

**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](https://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

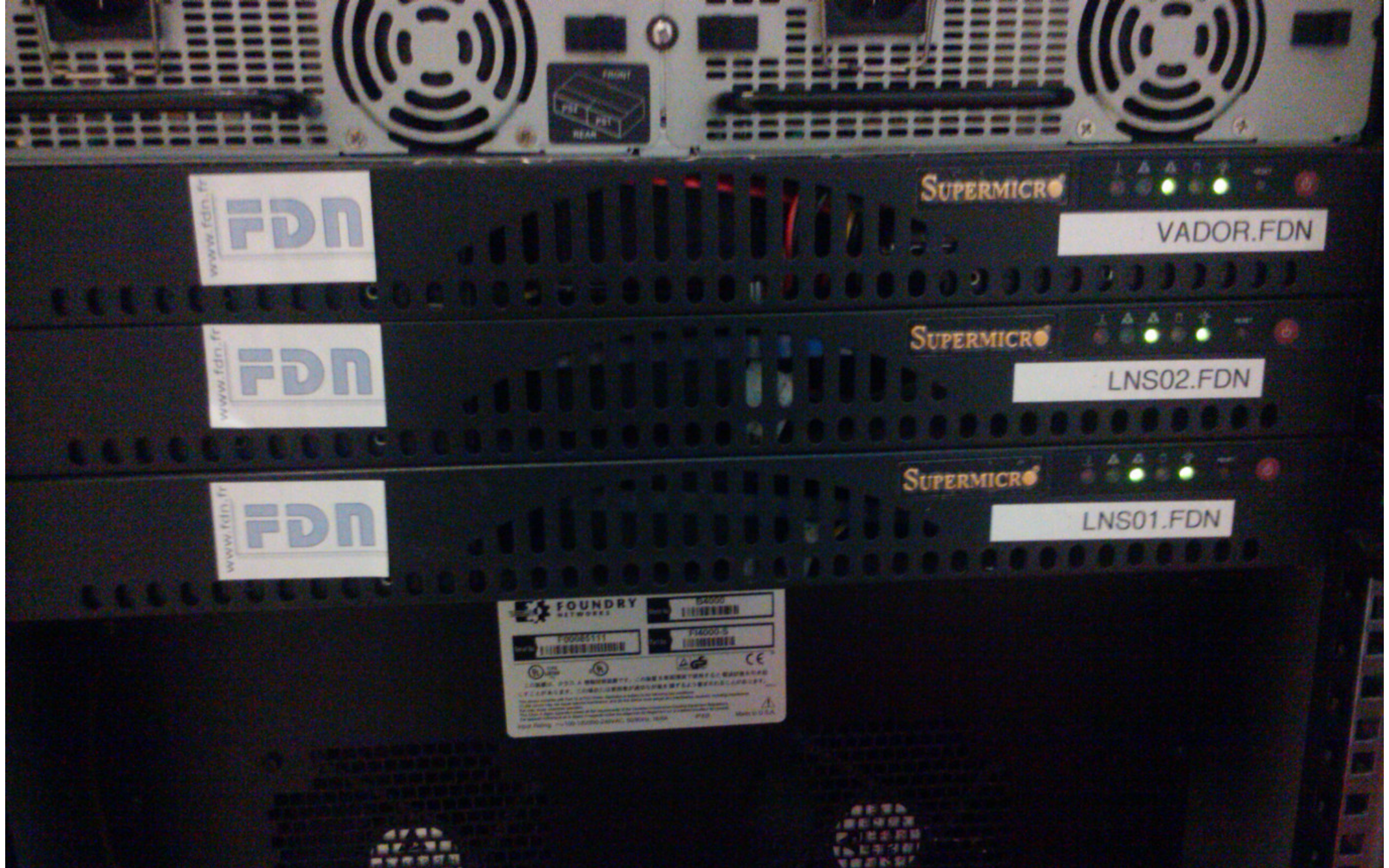
(Almost) nothing has changed

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

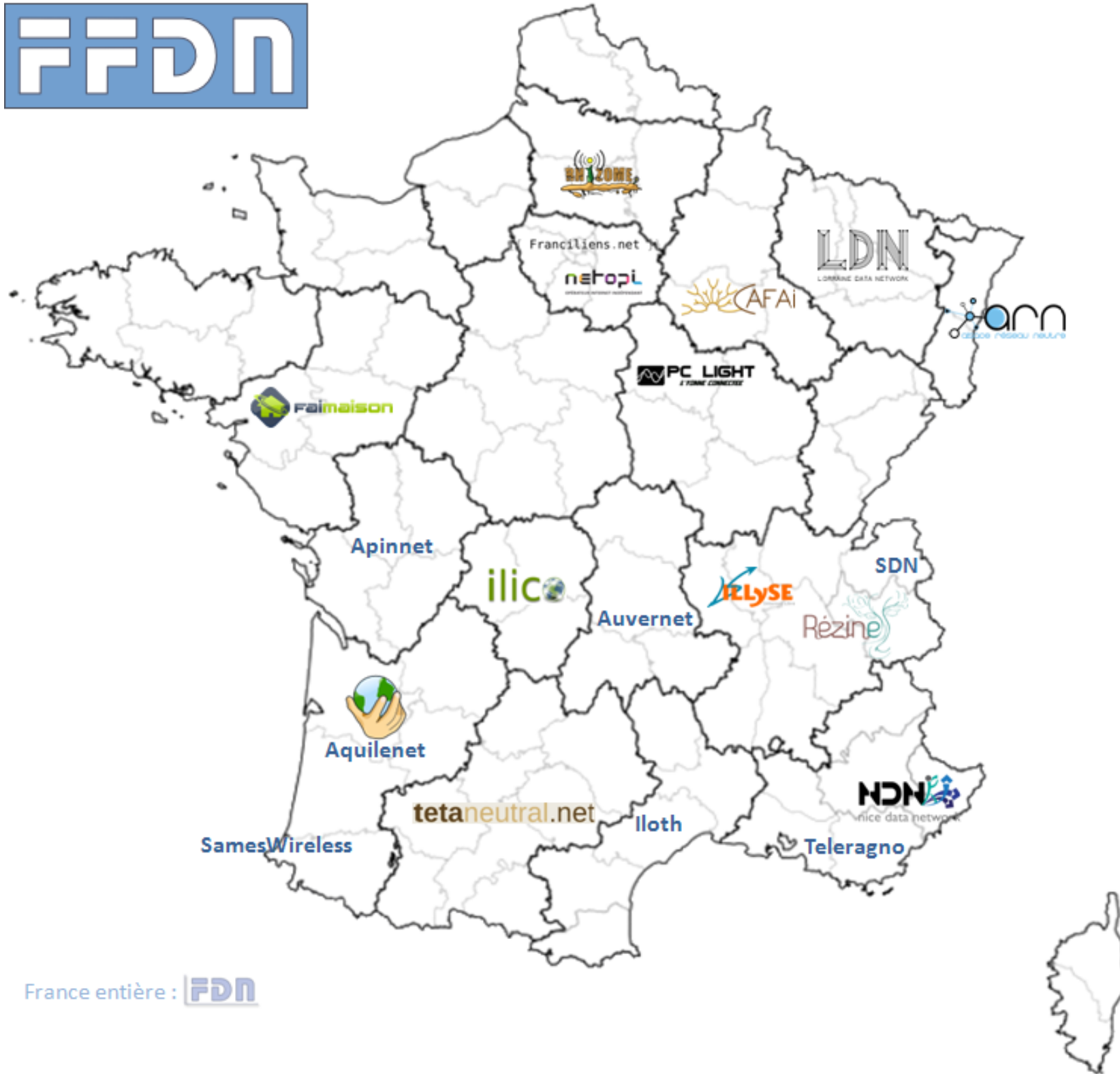
# FFDN

2011: 7 non-profit ISPs, ~450 members

Now: 23 non-profit ISPs, ~1600 members

All over France

[spoiler] soon crossing the borders [/spoiler]



# 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



Russell Hobbs

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

~~Technical stuff~~

# 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

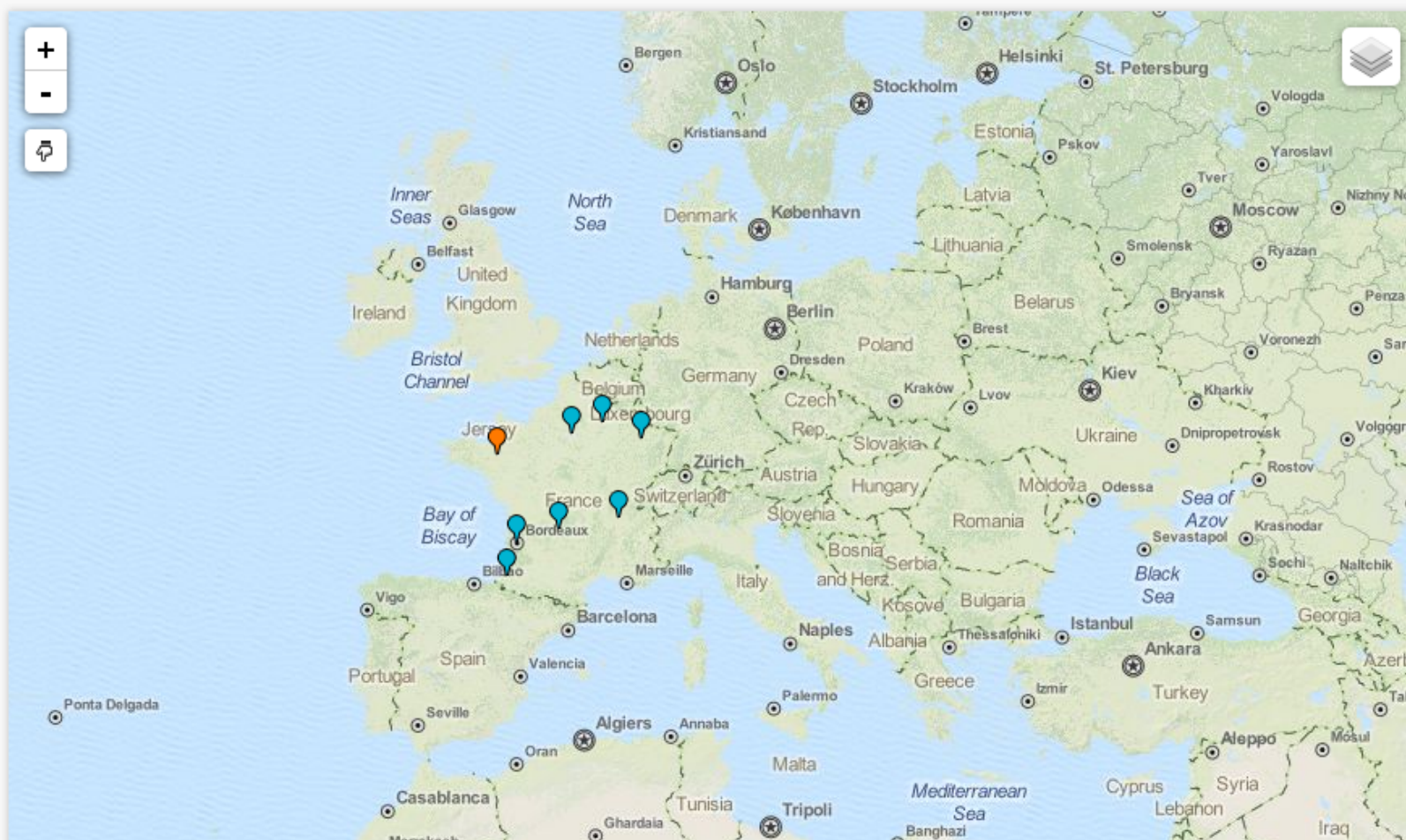
**Communication and federation is the key**

# 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 unite 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](http://ffdn.org/diy)

hackerspaces.org for  
non-profit/lolcat/cypherpunk/friendly ISPs?

# Y U NO TRY?

[ffdn.org/en](http://ffdn.org/en)

[contact@ffdn.org](mailto:contact@ffdn.org)

@taziden

Interested? Come to Hall13 @ 1PM