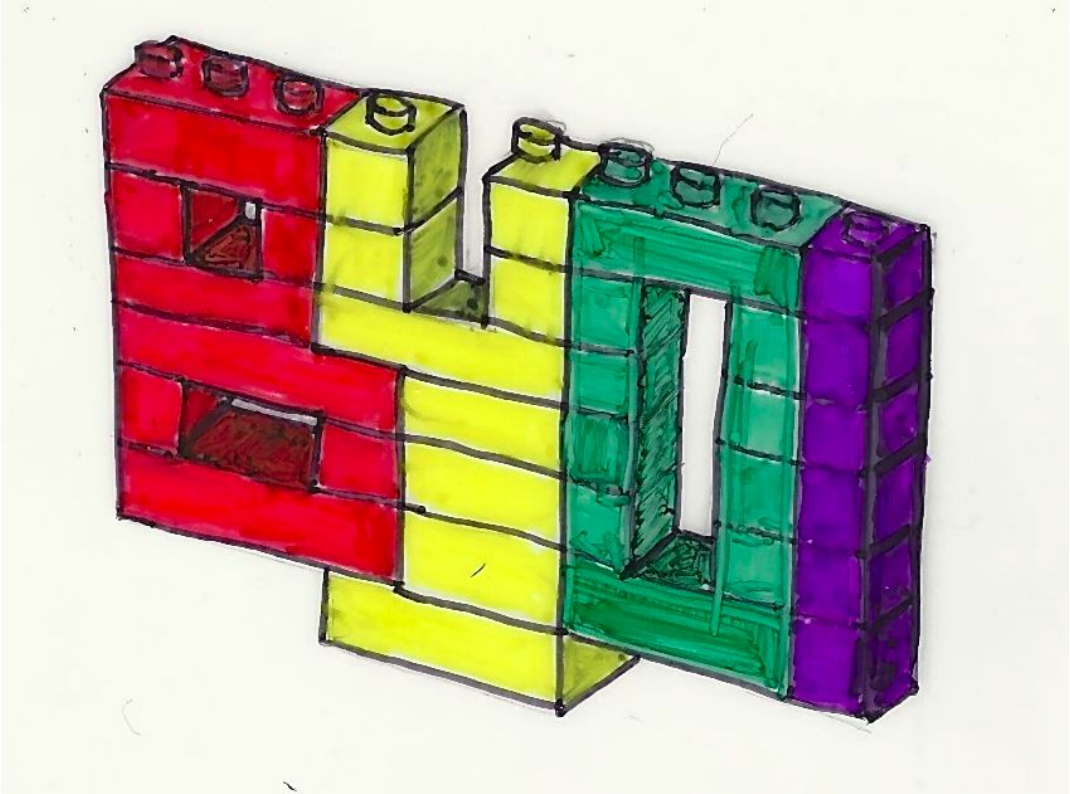
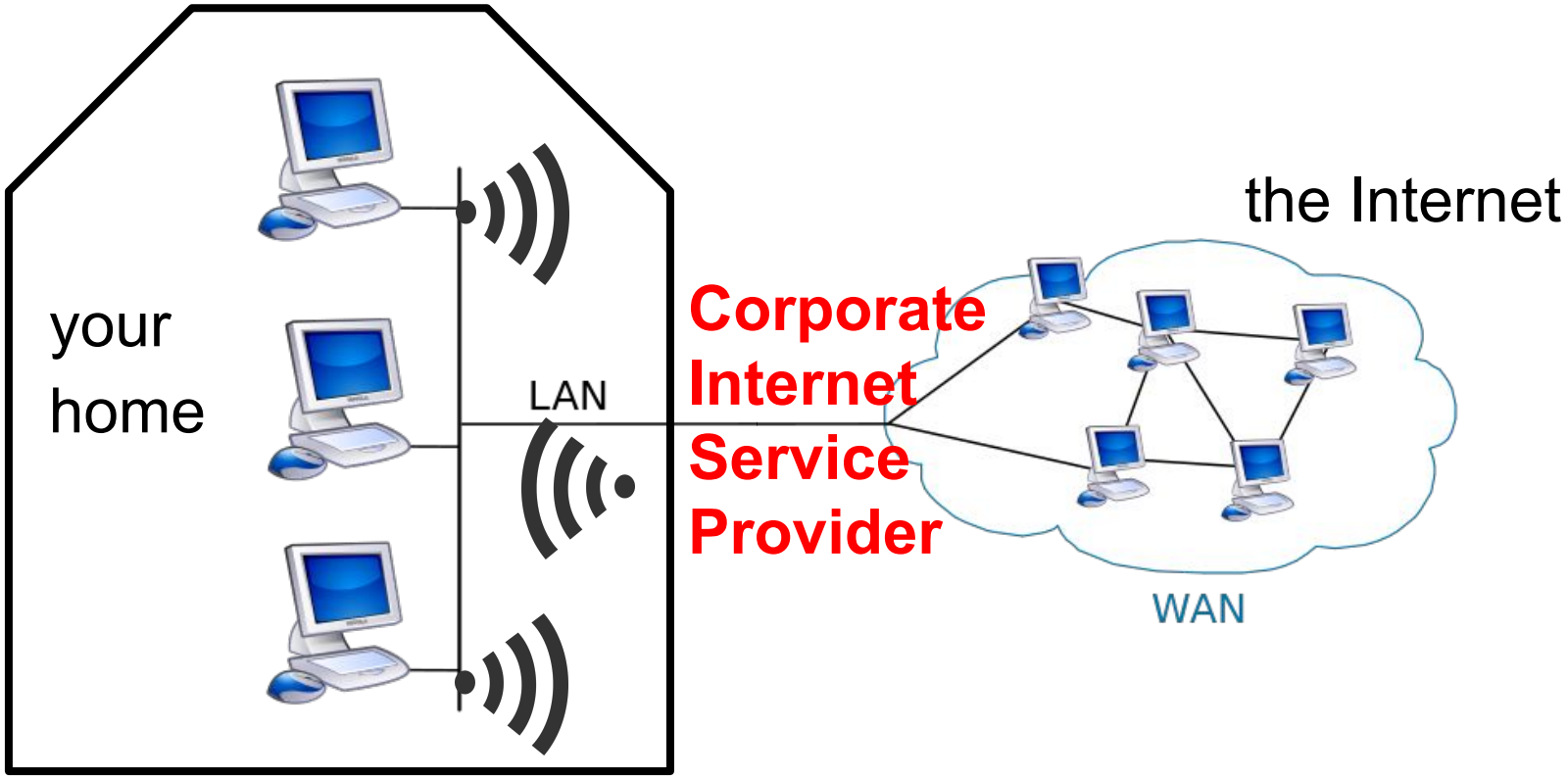


Build Your Own Internet Workshop

July 1st, 2017

Current Network Infrastructure



```
Sat Apr 29 2017 08:02:55 GMT+0300 (
https://en.wikipedia.org 5005 DOWN
https://tr.wikipedia.org 5009 DOWN
https://az.wikipedia.org 5009 DOWN
https://fr.wikipedia.org 5007 DOWN
https://www.wikipedia.org 5007 DOWN
```

How to get involved!

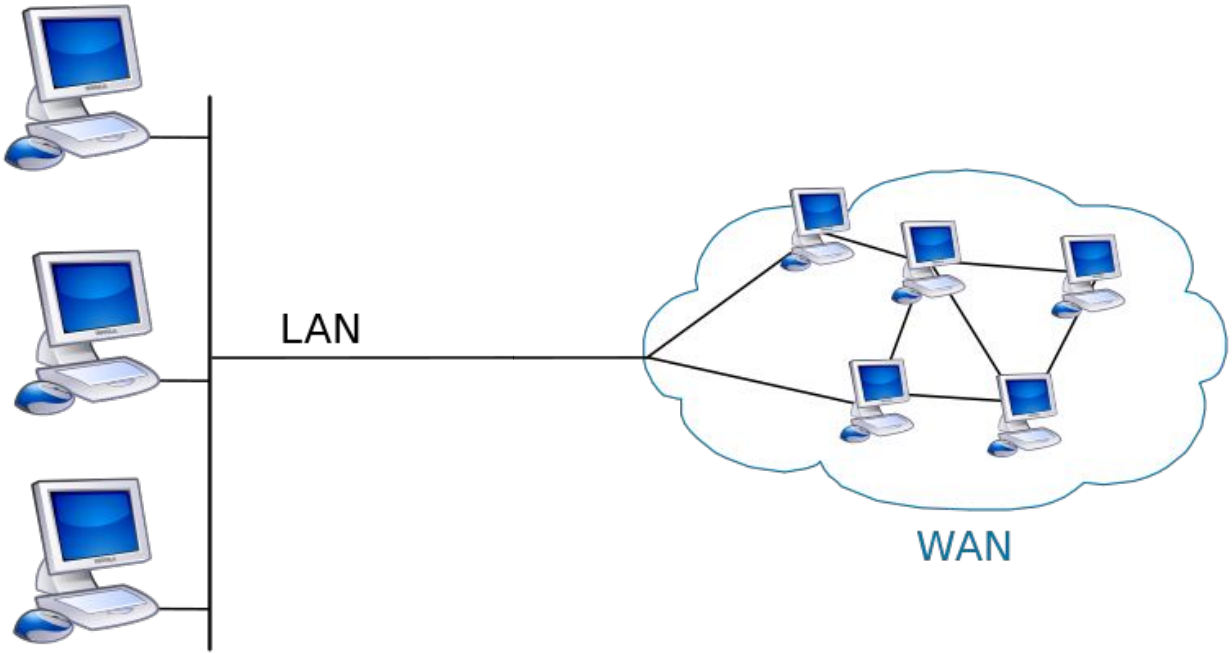
Volunteer to host a node on https://peoplesopen.net/

Hack on some code with https://github.com/sudomesh

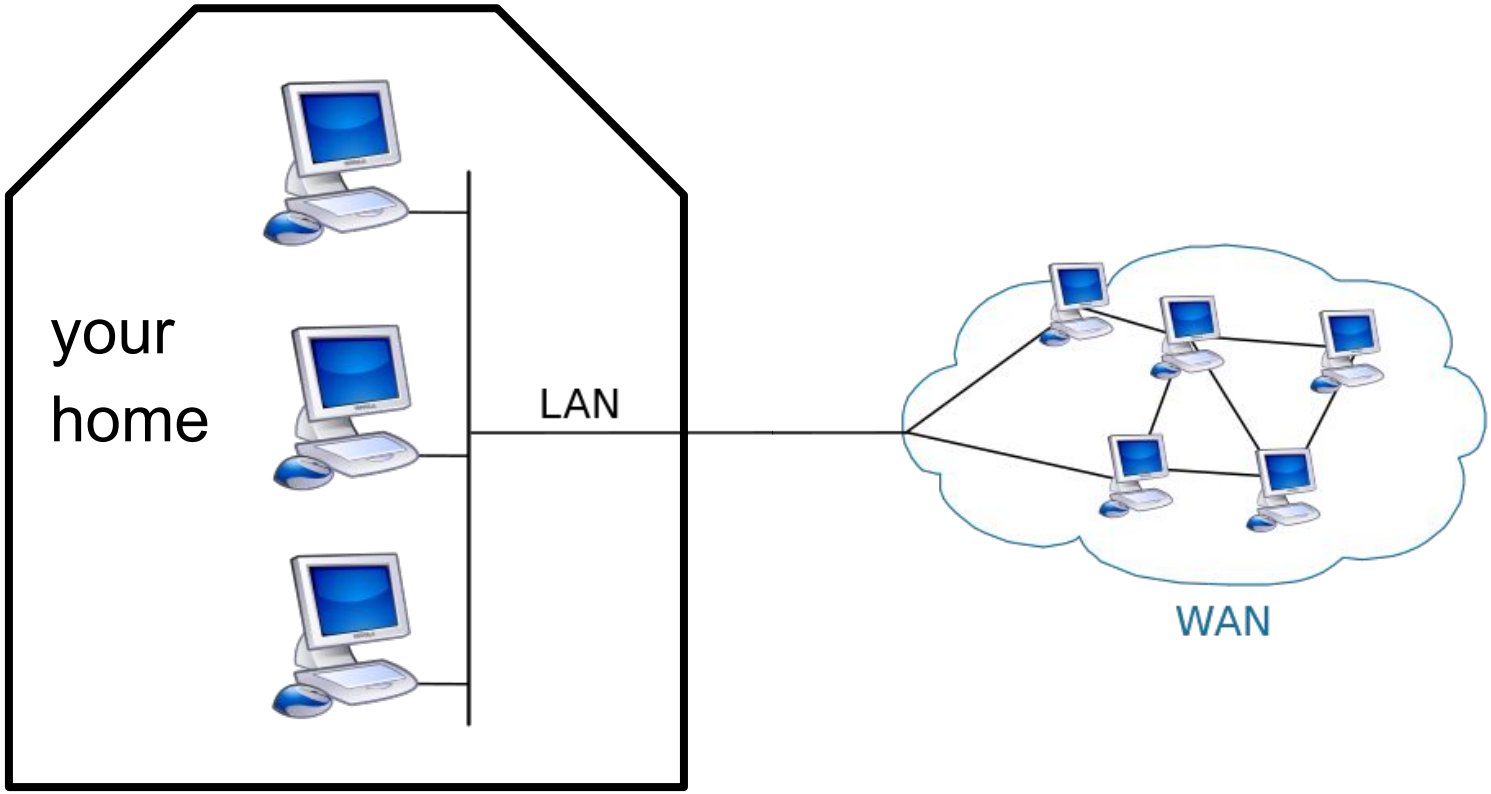
Visit our weekly meeting, Tuesday 7:30pm

Omni Commons

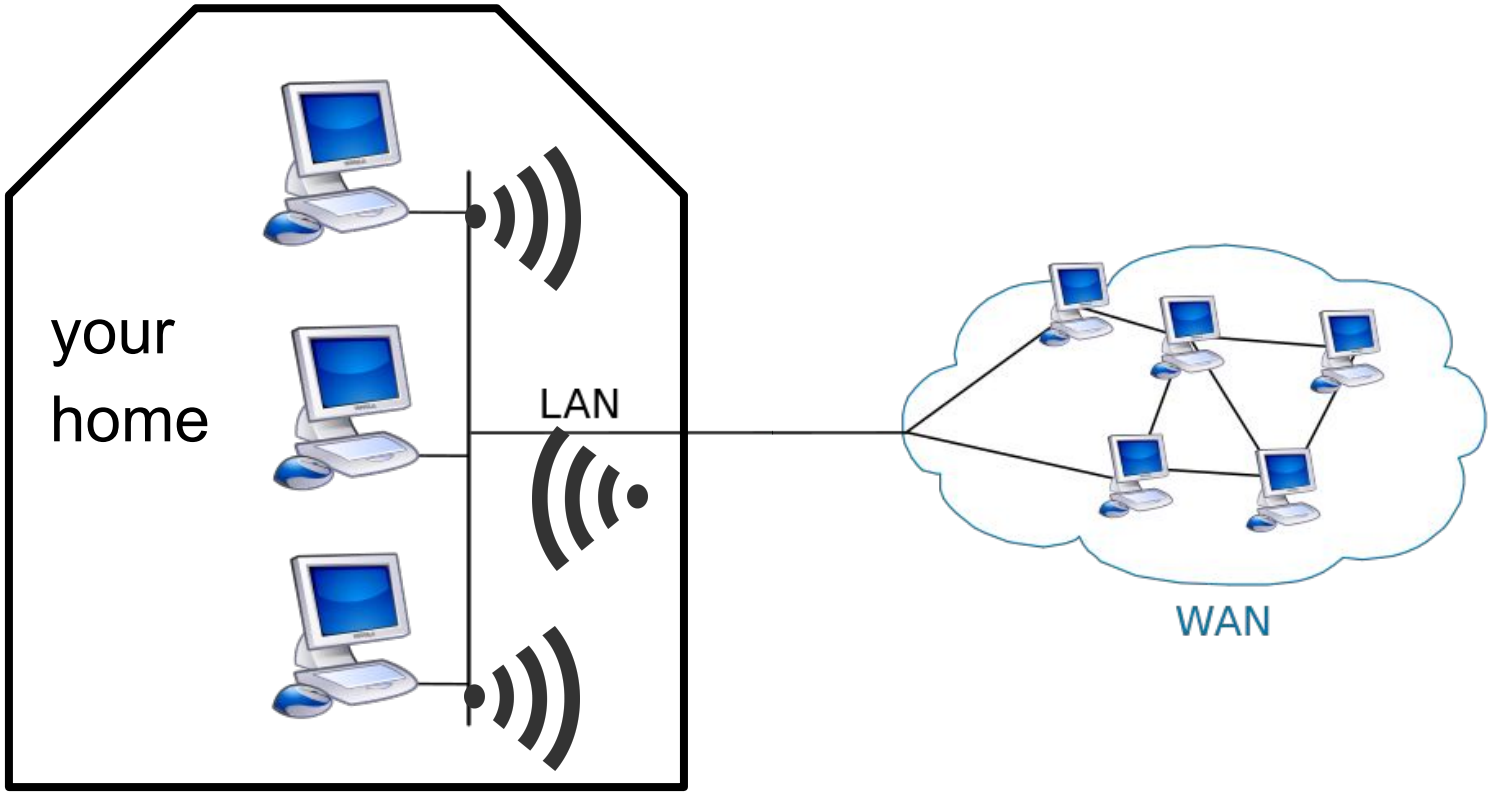
Current Network Infrastructure



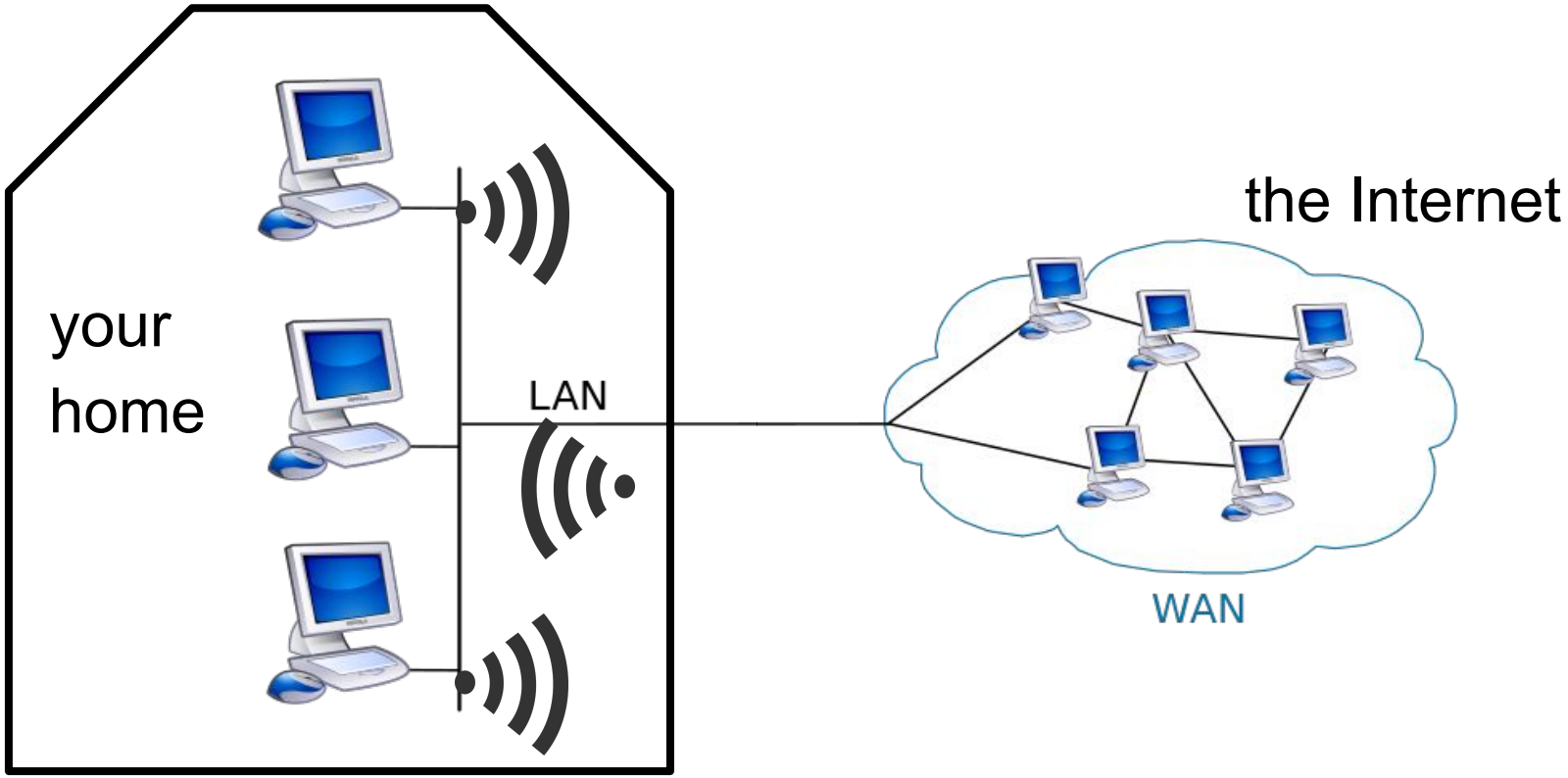
Current Network Infrastructure



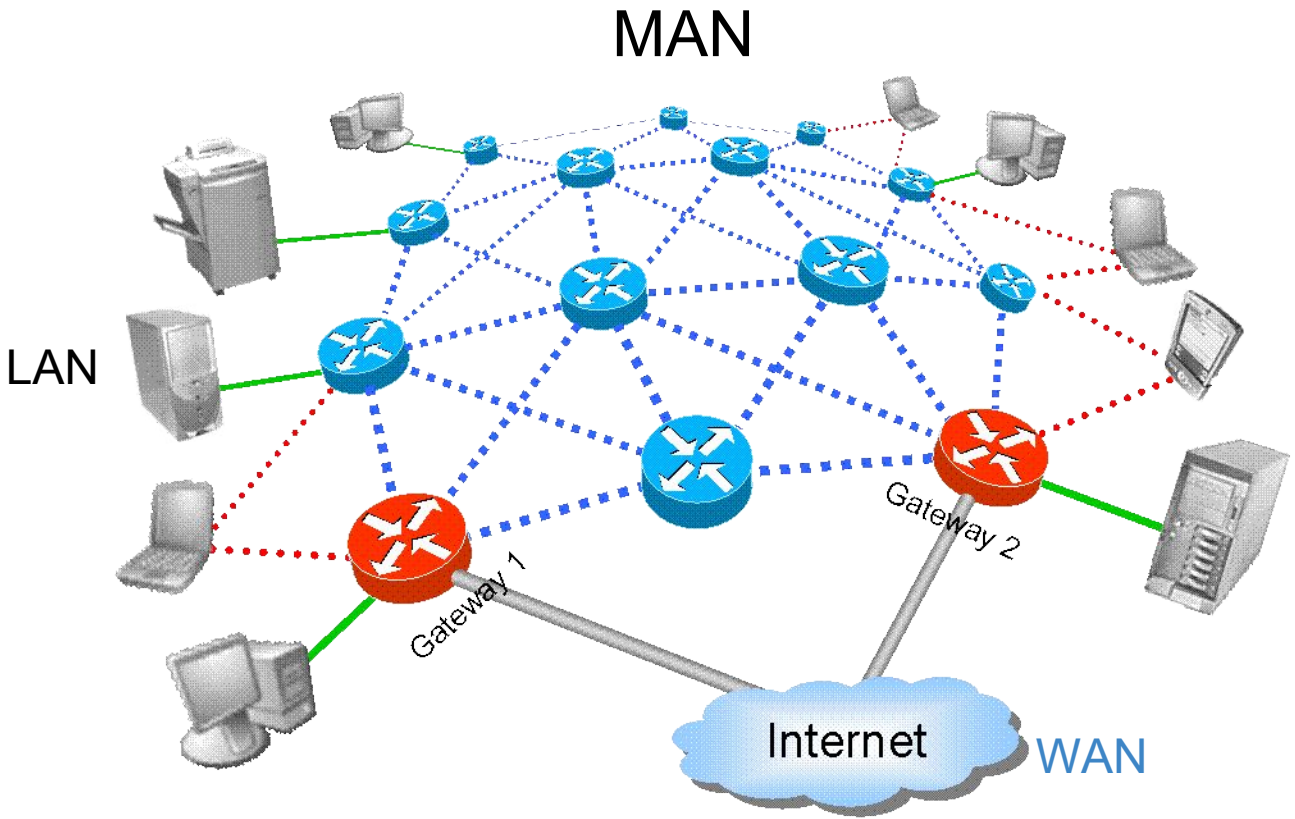
Current Network Infrastructure



Current Network Infrastructure

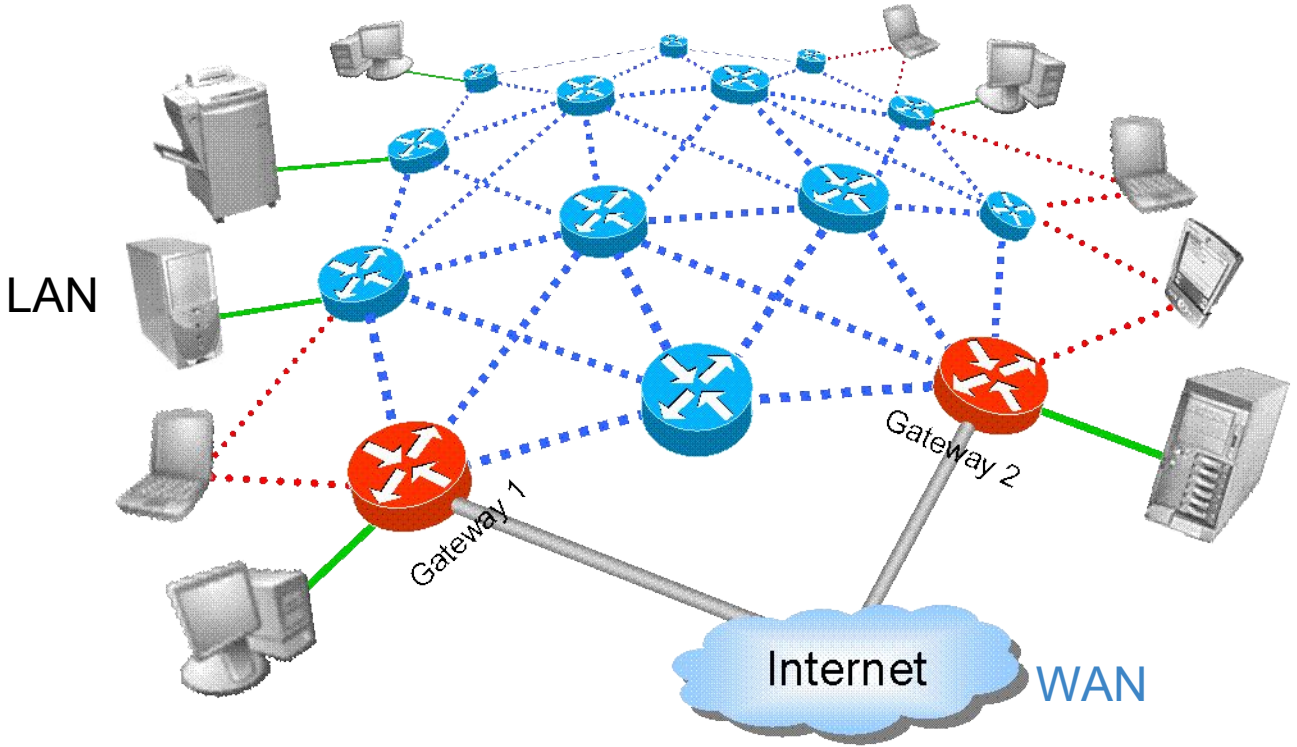


Future Network Infrastructure



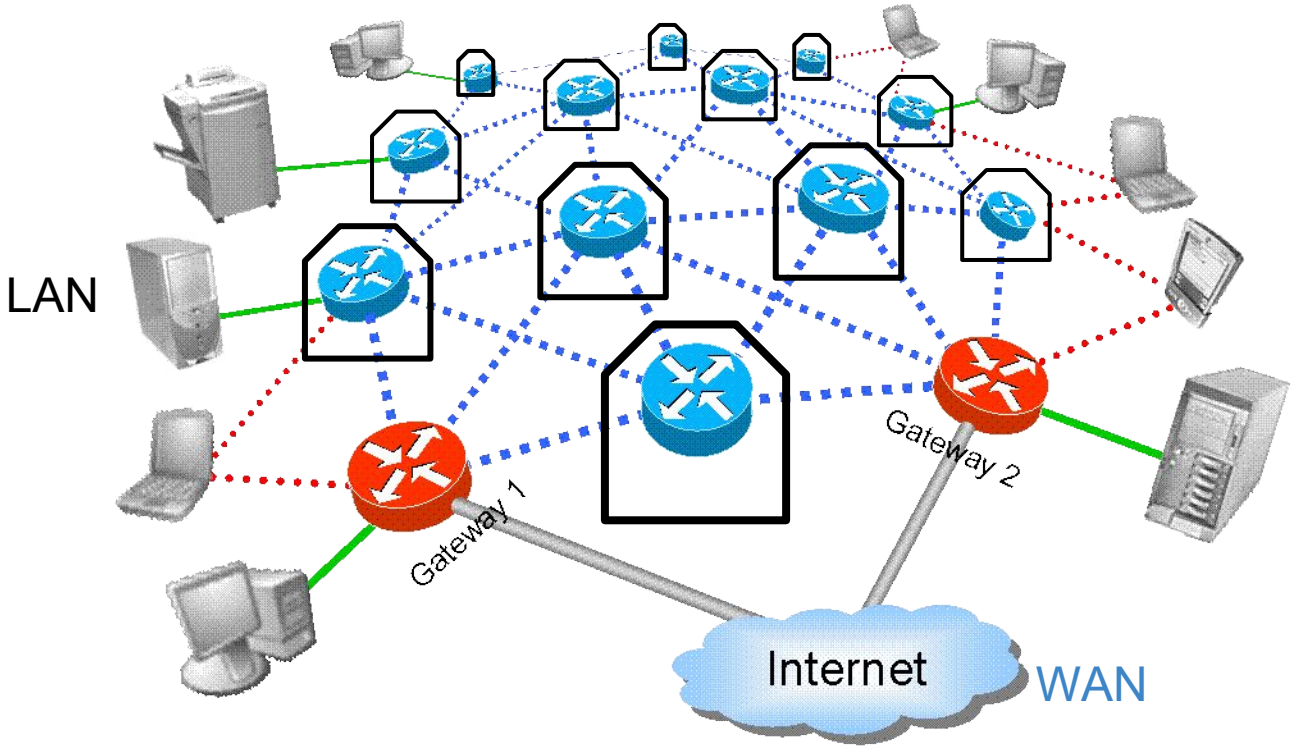
Future Network Infrastructure

the MAN (mesh area network)

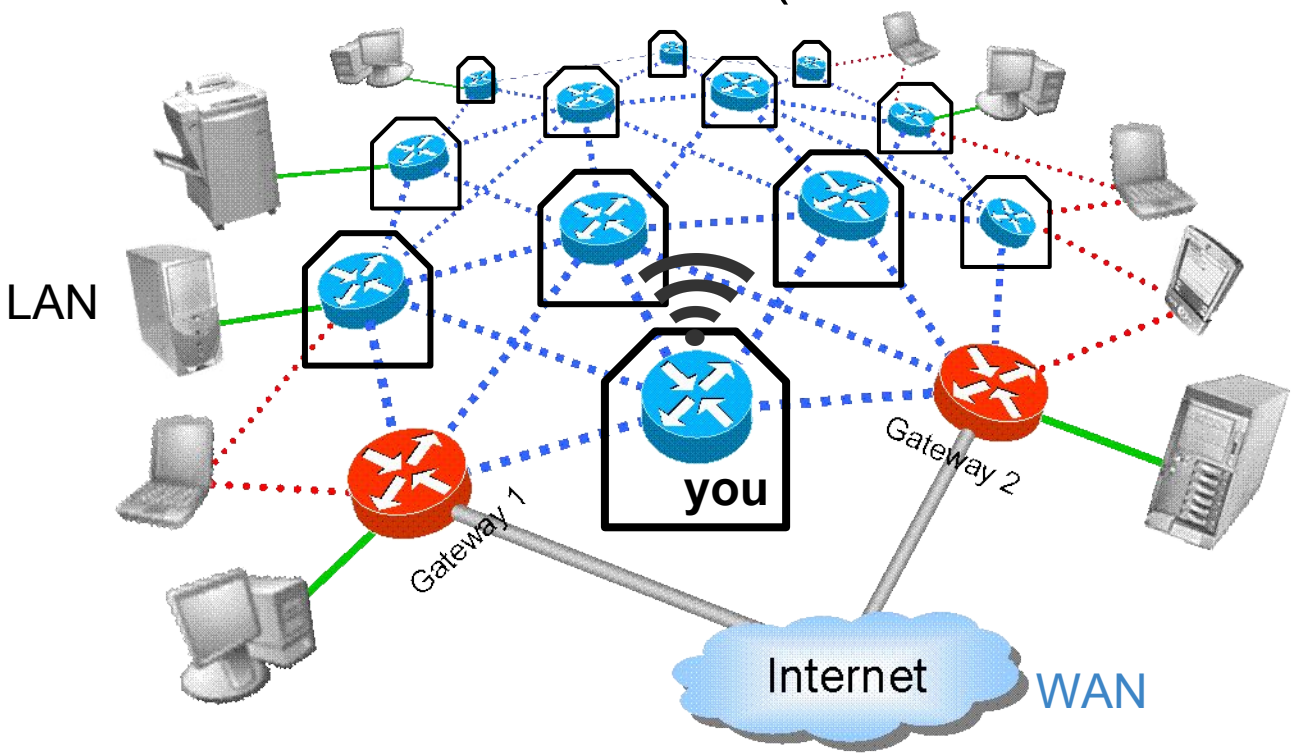


Future Network Infrastructure

the MAN (mesh area network)

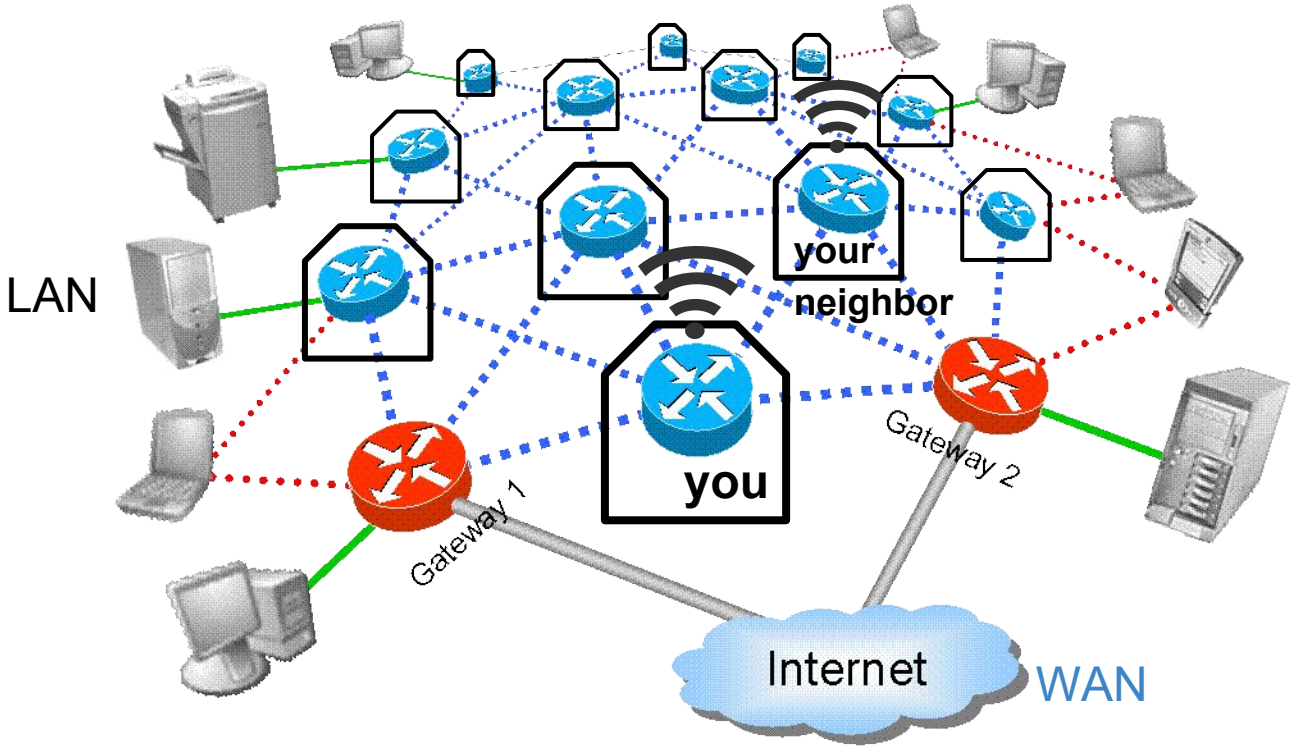


Future Network Infrastructure



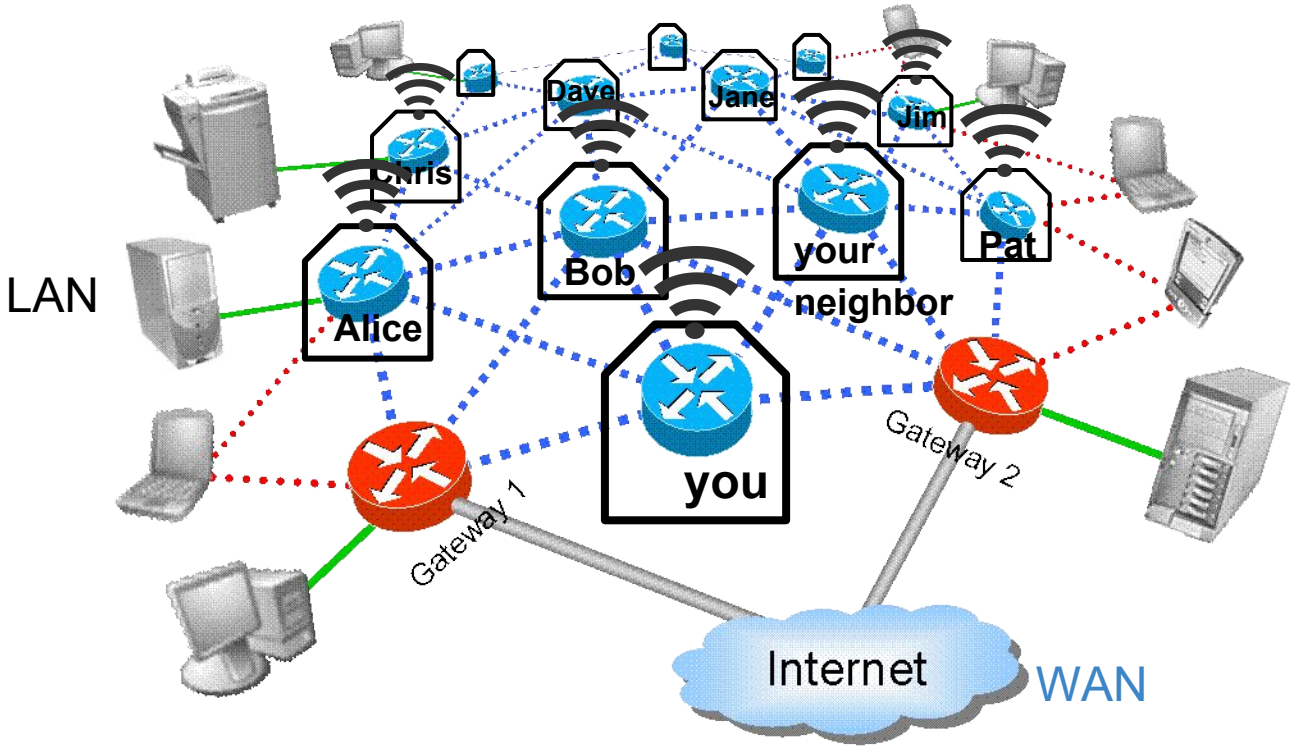
Future Network Infrastructure

the MAN (mesh area network)

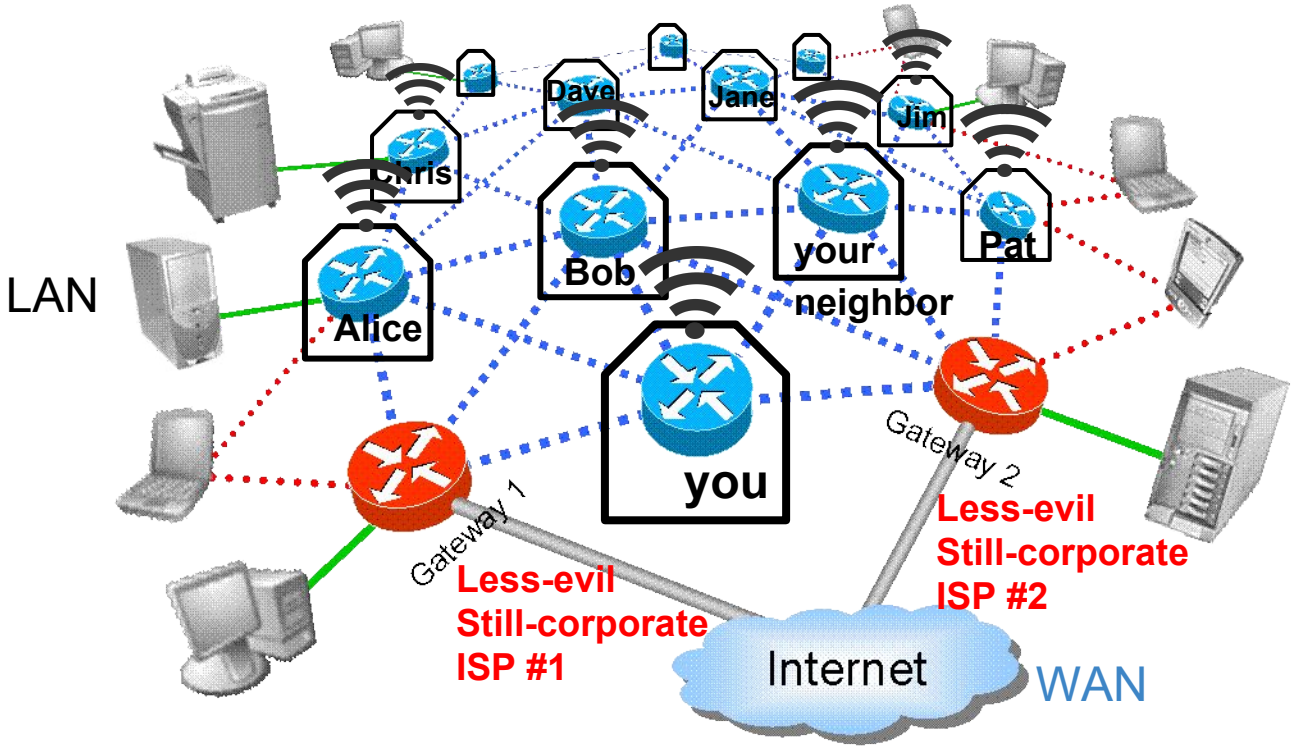


Future Network Infrastructure

the MAN (mesh area network)



Future Network Infrastructure



What does this do?

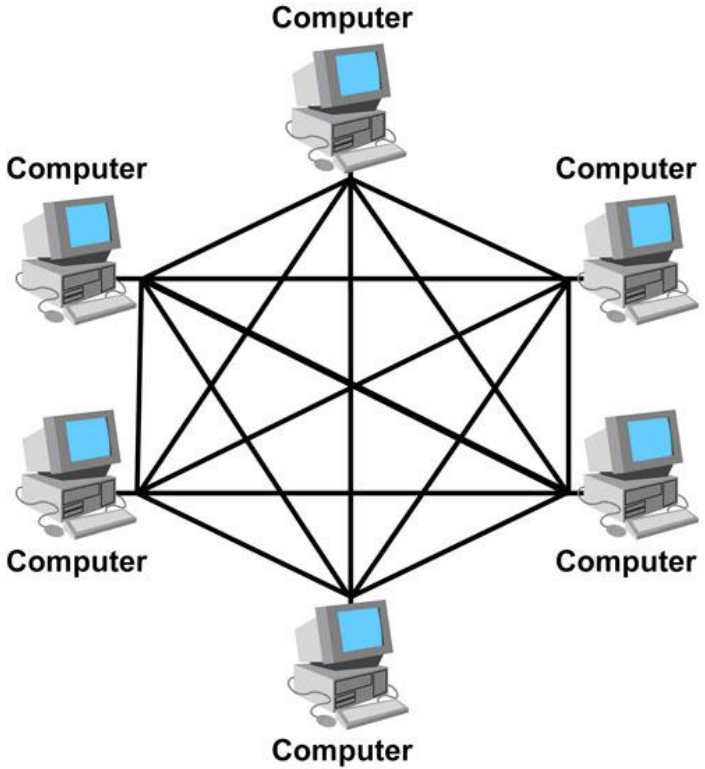
More resilient network

More control by users

Open access to information

Free as in freedom

(not sure about this slide either?)



Why does this matter?

Revive, empower the local communities

Educational opportunity

Prevent corporations from extracting value from communities

Demonstrate the existence of an alternative

What does the PeoplesOpen Network do?

Current reality:

- most nodes “meshing” over VPuN (Virtual Public Network)
- one gateway to the internet

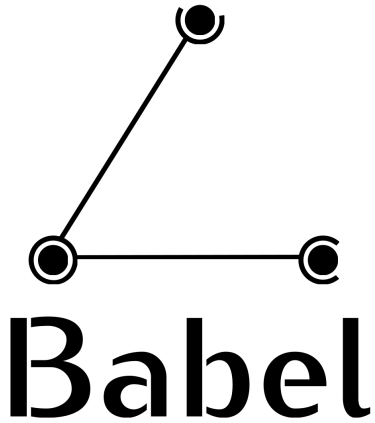
Future goals:

- most nodes meshing over wireless
- multiple gateways to the internet

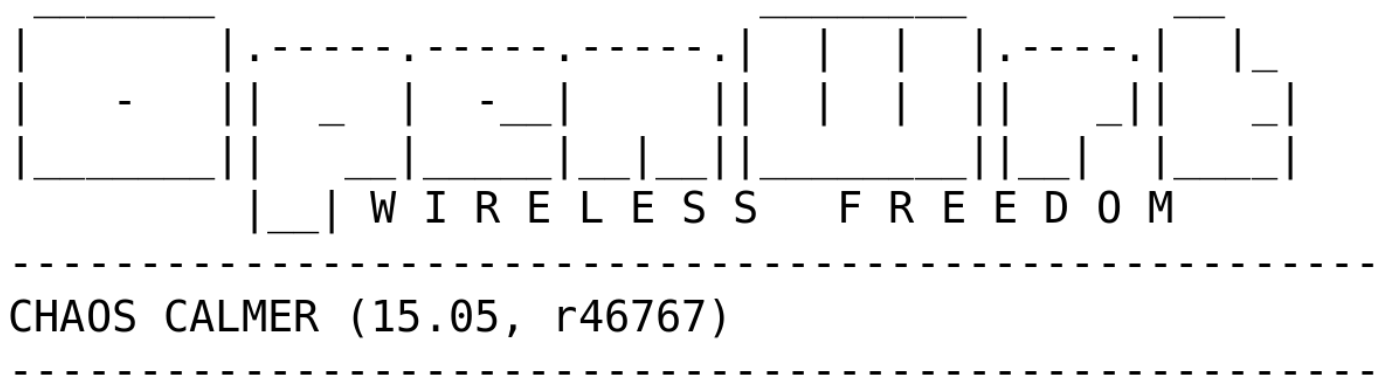
How do we do this?

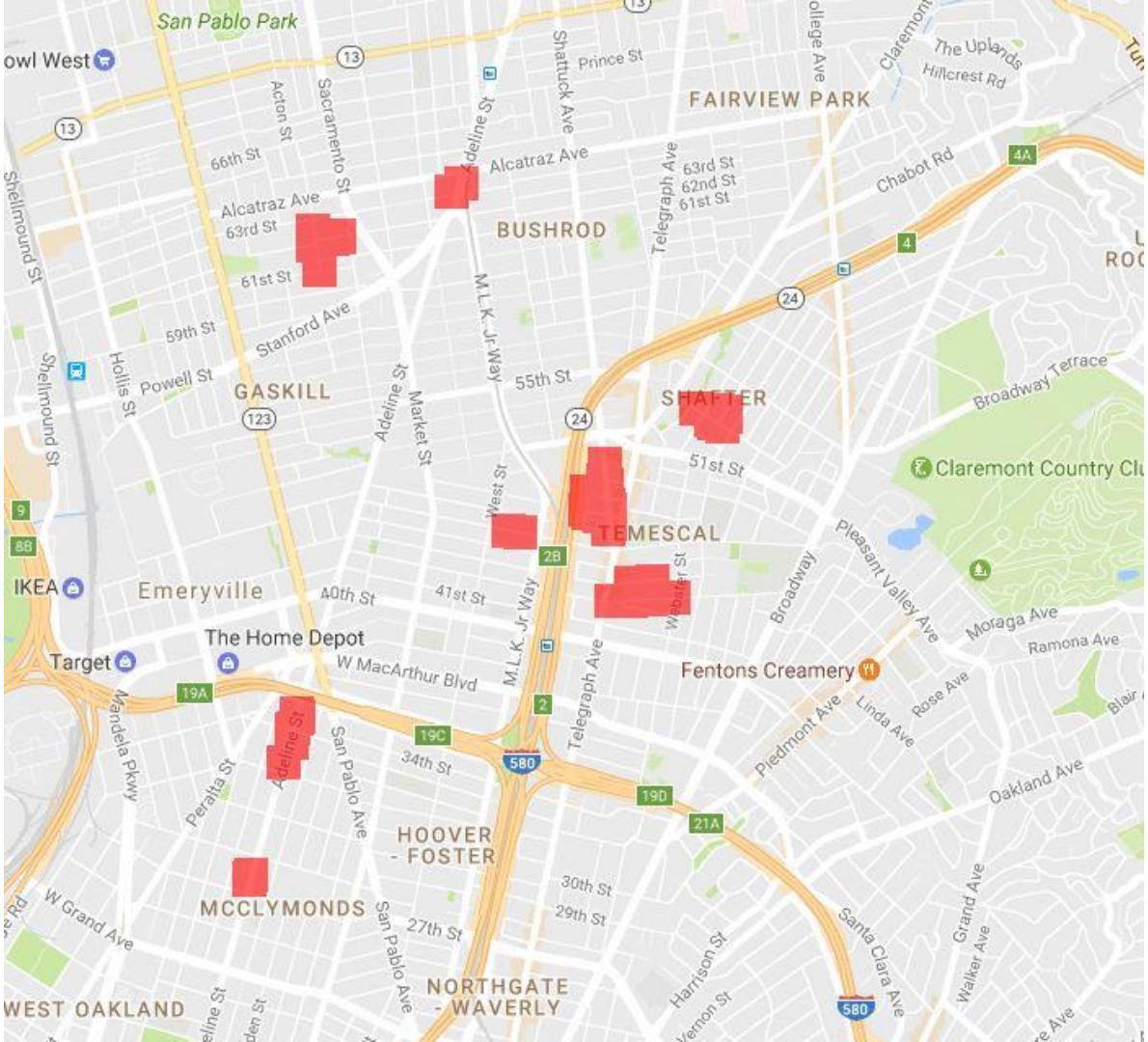
Open source software:

- Routing protocol (Babeld)
- Custom firmware (OpenWrt)



Get on people's roofs and mount antennas!





San Pablo Park
owl West
FAIRVIEW PARK
The Uplands
Hillcrest Rd
Prince St
Shattuck Ave
Acton St
Sacramento St
Adeline St
Alcatraz Ave
66th St
63rd St
62nd St
61st St
Telegraph Ave
Chabot Rd
BUSHROD
Shellmound St
Stanford Ave
59th St
Powell St
Hollis St
GASKILL
M.L.K. Jr Way
55th St
SHAFTER
Broadway Terrace
Market St
51st St
Claremont Country Clu
West St
TEMESCAL
Pleasant Valley Ave
Broadway
Webster St
IKEA
Emeryville
40th St
41st St
Moraga Ave
Ramona Ave
The Home Depot
Target
W MacArthur Blvd
Fentons Creamery
Mandela Pkwy
Peralta St
San Pablo Ave
34th St
Piedmont Ave
Linda Ave
Rose Ave
Oakland Ave
HOOVER - FOSTER
30th St
29th St
MCCLYMONDS
W Grand Ave
27th St
Santa Clara Ave
Grand Ave
Walker Ave
Harrison St
NORTHGATE - WAVERLY
WEST OAKLAND

Ongoing projects

Mesh services needed!

Static webpage backups? Local commodity exchange? weather reporting?

Firmware improvements

Pushing patches/updates to nodes, automated setup of new nodes

Community outreach

Temescal, West Oakland, businesses and residents