

# Future Internet Research and Experimentation

Breakout Session 6

Chairs: Anastasius Gavras, Serge Fdida  
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# General outline

- ▶ Opening
- ▶ Expectations → offering in 2-3 years
- ▶ Industry cooperation and commitment
- ▶ Research requirements wrt. experimental facilities
- ▶ Coffee break
- ▶ Discussion organised in 4 blocks
  - Collect requirements
  - Supporting the research cycle
  - Design principles of the experimental facility
  - Sustainability, governance, industry

# Outline 09:00 – 10:30

- ▶ Opening
  - M. Campolargo
- ▶ Expectations → offering in 2-3 years
  - S. Fdida, Onelab / OnelabII
  - A. Gavras, Panlab / PII
  - M. Campanella, Federica
  - G. Kormentzas, UNITE
- ▶ Industry cooperation and commitment
  - R. Tafazolli, eMobility,
  - S. Druais, NESSI
- ▶ Research requirements wrt. experimental facilities
  - M. May, ANA
  - H. Abramovicz, 4Ward
  - D. Trossen, Trilogy, Psirp
  - M. Presser, Sensei
  - B. Plattner, Resume-Net
  - S. Ristol, Soa4all, Beingrid
  - A. Mihovska, Aspire

# Outline 11:25 – 12:30

## **Four discussion blocks**

- ▶ Collect requirements → ref. #2, #6, #8
- ▶ Supporting the research cycle → ref. #5
- ▶ Design principles of the experimental facility → ref. #1, #3
- ▶ Sustainability, governance, industry → #4, #7

# Block I

## Collect requirements

- ▶ Scope and expected value of concrete and visionary research
  - What must be supported by a large-scale experimental facility?
- ▶ How to allow for testing of technologies on the network as well as on the service layer?
  - A complex system cutting across many layers
  - Vertical vs. horizontal integration
- ▶ How can end-users be effectively involved?
  - How to incorporate user-driven innovation?
  - How to assess the usability and socio-economic impact?

# Block II

## **Supporting the research cycle**

- ▶ How can the experimental facility effectively support the research cycle?
  - How to meet future requirements for experimentation by ongoing research?
  - How to plan for future inclusion, integration, and use of maturing testbed prototypes?

# Block III

## Design principles

- ▶ Configuration, roadmap and offering of relevant projects
  - Availability of testbed services in 2-3 years
- ▶ Design principles and characteristics of the FIRE facility
  - federation, virtualisation, auto-configuration, modularisation, security, adherence to open standards, use of open source...

# Block IV

## **Sustainability, governance, industry**

- ▶ How will fundamental federation principles be applied?
  - openness in provisioning and use, excellence of the offering, governance and management of the federation
- ▶ Joint industry commitment and academic involvement
  - How to promote close collaboration?
  - How does this collaboration contribute to the sustainability of the facility?