

# Horizon 2020

## Challenge 3: Future Internet

**A PPP on Advanced 5G Network Infrastructure  
for Future Internet**

**Future Internet Assembly, 10 May 2013**

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HORIZON 2020



# Context

## Horizon 2020 Proposal

Other public-private partnerships supported under FP7 for which further support may be provided... are: FoF, EEB, European Green Cars Initiative, **Future Internet**.

## Current FI PPP

Requested to include equal footing contribution from the IT and the Telecom sectors

Reality: main focus on service platforms and application innovation

## Speech Commissioner N. Kroes

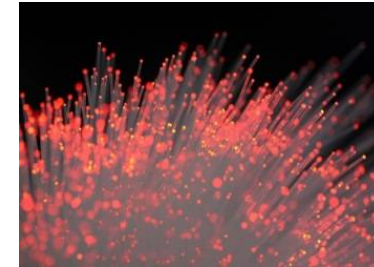
Barcelona, Mobile World Congress, Feb. 2013, inviting industry to submit partnership proposals for 5G future networks

# Network Technologies, trends driving EU Research

## Data explosion, content

High capacity networks

Architectures, e.g. CCN, ICN



## Novel approach to Management & Service support

NFV/SDN, open programmable and virtualised networks

E2E SLA, cloud interoperability/integration

## Mobility

High capacity wireless, spectrum efficient and flexible technologies

Low EMF characteristics

Next gen converged and global mobile networks



2G population coverage



3G population coverage

# Network Technologies, trends driving EU Research

## Sustainability

Green networks, drastic energy reduction/user  
all optical



## Flexibility, low OPEX

Flexible self-management across multiple domains.

Big data usage, QoE

Leveraging network data in higher level applications

## Objects connectivity

IoT, spectrum efficient technologies

Integration environment, superstacks?

## Security, "in build"; Testbed and large scale validation

# 5G PPP: Approach

## Strong foundation:

- Close cooperation with community and within community
- Strong and visible community (800 companies and institutions in NET!WORKS) – but NOT restricted to.
- Industry oriented strategy



## Milestones

- 10 May – 31 May: Public consultation:

<http://www.networks-etp.eu>

- 26 June: Communication of Commission
- June – October: negotiation
- End 2013: Contractual Agreement EC-Partnership Association