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
State of the network in France

Dark zones
Net neutrality under attack
Stupid laws
No diversity
Centralization
Numbers in a database
...

...
Several issues to address

Help people understand the stakes
Public IPs (v4/v6)
Neutral access
Rural networks

...
How do we engage these fights

Federating energies
Sharing knowledge

An example to follow: FDN
FDN: French Data Network
Since 1992
(Almost) nothing has changed
At first, POTS then ADSL since 2005
POTS proven useful lately
Also VPN
Have you ever seen your ISP's routers?
Choose your own adventure books ISP

You're the hero of your own story
In 2010, it was time to spread the word
FFDN

2011: 7 non-profit ISPs, ~450 members
Now: 23 non-profit ISPs, ~1600 members
All over France
[spoiler] soon crossing the borders [/spoiler]
France entière : FDN
How do we connect subscribers?

ADSL backhaul contracts
5GHz Wifi bridges
FTTH soon
RFC1149
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
413 members
Approx. 150 - 200 connected
Wireless on top of fibers
More control on the infrastructure
Local / friendly / human
Better service
Spread knowledge
Political influence
Fun
We decide
Services
Prices
Technologies
We share
Wiki
Mailing lists
IRC
Meatspace meetings
We advocate Journalists Politicians SME Cinema distribution
DATA

LOVE

ALL THE THINGS
Ok, that's for France

What about elsewhere?
The possible obstacles

Legal framework
Market
Community/human issues
You're building something that needs to last
About the EU legal framework

Not much to help
Most important, the country regulation
We could try to push things on EU level
Free software

Quagga, bird, l2tpns, freeradius
Openwrt
Nothing difficult

Sharing is the key
Who's out there?

Guifi (ES)
FNF (US)
Ninux (IT)
Altermundi (AR)
Individual Networks (DE)
...
...
We don't know each other
We don't talk to each other

We don't benefit from the network
even in the same city

Communication and federation is the key
30C3 exclusivity

http://db.ffdn.org/

As a user, find the closest friendly ISP
As a friendly ISP, add your info!
About the database

This page was created by the FDN Federation in an effort to gather information about ISPs sharing its values around the world. The FDN Federation unites more than 20 non-profit ISPs in France, all of which respect and promote Net Neutrality and are volunteer-based. You can learn more about what we stand for on our website.

We hope that this page help you find an ISP near you. If there aren’t any, we encourage you to start your own, and come tell us about it.

If you are member of an ISP sharing our values and are interested in appearing on this page, just follow the guide:

Add my project
Features

JSON ISP description
Subscribers
Area
Techno
...

Manual generation via a form
Automatic updates
API

Free software!
DIY ISP international mailing list

ffdn.org/diy
hackerspaces.org for non-profit/lolcat/cypherpunk/friendly ISPs?
Y U NO TRY?

ffdn.org/en
contact@ffdn.org
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Interested? Come to Hall13 @ 1PM