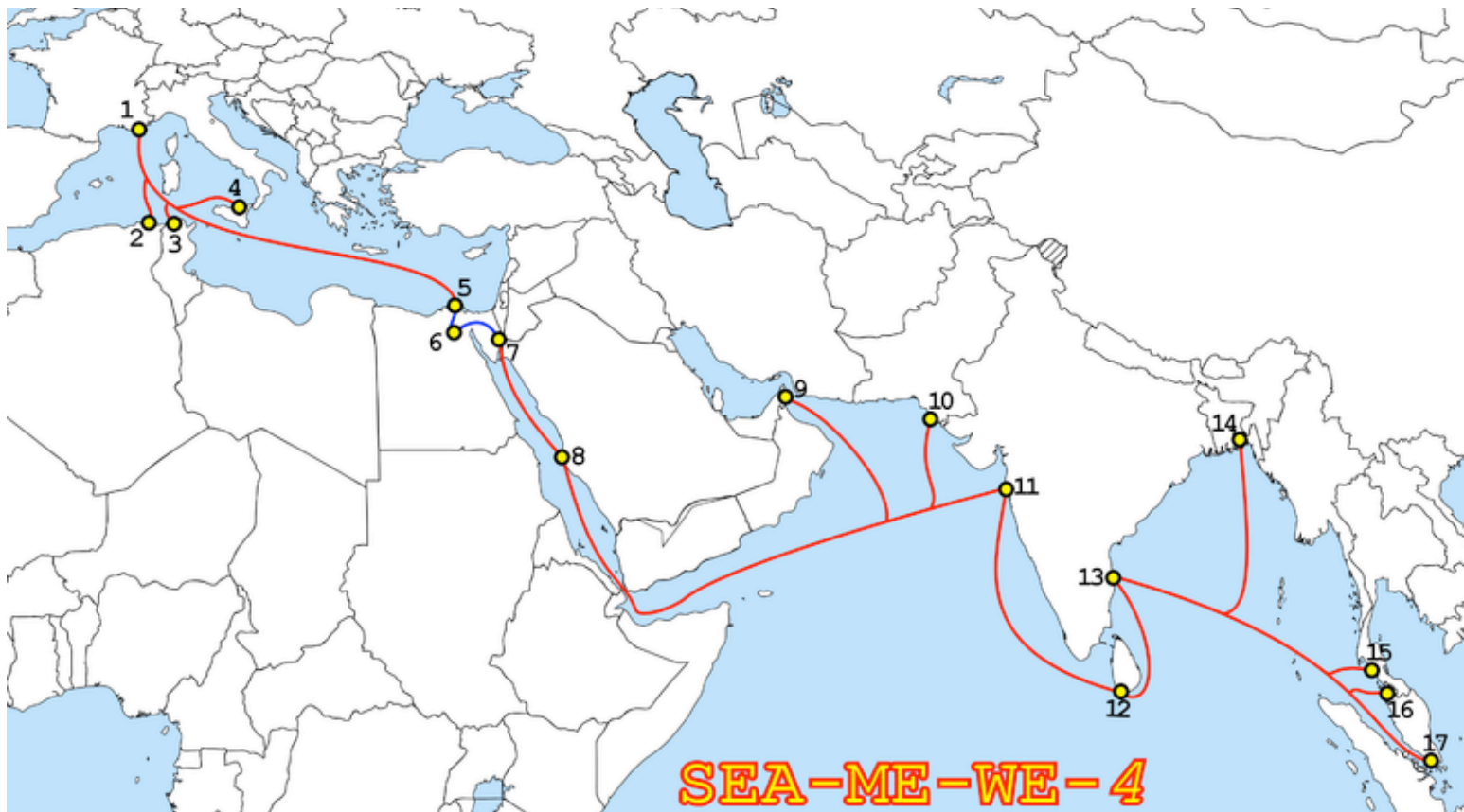


Portable IP address and Enterprise Multihoming Benefit

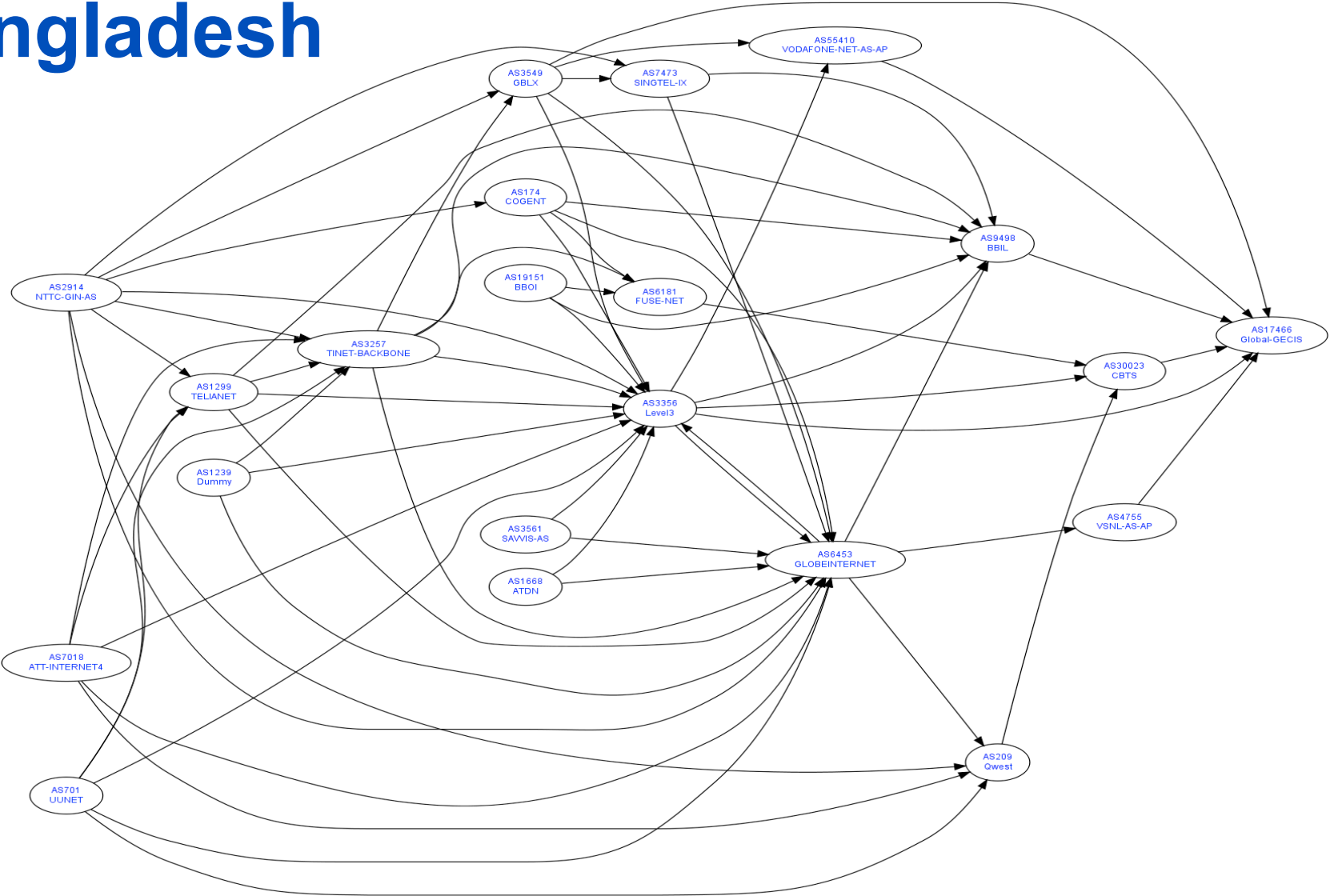
APNIC Presentation

May 25, 2013. CTO forum, Dhaka, Bangladesh.

How It Change the Perspective?



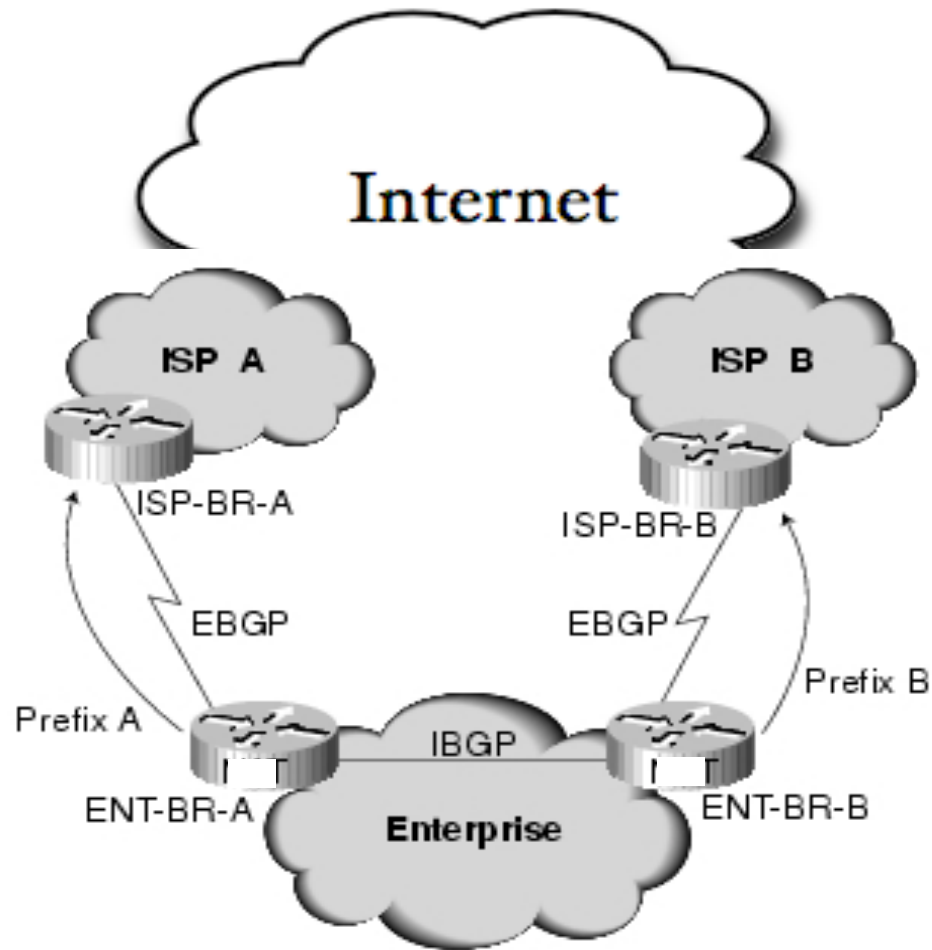
Improve Internet infrastructure in Bangladesh



Improve Internet infrastructure in Bangladesh

- Service provider
 - Strong presence in global routing domain with their own AS number
 - Dynamically reroute traffic by multihoming
 - Able to do destination based traffic analysis
 - Plan for traffic exchange through peering and transit
- End user
 - Happy user experience 😊
 - Lower cost 😊
- Enterprise network
 - Happy user experience 😊
 - Lower cost 😊
 - Network operational scalability !!!!!😞!!!!

What Is Multihoming?



Multihoming Benefit

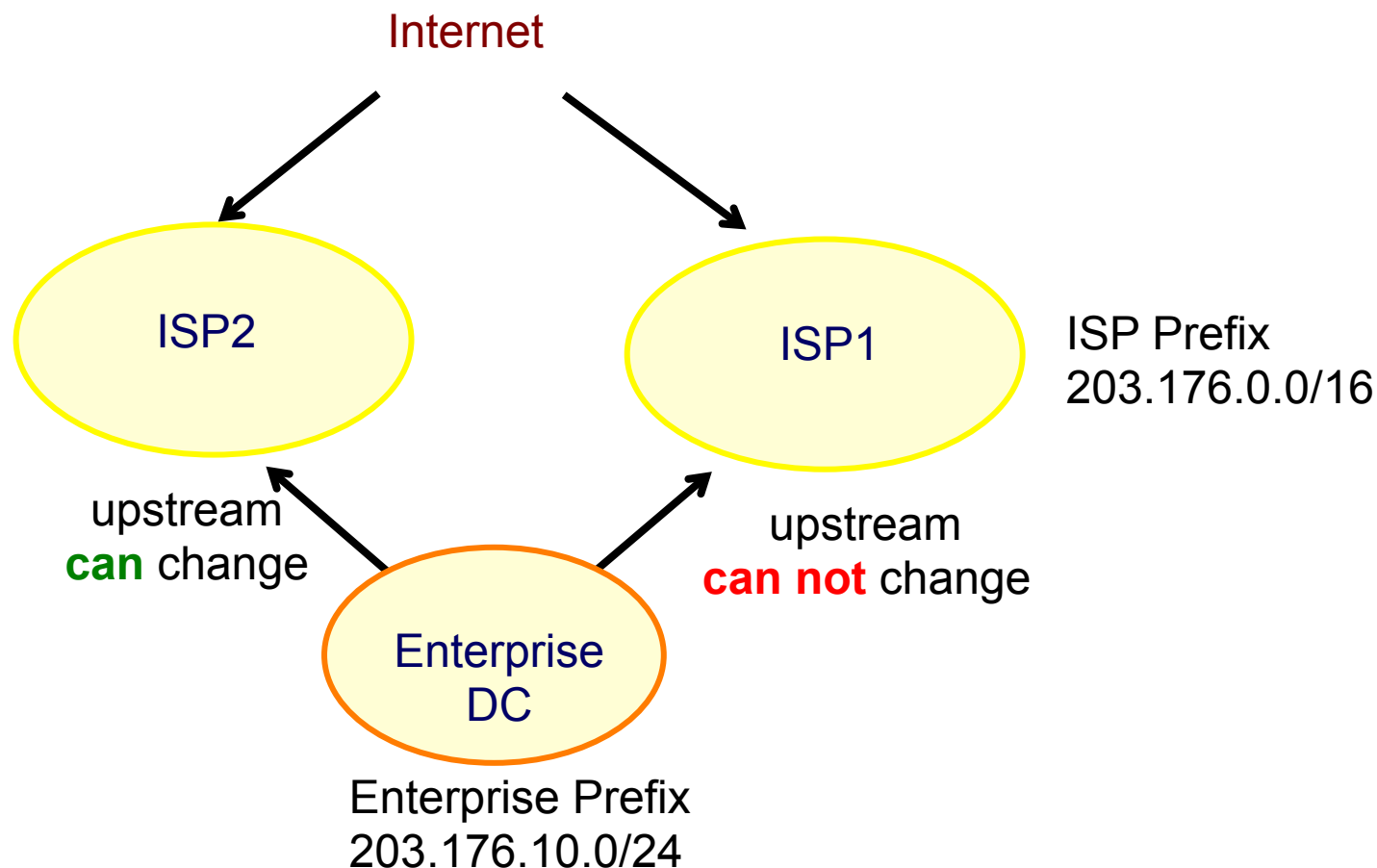
- Link redundancy
- Service provider redundancy
- Reduce downtime
- Traffic load balancing
- Destination based traffic engineering
- Reduce cost by peering
- Network scalability

Enterprise Connectivity Options

- Option 1: **Single home** and **non portable prefix**
 - Enterprise is not APNIC member prefix received from upstream ISP
- Option 2: **Single home** and **portable prefix**
 - Enterprise is APNIC member receive allocation as service provider but no AS number yet
- Option 3: **Multihome** and **non portable prefix**
 - Enterprise is not APNIC member both prefix and ASN received from upstream ISP
- Option 4: **Multihome** and **portable prefix**
 - Enterprise is APNIC member both prefix and ASN received from APNIC

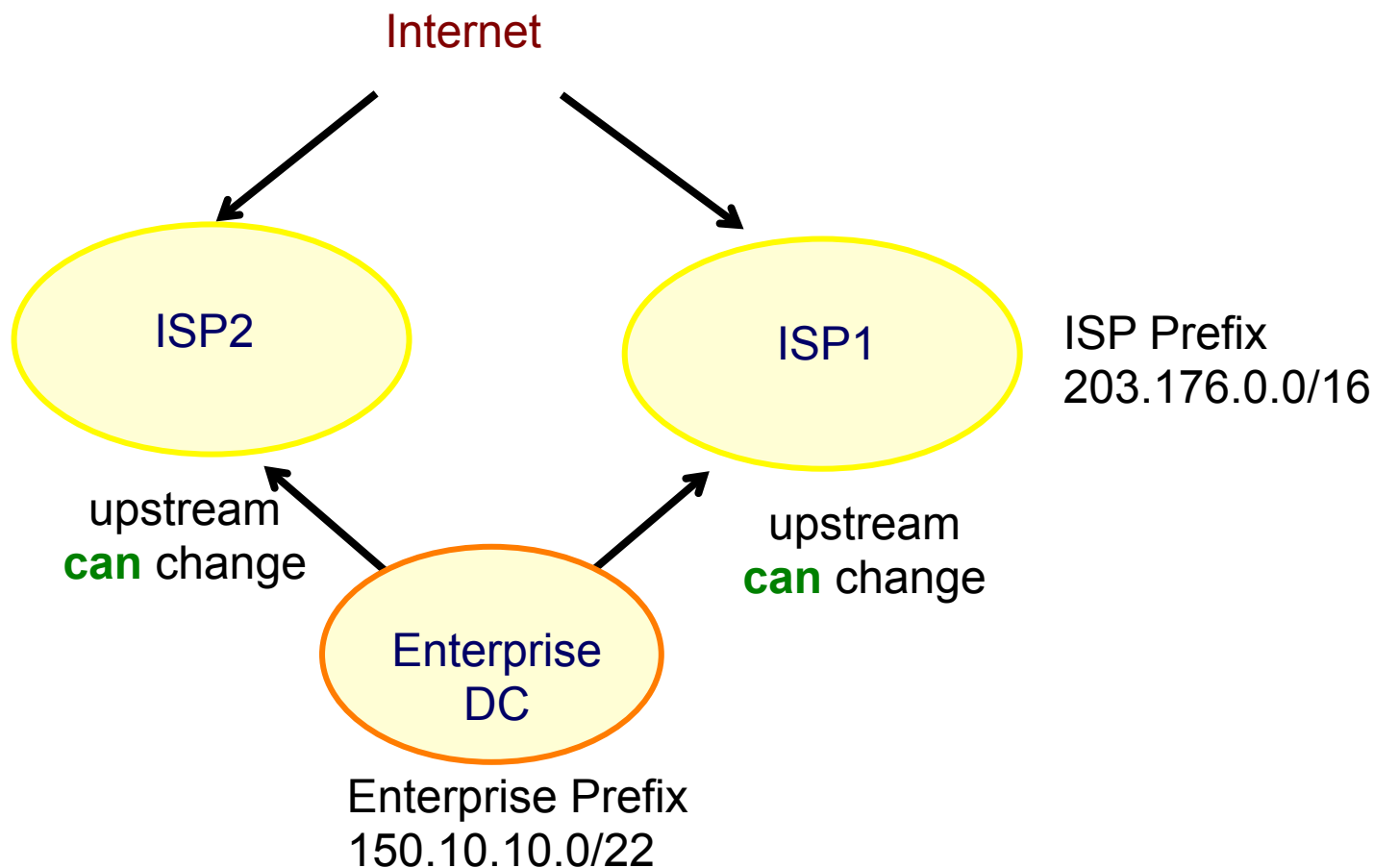
Multihoming Options

- Option 3: **Multihome** and **non portable prefix**



Multihoming Options

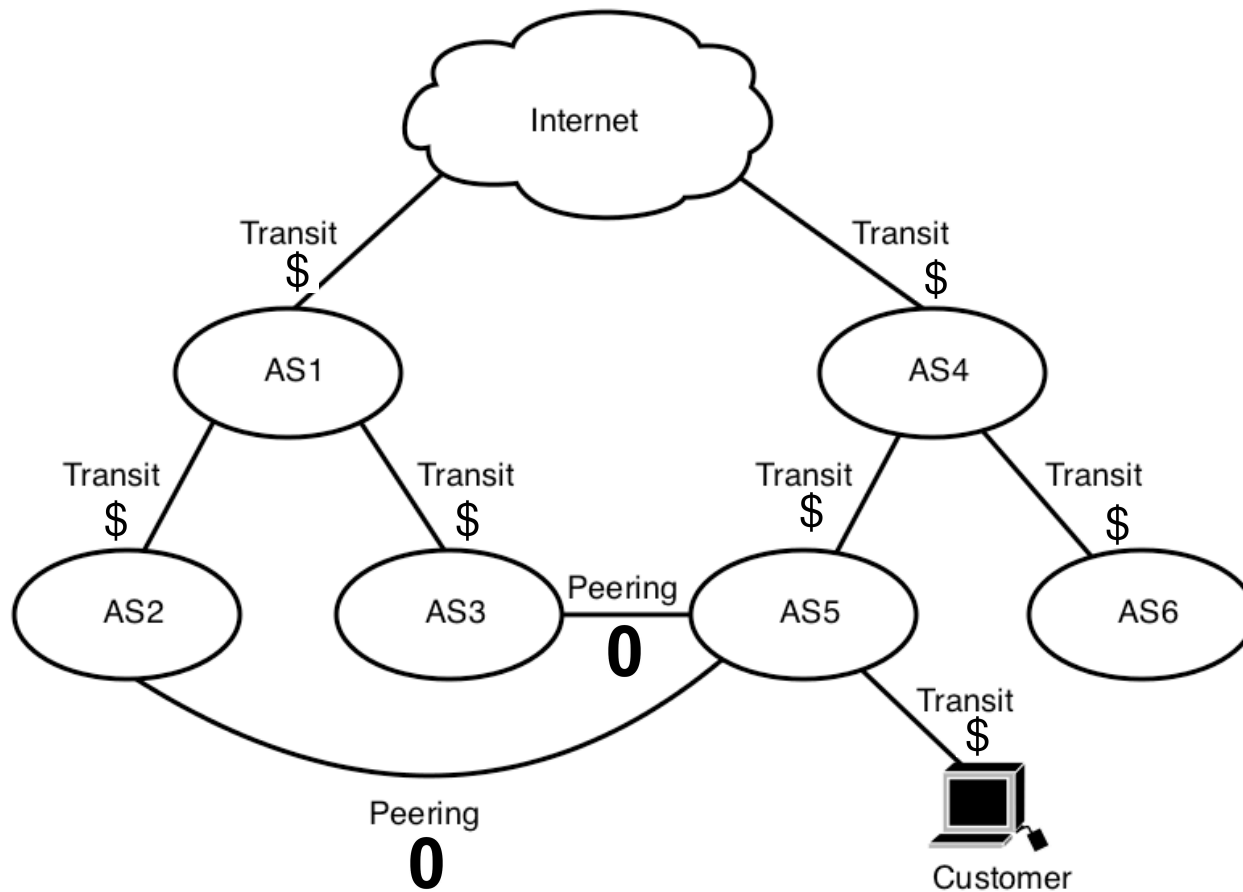
- Option 4: **Multihome** and **portable prefix**



Exchange traffic between networks

- Via Transit
 - Where networks will pay to send/receive traffic
- Through Peering
 - Networks will not pay each other to interchange traffic
- Works well if win win for both
- Reduce cost on expensive transit link

Peering VS Transit



Last Slide....

- Portable address
- Portable AS number
- I am free to define my traffic routing policy



Thank You! 😊