

The IPv6 Forum The New Internet



Committed to connecting the world

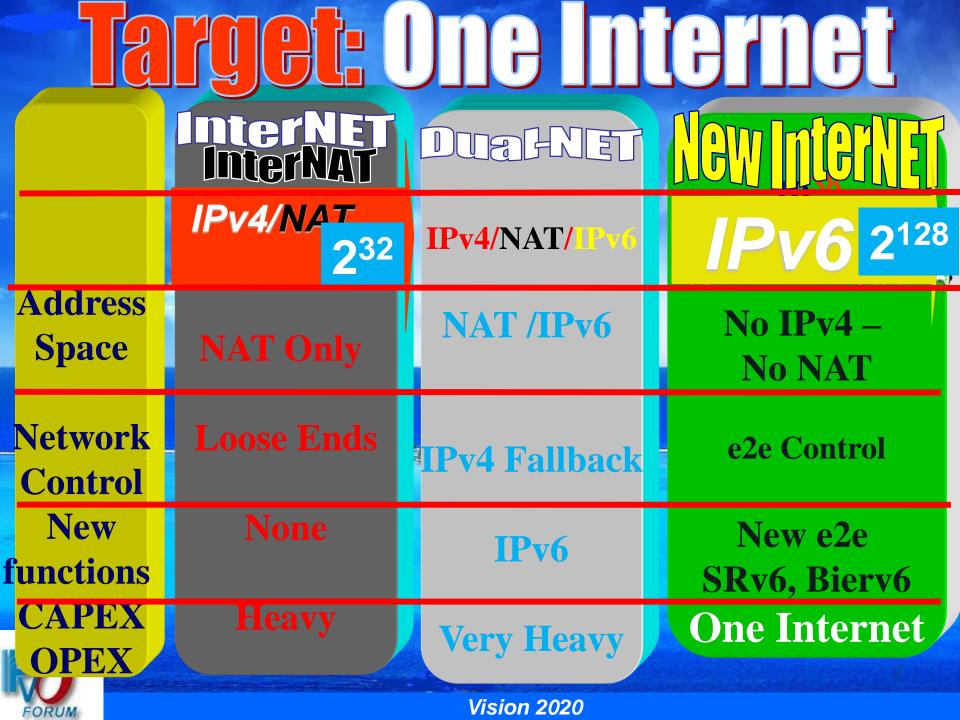


Focus Group on Vehicular Multimedia (FG-VM)





Vision 2020



Broken Internet: IPv4 --- NAT --- CGNAT

NAT: the only alternative for large and growing networks



IPv6 goes direct, access to legacy IPv4 resources via constrained NATs

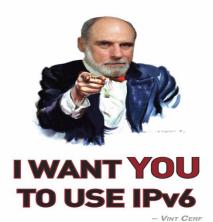


IPv6 Brings User-Experience from the Economy Class to the Business Class



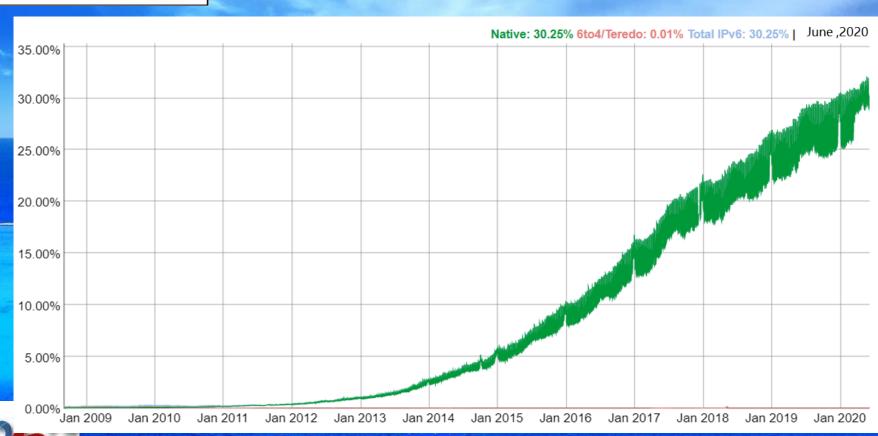




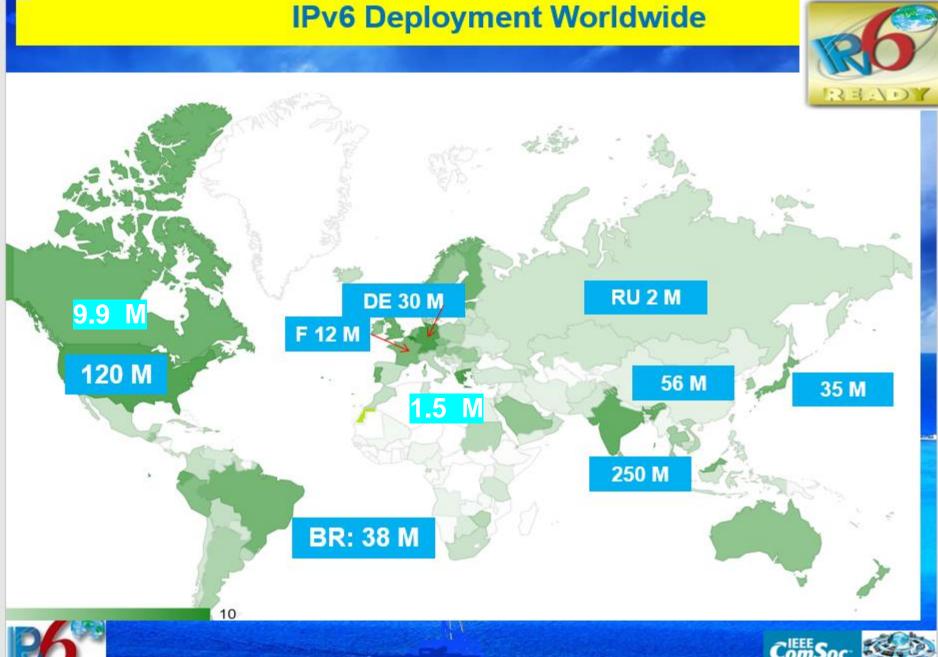


Crossed 30% Google v6 Users 2 100% by 2025













FORUM

MEB10 WEB30 WOT

IPv4

IPV4/NAT

IPv6

HTTP

HTML

XHTML

WoT

WWW

Interactive

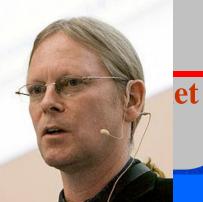
Semantic Web

Tim Berners-Lee

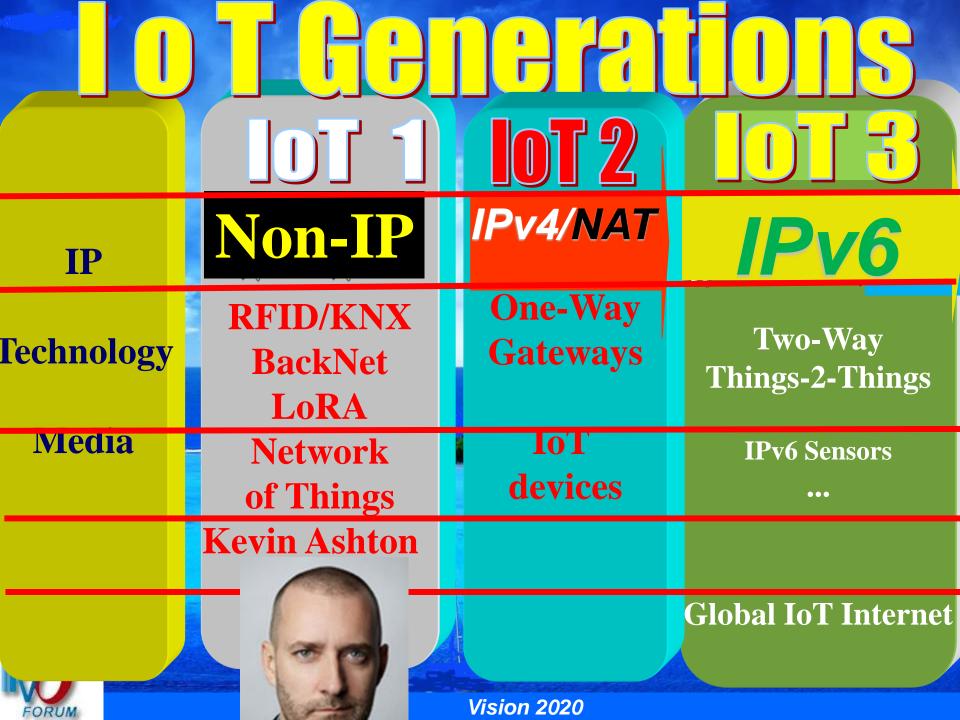


W₃C

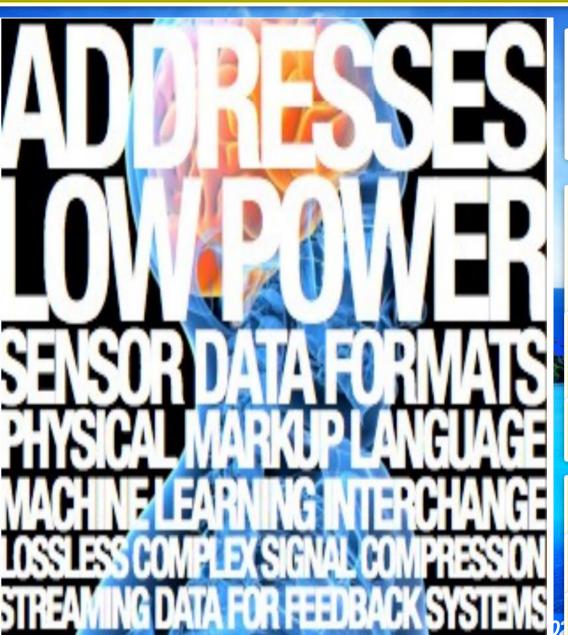
Dave Raggett



Vision 2020



Success Challenges: Kevin Ashton 2012



Jse IPv6

Harvesting Power Wireless Power

Open data formats

CoAP

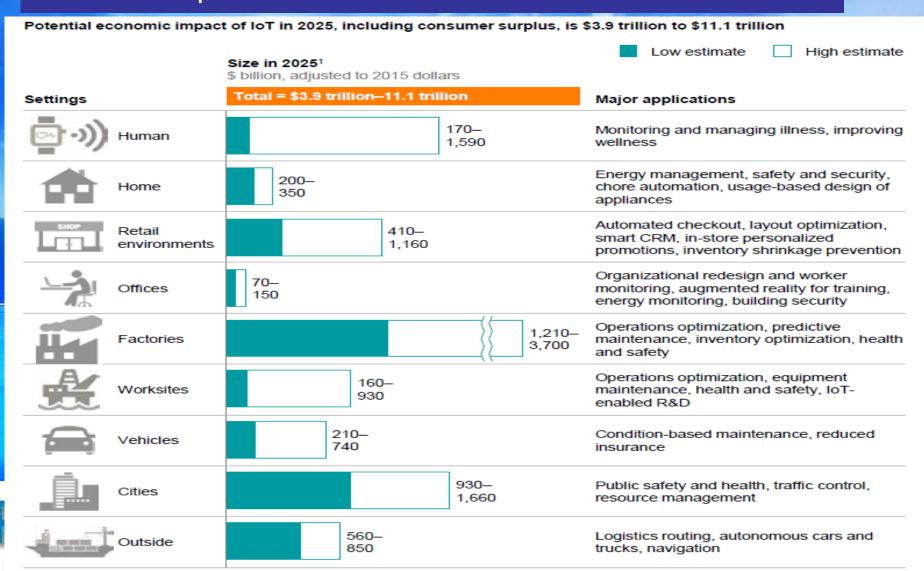
Autonomicity

standardisation

Sensor QoS

Potential Economic Impact of IoT in 2025

\$3.9 – 11.1 Trillion value of IoT



Massive Capacity



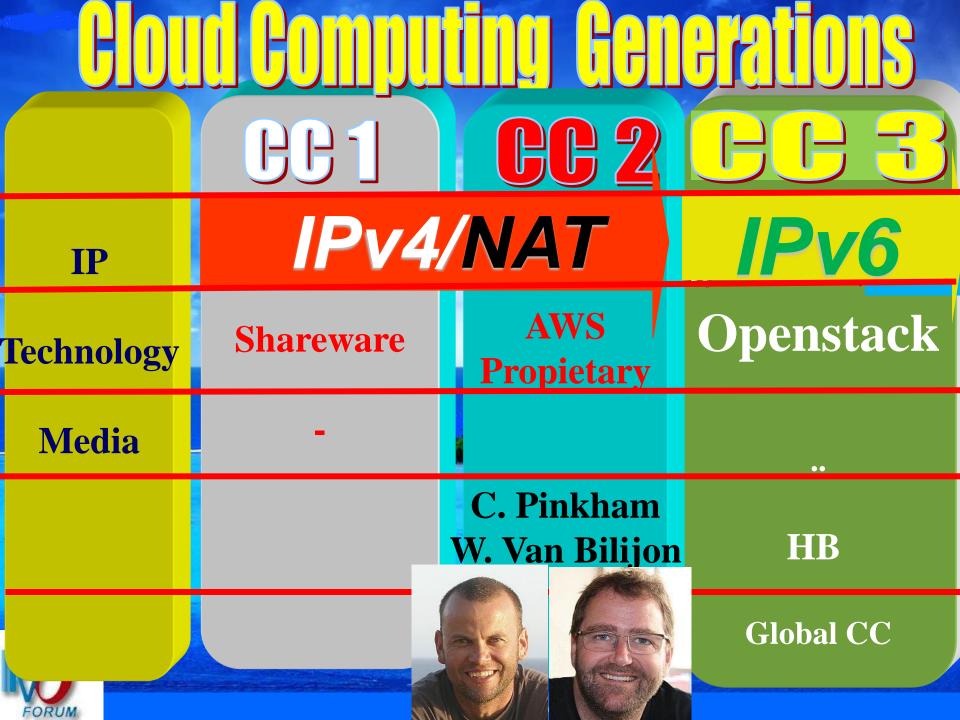
Adrian Scrase CTO – ETSI Secretary 3GPP

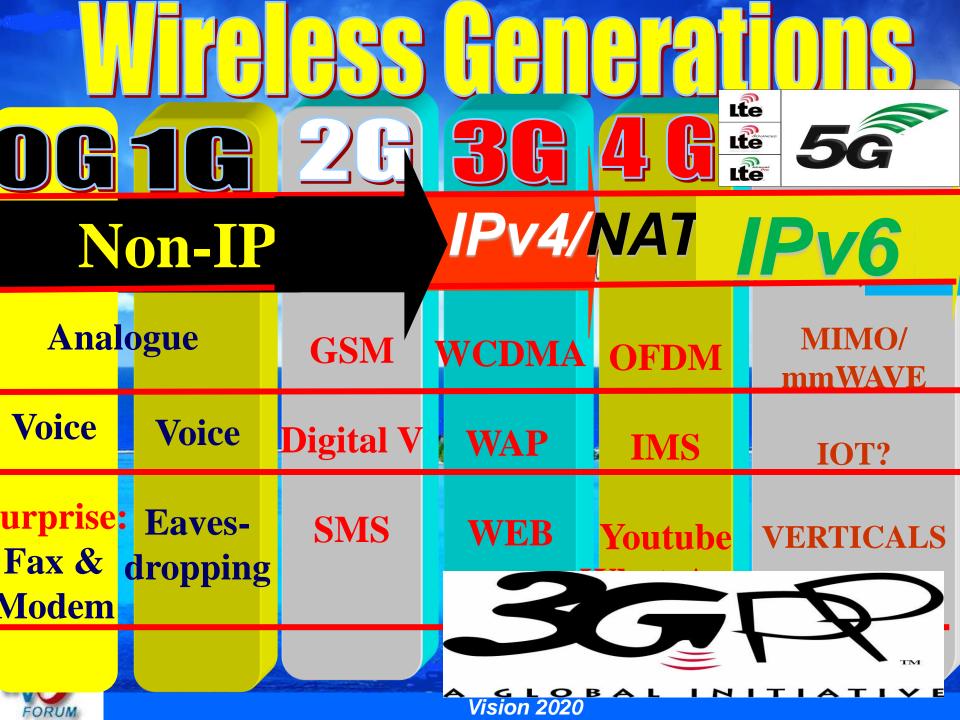


April 2019

- Key requirement for IoT-dedicated radio interfaces. Besides the physical layer itself, this is achieved by a set of improvements such as:
 - No data transmission when the device has "nothing to say" (also improves consumption)
 - Random spread of start transmit time, so e.g. all the electricity meters do not start sending their data at the same time
 - Devices Grouping, so e.g. all the electricity meters can be addressed at once
- Naming, numbering and addressing:
 - Alternatives to E.164 for Machine-Type Communications:
 - Use of IPv6 addressing, instead of (capacity limited) E.164 numbering







Very Next Wireless Generation





6G³

IPv6

IPv6

MIMO/ mmWAVE

IOT?

VERTICALS

Teraherz

Indoor Terabit

DEEPER VERTICALS

W. Internet

VISIOII ZUZU





Future Networked Car Symposium

5 March 2020 Geneva, Switzerland



FNC 2020

Geneva International Motor Show

IPv6 endorsed at the FNC 2020

https://www.itu.int/en/fnc/2020/Documents/The% 20Dispatcher_April%202020.pdf



Organized by





5G Harmonised Research and Trials for service Evolution between EU and China

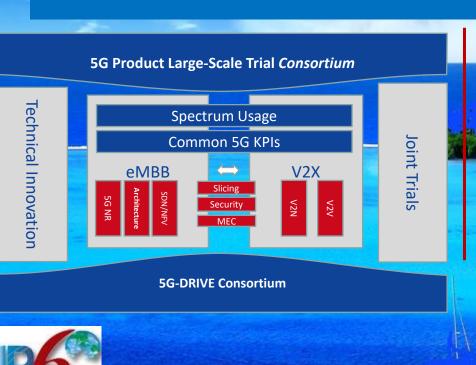
GA No. 814956 H2020-ICT-22-2018 | EU-China 5G Collaboration





5G-DRIVE in nutshell

- 5G DRIVE aims is to bridge current 5G developments in Europe and China through joint trials and research activities in order to facilitate technology convergence, spectrum harmonisation and business.
- 30-month (September 2018 February 2021) Research and Innovation Action project, funded under the Horizon 2020 Framework programme.
- 17 partners from 10 European countries (Germany, Finland, Belgium, Italy, Switzerland, Poland, Greece, Portugal, United Kingdom and Luxembourg).

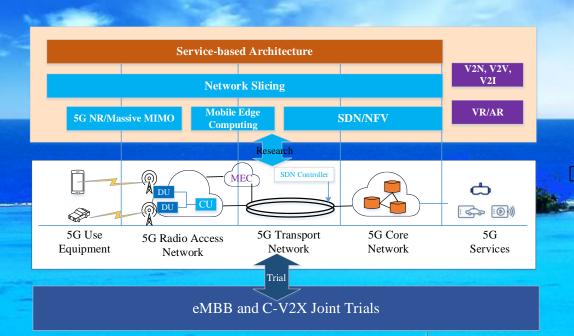


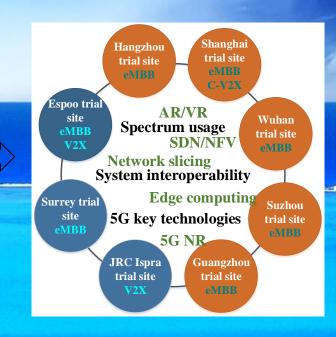


Chinese Twin Project Consortium: China Mobile,
Huawei, Datang, Ericsson China, Trac Management
Science Research Institute MoPS
Research Institute of Highway MoT, Shanghai
International Automobile City
Beijing University of Posts and
Telecommunications

EU-China 5G trial collaboration

- 5G-DRIVE collaborates with 5G Product R&D Large-scale Trial project led by China Mobile
 - Cover from terminals, RAN, transport network, core network, and 5G services
 - 5G trial cities in Chinese twinning project







STANDARDISATION HARMONISATION LAYERS





Apps

IOT

Business

Instrumentation

Cloud

Agility

SDN/NFV

Flexibility



IPv6

Scalability

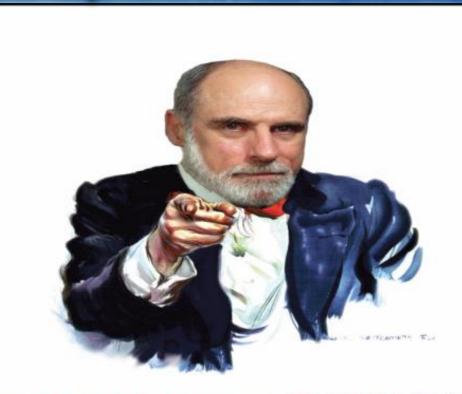




RADIO ACCESS



Message From Vint Cerf Honorary Chair IPv6 Forum



I WANT YOU TO USE IPv6

- VINT CERF

