



**KEMENTERIAN KOMUNIKASI DAN INFORMATIKA
REPUBLIK INDONESIA**

Network Sharing

**Dr. Ir. Basuki Yusuf Iskandar, MA
Head of R&D and Human Resource Development
Ministry of Communication and Information Technology**

Introduction

- More Competitive Environment
- More demand on equitable development
- How to create policy to achieve both competitiveness and equality development of the Nation

ICT

- ◎ ICT is more massive and overwhelming
- ◎ ICT has a stronger role in our life
- ◎ ICT become more significant in leveraging our competitiveness and also in driving the growth and welfare in urban as well rural
- ◎ So at the same time, we have to drive the higher efficiency, to achieve a higher competitiveness, and also encourage willingness to invest in ICT industry to have more equitable and stronger infrastructure capacity

Network Sharing

- ⦿ Network sharing is a nature in ICT industry,;
Network Externality
- ⦿ The level of network sharing reflects the level
efficiency in industry
- ⦿ Very important to create such a good circumstances
to promote network sharing

What To Share ?

1. Site sharing

- Operators sharing the same physical compound / share location to build tower

2. Mast sharing

- Sharing the same mast (tower), antenna frame or rooftop.

3. RAN Sharing

- Sharing of all access network equipment, including the antenna, mast (tower) and backhaul equipment

4. Core network sharing

- Sharing of core network including frequency

5. Network roaming

- Network roaming can be considered a form of infrastructure sharing although traffic from one operator's subscriber is actually being carried and routed on another operator's network. However, there are no requirements for any common network elements for this type of sharing to occur

“Market” of Network Sharing

- ◉ If supply of network is very much in imbalance and dominated by one operator, the market tend to be monopolistic
- ◉ It is easier for regulator under circumstances of more balance possession of network, this situation promote more room of cooperation among operators
- ◉ It is important both “to impose willingness to have network sharing” and also “to impose willingness to invest”
- ◉ Willingness to share promote efficiency and competitiveness, while wilingness to invest promote equitable and better quality of services