

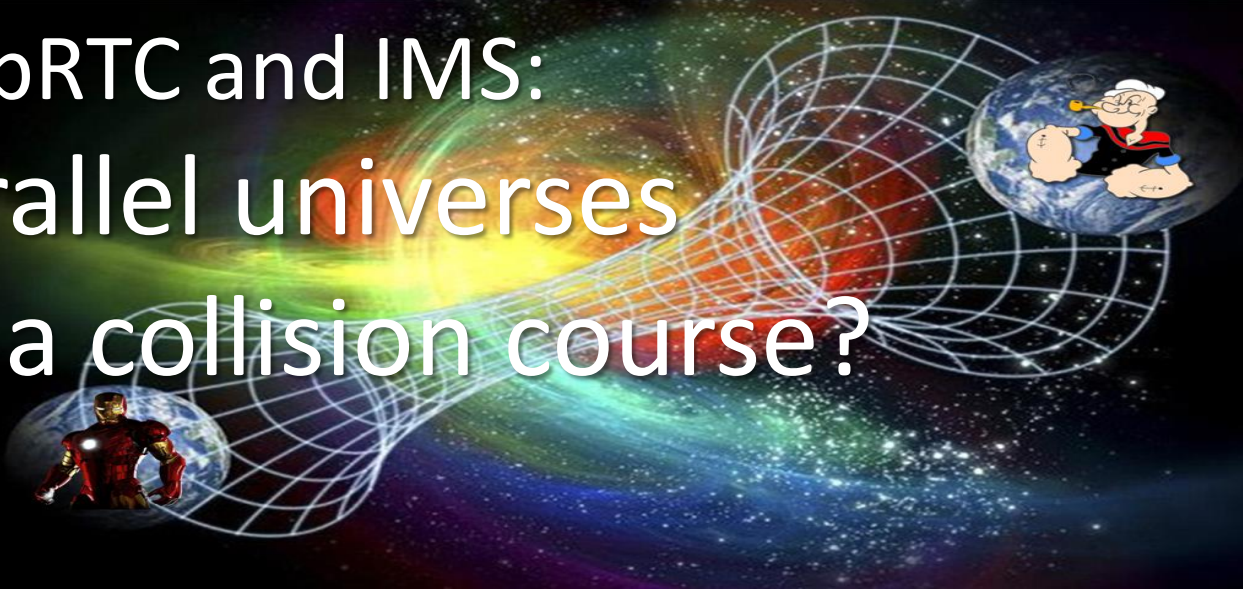


Innovations in Clouds,
Internet and Networks

19th
ICIN
CONFERENCE

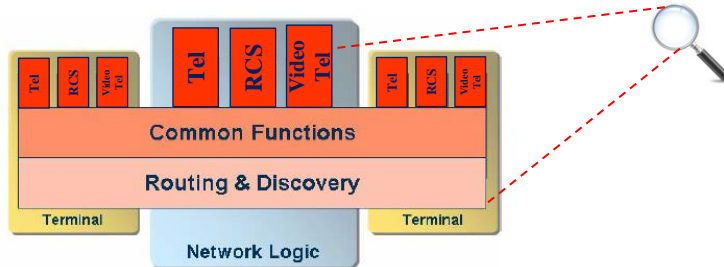
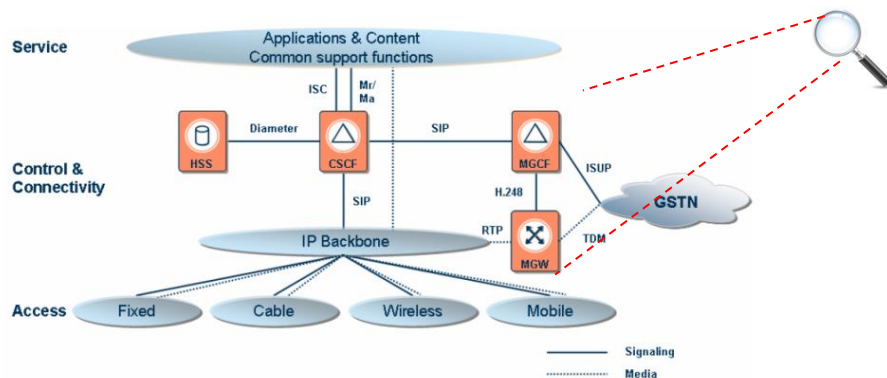
PARIS
MARCH 1 - 3, 2016

WebRTC and IMS: Parallel universes on a collision course?

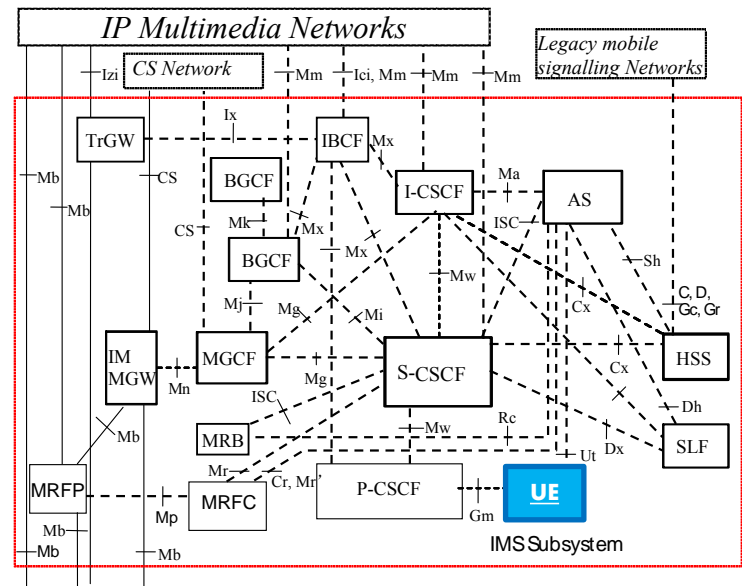


Stéphane Tuffin – Orange Labs Networks

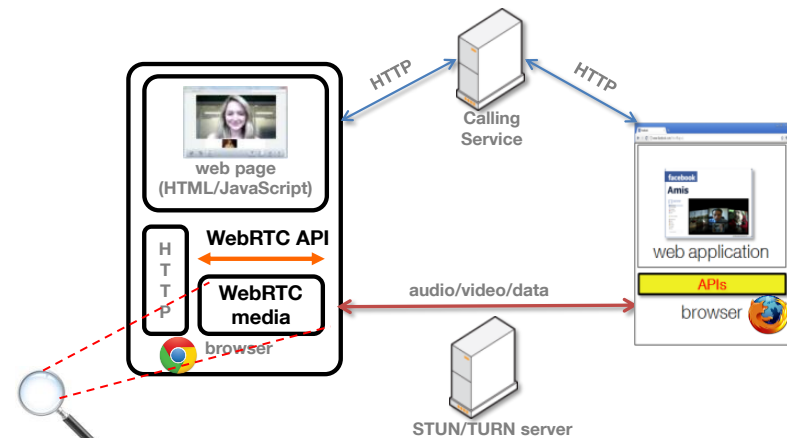
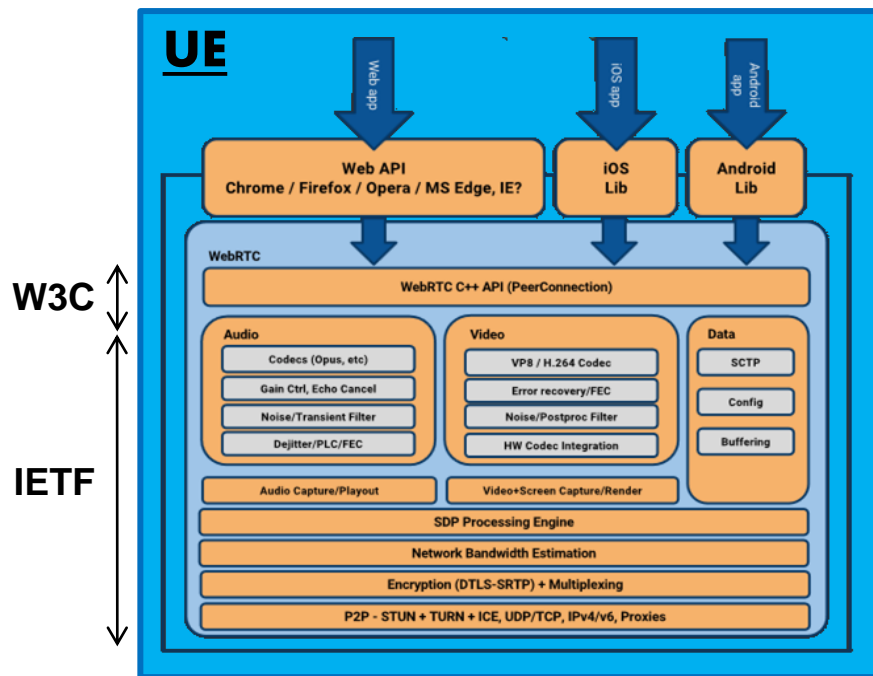




Application Logic
Common Functions
Routing & Discovery

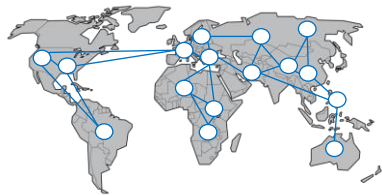


IMS is a standard architecture for delivering communication services



WebRTC is a media protocol & API

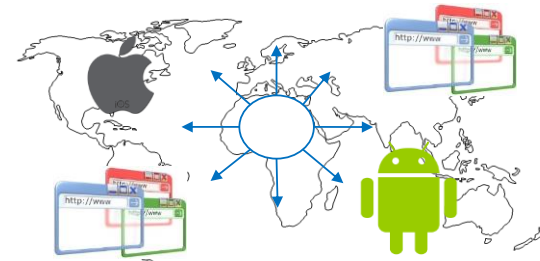
To be combined with complementing
(non standardized) components for a
working service



Service provider federation



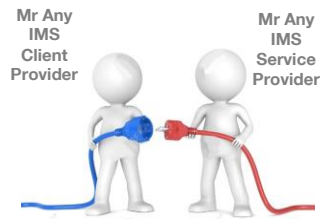
Off-the-shelf standardized technology



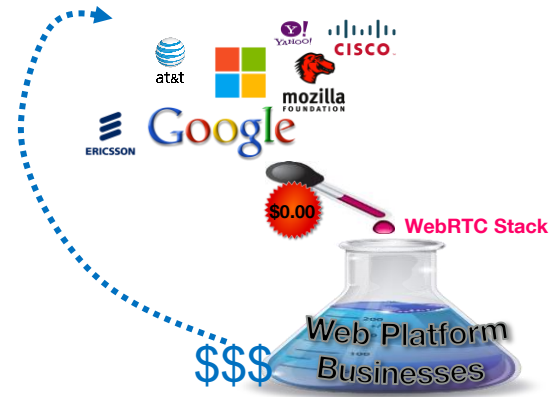
For real-time comms in the Web and in Apps

Typical Telco value chain

	design, develop, integrate	source, integrate, market, operate	consume
service	Telco supplier (Nokia, E///, HUA)	Telco operator	service user
platform			

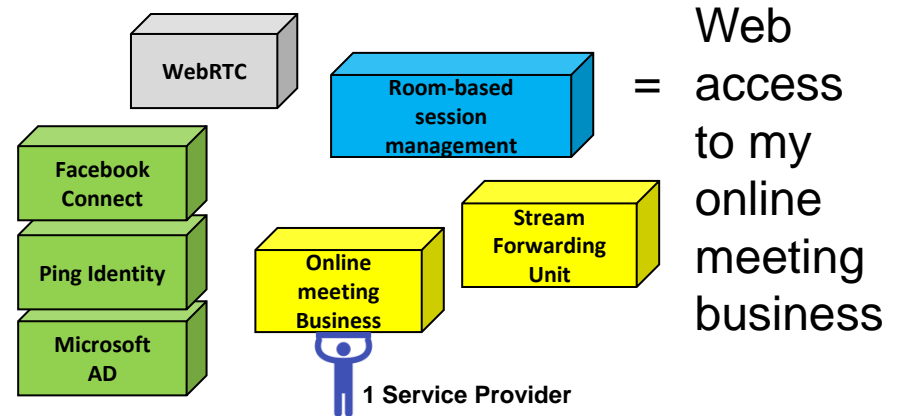
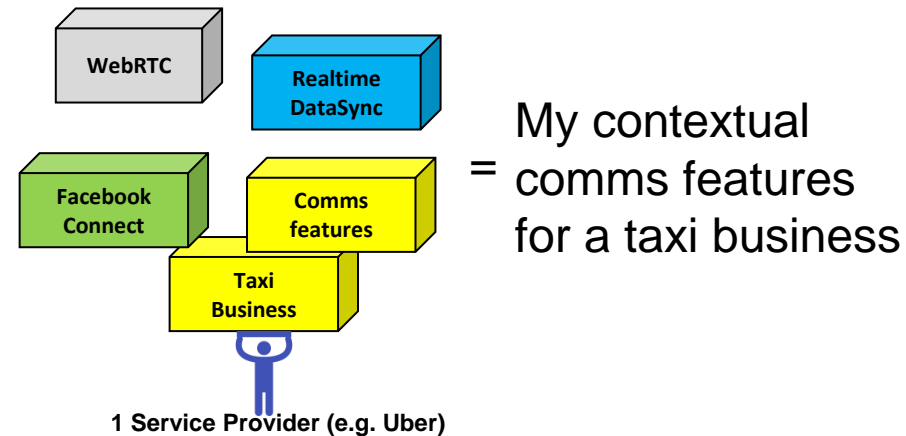
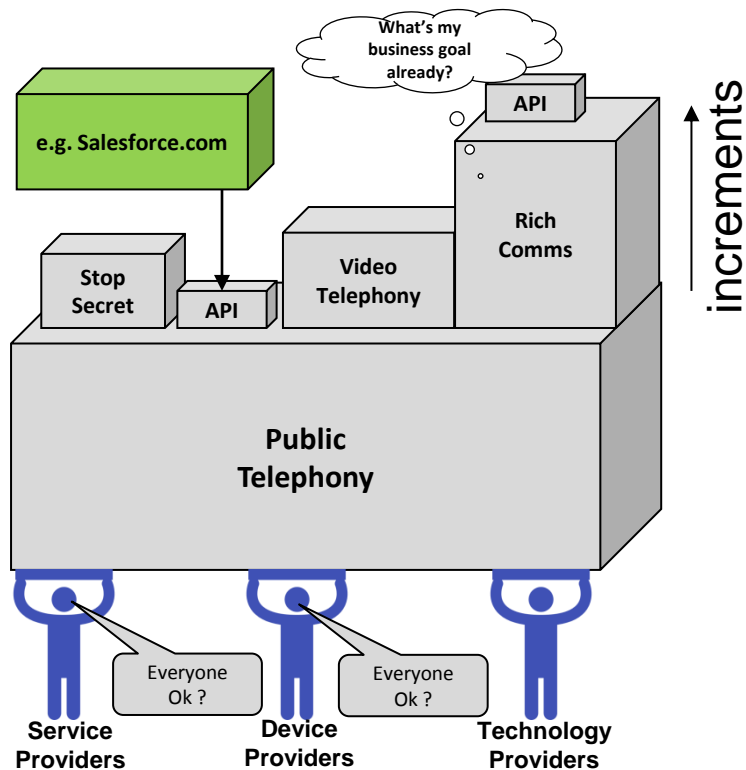


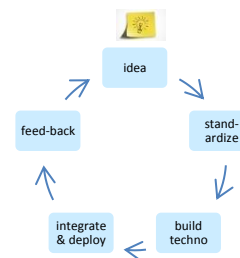
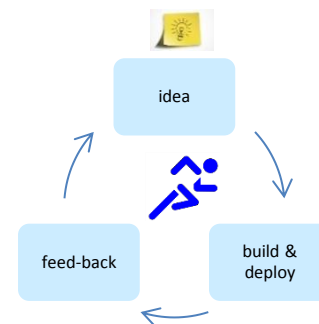
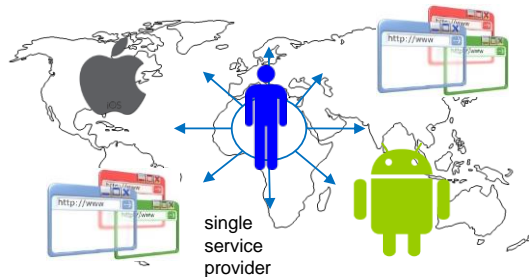
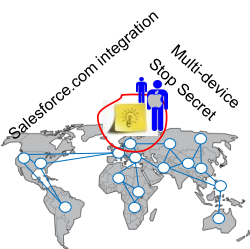
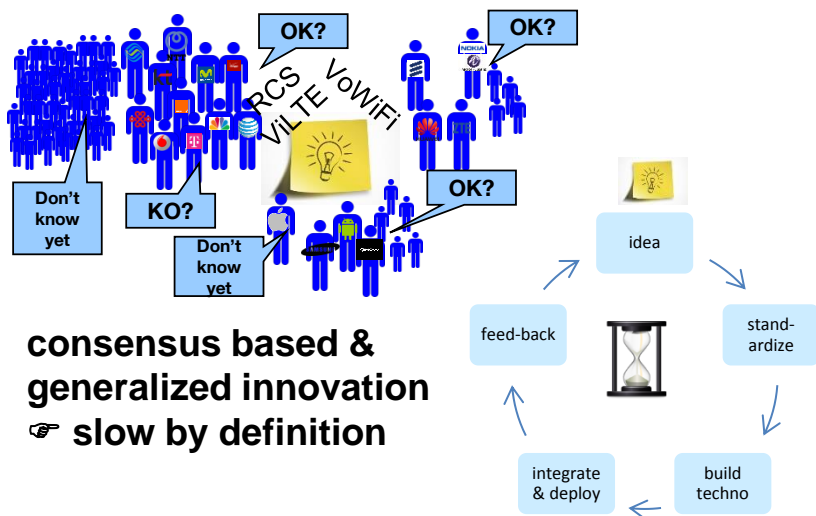
Plug any device into service providers infrastructures



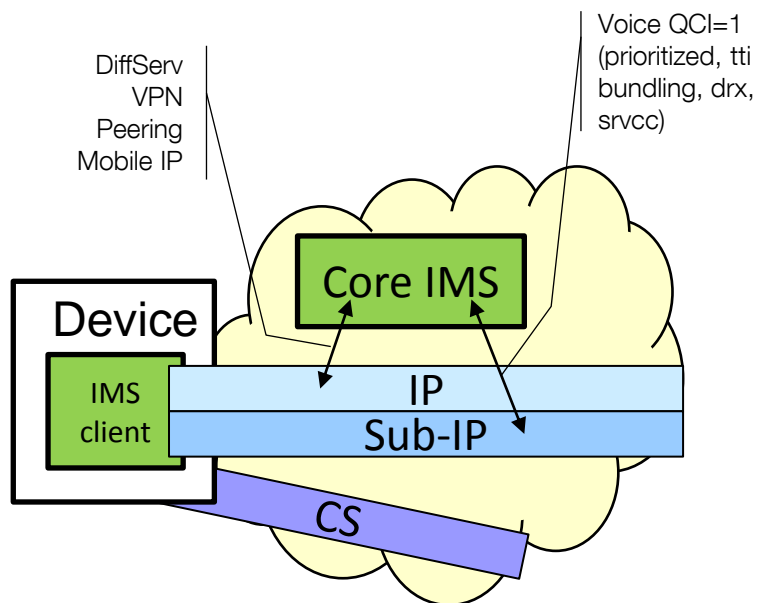
WebRTC is a catalyst for other businesses

Variation on Telephony vs. Tailored communications

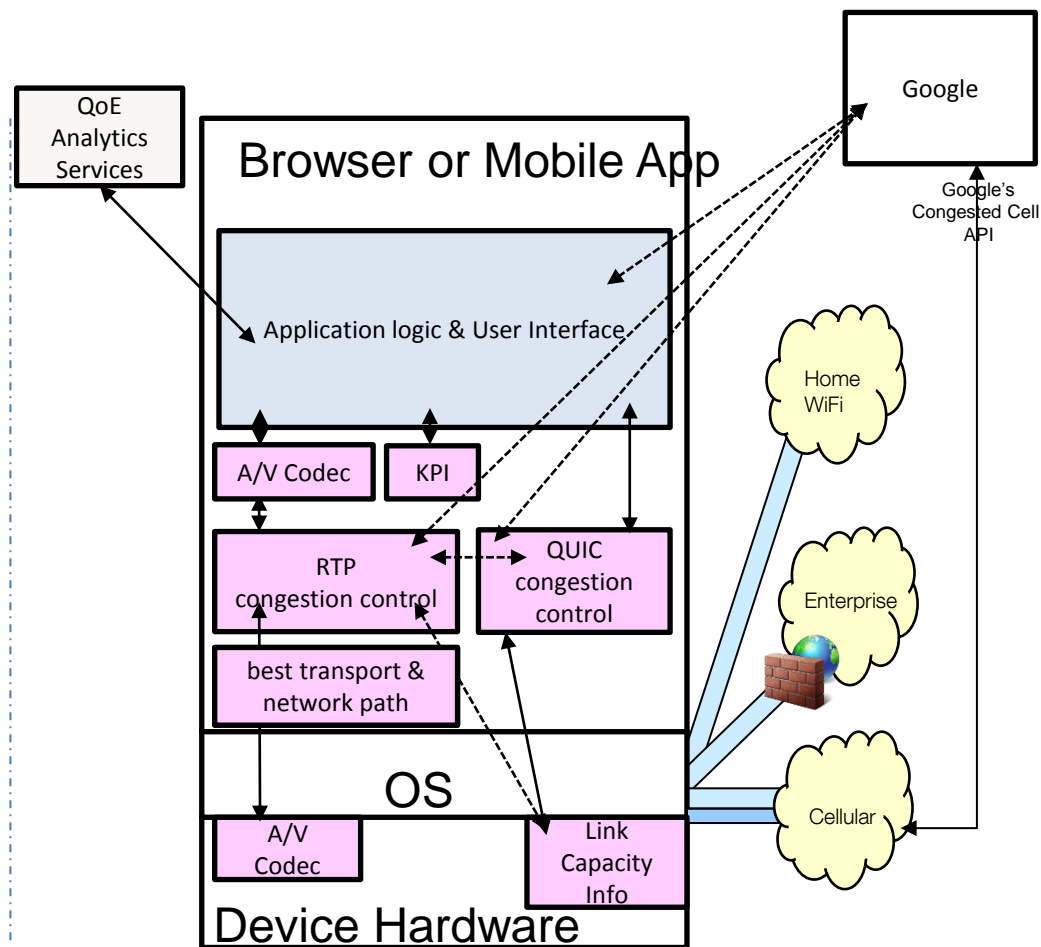




Different postures about connectivity network integration



specialized network treatments & engineering, to “guarantee” telephony quality



adapt to & get the best out of, available resources (Internet access and device)

WebRTC access to IMS

- Extend IMS reach to more devices; More control on client-side apps
- Interworking impact on quality & costs; Still the IMS way-of-life

Interconnecting WebRTC to Telephony

- Not the main aim of WebRTC
- Good -old telephony NNI is the answer

Transplanting pieces of WebRTC in IMS?

- WebRTC as a source of IMS improvement (congestion control, endpoint KPI, firewall traversal, DTLS-RTP stack (vs VoWiFi), anchor-less mobility, SFU support, user-space / kernel-space / modem-dsp split ...)
- Incentive in the IMS ecosystem ?

WebRTC beyond communication silos?

- Need of a more agile NNI approach
- Need to solve multi-domain Identity Management issues
- Valid use-cases ? (e.g. contextual communications between enterprises of a supply chain)

Regarding public telephony

➔ IMS investments threatened by loss of business value, not directly by WebRTC technology

Regarding communication services beyond public telephony

➔ Compared to WebRTC, IMS is no more relevant for innovating in communication services

Shall Telcos invest “in” WebRTC?... Still is an open question, scarcely analysed...

- Are there (good enough) WebRTC-related value generator for connectivity networks ?
- Are there (non-niche) digital businesses in Telcos that would use WebRTC ?
- Are there (good enough) enablers that Telcos could monetize toward digital businesses ?



Innovations in Clouds, Internet and Networks

19th
ICIN
CONFERENCE

PARIS
MARCH 1 - 3, 2016

Thank you!

