

Network Infrastructure as Commons

netCommons

EU Horizon2020

CAPS



European
Commission

Horizon 2020
European Union funding
for Research & Innovation





Community networks are wired and wireless network infrastructures owned and operated by the community members.



GUIFI.NET AVUI SERVEIS ARTICLES RECENTS NOUS TEMES DE DEBAT

31.057 nodes operatius

- ▶ 34.541 enllaços de xarxa
- ▶ 56.480,3 quilòmetres d'enllaços totals
- ▶ 123 nodes creats la darrera setmana
- ▶ 47 nodes passats a operatiu la darrera setmana

Nodes operatius

2004 05 06 07 08 09 10 11 12 13 14 15 16

[més informació ▶](#)

Ninux.org Nodi Attivi: 366 Hotspots: 24 Nodi Potenziali: 2252 Link Attivi: 1

Cerca un nodo, device, IP, MAC

Map Satellite

Mappa Info OLSR VPN

Benvenuti nella rete Ninux!

+ Aggiungi un nuovo nodo

→ Nascondi questa colonna

Cerca un indirizzo

Statistiche

Visualizza nodi potenziali

Visualizza la qualità dei collegamenti:

Disabilitato

Pacchetti persi (ETX)

Segnale ricevuto (DBm)

Lista dei nodi

Nodi Attivi

- [GLM] Isabeau
- [GLM] NukeHome
- [GLM] NukeStudio
- [GLM] Sonic0
- [GLM]Efalcor3
- 61615m1::Brodolini
- A68Castro
- A68Giordani
- A68lastorta
- Acquapagana
- Adrianco
- Alberata
- Ale-Nord
- Alex Genza Montecagnoletto
- Alex tsl Diomede
- Algemfeac
- Alife
- Allakatalla
- Allakatalla-2
- Allakatalla-3

“The aim of ninux.org is the creation of an urban intranet for experimental purposes only, so no Internet.”

What "as a commons" mean?

- Different types of resources
 - Provision, exclusion, rivalry, congestion, ...
- Different notions of community
 - Who is included/excluded
- Complex interdependencies and externalities
 - Infrastructure, services, social/political impact

Community Networks as commons

- Similar to transport networks
 - Non-rivalrous but congestible
 - Requires investments
- But with important differences
 - Easier to build in a distributed way
 - Multiple layers of “commoning” and different uses
- Different reasons why (they affect analysis)
 - Practical, political, social, scientific

not all CNs are the same ...

Key challenges

- Community networks not well understood
 - “Free” Internet vs. local services
- Self-organization comes at a cost
 - It requires organization :-)
- Cooperation under diversity
- Unfair competition and digital hegemony ...

Disciplines involved

Computer Science and Engineering

Economics

Political economy

Law and policy

Urban, social, and media studies

Key actors

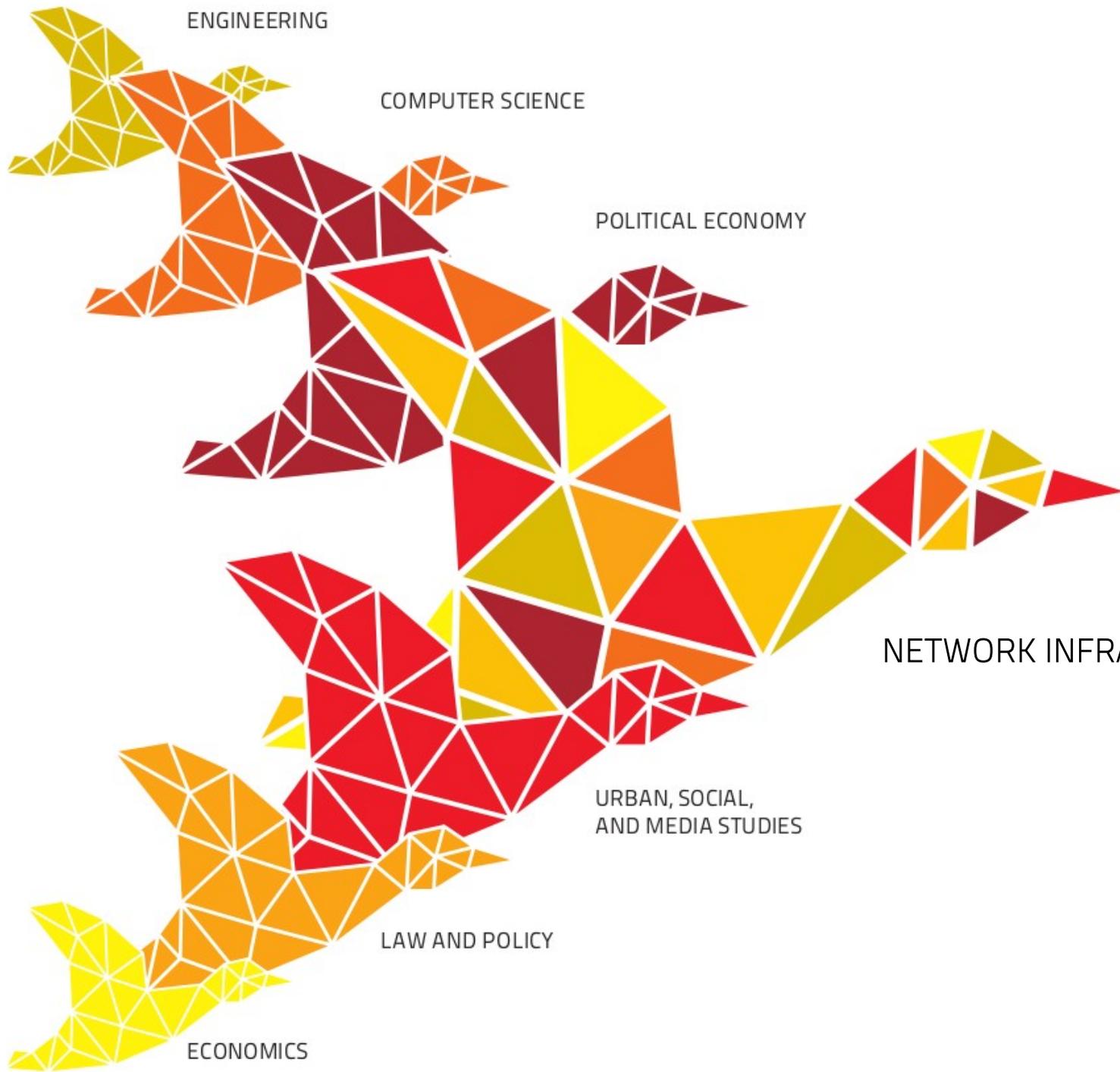
Scientists

Designers and developers

Policy makers and politicians

Civil society and local authorities

Citizens



ENGINEERING

COMPUTER SCIENCE

POLITICAL ECONOMY

NETWORK INFRASTRUCTURE AS COMMONS

URBAN, SOCIAL,
AND MEDIA STUDIES

LAW AND POLICY

ECONOMICS



<http://netcommons.eu> – @netcommons



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