

# trilogy 2

## Building the liquid Internet

Timescale: Start January 2013, 36 months

Resources:

- Total cost: 5.1m Euros
- EC contribution: 3.7m Euros

Project identification: INFSO-ICT-317756



# Trilogy 2 participants

## Partners

- **Operator**
  - BT (WP leader)
  - Telefónica (WP leader)
- **Vendors**
  - NEC (WP leader)
  - OnApp (WP leader)
  - Intel
  - Nextworks
- **Academia**
  - UC3M (Coordinator)
  - UCL-UK
  - UCL-BE
  - UPB
  - UCAM

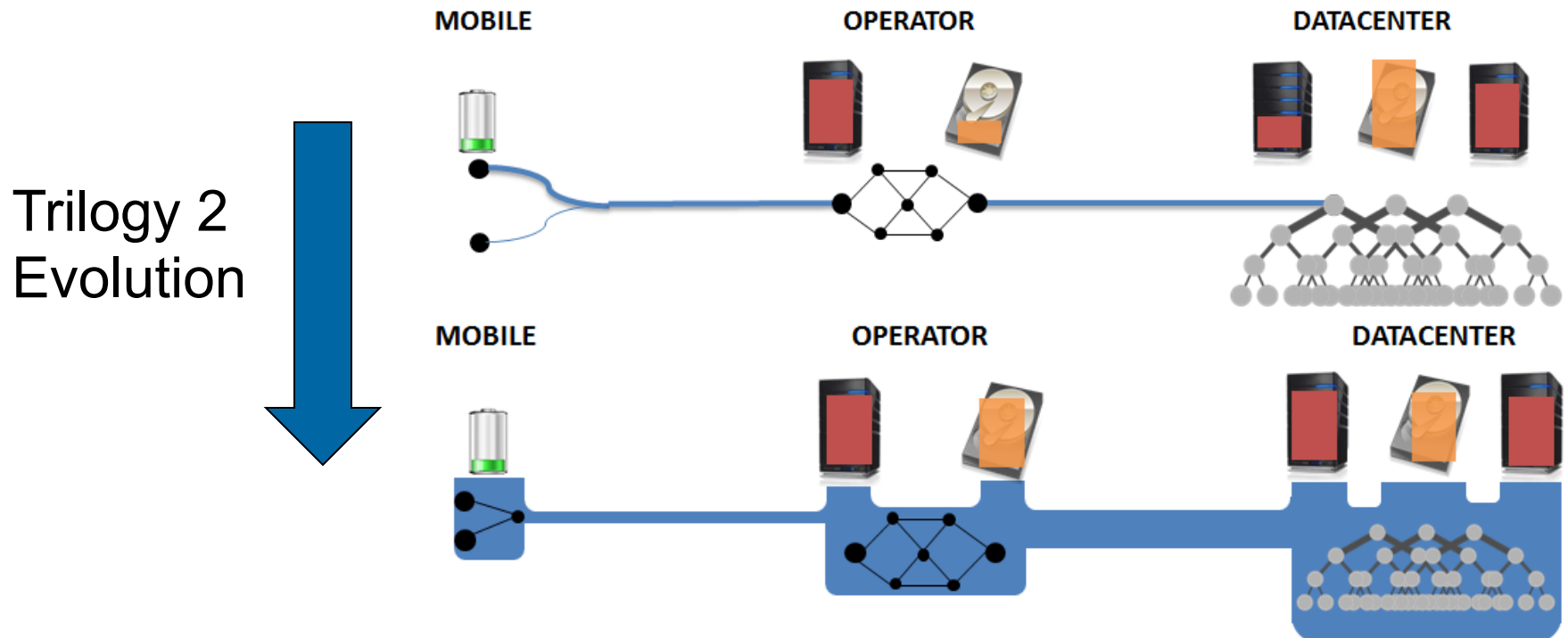
## Key People

- **Operators**
  - Bob Briscoe
  - Pedro Aranda, Diego Lopez
- **Vendors**
  - Felipe Huici
  - Julian Chesterfield, John Thomson
  - George Milesco, Valentin Ilie
  - Giacomo Bernini
- **Academia**
  - Marcelo Bagnulo, Francisco Valera
  - Mark Handley
  - Olivier Bonaventure
  - Costin Raci
  - Jon Crowcroft, Anil Madhavapeddy

# Trilogy 2 vision

- **Vision: The Internet should behave as a liquid network.**

*A liquid system allows resources including bandwidth, storage and processing to be used by any application whether they are contributed by network operators, data centers or end systems*

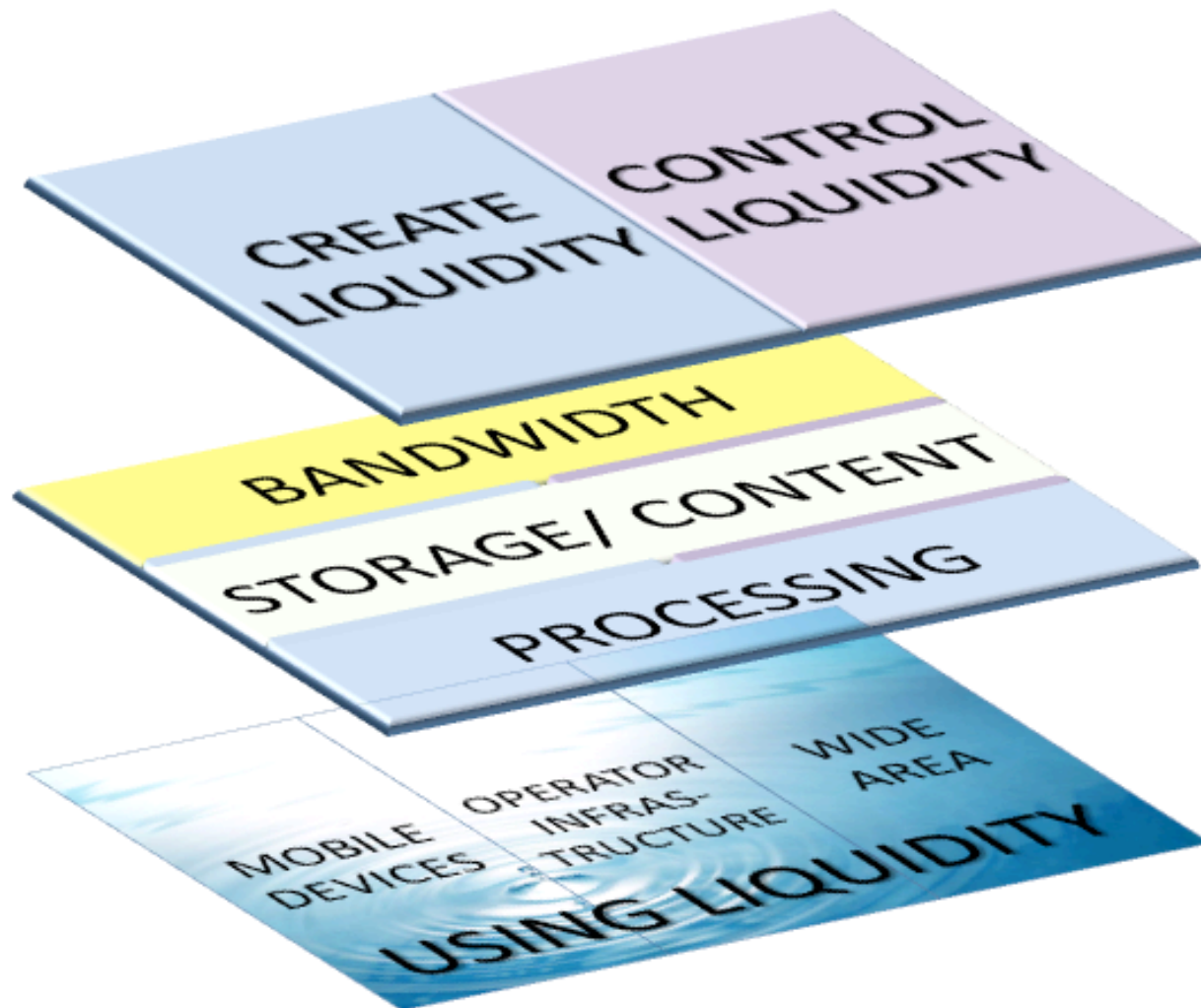


# Objectives

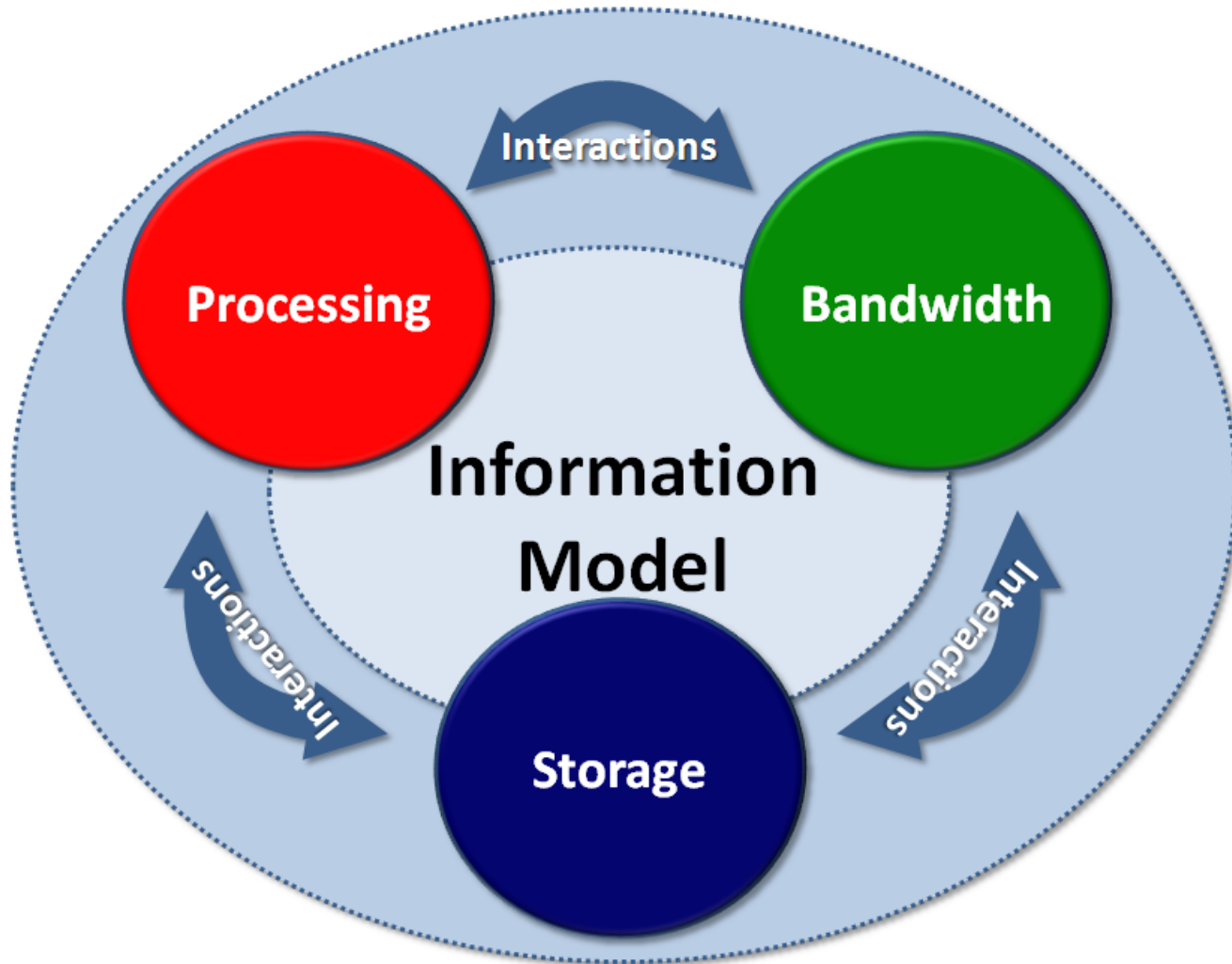
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1. **Develop a unified architecture** for the Internet for generalized **resource pooling** and trading between different types of resources including **bandwidth, processing and storage** in a scalable, dynamic, autonomous and robust manner to local operational and business requirements.
2. Research, develop, implement and evaluate **new technical solutions** for the **creation of resource pools and trading off between them**, in the areas of bandwidth, storage and processing.
3. Research, develop and evaluate **mechanisms to control the created liquidity**. Liquidity needs to be controlled, in order to be able to isolate different tenants, to make quality of service guarantees and to trade off resources in an economically efficient manner.
4. Implement and perform **validation trials** of the proposed architecture and mechanisms for specific use cases such as **mobile scenarios, network-as-a-service** and **data centers**.

# Conceptual schema



# Trilogy 2 Framework



# Results

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- **Publications on scientific venues**
- **Standardization**
  - IETF
  - ETSI NFV
- **Software**
  - MPTCP
  - Polyversal TCP
  - Irminsule
  - Trevi
  - GRIN

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