

**Why and how you should build and run
your own Internet Access Provider,
or at least try**

TL;DR: Y U NO ISP

taziden

ffdn.org/en

DISCLAIMER

access

~~hosting~~

~~transit~~

What do these places have in common?







There is a community-driven ISP in each of these places!

FDN: French Data Network

Since 1992

(Almost) nothing has changed

FDN

At first, POTS

Proven useful lately in Egypt, Syria, ...

Since 2005, ADSL access

FDN

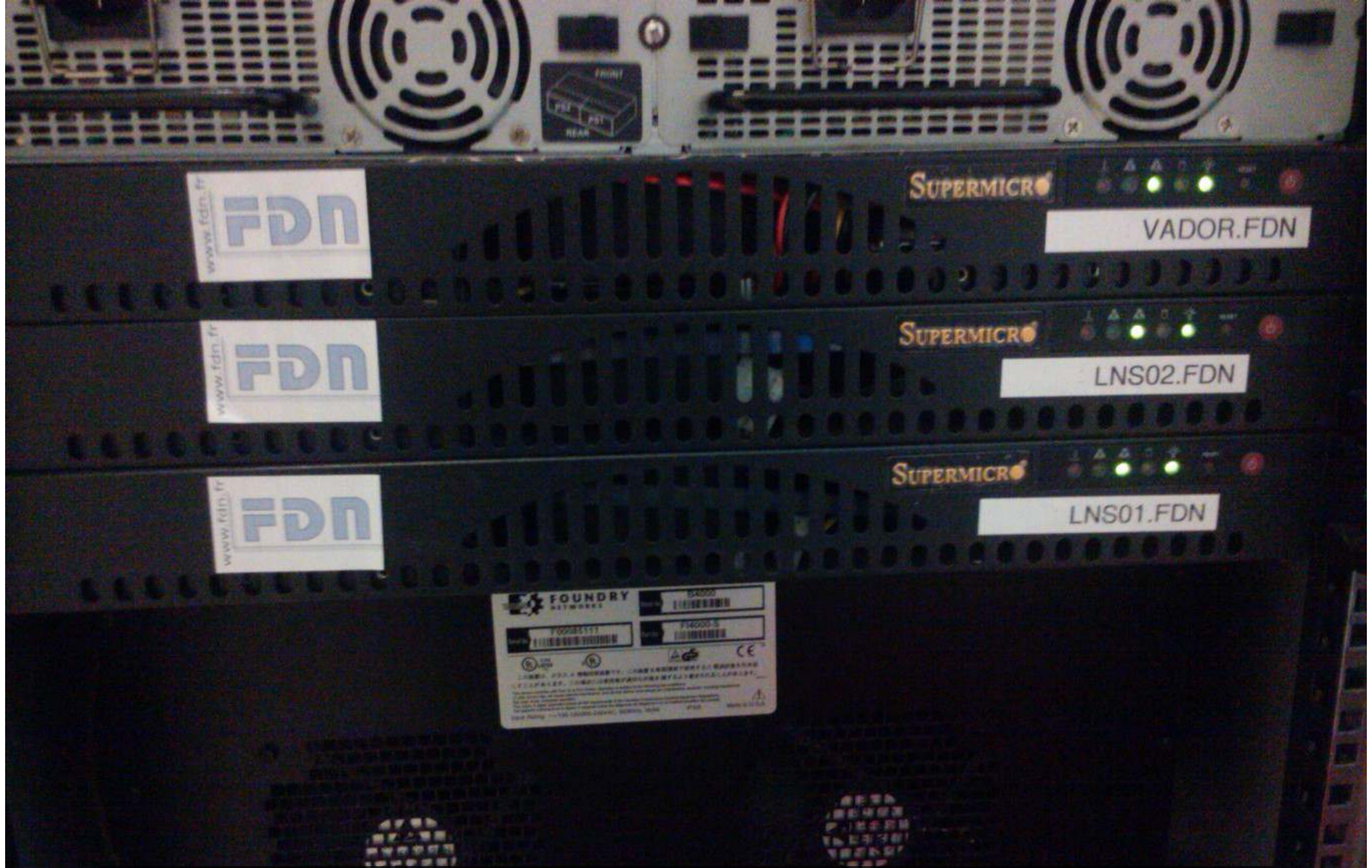
Around 450 members

Approx. 200 people connected all over France

~80Mb/s

/22

Founding member of a non-profit LIR: Gitoyen



Have you already seen your ISP's routers?

FDN

Public IPs: v4/v6

Also VPN

People can ask for more IPs

~~People can ask for prioritization~~

People help each other

FDN

Choose your own adventure ~~books~~ ISP
You're the hero of your own story

2010, time to spread the word

FFDN

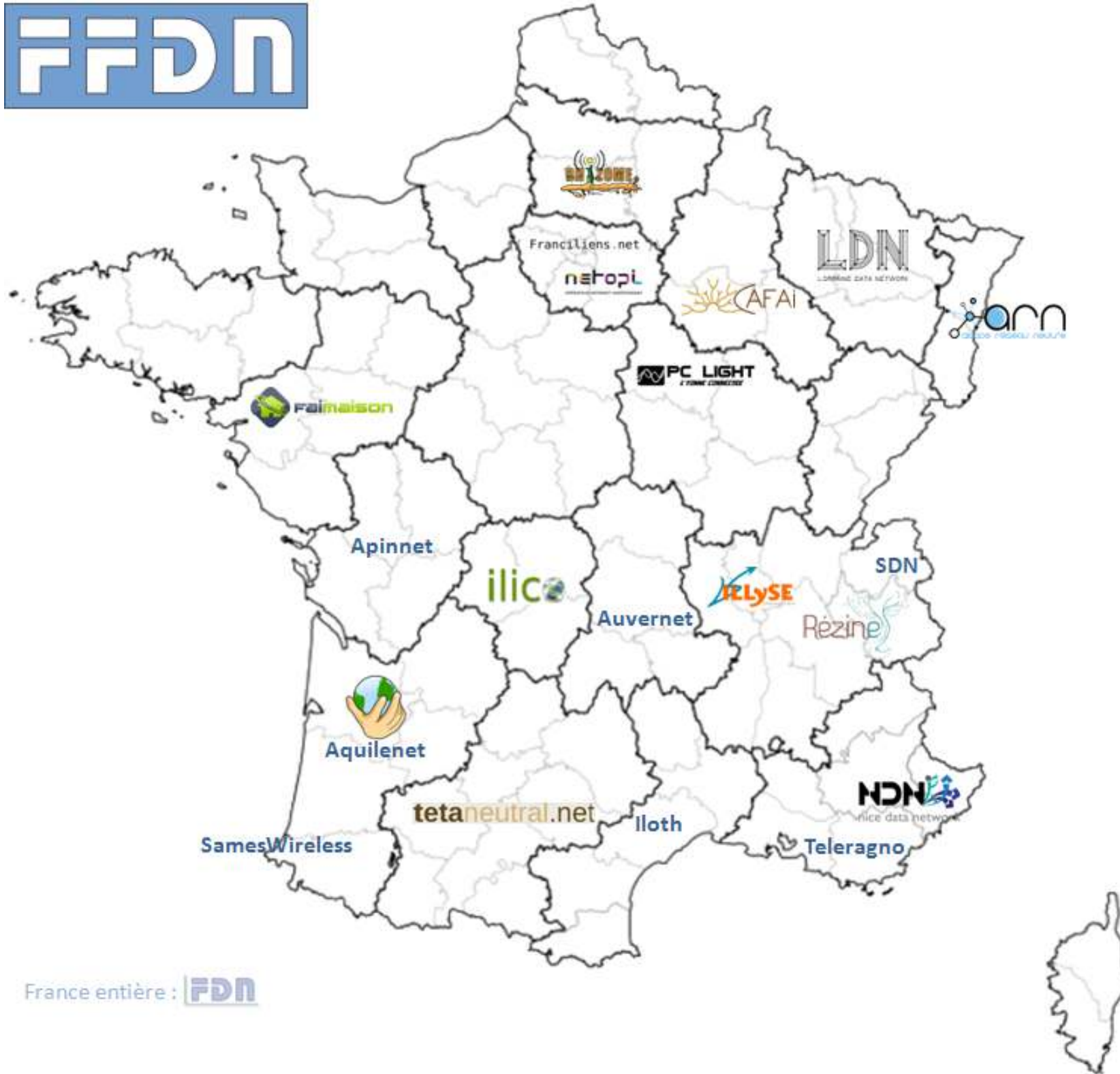
FFDN

2011: 7 non-profit ISPs, ~450 members

Now: 21 non-profit ISPs, ~1500 members

All over France





How

Backhaul contracts

5GHz Wifi bridges

FTTH?

Some examples

Rhizome

Student ISP

Temporary wireless access

Cheap, easy to setup

~ 50 - 70 connected



Tetaneutral.net

Fiber to the DC

Tetalab

Wireless, VPN, VM hosting

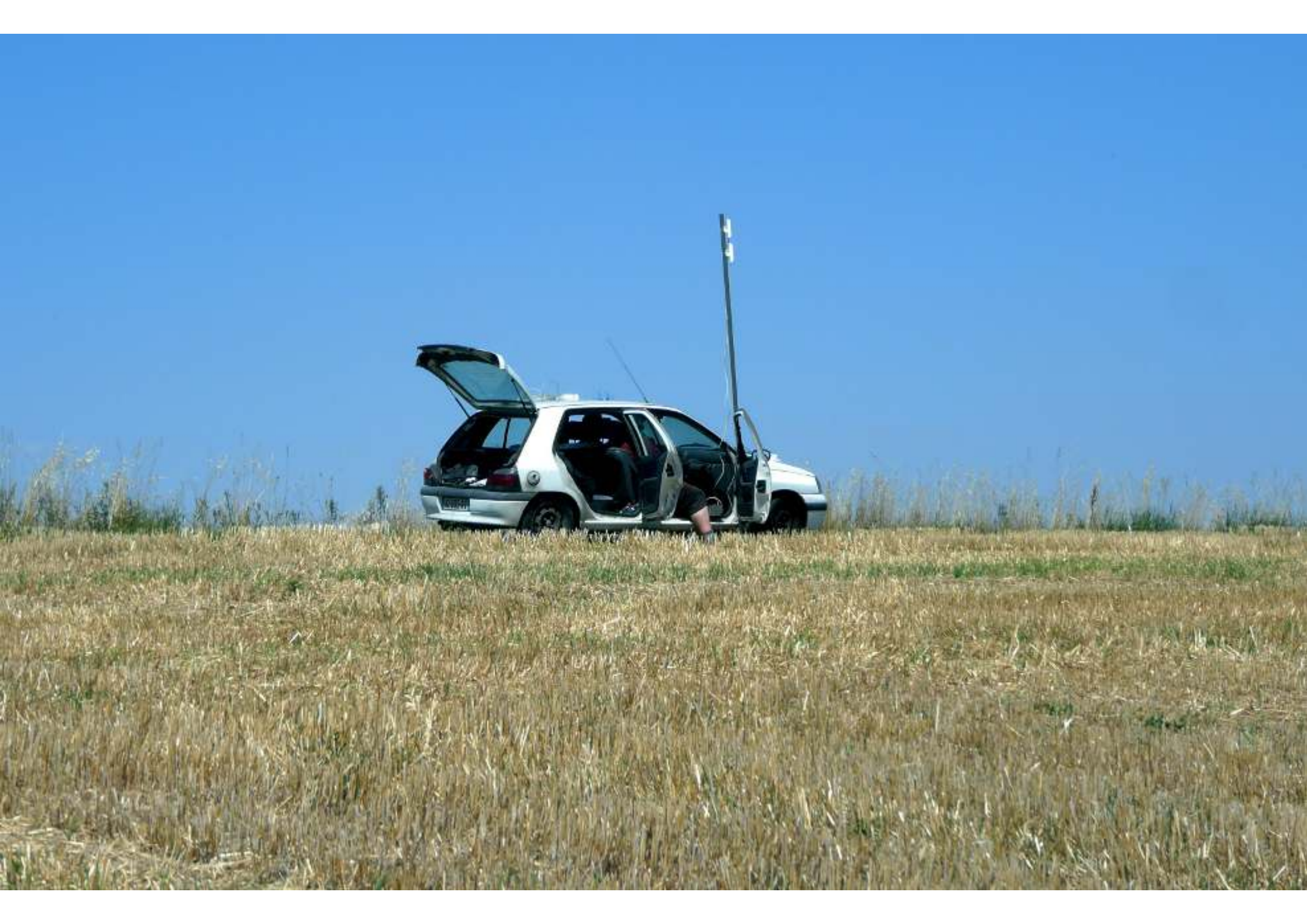
Both dense and dark zones

Provides access to squats

355 members

Approx. 150 - 200 connected

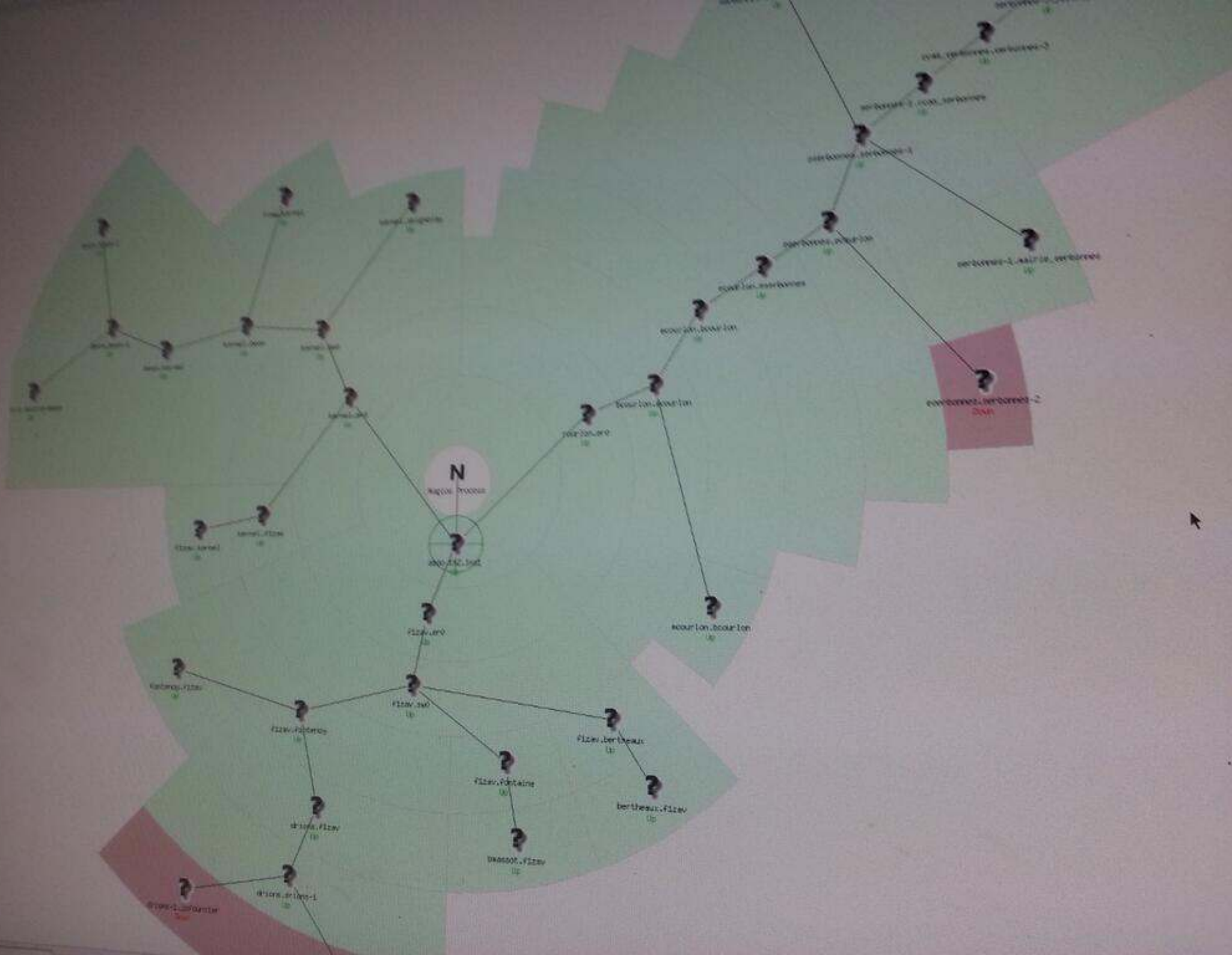
Wireless on top of fibers



PClight89, in Burgundy

~30 connected

First aimed at teaching comp.



Why

More control on the infrastructure

Spread knowledge

Political

Fun







We decide

Services

Prices

Technologies

We share

Wiki

IRC

AFK meetings

We advocate

Journalists

Politicians

SME

Cinema distribution

We have fun

Obstacles

Legal framework

Market

Community/human issues

You're building something that needs to last

EU Legal framework

Not much

Most important, the country regulation

We could try to push things on EU level

Guifi BUB

Bottom Up Broadband initiative

Gather interest and fund eu projects

FTTH, wireless

~~Technical stuff~~

Free software

Quagga, bird, l2tpns, freeradius

Openwrt

Nothing difficult

Sharing is the key

Elsewhere

Guifi (ES)

FNF (US)

Ninux (IT)

In Berlin (DE)

Altermundi (AR)

...

DIY ISP international mailing list

ffdn.org/diy

Y U N O T R Y ?

ffdn.org/en

contact@ffdn.org

@taziden