

Community IP networks

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- **Collective need** to be connected (Inet rights), a community (region)
 - Barriers = challenges (geo, tech, econ, com, political, legal, env) → **motivation**
- A **do-it-yourself** movement (self-provision)
 - **Sharing knowledge:** HOWTOs, lots of volunteers sharing enthusiasm
 - Awareness+participation+coordination+governance:
collective action: construct, operate, use, structure, “drive” the net
- Members: citizens, non-profits, SME, local gov, univs
- Enabled/success: **need, activism** → community, commoditization (devices, software, knowledge, tasks), evolutionary design and dev of tools
- Socio-technical structures, spontaneous growth, ICT-supported
- Many communities in Europe, one FIRE IP project (confine-project.eu)

Key issues

- Experimental evolutionary approach
 - Bottom up, self-organising (driven by need + trial & error)
 - Different for different communities (tools, knowledge, processes)
 - Openness
 - Interoperability (e.g. open data, open protocols) *idea intensive*
 - Lack of: function → monopolistic business: risk of abuse / ossification (many examples) *capital intensive*
 - Evolutionary (self-org) vs intelligent design (driver)
 - **Intelligence in the small**, awareness+emergence in the large
 - A research domain, many disciplines can contribute
 - Collective A+A:
citizen-driven, experimentally-driven, multi-disciplinary research

Evolutionary or Intelligent design

- Other local examples of ICT enabled CAA (driven by **motivation**):
 - Weather data collection community < 5,000 nodes
 - Guifi.net: Community network > 14,000 nodes
 - 15M movement: “Europe for the citizens and not for the banks” > 70000 users
 - “Som una nació” movement > 100,000 participants ...
- Experimentation-driven evolutionary ICT-supported Collective A+A on different communities of practice:
observation, supporting citizen action → understanding
- How to stimulate, observe, sustain, understand collective A+A
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