John Sihar Simanjuntak
IPv6 Development Updates in Indonesia

Indonesian IPv6 Task Force

- As a National IPv6 Task Force which is involving many stakeholders and coordination between entities : ISP's, APJII and DG Postel.

- Coordinating activities in supporting IPv6 implementation.

- Encouraging telco operators and manufacturer to gain benefit from implementation of IPv6.

- Ensuring the participation of all stakeholders.

- Promoting IPv6 type approval and interoperability equipments.

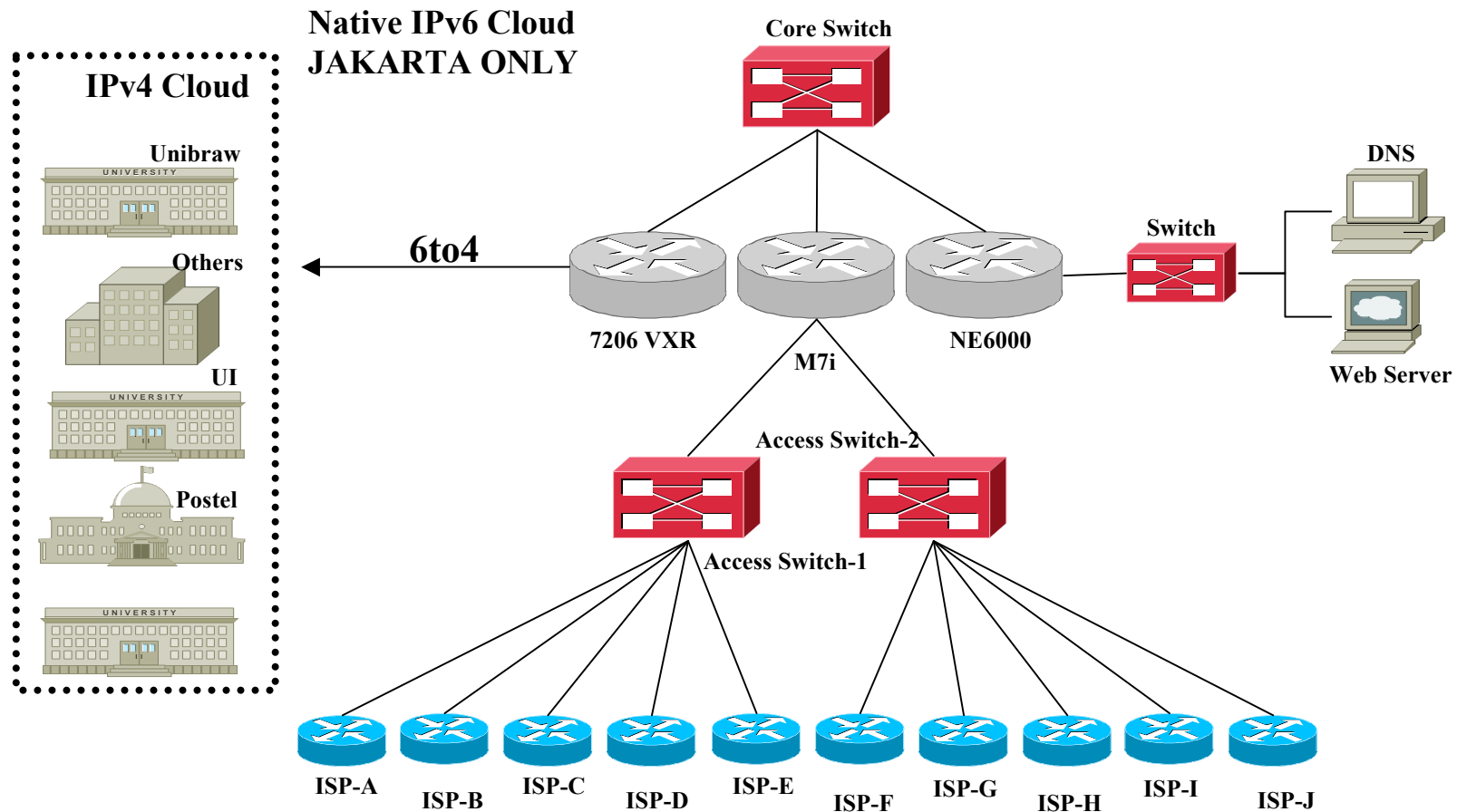# Early Phase IPv6 Native Network Deployment

- To provide first IPv6 Native Network
- To perform function test (dnsv6, content, routing)
- To perform interoperability test
- To give opportunity to ISP and Network provider do test between each other.

First Deployment Supporting Entities

- XL,
- IndosatM2,
- CBN,
- IndoNet,
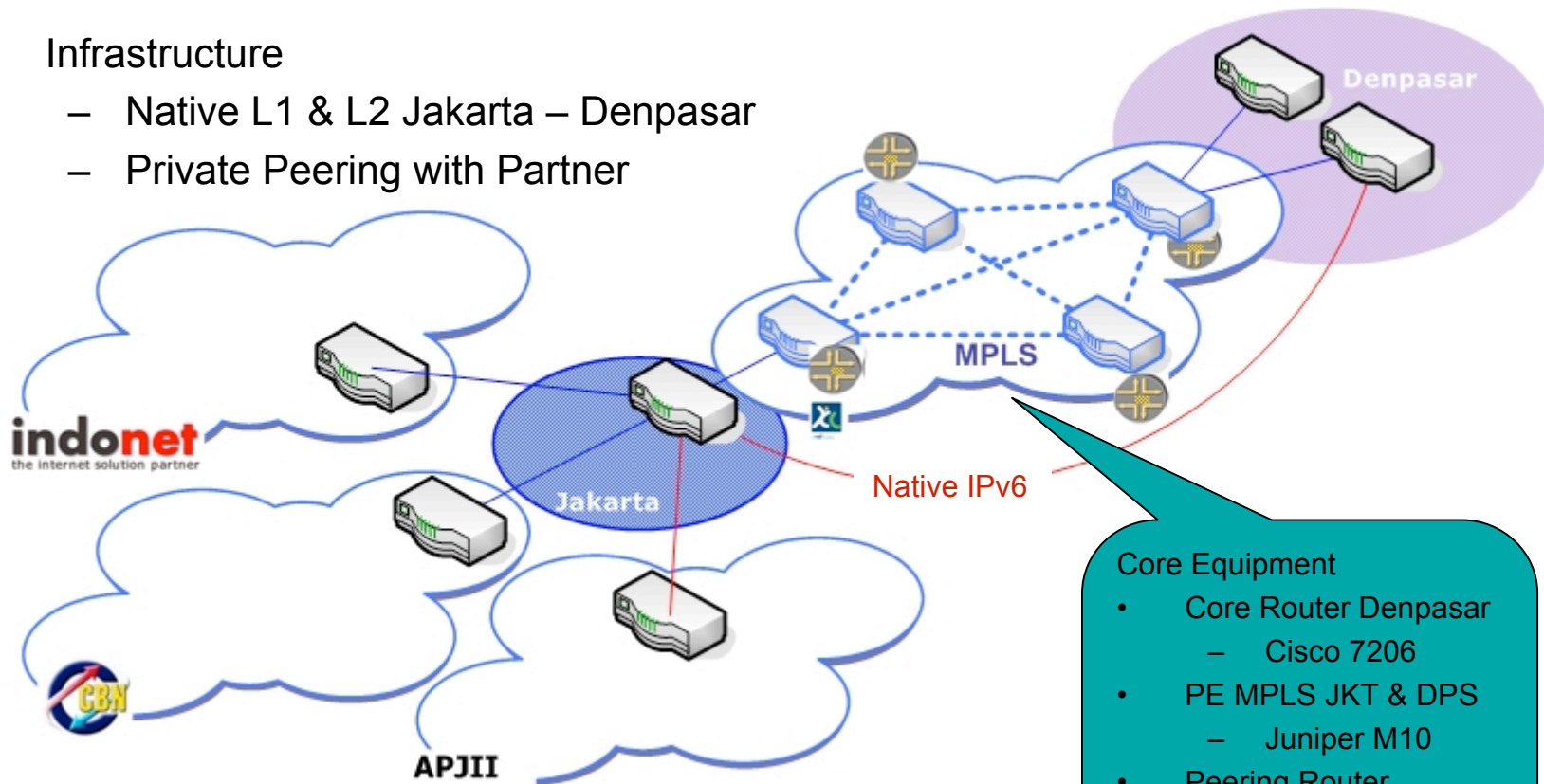- BIZNET,
- NTT,
- IPNET,
- Indonesia Internet Xchange (IIX)

PHASE-1
IPv6 Native Network Deployment

IPv6 Development - Infrastructure

- Infrastructure
  - Native L1 & L2 Jakarta – Denpasar
  - Private Peering with Partner

Native IPv6

Core Equipment
- Core Router Denpasar
  - Cisco 7206
- PE MPLS JKT & DPS
  - Juniper M10
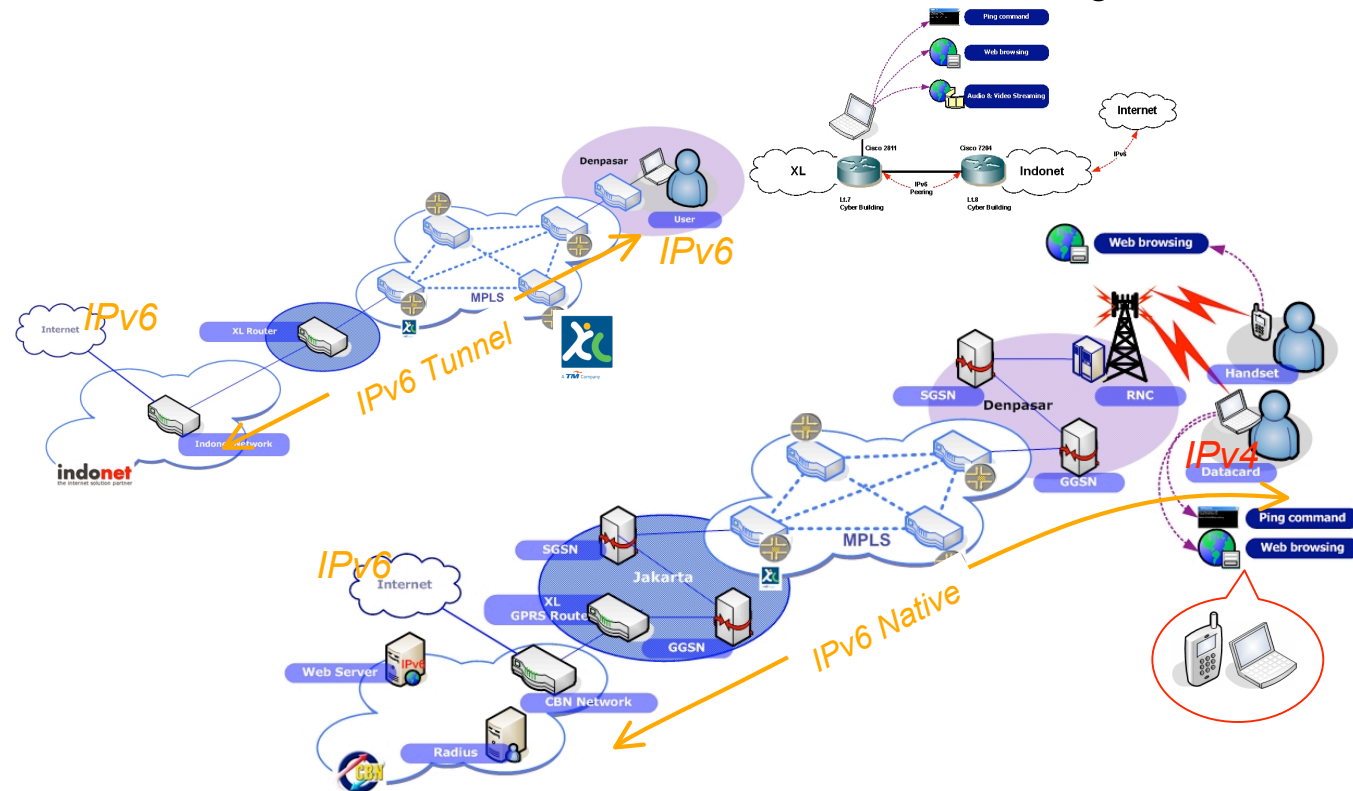- Peering Router
  - Cisco 2xxx
  - GGSN Ericsson

- XL backbone support IPv6 Native & Tunnel
- IPv6 private peering with CBN and Indonet
- Chance or update all core equipments (Routers or Switches) related to network backbone & private peering

MPLS

Denpasar

Jakarta

indonet
the internet solution partner

APJII

IPv6 Development - Application

- Web Browsing, Audio & Video Streaming
  - Internet Wired Access to Indonet & CBN website browsing & streaming
  - 3G Phone Access to Indonet & CBN website browsing
  - 3G Data Card Access to Indonet & CBN website browsing
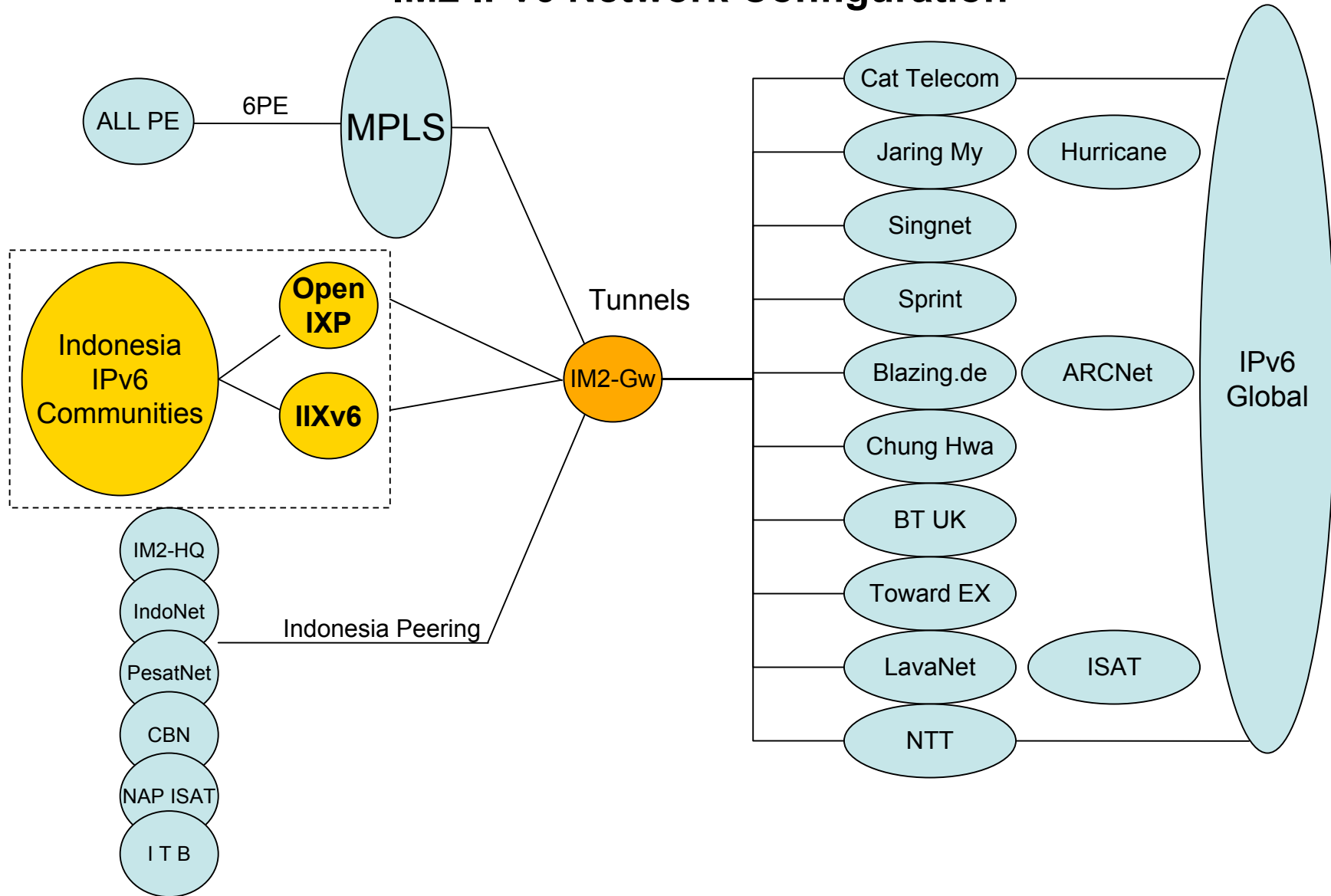
IPv6 Development - Application

- Report from **XL** is as follows :
- Reporting Result: Web Browsing, Audio & Video Streaming
  - Internet Wired Access to Indonet & CBN website browsing & streaming
    - ➔ Access to Indonet website for browsing = successful
    - ➔ Access to CBN website for browsing = successful
    - ➔ Access to Indonet website for streaming = successful
    - ➔ Access to CBN website for streaming = content not available
  - 3G Phone Access to Indonet & CBN website browsing & streaming
    - ➔ Access to Indonet website for browsing = need to connect Indonet network to XL mobile network
    - ➔ Access to CBN website for browsing = successful
    - ➔ Access to Indonet website for streaming = need to connect Indonet network to XL mobile network
    - ➔ Access to CBN website for streaming = successful
  - 3G Data Card Access to Indonet & CBN website browsing & streaming
    - ➔ Access to Indonet & CBN website for browsing & streaming = IPv6 data card not available
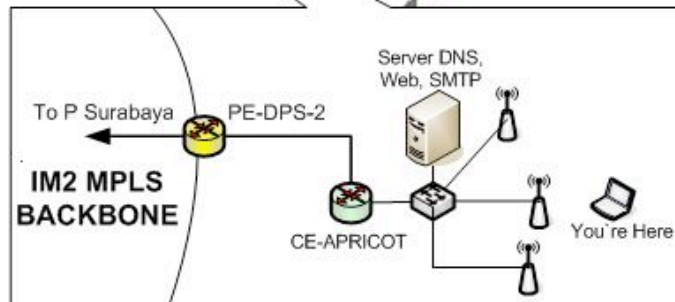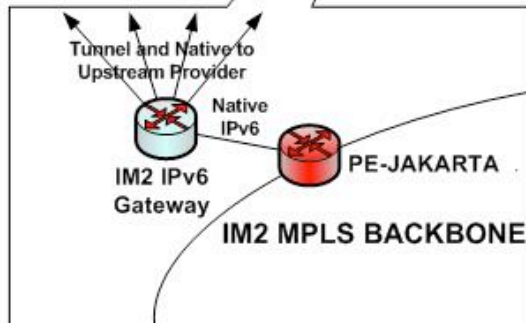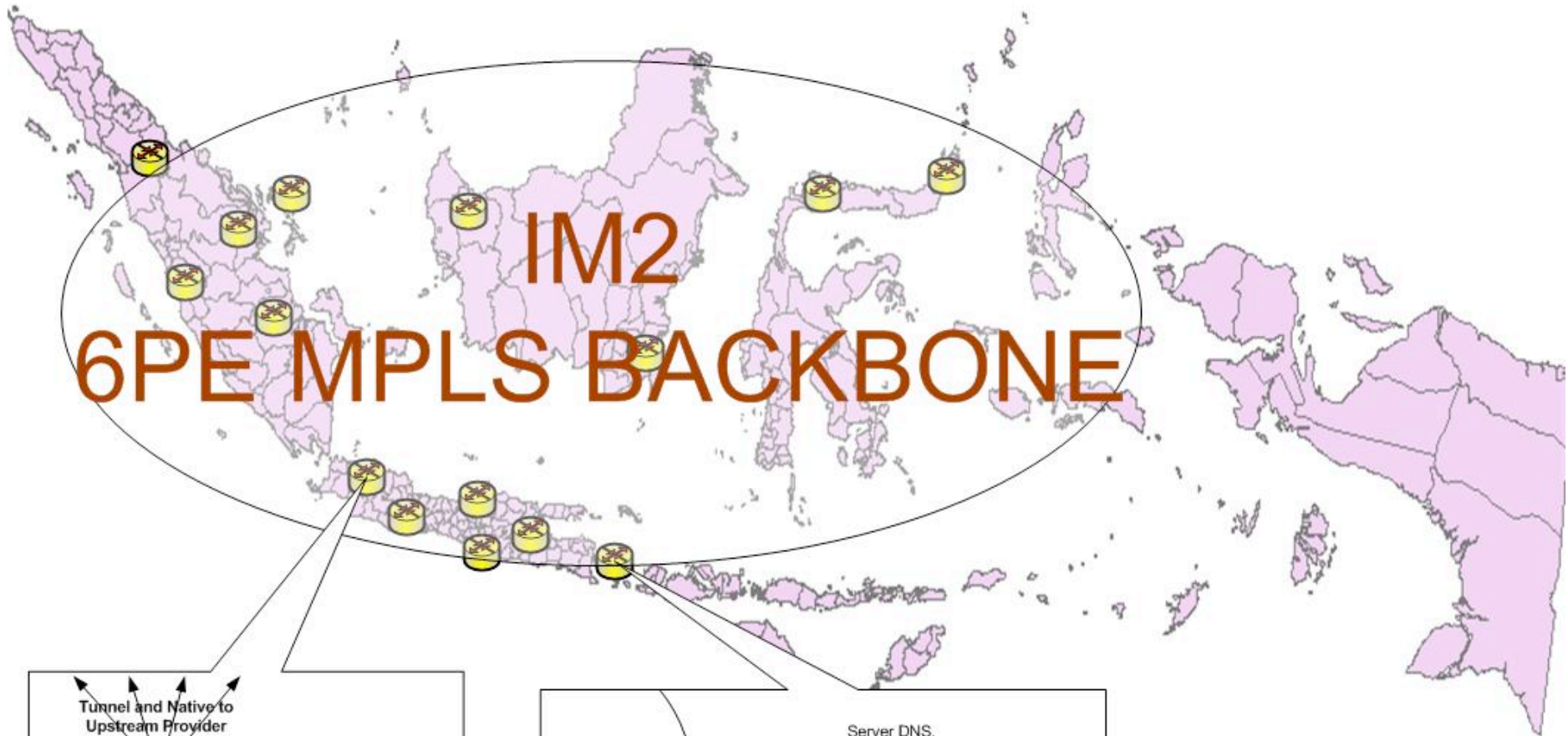   - ➔ Mobile user can use 3G and

IPv6 is Ready Now!

- IPv6TF members are now on operation ready for IPv6 services.

- Indonesian Internet Xchange is using dual stack is ready for IPv6.

IM2 IPv6 Network Configuration

INDOSAT MEGA MEDIA (IM2) NODE

Thank You!