Concertation Meeting
Future Internet Architectures Cluster
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A New, Evolutive API and Transport-Layer Architecture for the Internet
What problem are we tackling?

Choice of transport(s) (+ encapsulation)

Choice of transport options, congestion control, use of multipath...

Choice of link / access technology

Access technology options

- WiFi
- MBB Operator 1
- MBB Operator 2
- MBB Operator N

- CDMA
- WCDMA
- 2G
- 3G
- LTE

- 450
- 800
- 900
- 2100
- 2600

- b g n ac
- 2.4 GHz
- 5 GHz

VoIP
FPS game
Streaming video
Web

UDP
TCP
SCTP
X

Config 1
Config 2
Config N

neat
What problem are we tackling?

- Applications see protocols, not communication services
- Applications are tied to a priori choices
- Evolution, support of new network features: difficult
How do we plan to tackle this?

- Decouple services offered to applications from underlying protocols, OSs, etc.
  - Automatically and transparently pick the best option available
  - In some cases, even without having to rewrite existing applications