

# A Proposal for the AP-IS Initiative

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**Sanghun LEE**

**Director, Multilateral Cooperation Division**

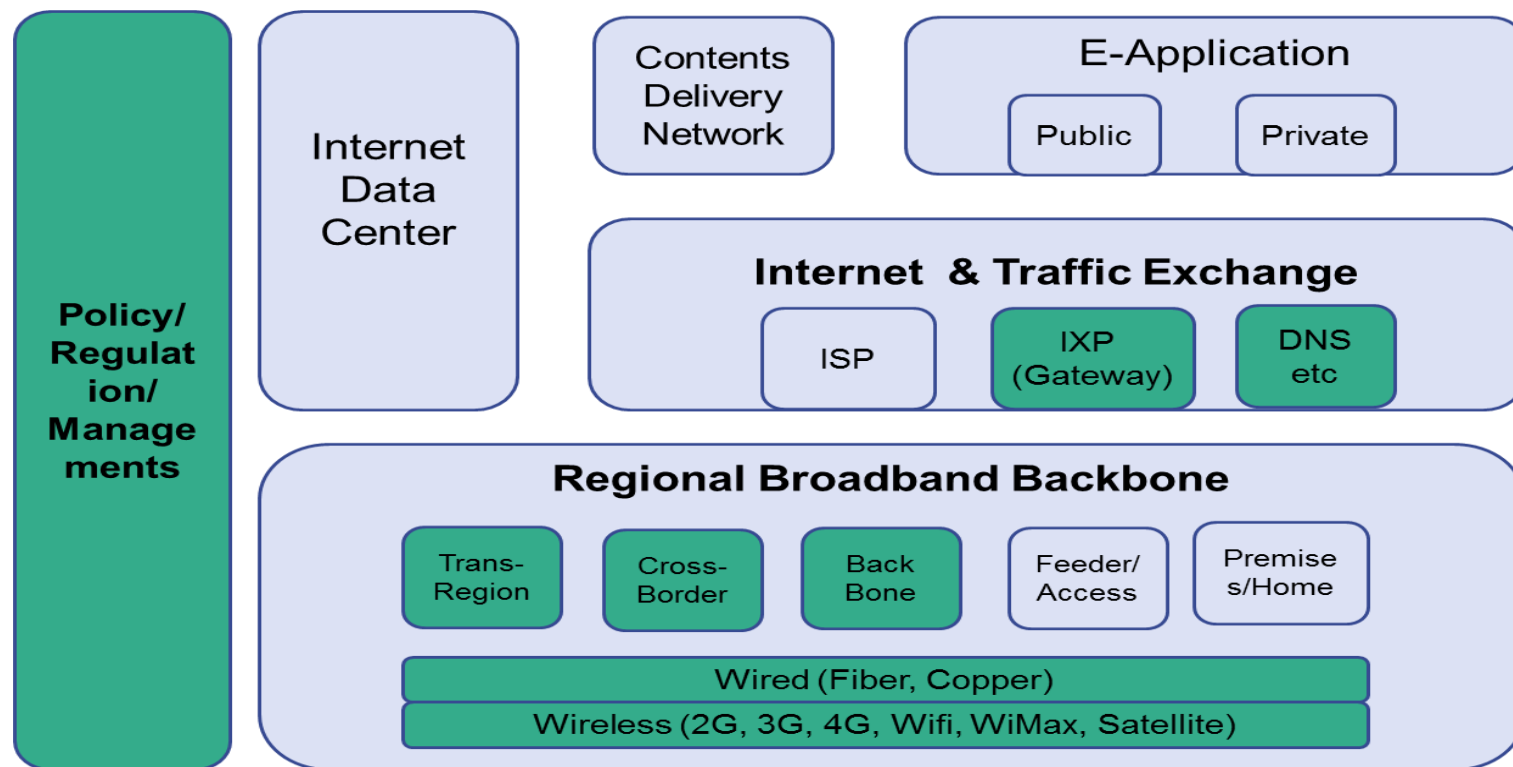


**미래창조과학부**

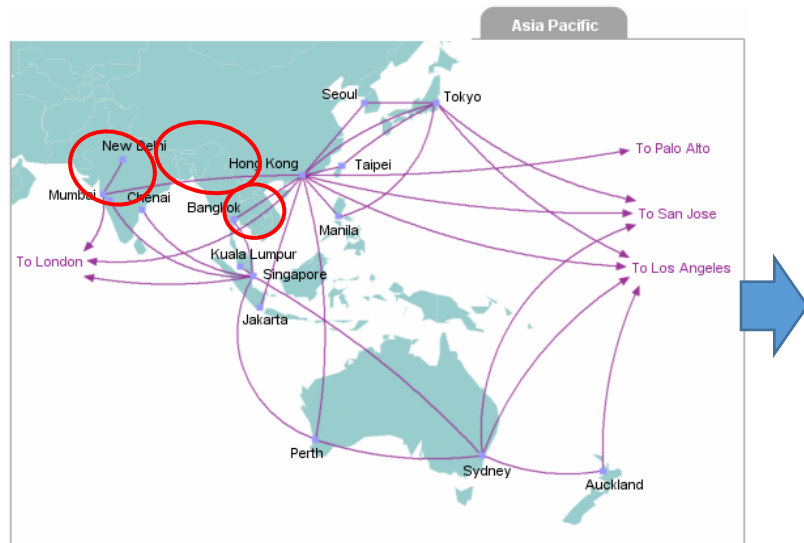
Ministry of Science, ICT and  
Future Planning

# Main Components of AP-IS

- ❑ AP-IS concept should be considered under the whole framework of broadband ecosystem and Two main components could be extracted necessary for regional cooperation (green boxes)
  - ✓ 1) Regional broadband backbone connectivity including regional, cross-border, and domestic backbone related to regional connectivity (Layer 1-2)
  - ✓ 2) Regional Internet exchange connectivity including IXPs, submarine cable landing stations and terrestrial cross-border connection points (Layer 3)

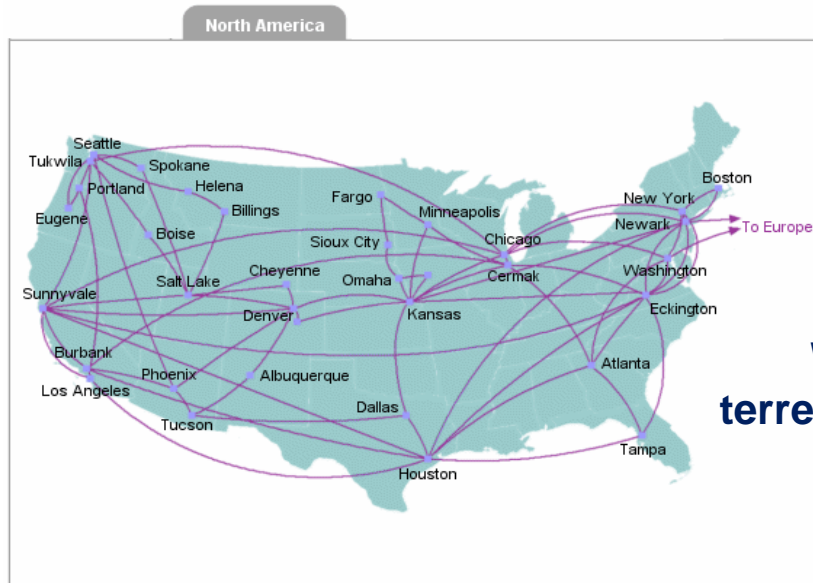


# Landscape of Regional Broadband Backbone Connectivity

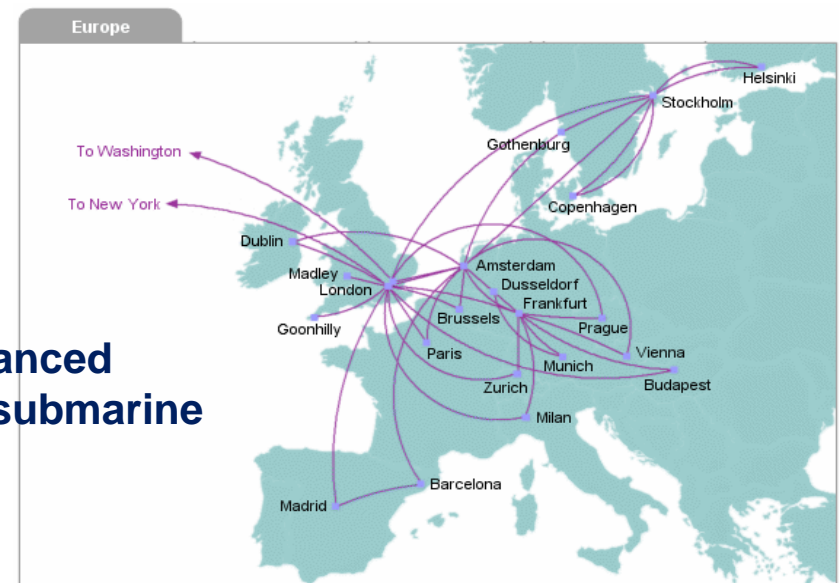


✓ Well-developed and market-driven  
submarine backbone connectivity

✓ Underdeveloped cross-border/sub-regional  
terrestrial connectivity: Missing, Insufficient,  
not-integrated links in ASEAN, South,  
North & Central Asia sub-region



Well-balanced  
terrestrial & submarine



# Landscape of Regional Internet Exchange Connectivity

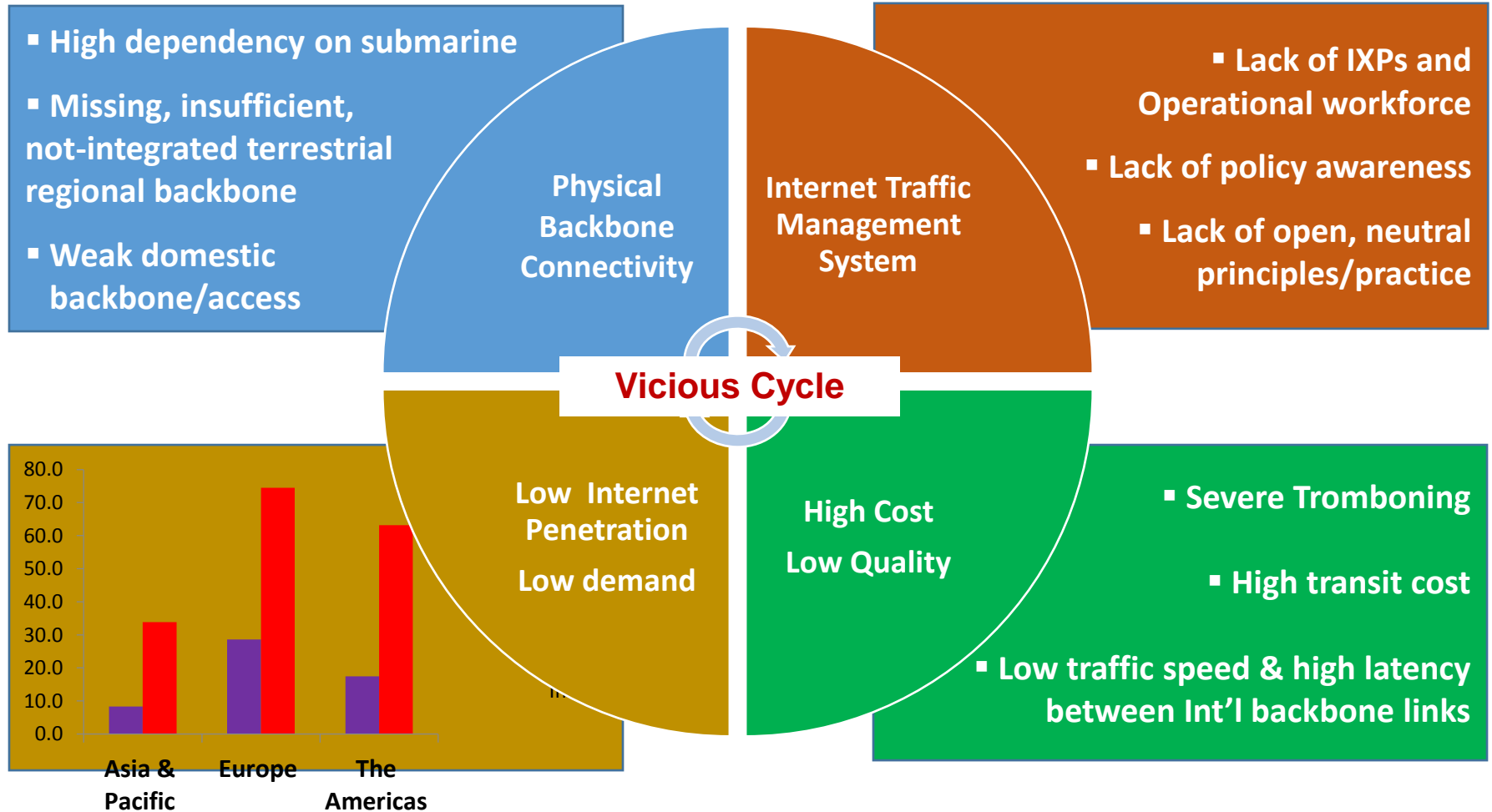
- ❑ Insufficient, inefficient Internet traffic exchange & management systems
  - Lack of IXPs, operational workforce and policy awareness /harmonization
  - Lack of open, neutral, non-discriminatory market principles/practice

## IXPs Around the World



Source: TeleGeography World IX Map, <http://www.internetexchangemap.com/>

# Summary of Regional Status and Results

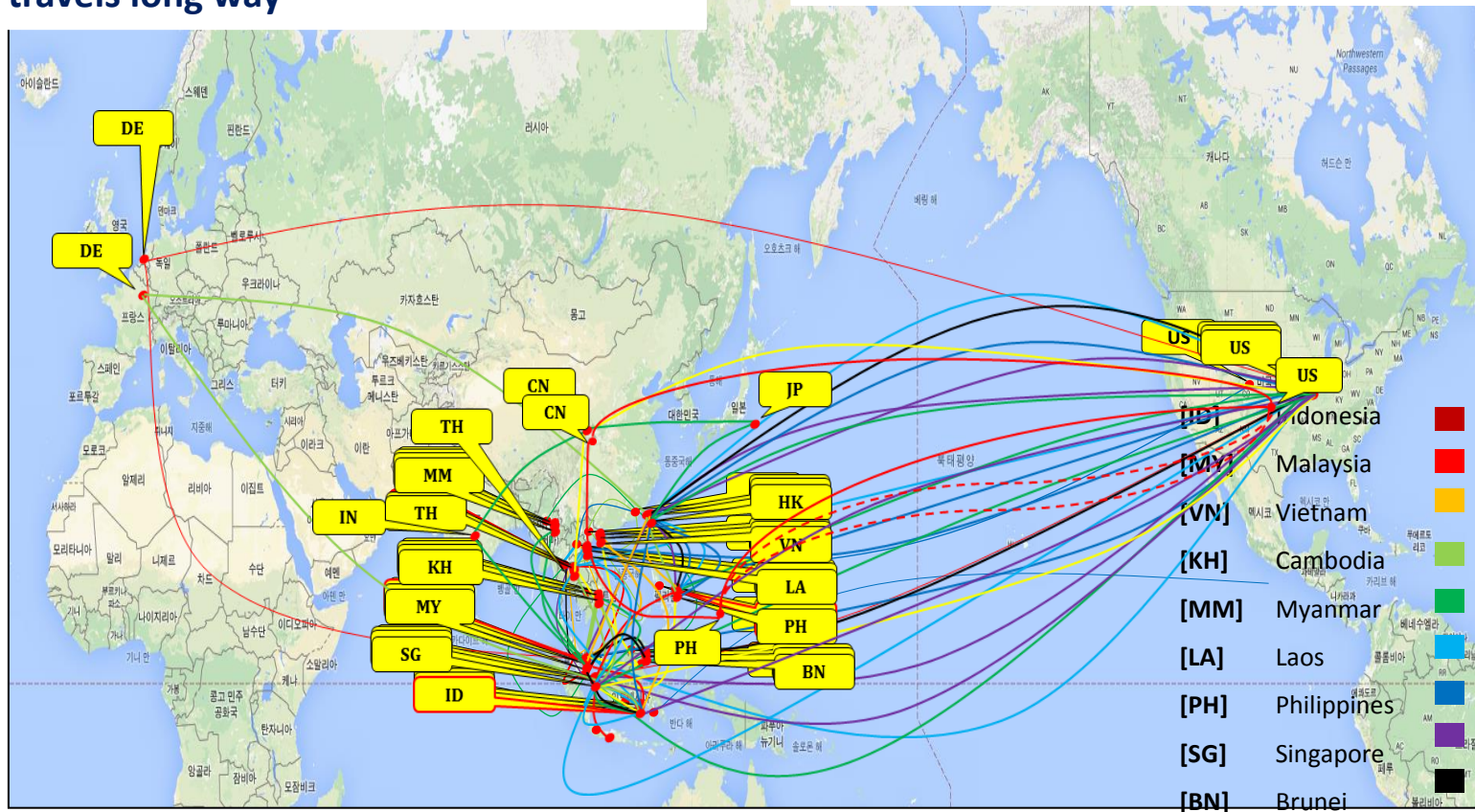


- Fixed BB subscription \* ITU 2014 (per 100 inhabitants)
- Individual using the Internet

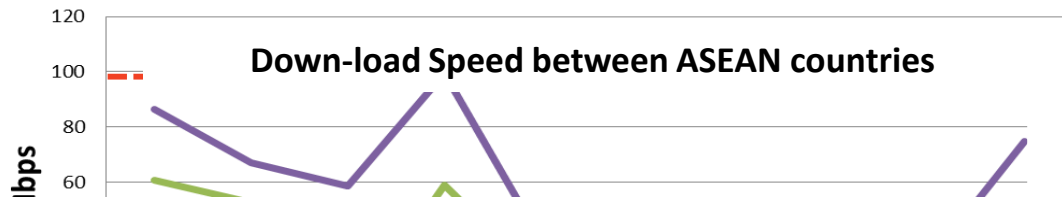
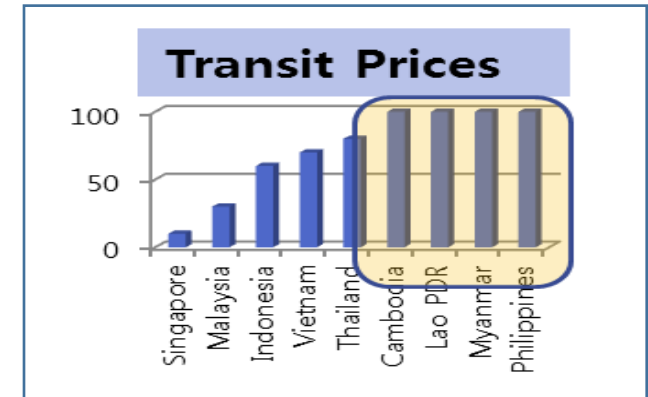
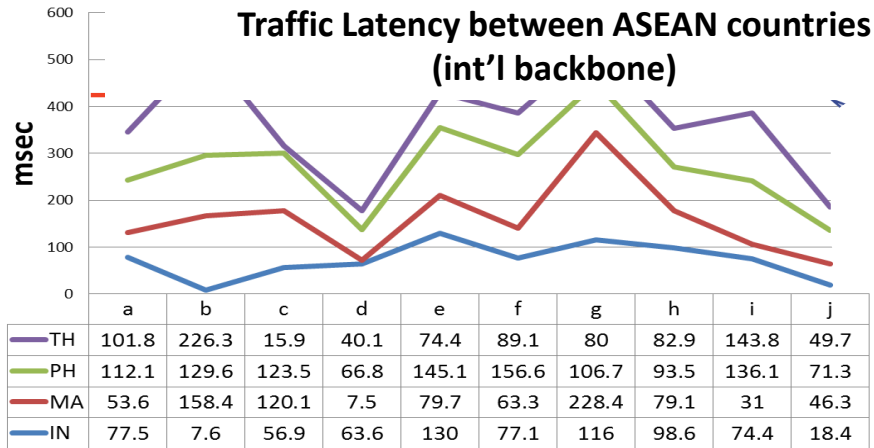
# Regional Traffic Quality and Cost: ASEAN case

Severe Tromboning: traffic routes among ASEAN are unnecessarily long and out-bounded . In some countries, even domestic traffic travels long way

How to keep regional traffic within?  
: Develop more direct links and efficient Internet exchange/management system



# Regional Traffic Quality and Price: ASEAN case



预览已结束，完整报告链接和二维码如下：

[https://www.yunbaogao.cn/report/index/report?reportId=5\\_4119](https://www.yunbaogao.cn/report/index/report?reportId=5_4119)

