

Enabling New Business Models and Embracing the Future: The Network Operator and OTT Symbiotic Relationship

Dr. Robert Pepper Head, Global Connectivity Policy and Planning 1 October 2019

Old Assumptions



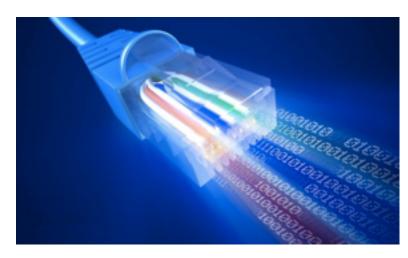
- The product is voice
- The metric is minutes
- Distance matters
- Duration matters
- Location matters

Old Assumptions



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New Realities

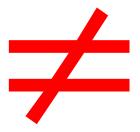


- The product is connectivity
- The metric is bandwidth/throughput
- Distance insensitive
- Time insensitive
- Location insensitive

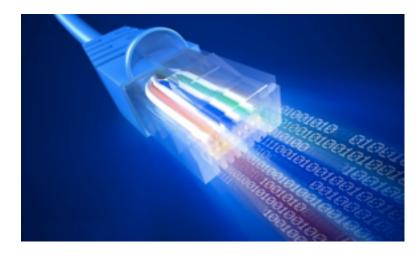
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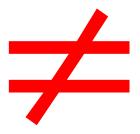
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Need New Business Models

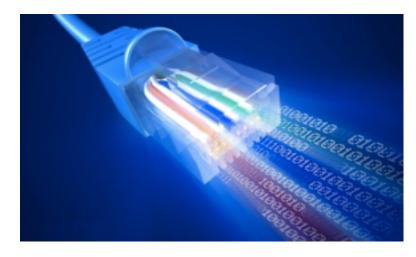
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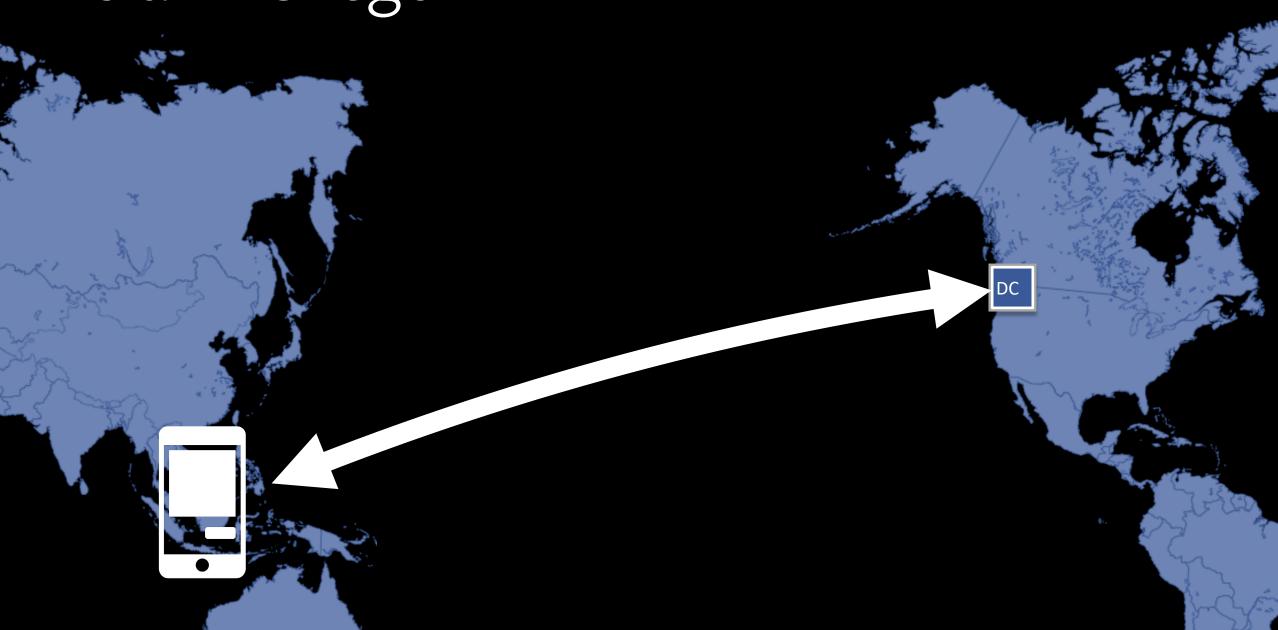


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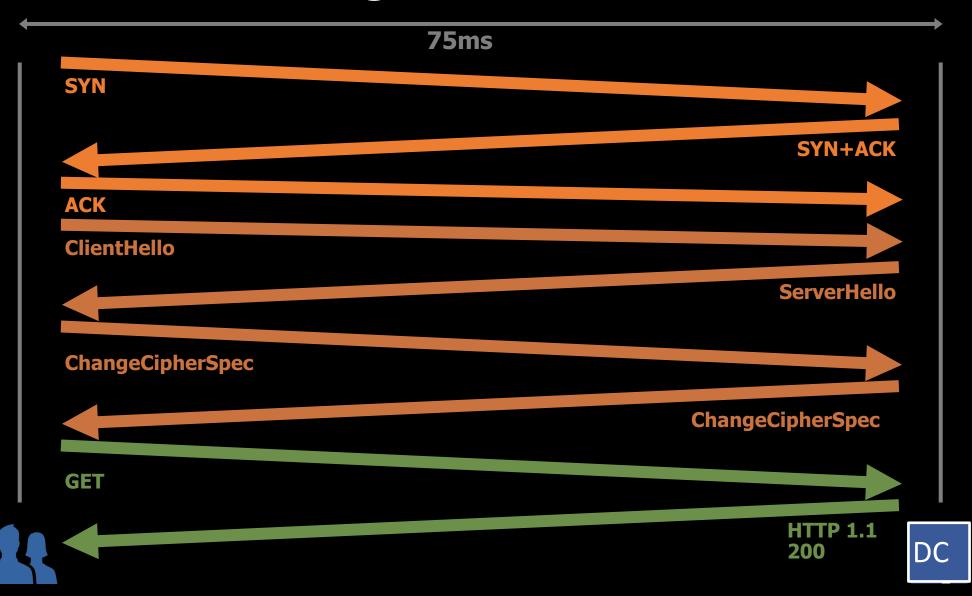


HTTPS Asia -> Oregon

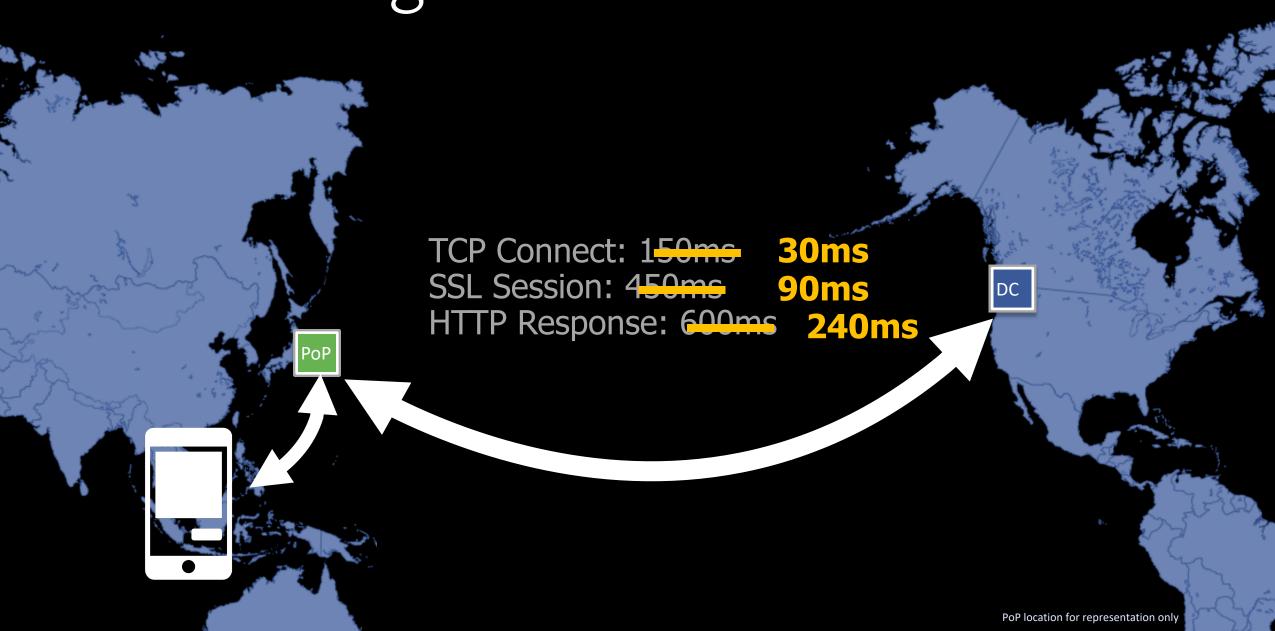
TCP conn established:

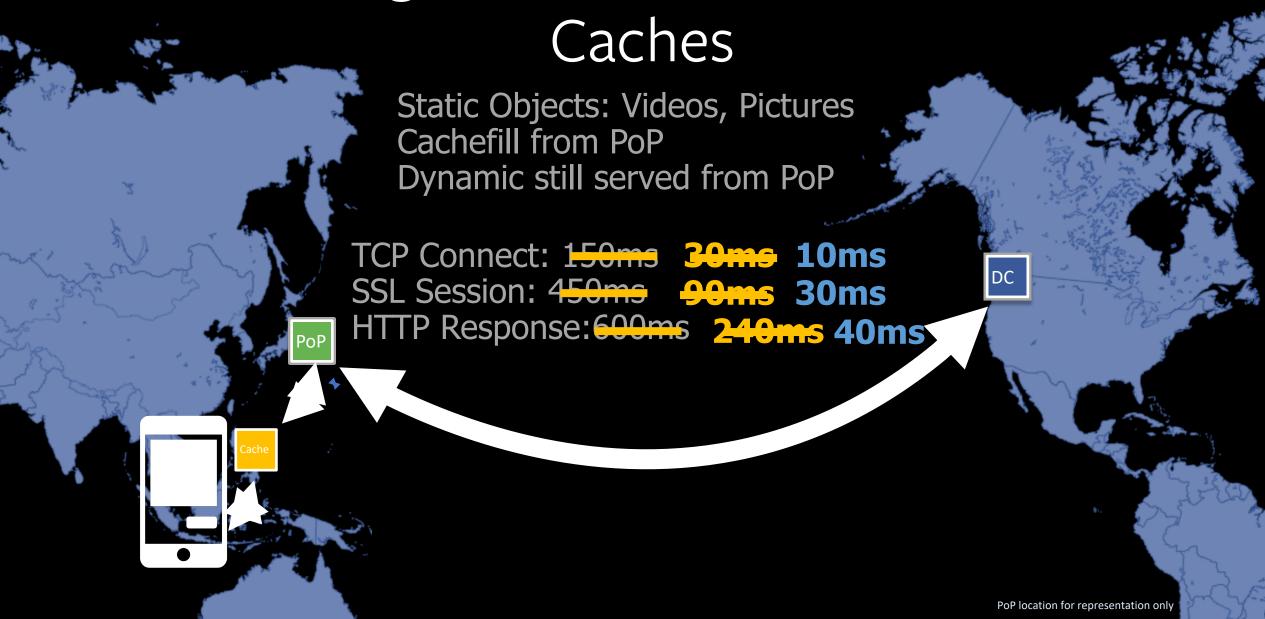
SSL session established: 450 ms

Response Received **600 MS**









Economic Benefits of OTT Applications

- 5% point increase in WhatsApp associated with GDP increase: \$1.1 billion in Middle East, \$1.0 billion in South America, and \$0.8 billion in Africa.
- 10% increase in use of rich interaction apps (i.e., OTTs) adds \$5.6 trillion in global GDP.
- India: Internet-based apps contributed at lease US \$20.4 billion to GDP (2015-2016); expected to grow to US \$270.9 billion by 2020, nearly 8 per cent of India's GDP
- Women owned or managed small business in Africa say social media (e.g., Facebook) helps their business...expressed by 85% of women business owners and managers in Nigeria, 88% in South Africa, 92% in Ghana, and 96% in Benin.
- World Bank Digital Development partnership reported users in Southeast Asia turn to social media as key source of information when making purchasing decisions
 - 78 percent of consumers in Asia get information about products and services on social media
 - 68 percent share that brand-related information on social channels, which helps small businesses attract and retain customers.

Policies for a Mutually Beneficial Future

Need new frameworks that support innovation, investment, new business models, competition that (re)align economics with incentives, complexity and competition

Supply side: policies (not just regulation) that lower costs, speed deployment—e.g., more spectrum/reduce build costs

Demand side: policies that foster relevance and readiness; e.g., local content/language, eGov services, eCommerce, new apps, low cost/free apps; skills

Promote growth, investment and innovation through competition that enables light touch regulation that, if necessary, is narrowly tailored, appropriate, proportionate and sensible