Next Generation Internet. Why?

Today's Internet

- "Primitive"
- Fragmented
- Concentration of power
- Security & privacy concerns

Future Internet

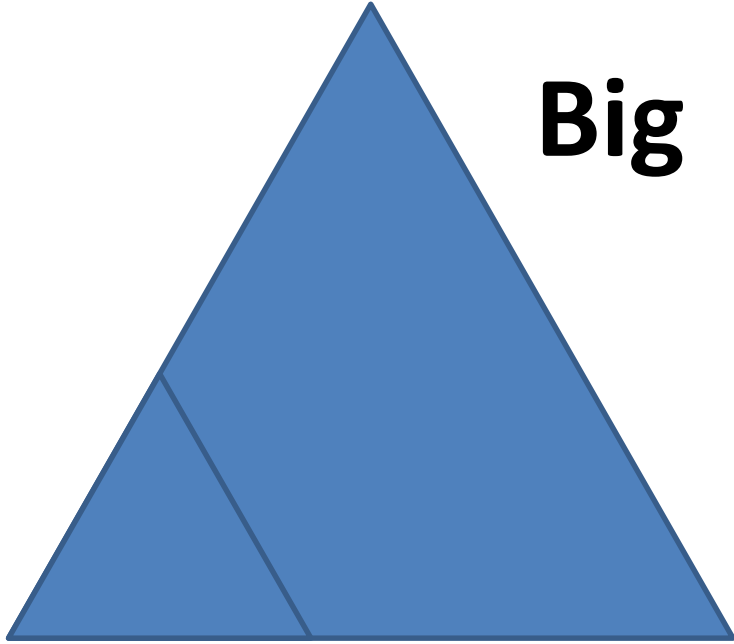- **Radically new functionalities**

- **An internet for the people**

What will Europe do?

"It should offer more to people and to our society, providing better services and greater involvement and participation.

It should be designed for humans, so that it can meet its full potential for society and economy and reflect the social and ethical values that we enjoy in our societies"
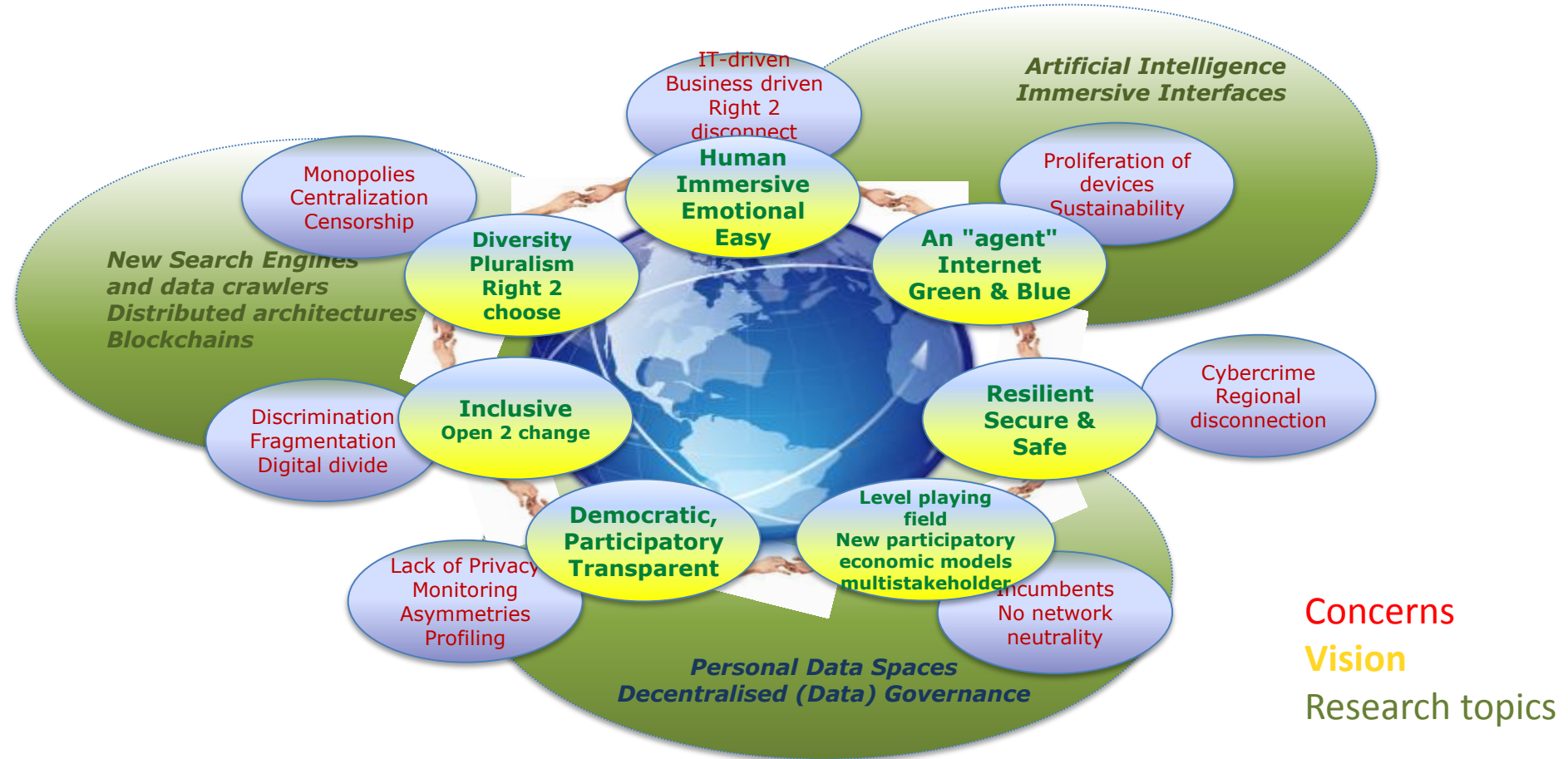
Roberto Viola

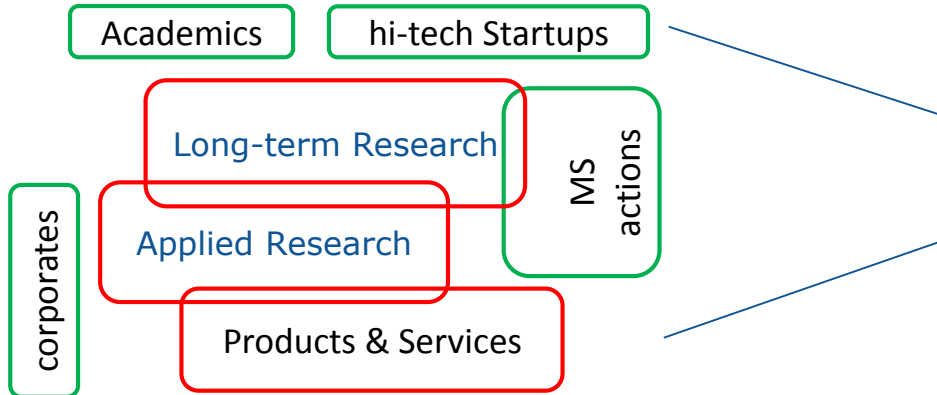**Big**

Agile

Vision for this next generation Internet

IT-driven
Business driven
Right 2 disconnect

**Artificial Intelligence
Immersive Interfaces**

Monopolies
Centralization
Censorship

Proliferation of
devices
Sustainability

**Human
Immersive
Emotional
Easy**

**New Search Engines
and data crawlers
Distributed architectures
Blockchains**

**Diversity
Pluralism
Right 2
choose**

**An "agent"
Internet
Green & Blue**

Discrimination
Fragmentation
Digital divide

**Inclusive
Open 2 change**

**Resilient
Secure &
Safe**

Cybercrime
Regional
disconnection

**Democratic,
Participatory
Transparent**

**Level playing
field
New participatory
economic models
multistakeholder**

Lack of Privacy
Monitoring
Asymmetries
Profiling

Incumbents
No network
neutrality

**Personal Data Spaces
Decentralised (Data) Governance**

Concerns
Vision
Research topics

Characteristics

#Think Big: Start now, prototype in H2020, flagship in FP9?

#Different process: Fast & flexible, continuously agile

#Different people: Real Internet researchers & innovators, stake-holders who are not part of community RTD&I today.

#Open: Build true partnership, national programmes & US

#Visible: Professional communication & marketing

#Multidisc: Cater for innovation coming from the unexpected

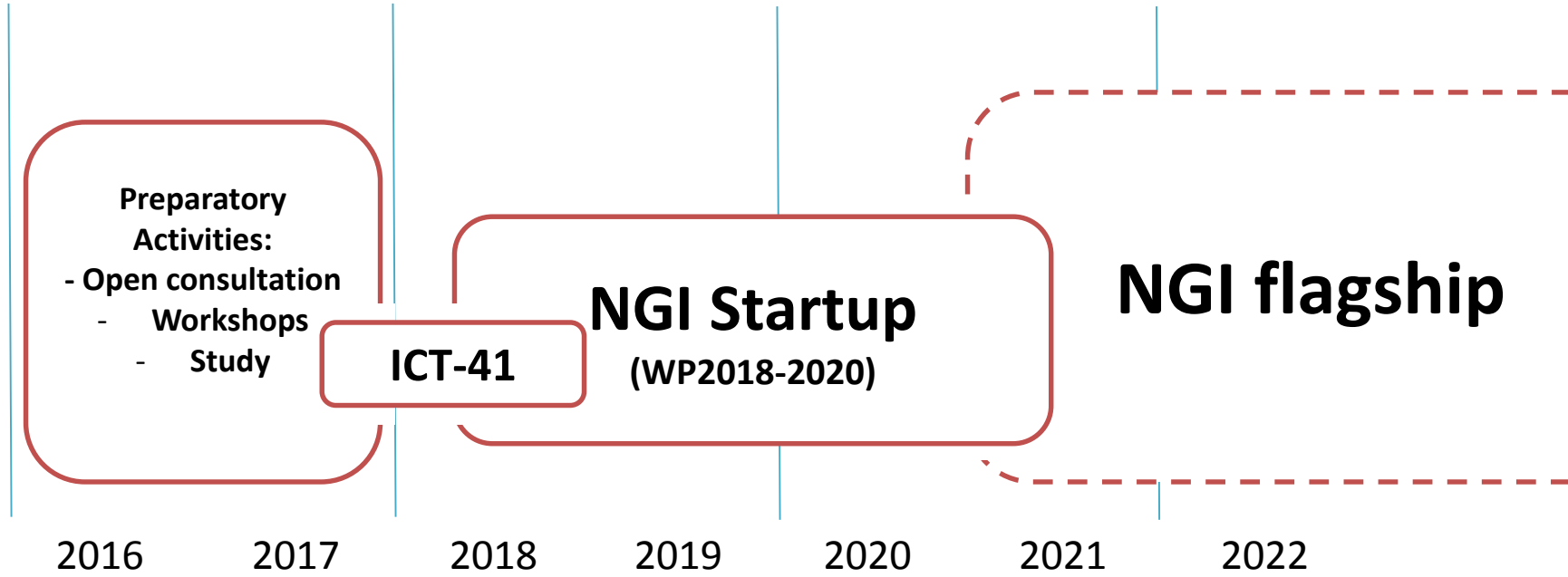**#Policy:** Embed within the broader European policy lines

Implementation

- A European **movement** for a human Internet as a political objective

- **Link** long-term research with applied research, with policy and societal expectations

- Strategic planning for **deployment**

- Internet respecting **human & societal values**

- **Privacy**, **participation** and **diversity**

- **Radical new functionality** to support people's lives & global sustainability

Academics   hi-tech Startups

Long-term Research

MS actions

corporates

Applied Research

Products & Services

**1 Goal:
Human Internet**

7

Roadmap

Preparatory Activities:
- Open consultation
- Workshops
- Study

ICT-41

NGI Startup
(WP2018-2020)

NGI flagship

2016   2017   2018   2019   2020   2021   2022

Roadmap: Ongoing Actions

- ✓ Open **Consultation**: https://ec.europa.eu/futurium/en/next-generation-internet, open until **9 January 2017**

- ✓ **Workshops** (topical, validating the concept, participate in related MS workshops, … open)

- ✓ Creating an **ecosystem** with new stakeholder communities: young researchers, startups, civil society

- ✓ NGI support **study** (Jan – Sept 2017)

- ✓ **Call** for support actions: **ICT-41-2017**

- ✓ Conversation with our **US partners**

CHANGING
PLACE
CHANGING
TIME
CHANGING
THOUGHTS
CHANGING
FUTURE®

ICT-41

- **Establish** the base for a large scale research flagship on the NGI.
- **Prototype** and validate new processes for research and innovation on NGI.
- **Mobilise** the new players indispensable for agile research on the NGI, notably leading individual or teams of researchers and high tech startups.
- **Build** an active, visible and agile ecosystem comprising all relevant stakeholders for making the NGI flagship a success.
- **Build** a dynamic and growing knowledge base of technological trends, initiatives and key players in the area of NGI.

ICT-41

a) Identification of _research topics_

b) Dynamic and continuous _consultation_

c) Building a _model_ which delivers

Three Coordination and Support Actions - one for each area.

All three to act as one 'project'.

ICT-41 Data sheet

- Budget: Euro 2 million

- Deadline: 25 April 2017

- Type of Action: Coordination and support action

The Commission considers that proposals requesting a contribution from the EU of about 0.7 million would allow each bullet point (a, b and c) to be addressed appropriately. Nonetheless, this does not preclude submission and selection of proposals requesting other amounts. No more than one action per bullet point will be funded.

Advice

Consortium:
- 1-2 partners
- Credibility in the Internet research community
- Competent to lead the action

Proposal:
- Involve the real and leading European Internet researchers and innovators. Next generation of Internet by a new generation of people.
- Very concrete in terms of names and actors.
- Become one project with the other two actions, foresee resources for this. Stay agile, agile, agile!
- Communication and marketing are key.
- Ready to start 1 September 2017, front load.

Open Information Day planned for end January/February 2017

Follow the NGI - Initiative

✓ Take part in our **open consultation**!

✓ Follow **Futurium**!

✓ Join and contribute to our **debate section**!

✓ Follow us on 🐦 **@ngi4eu**!

✓ Share it**!**

https://ec.europa.eu/digital-single-market/en/next-generation-internet-initiative (Digital Single Market Website)