SDN and NFV for Future Transport Networks

Adrian Farrel
Juniper Networks

Email: afarrel@juniper.net

www.isocore.com/SDN-MPLS



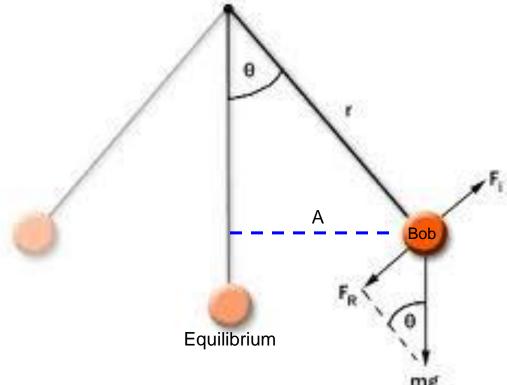


The Technology Pendulum

- $F_R = mg \cos\theta$
- mg is the pull of reality
- r is the measure of how radical the new idea is
- $A = r \cos\theta = Amplitude$ is the distance swung towards a crazy idea
- -A is the swing back to the ways things used to be
- We are aiming for equilibrium point where new ideas have value

• Who is Bob?

Pivot







What comes around goes around

- Hype wastes money, but is Darwinian
- OpEx and CapEx need attention
 - Automation is a fine goal
 - Elastic networks are a great tool
- Transport networks are a utility resource
- Physical transport networks cannot be virtualized
 - But we can build virtual transport networks
- Centralization has been done before
 - Value for planning, control, and determinism
- Control planes still add value
 - Decentralization and discovery are high function
 - Single-touch provisioning
- Don't forget all of the problems of stranded resources



