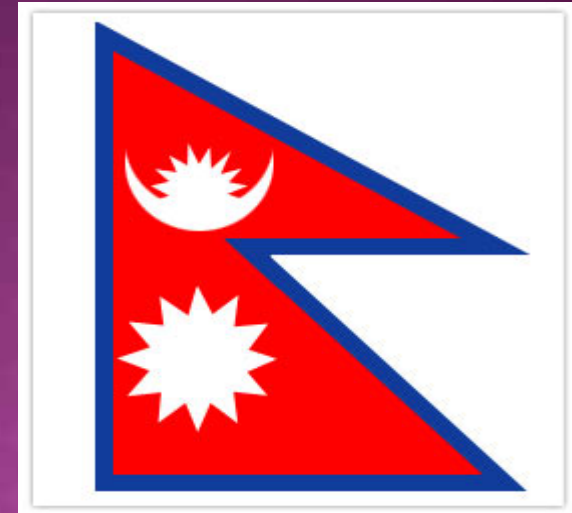
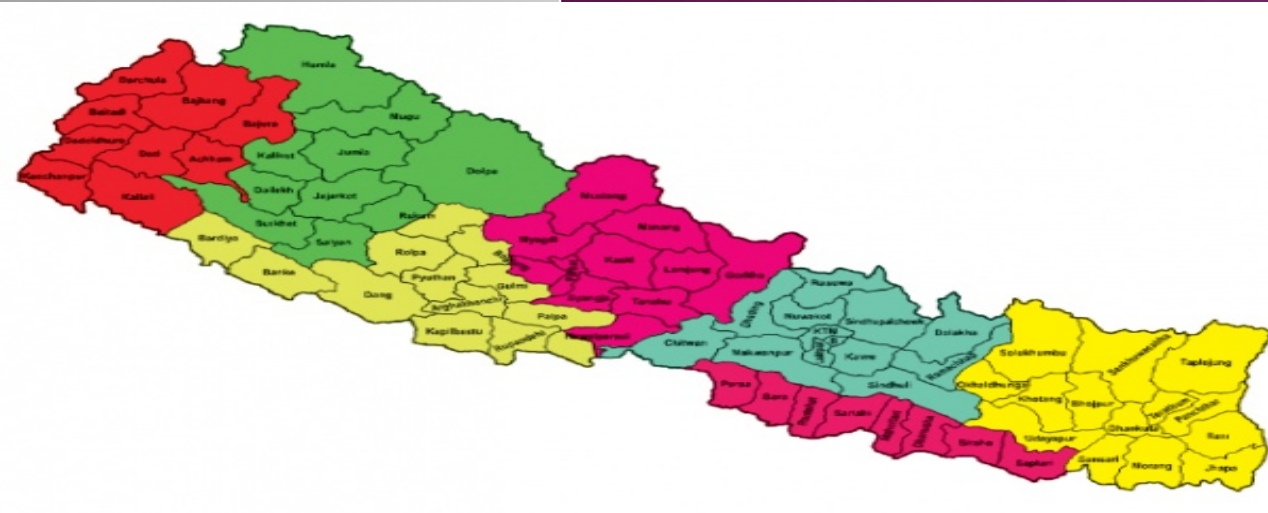


ICT POLICY AND ICT PROJECTS IN NEPAL



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Ministry Of Science and Technology

Government of Nepal

COUNTRY PROFILE

Area

- Total: 147,141 Sq. Km
- Mountains and Hill: 83 % Terai(flat Land): 17%

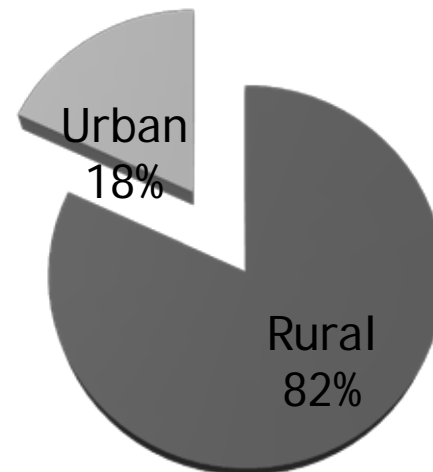
Population

2011 Census

- Total 26.5 Millions
- Female: 13.7 Millions
- Male: 12.8 Millions

2015 Projectin

- Total 28.04 Millions
- Female: 14.45 Millions
- Male: 13.59 Millions



Urban: 4.8 Millions
Rural: 21.7 Millions

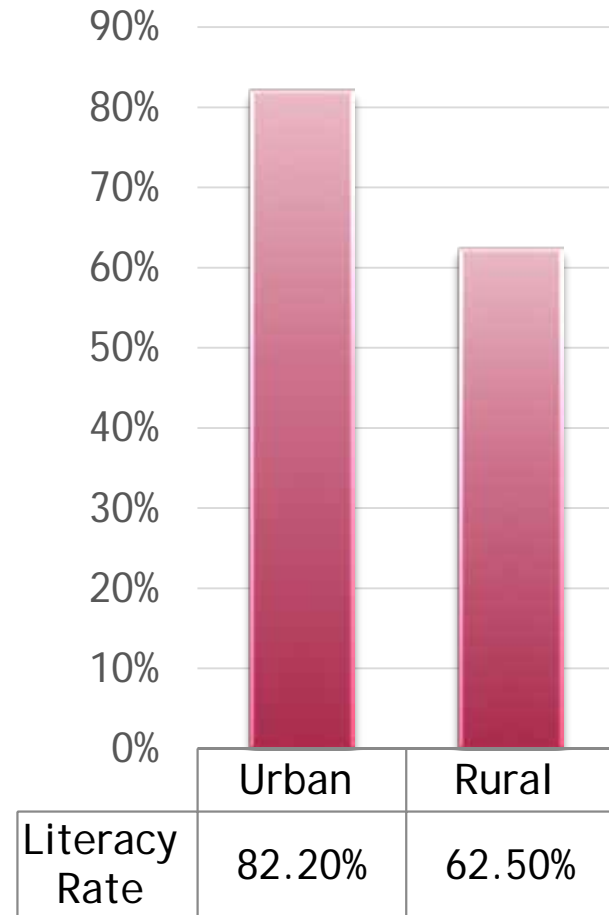
COUNTRY PROFILE

7 States

753 Local Governments

Literacy rate (2011, 5 years and above)

- National: 65.9%
- Male: 75.1%
- Female: 57.1%



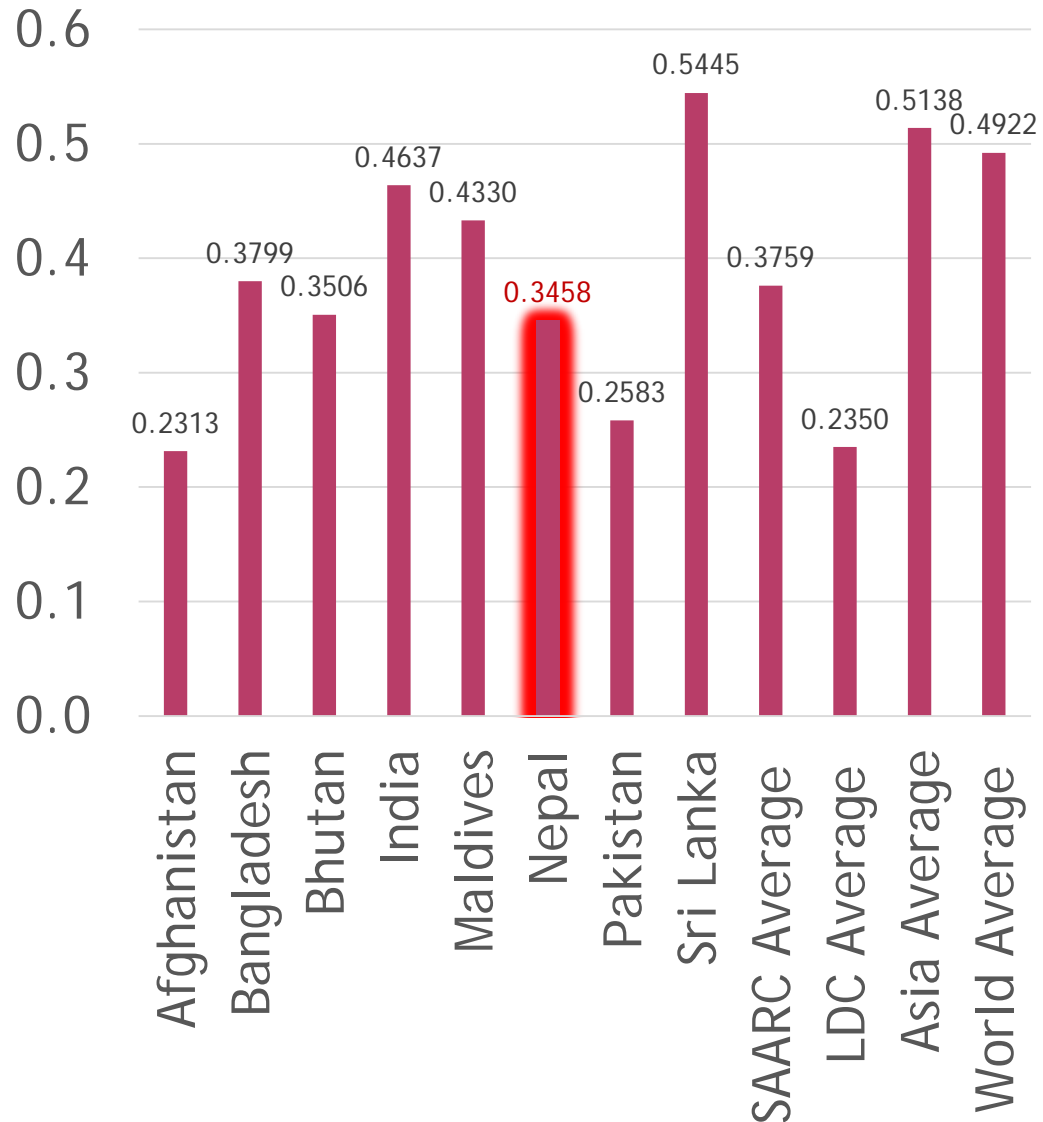
COUNTRY PROFILE

ICT Facts and Figures

- ICT Development Index: 142 (ITU, 2016)
- Network Readiness Index: 118 (World Economic Forum, 2016)
- 7.4% of Household have Fixed Telephone line connection (2011 census)
 - 6.2% of household have internet connectivity (Nepal Telecom Authority)
 - 64.6% of Household has at least one mobile subscription
 - 7.3% of Households own Computer
- Total mobile subscription is 128% of population (one individual can subscribe multiple mobile connection) out of which 45% have subscribed Internet.
- Total Internet Penetration Rate: 59.69 (NTA)

Nepal's Position in UN e-Government Development Index (2016)

- Global Rank: 135
(out of 193)
[165 in 2014]
- Asia Rank: 35
(out of 47)
- SAARC Rank: 6
(out of 8)
- LDC Rank: 6
(out of 36)



Constitutional Provision

- In Development Policy of “Constitution of Nepal” it is stated that
- “Developing and expanding Information Technology as required by the nation, and making its access simple and easy by general public, while also making its maximum use for national development.”

ICT Policy, 2015

Vision

- Transforming Nepal to Information and Knowledge based society through use of ICT

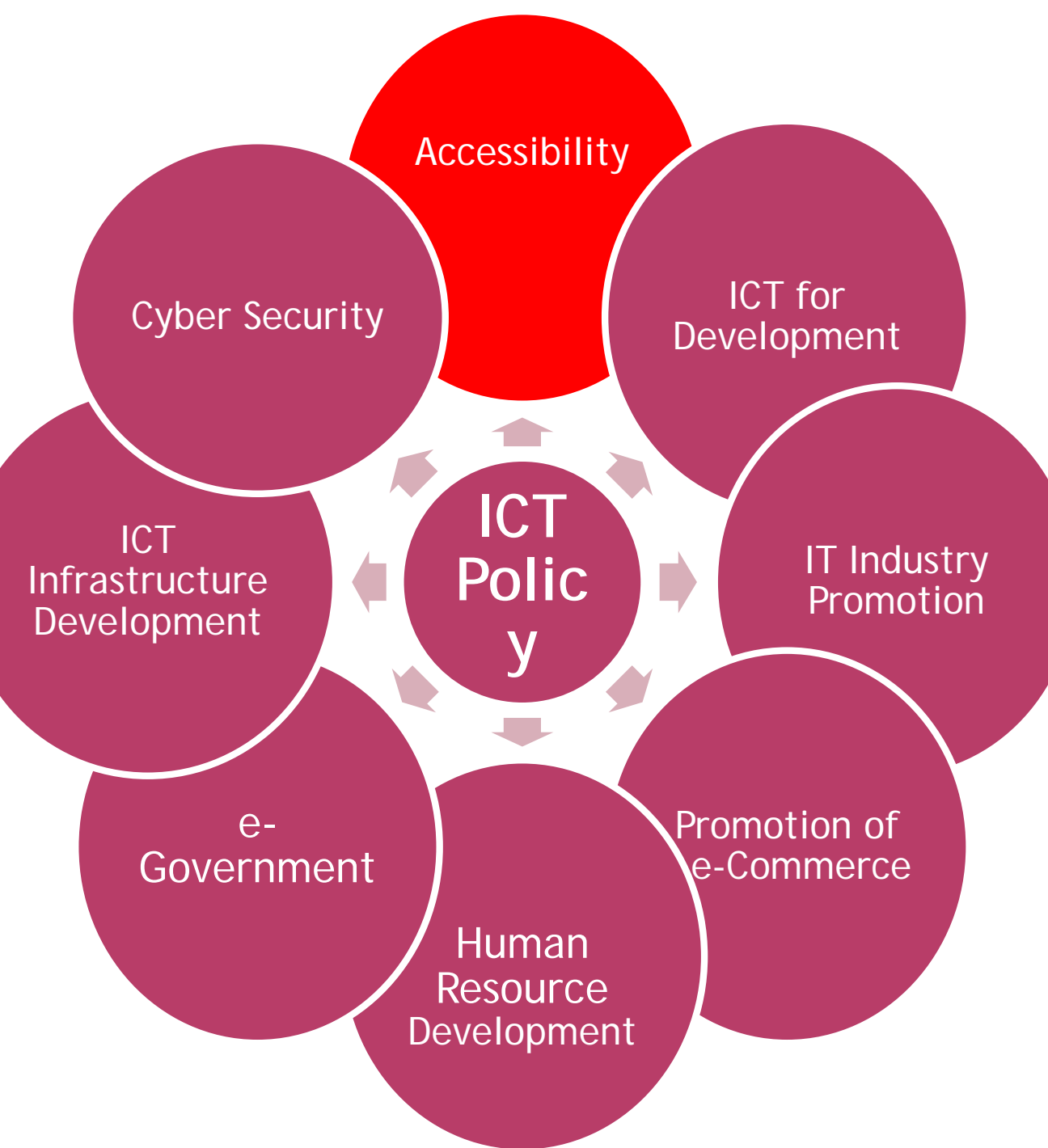
Goals

- By 2020
 - Place Nepal into top second quartile in Network Readiness
 - 75% of population will be digitally literate
 - 90% population will have access to broadband
 - Contribution of ICT sector (except telecom) in GDP will cross 2.5%
 - Everyone will have access to internet
 - 80 % of govt. services will be online to the citizen
- All the government owned broadcasting service will be transformed to digital technology by 2017.

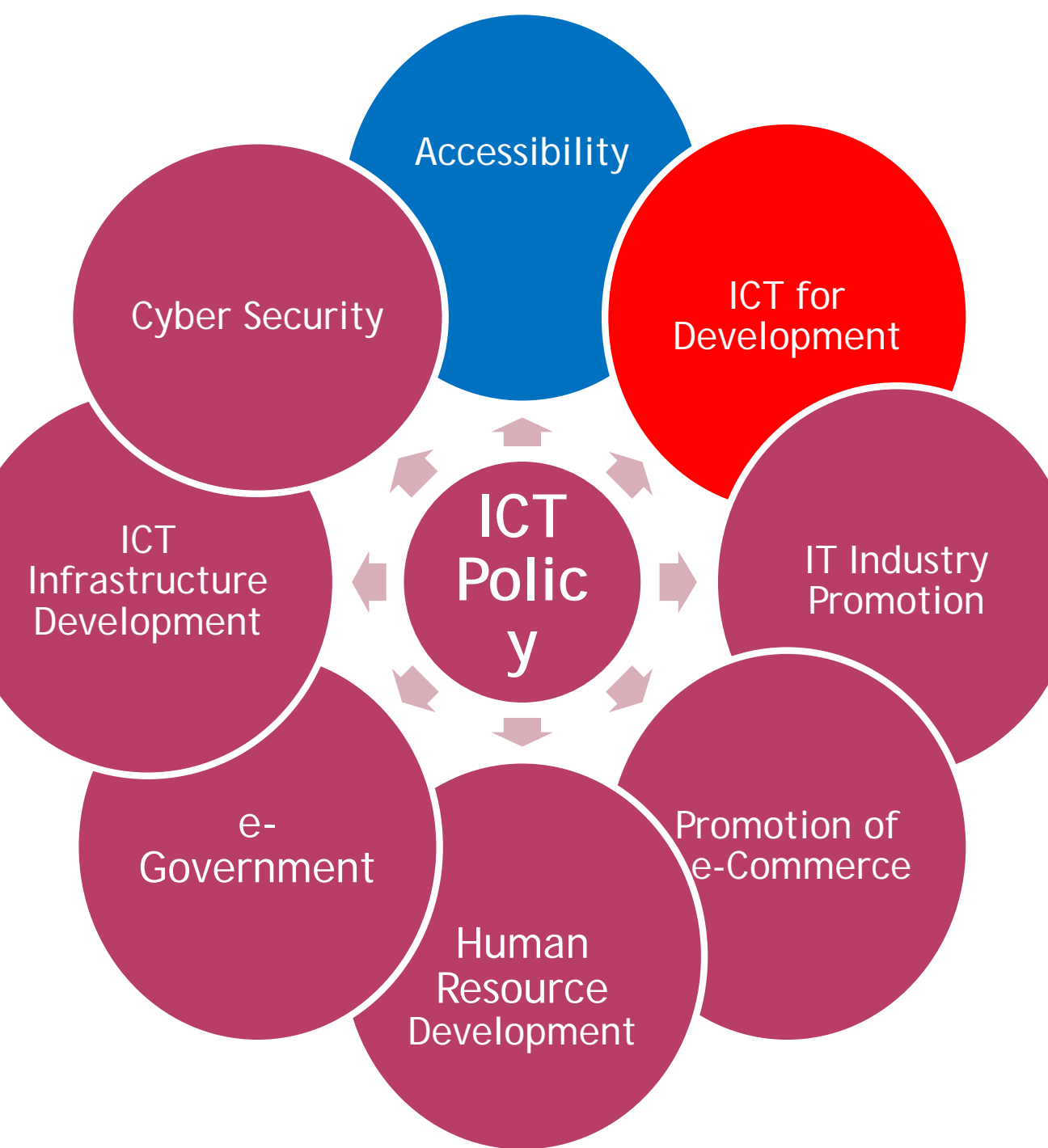
ICT Policy, 2015

Key Policy Focus Areas

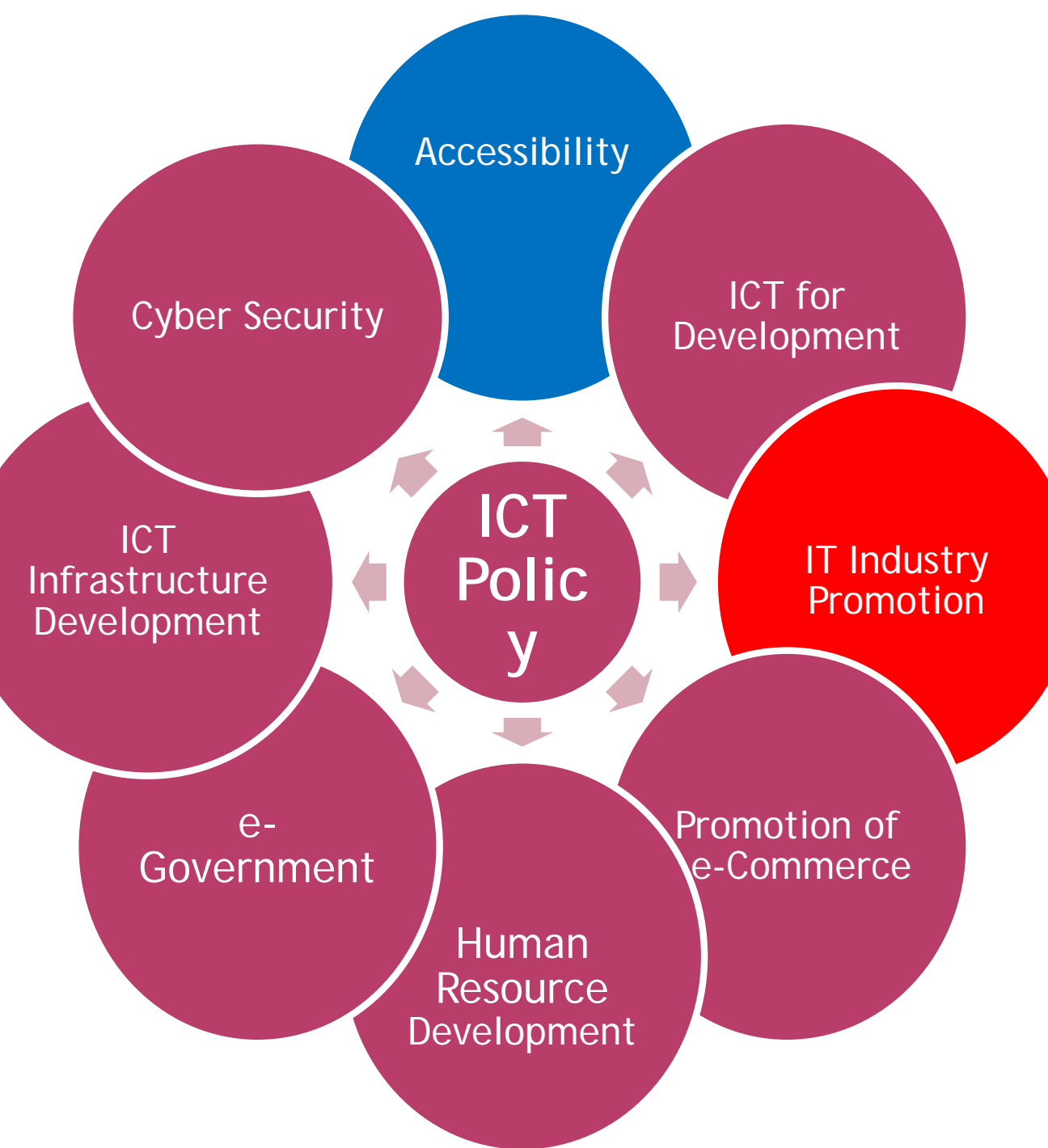
- Accessibility
- ICT for Development
- E-Government
- IT Human Resource Development
- Cyber Security
- ICT Infrastructure Development
- IT Industry Promotion
- Promotion of e-Commerce and SMEs



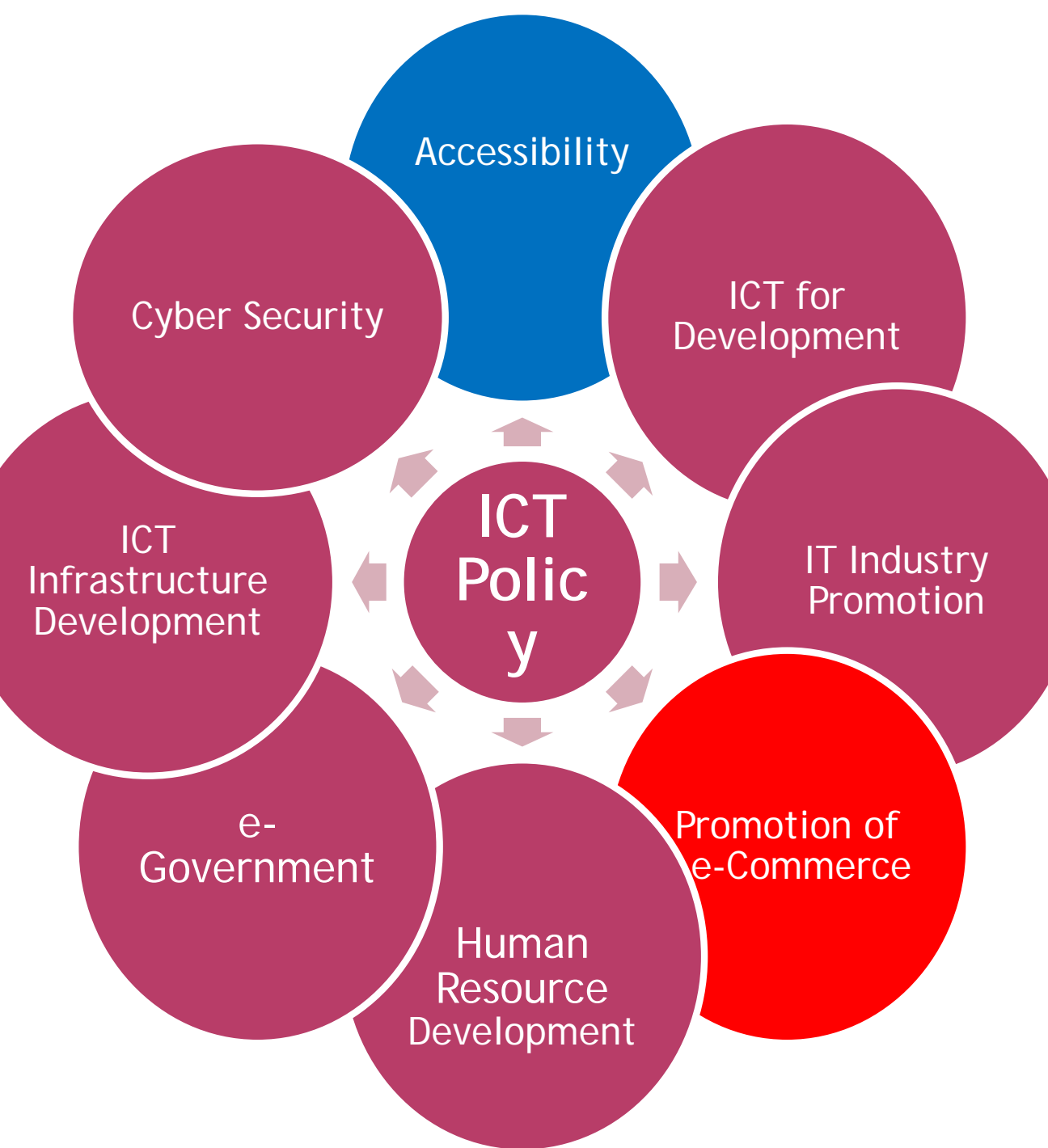
- Establishment of Community ICT Center
- Development of Postal Office and Community Library as a e-Service Center
- Use of RTDF (Rural Telecommunication Fund) to connect the unconnected
- Development of Local Content
- Implementation of digital inclusion programs



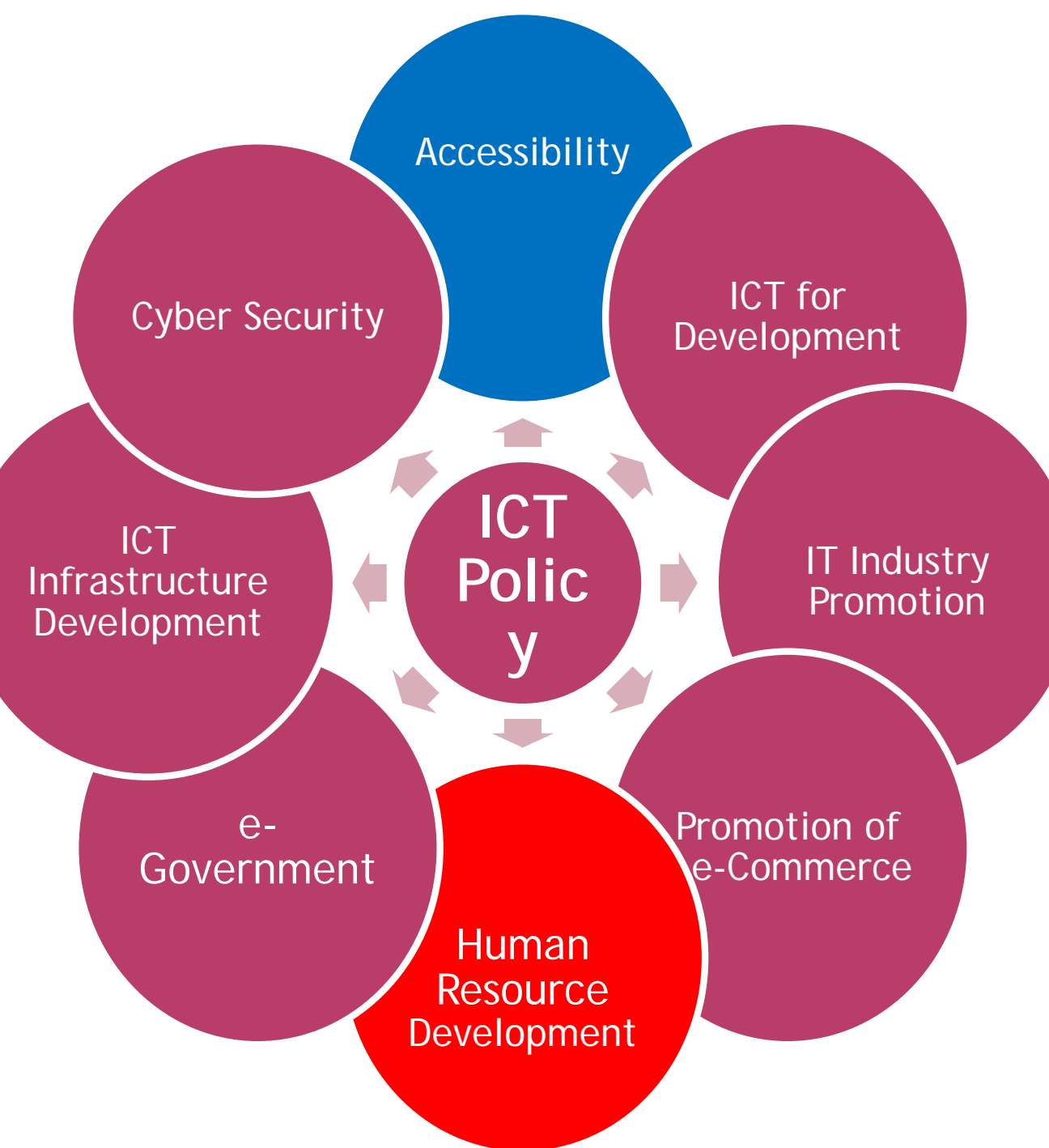
- Use of ICT in
 - Health
 - Agriculture
 - Tourism
 - Education
 - Climate change
 - Natural resource and environment management
- e-Waste management



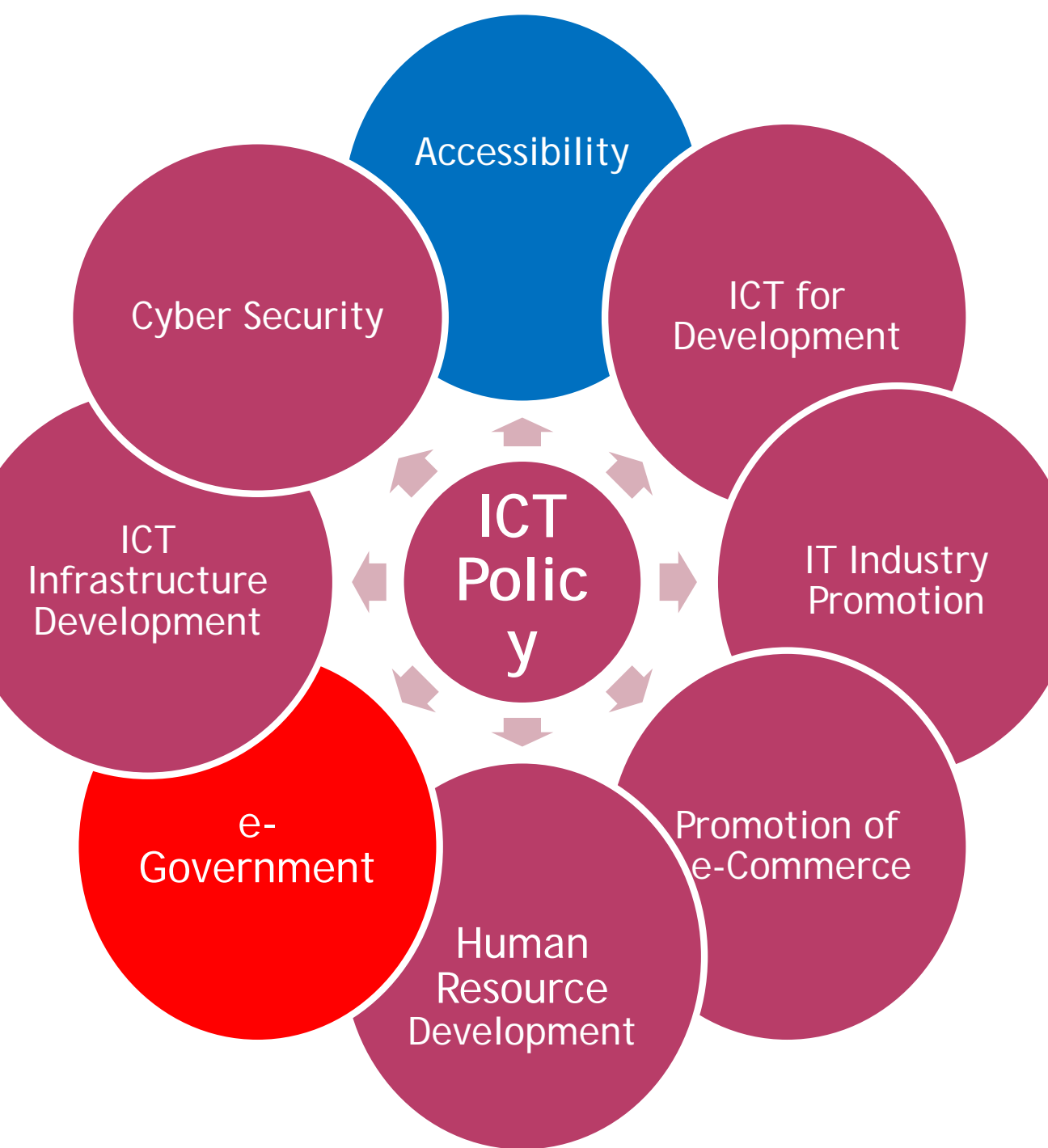
- Promotion of IT enabled SMEs
- Introduction of special strategy for Foreign Investment promotion and Technology Transfer
- Establishment of IT-ITES business promotion unit
- Introduction of Regulatory framework to illuminate current issues related to IPR, Privacy, and Information Protection
- Establishment of Software and Services Promotion Board.



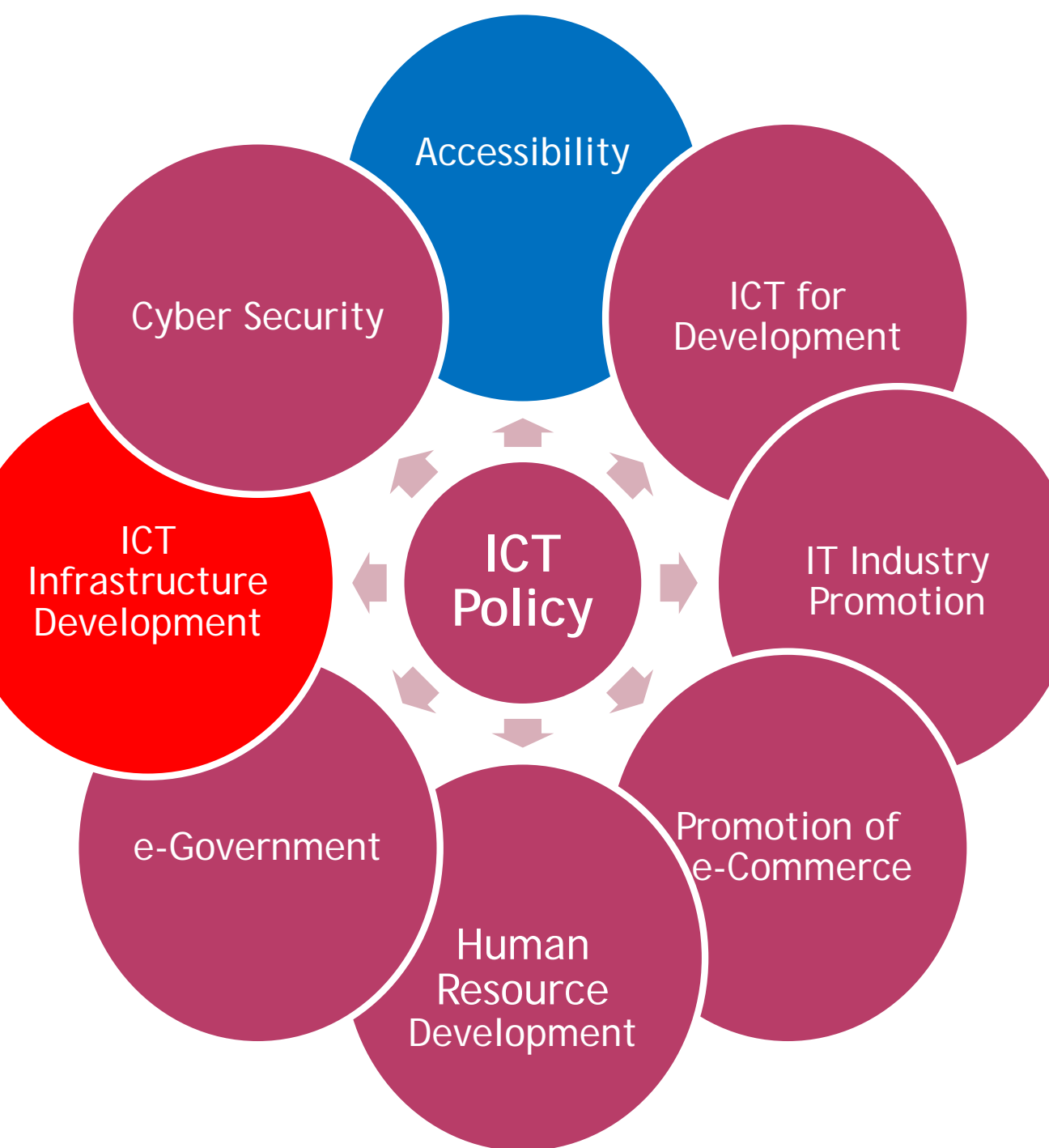
- **Strengthening online-payment services**
- **National e-Commerce readiness Assessment**
- **Use of Virtual Market Place to ensure access of international market of export oriented SMEs**
- **Start of Payment Infrastructure Service.**
- **Compatible legal and regulatory framework**



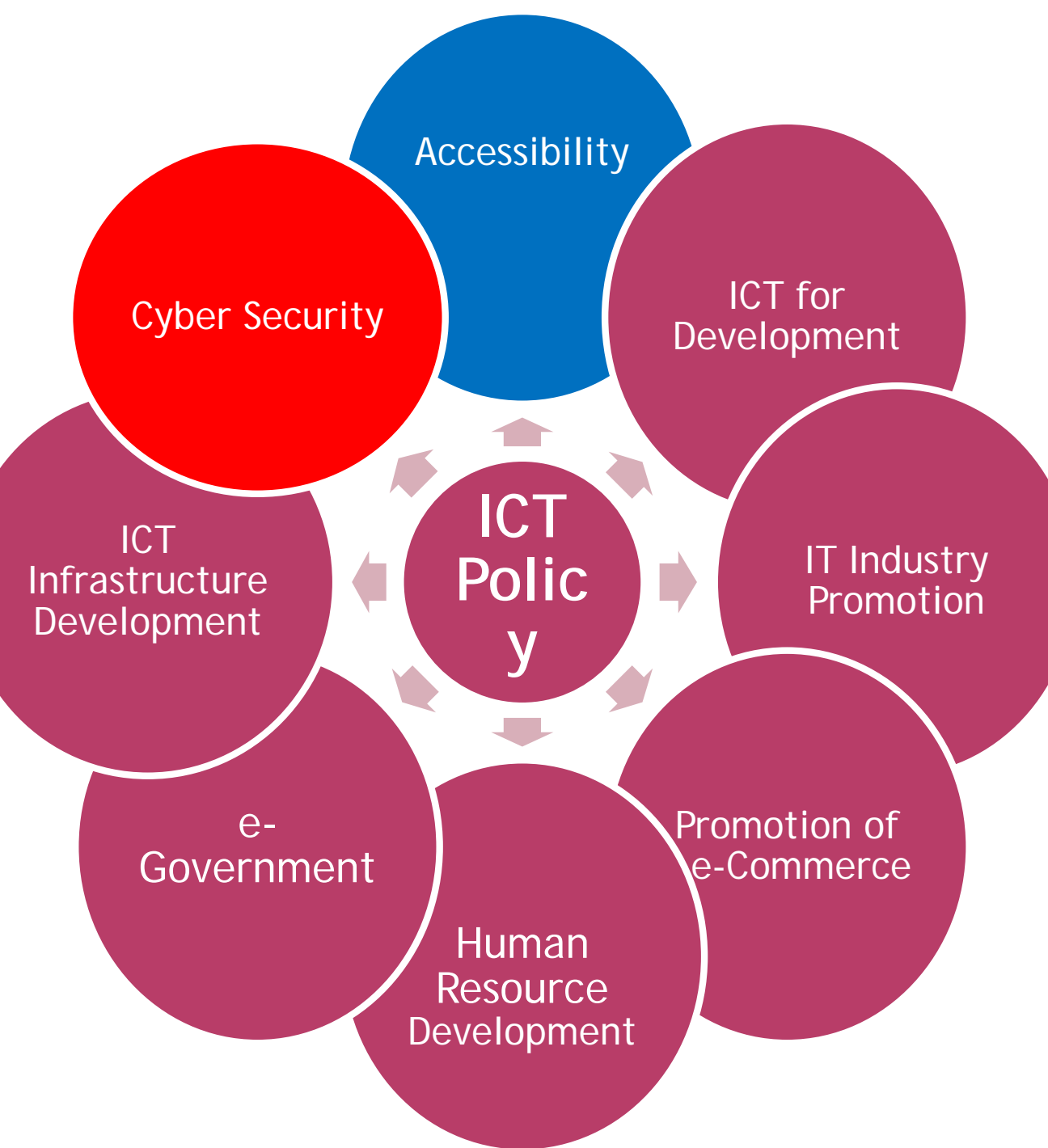
- Increase quality along with number of ICT related Human resource
- Focus on youth and gender equality
- Development of IT Volunteers in Rural areas to increase digital literacy
- Introduce skill certification program
- Integrate IT education in school curriculum



- **Revising of e-Government Master Plan**
- **e-Service Integration through effective implementation of GEA and NeGIF.**
- **Adherence to Open Government Principles.**
- **Development of National Geographic Information Infrastructure for effective development planning.**



- Development of country wide Back Haul ICT Network
- Implementation Market Based Guidelines for sharing for infrastructure, service fee determination, n/w interconnection etc.
- Development of ICT infrastructure based on concept of Smart Cities.
- Feasibility study of utilizing Nepal's orbital assignment
- Facilitate digital convergence through regulatory reform



- **Formulation and implementation of National Cyber Security Policy**
- **Establishment of Government CERT**
- **Capacity building of Law Enforcement Agencies**
- **Widen Cyber Security Awareness/capacity building programs**
- **Academia collaboration for HRD in the field of Cyber Security**

Other Related Provisions

- Foreign direct investment will be attracted to set up Data Centers.
 - Govt. will facilitate to obtain land and other resources foreign companies willing to establish high altitude data center in Nepal.
- The due process of registration, de-registration and liability clearance of industries and businesses will be simplified.
- For promotion of private sectors and industrial expansion, Foreign Investment and Technology Transfer Act will be tabled to the Legislature-Parliament.
- Indicators of doing business cost will be improved.
- Internet service will be provided free of cost in community campuses, community higher-secondary and secondary schools and primary health centers.
- Blueprint to develop selected 10 cities as a smart cities will be prepared.
- Integrated IT bill draft is almost final and very soon it will be tabled in Parliament.

MAJOR IT SYSTEMS

e-Taxation System - Income Tax, VAT, Excise

e-Custom System

Online Company Registration System

e-Procurement System

Passport Management System (MRP)

Land Records Management System

e-Driving License Management System

System for Biometric Based Voter-List

Public Key Infrastructure

Government Integrated Data Center and DR

Treasury Single Account

CURRENT IT PROJECTS

1. National Identification System

- Digital ID for all citizen
- Pilot phase has been started
 - Covers basic setup and distribution of 117 thousands Smart National ID Cards
 - Expect to be completed within a year
- After successful completion of pilot
 - next phase of project will begin for full roll to cover all citizen with
 - National ID System will be used to enhance e-Service delivery

2. Government Cloud

- About 50 Government information systems from 21 Government agencies are hosted in Government Cloud system. Now it is running well.

CURRENT IT PROJECTS

3. Establishment of e-Village Centers

- Establishment of ICT service center in rural areas
- Will be a Center of e-Service access, digital content access and other ICT facilities
- Currently 45 centers are in operation and all will be upgraded as Integrated Information Service Center by this fiscal year as pilot projects.

4. Smart Cities

- Local Government and Federal Government's election mandates.
- Feasibility study is in process for three cities

5. Single window System for Trade Facilitation

- Project is in initial stage of implementation

CURRENT IT PROJECTS

National Payment Gateway

- Initial Study is being conducted by Central Bank

National Information Highway

- Project to provide backhaul connectivity to district headquarters in first phase and to Village level in second phase by 2020.

Central Immigration Control System

- In phase of Technical study.

Thank You !!!