



# Ministry of Information and Communications of Socialist republic of VietNam

## **ADDRESSING THE BARRIERS FOR DEVELOPMENT OF DIGITAL INFRASTRUCTURE**

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21-22 August 2017  
New Delhi, India



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# Country Profile (1)

VietNam's Location in the world



VietNam is situated in the south-eastern part of Asia, on the west coast of the Pacific Ocean



## Country Profile (2)

- ◆ Name : Socialist Republic of Vietnam
- ◆ Area : 331'114 km2,
  - 25% delta
  - 75% mountainous.
- ◆ Language : Vietnamese
- ◆ Capital : Hanoi
- ◆ Population: 95 Million (2016)
  - 65% in rural and remote local
- ◆ 63 cities & provinces (~ 500 districts, 10.000 communes).
- ◆ VietNam has border with China, Laos, Cambodia
- ◆ Many nice places

=> Welcome to Vietnam





# Achievements in development of digital infrastructure

## 1. Some achievements

- More than 10 million subscribers use fixed broadband Internet
- Nearly 49 million subscribers use mobile broadband Internet
- Nearly 2 billion Mbps of local connection bandwidth
- 4.7 million Mbps of international connection bandwidth
- 115 million mobile subscribers, including 49 million 3G and 4G subscribers
- Cover 4G to 99% of the national population with over 40,000 base stations
- More than 90% of the communes in the whole country have fixed broadband infrastructure
- Widely used technology applications in the world: Fintech, Uber, ...
- E-commerce in 2016 : \$ 900 million



# Achievements in development of digital infrastructure

Overview about development of digital infrastructure in Vietnam:

- By 2020: 60 millions smartphone users

  - E-commerce estimates to 5 billion USD

  - The online advertising market: 950 million USD

- Vietnam has identified the Internet as a connectivity infrastructure for digital economy, cultural life, technology... not also is city but is in rural remote areas...



# Achievements in development of digital infrastructure

## Overview about development of digital infrastructure in Vietnam:

Some achievements:

- The Government has a project in the development of broadband telecommunications infrastructure nationwide, especially remote areas, disadvantaged areas. The total investment is about nearly 300 million USD in this program, funded by telcos.
- It also cover broadband Internet access services of educational institutions, hospitals and People's Committees of communes nationwide.
- Support broadband Internet for all communes and about at least 5% of total households in communes. People in this areas can use all services provided by Government and enterprises.



# Barriers for development of digital infrastructure

1. Capital
2. Human resources
3. Improve infrastructure
4. Policy





# Addressing the Barriers for development of digital infrastructure

## 1. Capital

- Capital is very important, not also digital infrastructure but in many sectors in our country.
- We have opened the market for private capital from domestic and foreign investor.
- Especially, the Government warm-up start-program for young talents in digital economy.
- Some big cities have project to built smart city.
- For that reason. we need lots of capital in digital infrastructure.



# Addressing the Barriers for development of digital infrastructure

## 2. Human resources

- From now to 2020, Vietnam has a shortfall of 80,000 IT's human every year.
- We need to set up universities and high-quality job training schools to train high quality in the fields of IT, telecommunications and Internet.
- Encourage talented people who have worked overseas to work for Vietnam enterpries.



# Addressing the Barriers for development of digital infrastructure

## 3. Improve Infrastructure

Here are some solutions to improvement our infrastructure

- Sharing infrastructure between enterprises, telcos
- Supporting the endpoints use 4G, high speed Internet.
- Implementing information technology application and continue promoting IT application in state agencies.



# Addressing the Barriers for development of digital infrastructure

## 4. Policy

- Issue some key policies for development of digital infrastructure, such as : e-government, e-health, e- education, smart cities...to meet the demand of trends
- Continue to invest more in telecommunications infrastructure nationwide.
- Encourage telcos, enterprises to launch new services in value added services : in finance, bank, entertainments...



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**Any questions, please send email:**

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**Thank you.**