

WIBED: a Platform for Commodity Wireless Testbeds

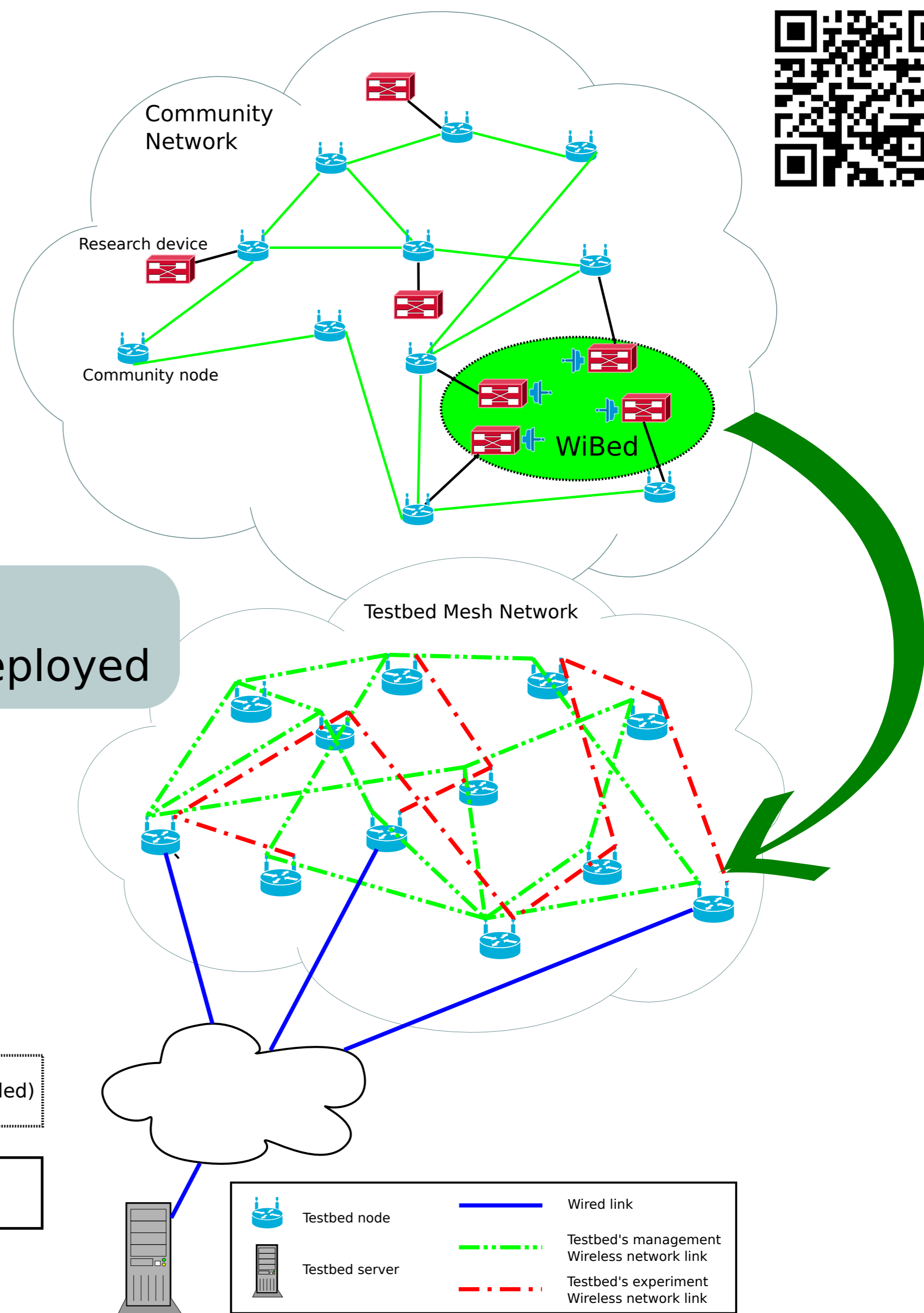
wibed <http://wiki.confine-project.eu/wibed:start>

Based on OpenWRT Linux, **OpenWrt** Wireless Freedom the "de facto" OS for network communities

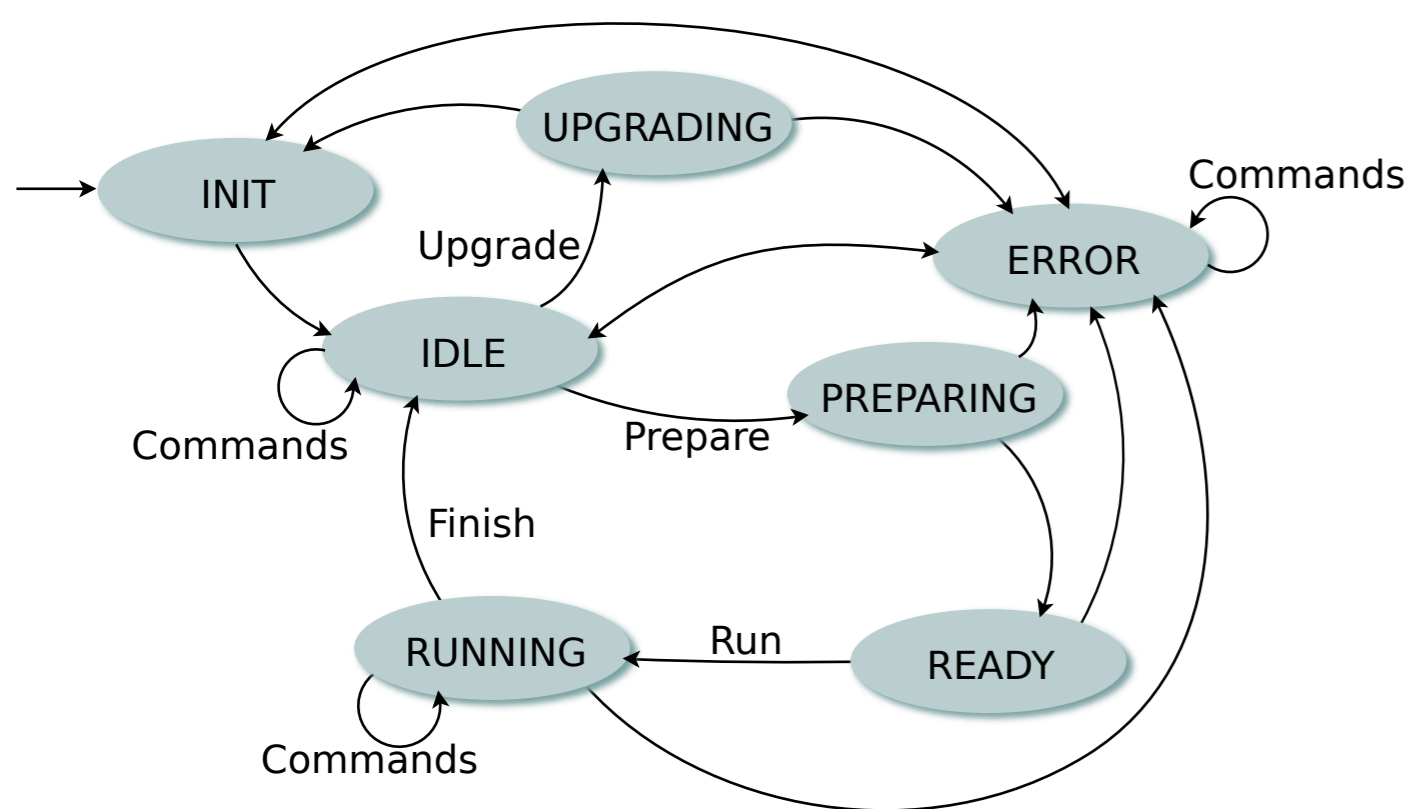
A central controller to deploy the experiments monitor and collect the results

Made to run in very inexpensive devices. A WiBed testbed can be quickly and easily deployed

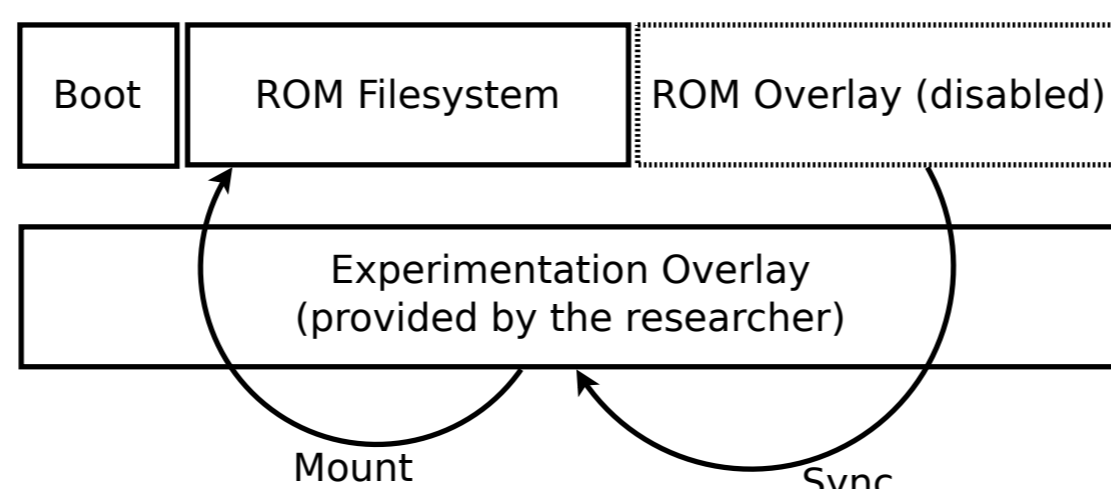
Proof-of-concept testbed already deployed. Started deployment of 50 nodes at UPC



Finite state machine



Overlay Filesystem

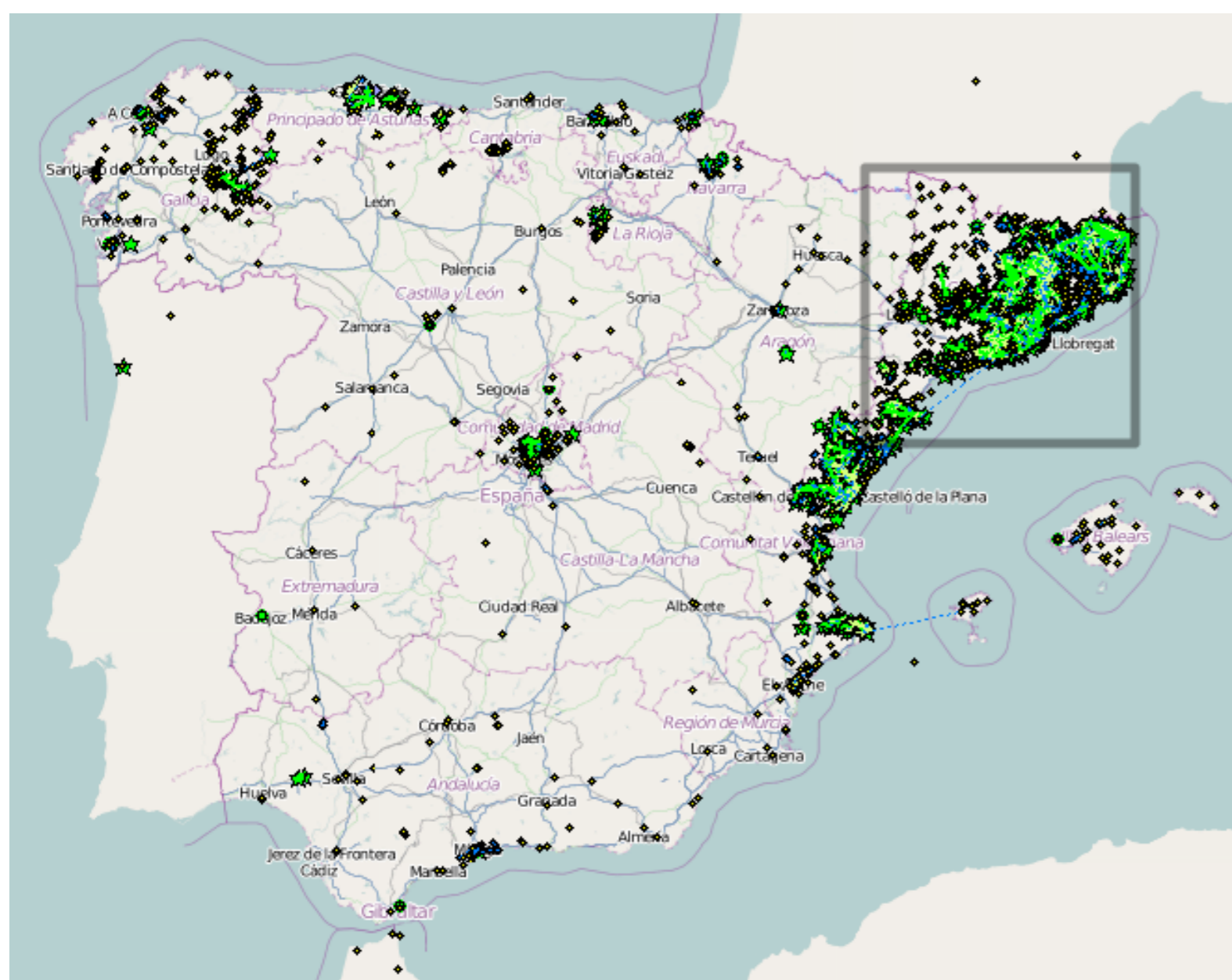


Community networks?

Think about the Internet, but truly yours (p2p)

- Guifi.net** Large scale, self-organized and decentralized networks and services built and operated by citizens for citizens
- Funkfeuer.at** networks and services built and operated by citizens for citizens
- AWMN.gr** by citizens for citizens

Participant communities: 25000+ nodes, 40000Km+ links



Community Networks Testbed for the Future Internet (CONFINE) <http://confine-project.eu>

A large-scale integrating project (IP) that is designing, building and operating Community-lab.net 2011-2015

An open, distributed infrastructure for experimentation with Community Networks

A testbed with nodes and links embedded in community networks
 A realistic environment for experimentation with the best and worst of real community networks
 Aim: advance research and empower society by understanding & removing obstacles for these decentralized networks & services