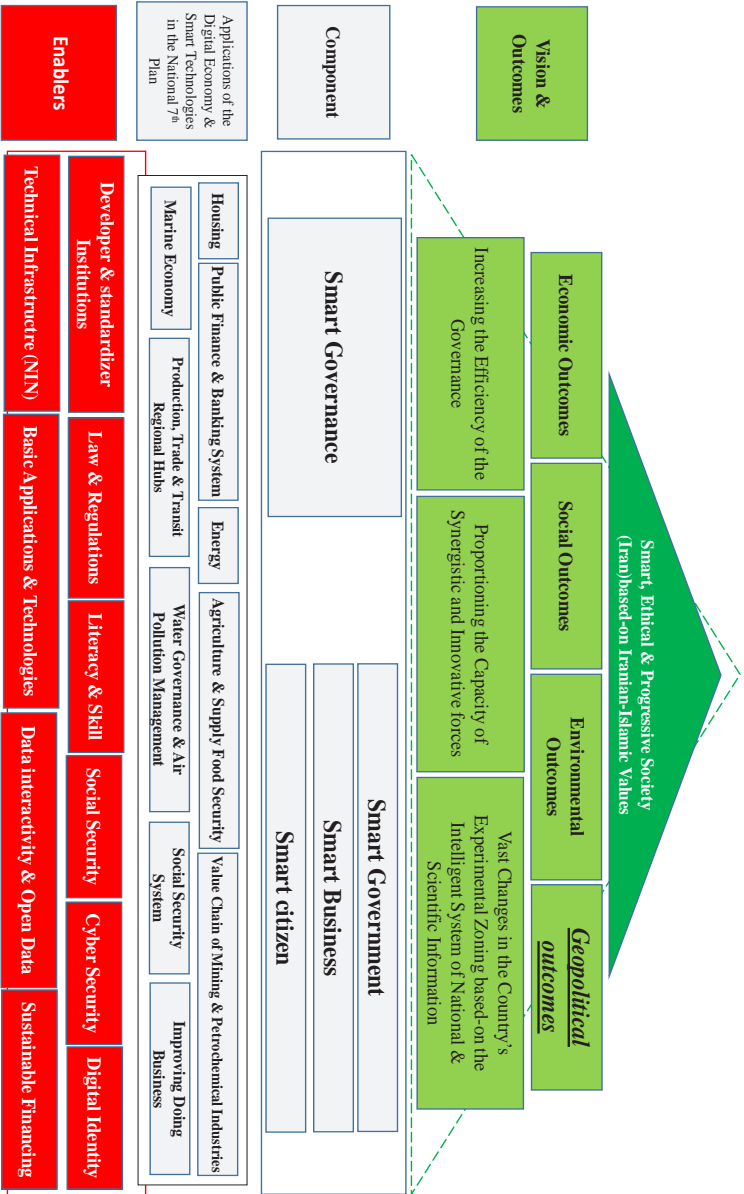
Hosted PBX

The development of the ecosystem of Iran's digital economy is considered in the model which affords empowering the cultural, social, environmental, economical and **geopolitical** impacts. The model's enablers are high-quality and affordable infrastructure, open data, cyber security along with sustainable financing, (Exploite PPP-type funding models and flexibly leverages social resources) agile regulation, and digital skills, by using emerging technologies as well as AI.

Comparison of Changes & Influence of the Industrial Revolutions



Iran's Digital Economy Framework



Iran's ICT Investment Opportunities

The following measures are considered for the Ministry of ICT to realize ultra broadband, high-speed, safe, applicable and sustainable digital communications, by implementing the extensive changes in the Iran's strategic zoning, based on the intelligent system of the national and scientific information:

1- Building, developing and equipping the required infrastructures for data transmission and transit in order to provide services as a regional and international hub.

2- Developing ICT infrastructures and its applications by localized its equipment and systems. Exporting them to the target countries to gain an effective share of regional and international markets.

3- Strengthening and reinforcing the connection network with the neighboring countries in order to exchange and transfer data and establish international relations.

4- Not only improving the sustainability of international relations and hub roaming but also being in the various points of the global traffic gateways.

5- Enhancing the quality, speed and security of broadband services for the citizens and economic players of all regions to produce standard and competitive digital products.

6- Developing the basics of human rights in cyber space, especially the rights of children, families and less privileged people in the digital world with regards to the Digital Global Compact.

7- Maintaining orbital points, and developing satellite communication systems, telecommunications and remote sensing and space monitoring services for all economic and social sectors of the I.R of Iran.

8- Creating thematic operators to promote the transdisciplinary effects of new technologies and developing its applications in the form of international and regional multifaceted platforms.

9- Strengthening digital governance and promoting international relations.

10- Recognizing and organizing the ownership right of data from origin to destination, for the subscribers of the national and international platforms.

11- Fair and free access to data in a comprehensive, cost-effective and safe manner based on the country's data governance system in compliance with international data and big data (GRC) regulations.

12- Positive trade balance in ICT products and services.

13- Achieving a higher position in the value chain of services and content in the region countries.

14- Developing the regional and international e-commerce by expansion of postal hubs and exchange centers capacity.

15- Implement and development a postal services platform with the approach of increasing the smart logistics' sharing of income.

16- Development and completion of information layers, native map and basic location services of the country (IoT, GIS, Big Data, Cloud, ...)

Proposed areas for cooperation in the field of exporting technical and engineering services, consultancy and transferring technical knowledge

Digital Economy

- Creation and deployment of digital platforms: in transportation, e-commerce, education, social networks and messengers
- Smart post: smart boxes, electrical motorcycles for delivery, E-commerce platform building
- Co-creation and establishment of innovation and technology centers
- Creating and deploying a smart greenhouse
- Specialized and smart customs for the digital economy
- Cybersecurity services

Space Industry

- Designing, building and launching remote sensing and telecommunication satellites
- Providing space-based services: in smart agriculture, natural disaster management, resource monitoring and management, urban development.
- Exchange of high-resolution satellite images in the territory of each country

Communication and Information Infrastructure

- Cloud computing and storage infrastructure
- Development of broadband fiber optic access network (FTTX)
- Data centers hubs
- Data transit through north-south and east-west corridors of optical fibers.
- Exporting digital communication equipment for core, aggregation and access networks
- Creation and development of the digital free zone
- HPC (High Performance Computing)

Proposed areas for joint investment and cooperation

Digital Economy

- Development of digital platforms
- Innovation and technology centers and joint startup ecosystem
- Cryptocurrency development of the eco domain
- Development of border and cross-border digital markets
- E-trade and digital trade among countries
- Small and medium-sized multinational businesses and of the digital economy

Space Industry

- Establishing a common base for space launches
- Designing, building and launching remote sensing and telecommunication satellites
- Creating a comprehensive space infrastructure including ground stations, data centers and satellite test and assembly centers
- Development of space launchers to send heavy cargo to high altitude orbits
- Preparation and joint operation of geostationary telecommunication satellites
- Conducting research and development activities in various fields of space sciences and techniques including astronomy, astrophysics and space medicine

Communication and Information Infrastructure

- Production and localization of equipment (smartphones, laptops and tablets)
- Production and localization of communication equipment (switch, server, storage; smart sensor)
- Create a High Performance Computing
- Improving the capacity of North-South and East-West transit corridors and optical fibers
- Cooperation in the frequency spectrum excellence centers

Details of Investment Project In ICT Ecosystem

Project title: FTTX	Products/Services: High-speed Internet based on optical fiber
Estimated project cost:	85.7 million EURO
Counterpart funding (if any):	Not available
Internal Rate of Return (IRR):	32.3%
Payback Period (PP):	5.16 Year
Net Present Value (NPV):	12.9 million Euro for 10 Year
Proposed financing instrument:	PPP
Program/Project Period:	2 Years
Responsible Sector ministry	MICT
Implementing Agencies	MICT

Details of Investment Project In ICT Ecosystem

Project title: Payam data center	Products/Services: Providing data center services
Estimated project cost:	48.4 million EURO
Counterpart funding (if any):	Not available
Internal Rate of Return (IRR):	48%
Payback Period (PP):	3/5 Year
Net Present Value (NPV):	16/8 million Euro for 10 Year
Proposed financing instrument:	PPP
Program/Project Period:	2 Years
Responsible Sector ministry	MICT
Implementing Agencies	MICT

Details of Investment Project In ICT Ecosystem

Project title: Development of intelligent post logistics	Products/Services: intelligent post logistics
Estimated project cost:	190.3 million EURO
Counterpart funding (if any):	Not available
Internal Rate of Return (IRR):	41.34%
Payback Period (PP):	8 Year
Net Present Value (NPV):	31.65 million Euro for 10 Year
Proposed financing instrument:	PPP
Program/Project Period:	2 Years
Responsible Sector ministry	MICT
Implementing Agencies	MICT

Details of Investment Project In ICT Ecosystem

Project title: AI factory	Products/Services: finding solutions for industries based on AI
Estimated project cost:	6.9 million EURO
Counterpart funding (if any):	Not available
Internal Rate of Return (IRR):	Not available
Payback Period (PP):	Not available
Net Present Value (NPV):	Not available
Proposed financing instrument:	PPP
Program/Project Period:	2 Years
Responsible Sector ministry	MICT
Implementing Agencies	MICT



Islamic Republic of Iran
Ministry of ICT





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