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
(Appear) 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

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 NO TRY?

ffdn.org/en
contact@ffdn.org
@taziden