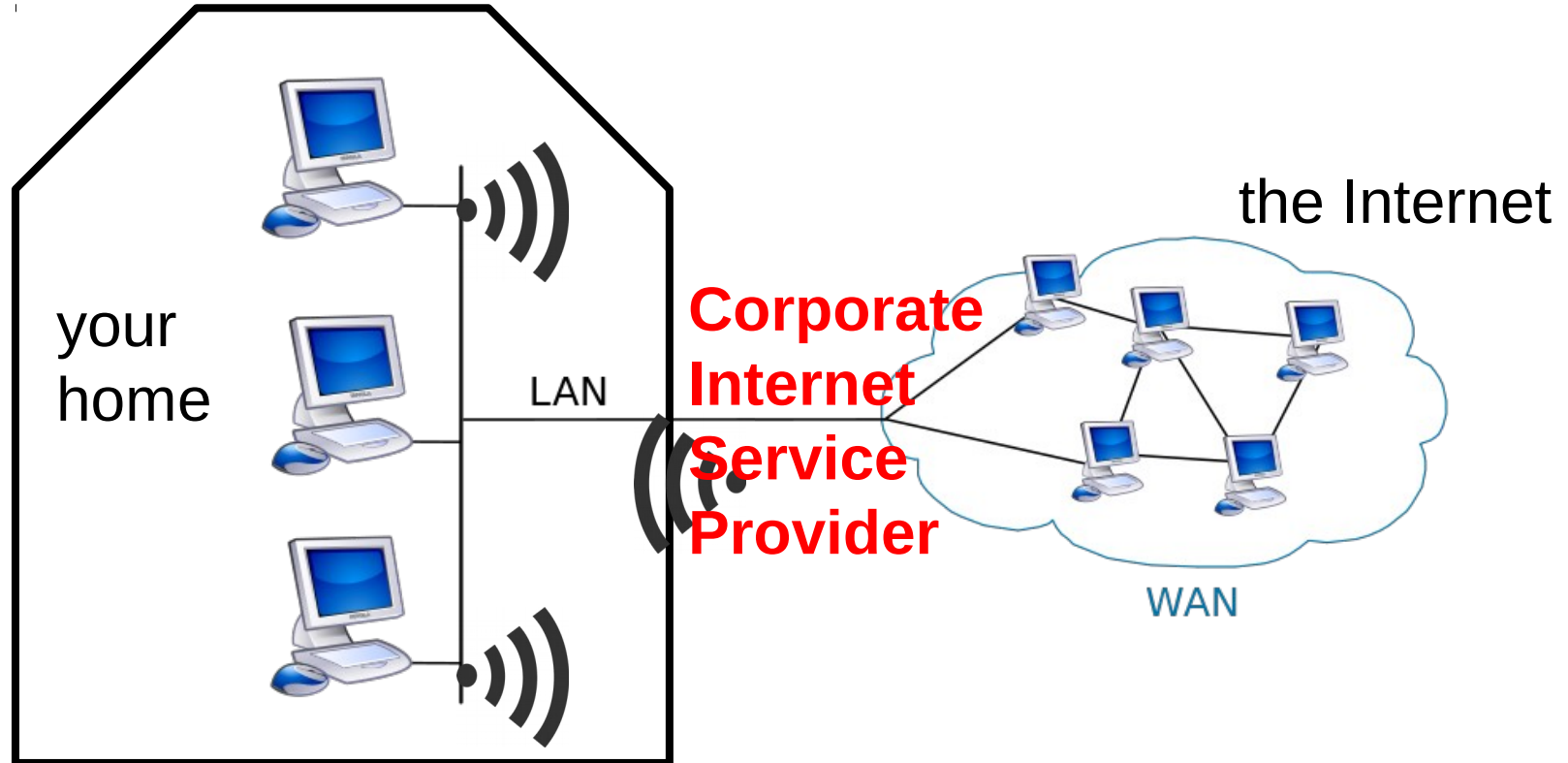


BYOI by Bullitt D. Bourbon licensed under [CC BY-NC-SA 2.0](#)

Build Your Own Internet Workshop

July 1st, 2017

Current Network Infrastructure



Sat Apr 29 2017 08:02:55 GMT+0300 (C
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



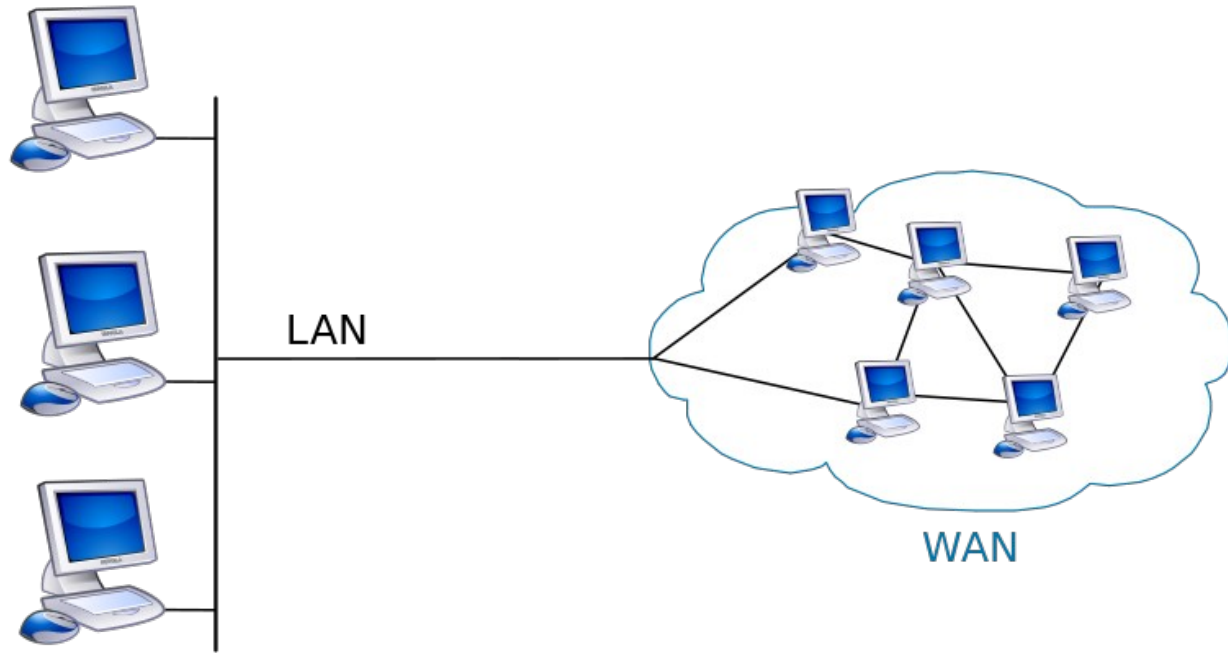
Omni Commons



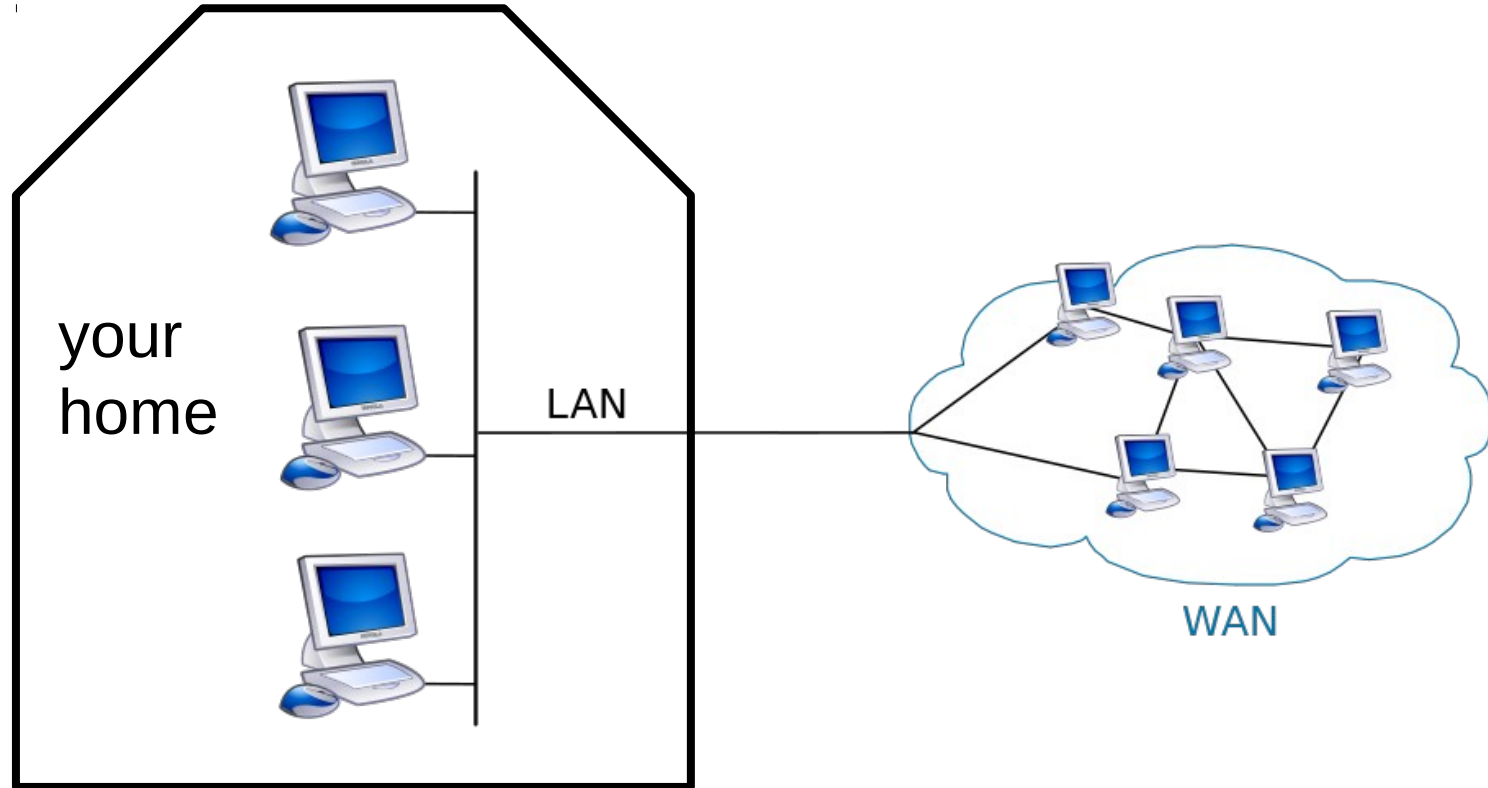
sudomesh



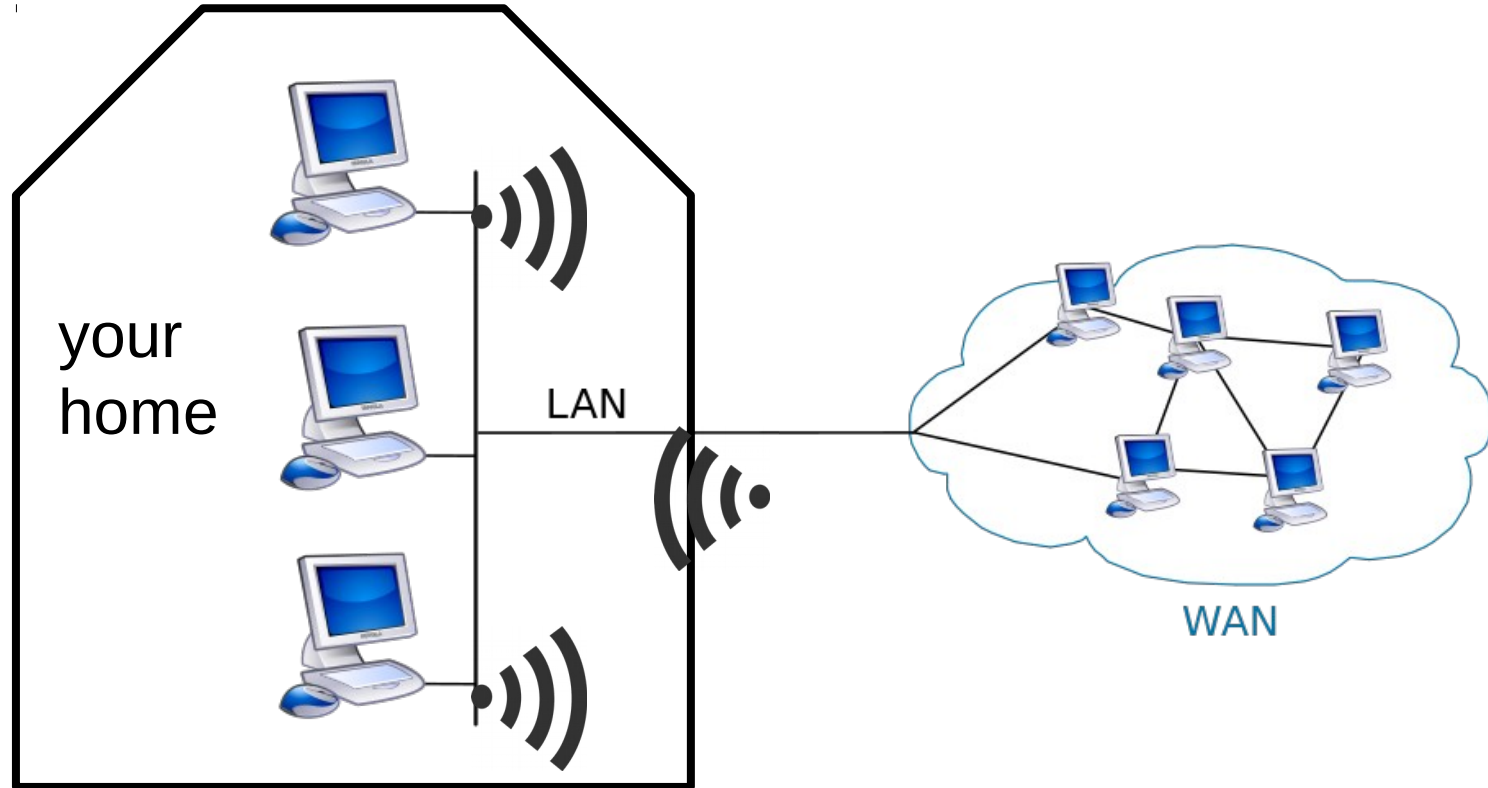
Current Network Infrastructure



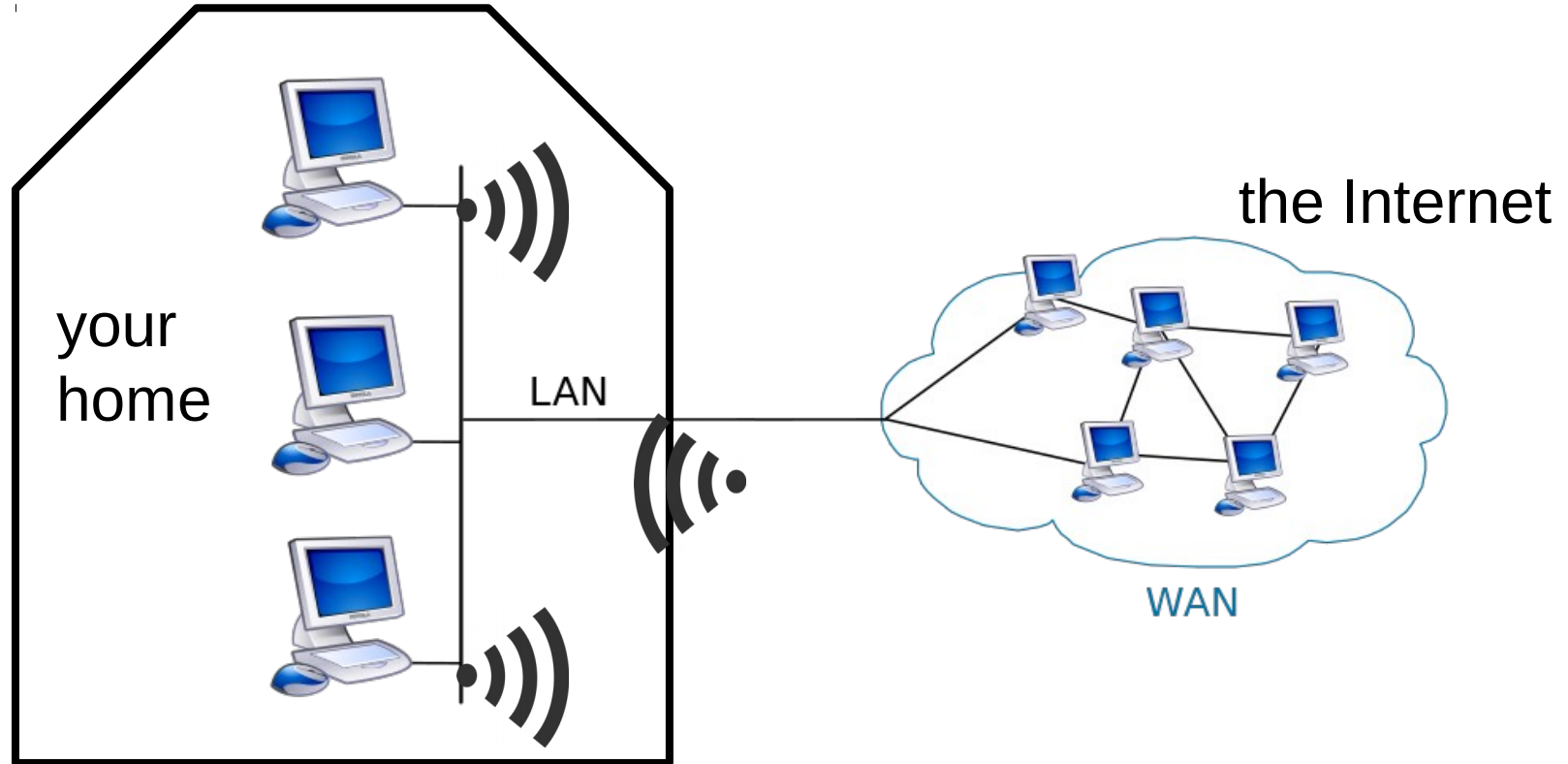
Current Network Infrastructure



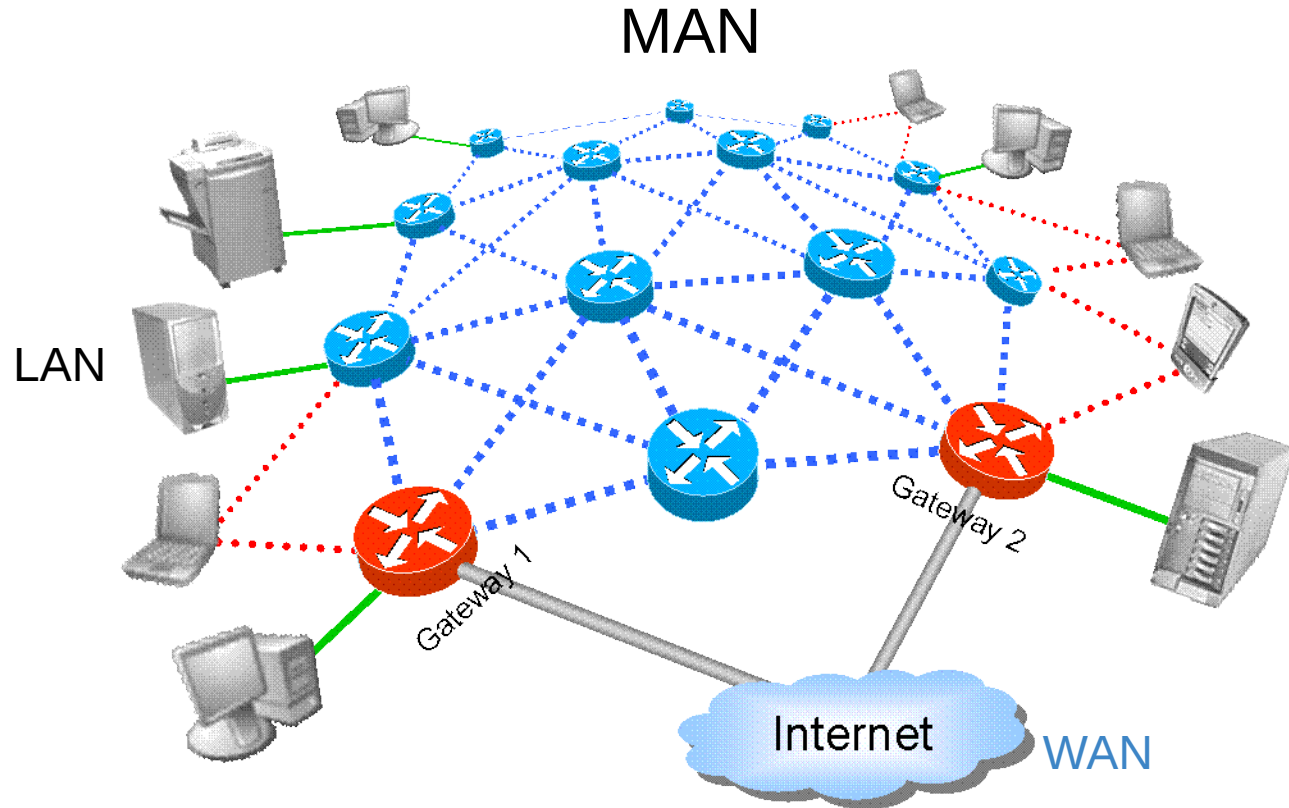
Current Network Infrastructure



Current Network Infrastructure

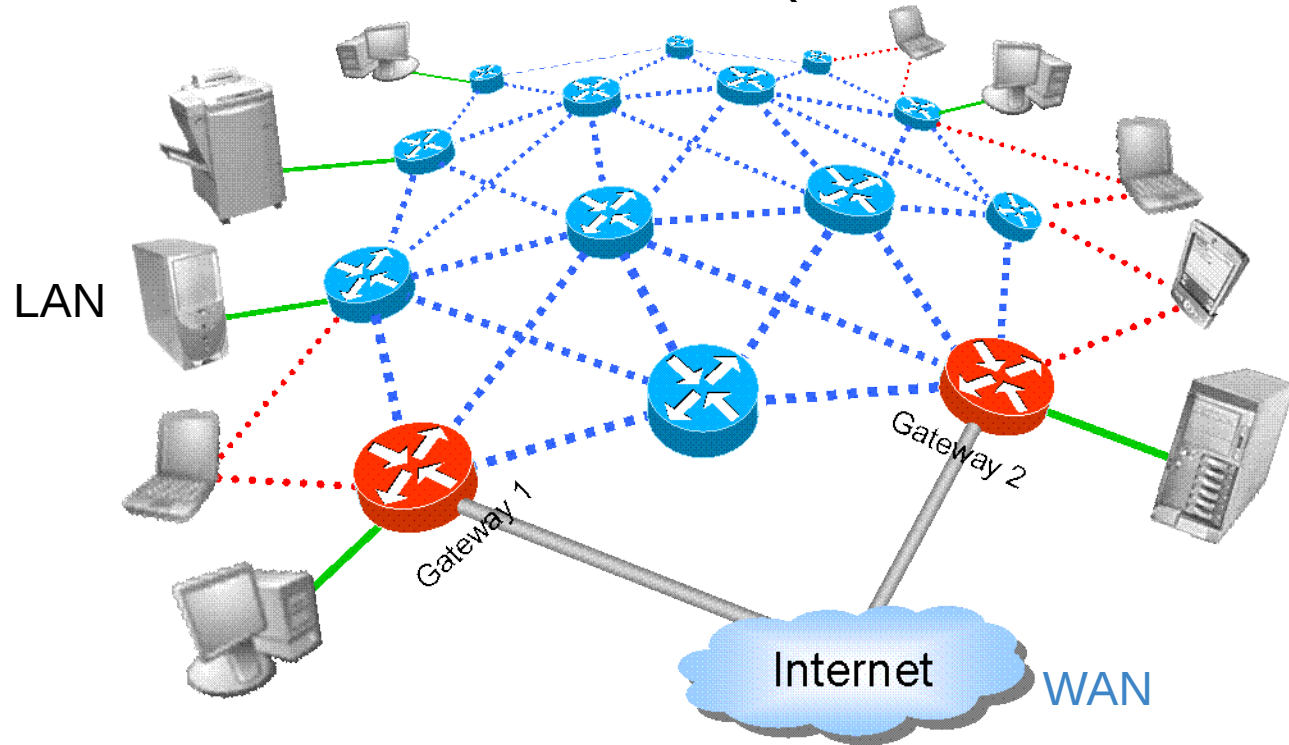


Future Network Infrastructure



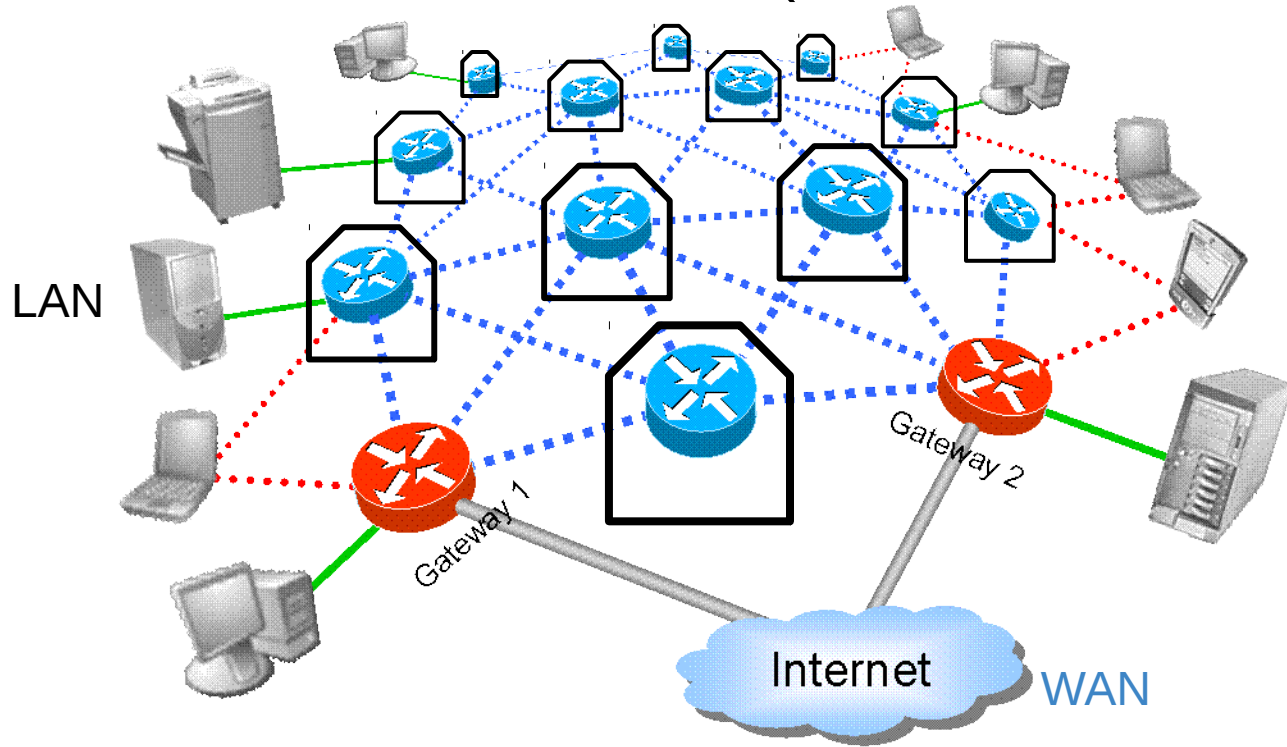
Future Network Infrastructure

the MAN (mesh area network)



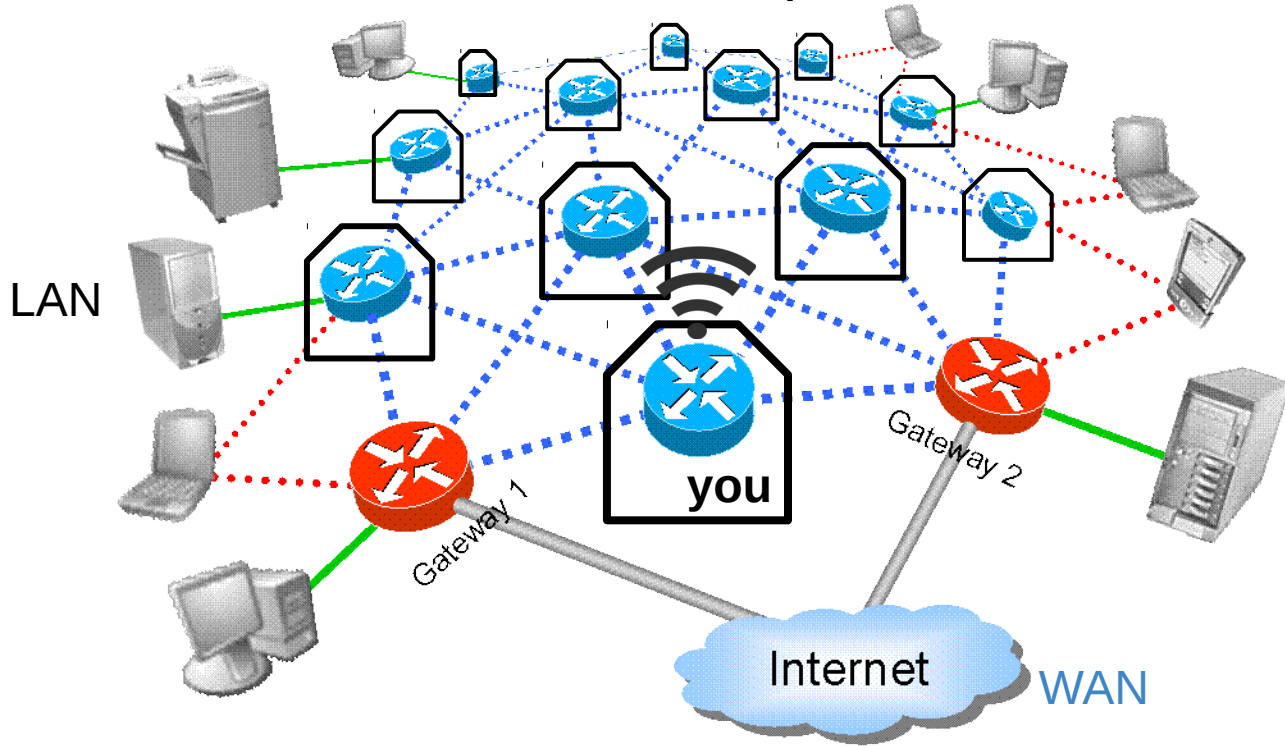
Future Network Infrastructure

the MAN (mesh area network)



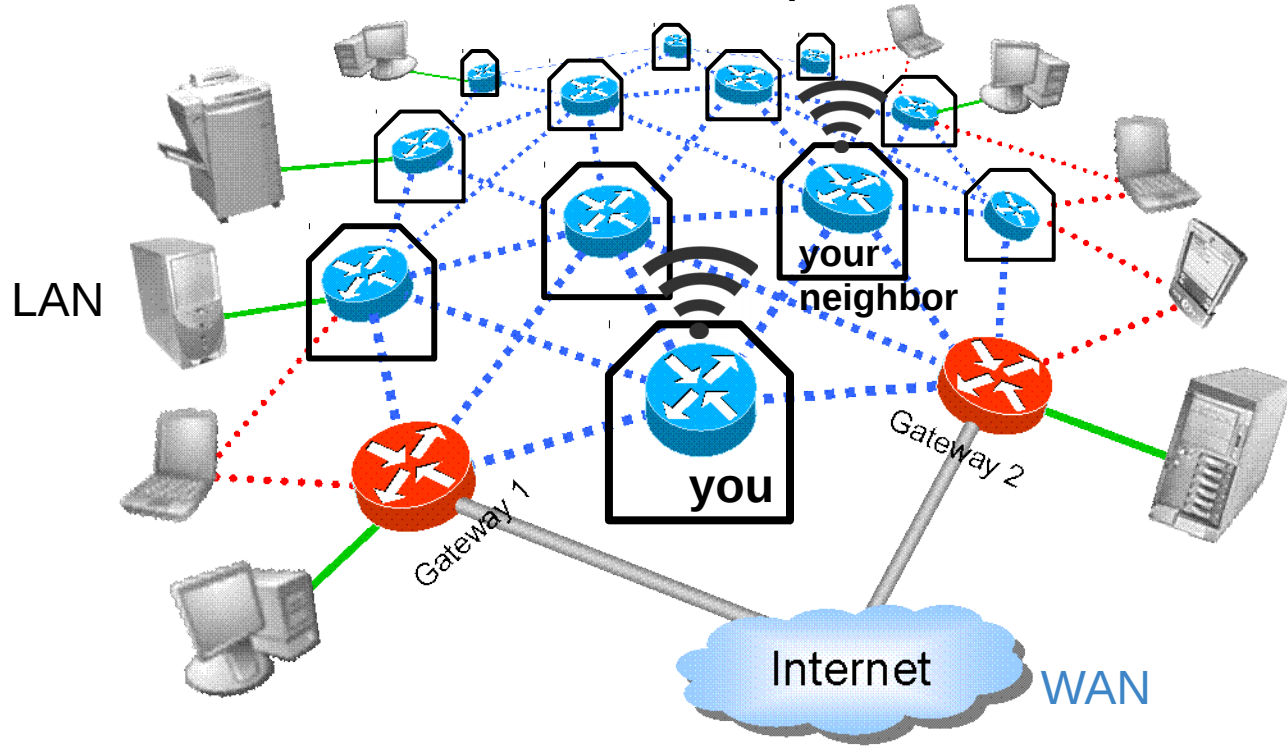
Future Network Infrastructure

the MAN (mesh area network)



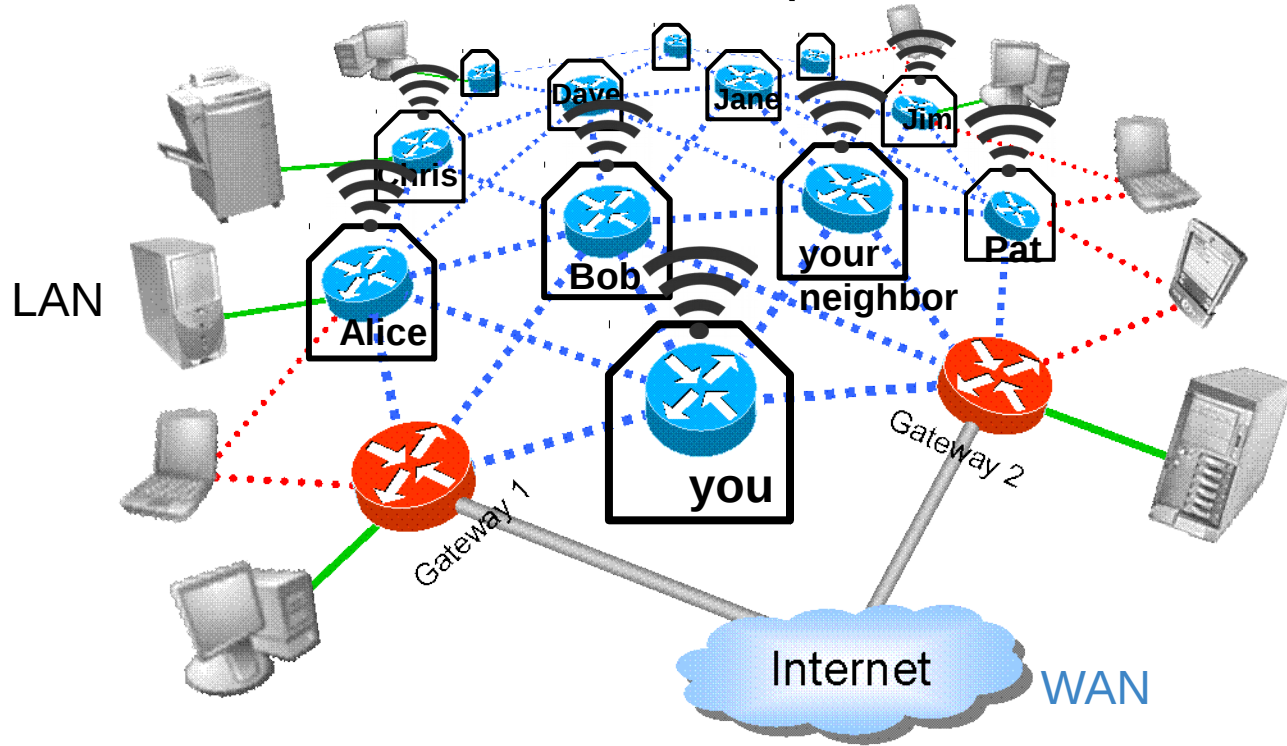
Future Network Infrastructure

the MAN (mesh area network)



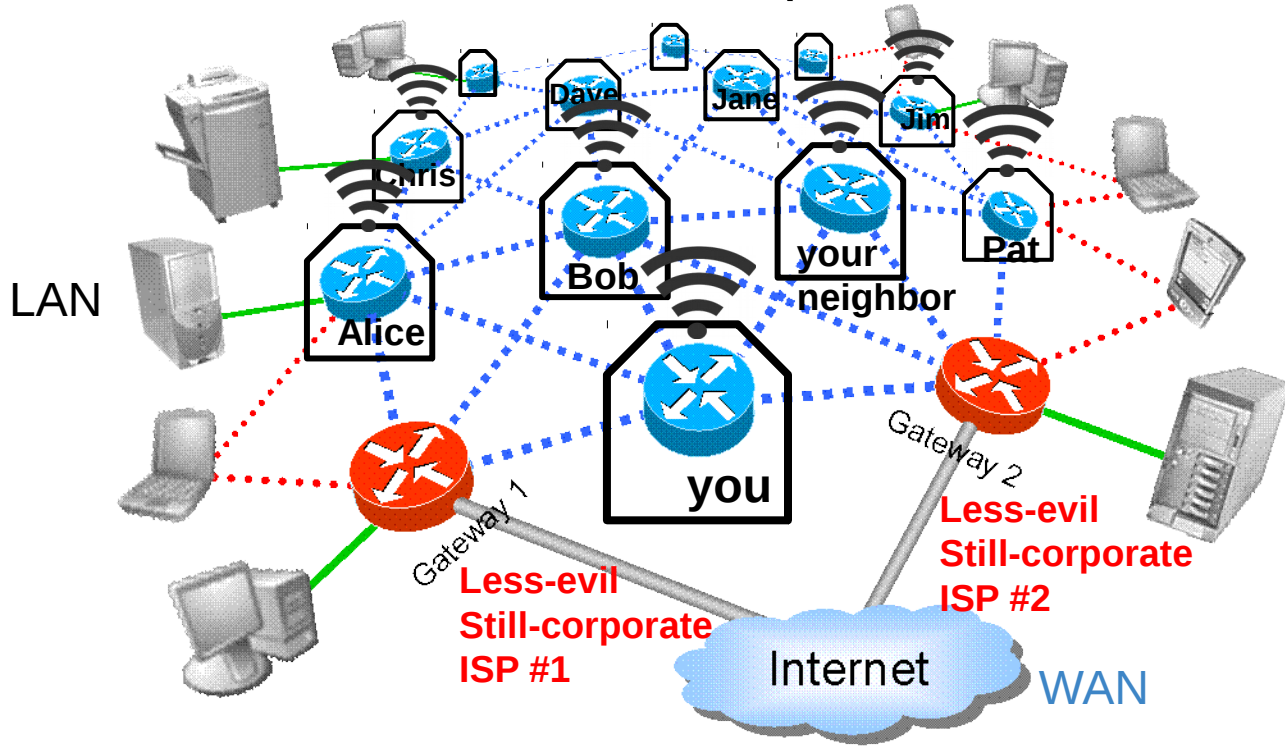
Future Network Infrastructure

the MAN (mesh area network)



Future Network Infrastructure

the MAN (mesh area network)



What does this do?

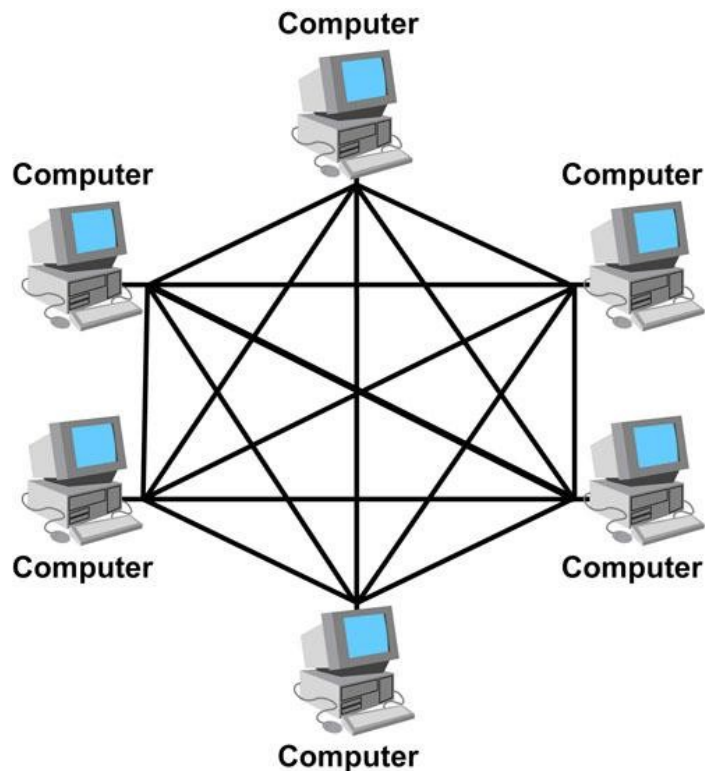
More resilient network

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

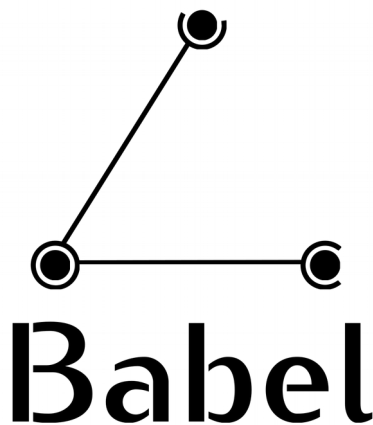
How do we do this?

Open source software:

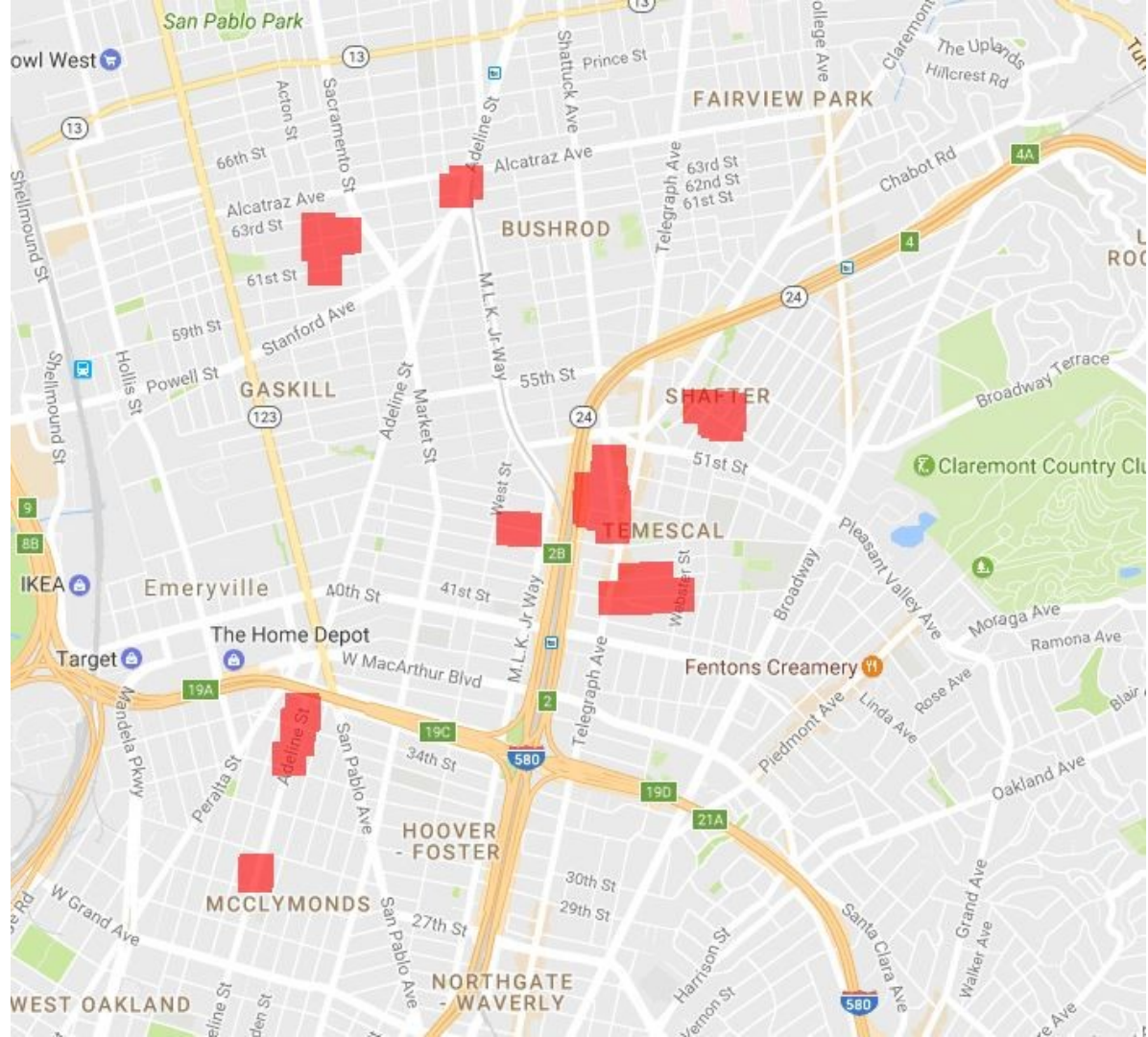
Routing protocol (Babeld)

Custom firmware (OpenWrt)

Get on people's roofs and mount antennas!



CHAOS CALMER (15.05, r46767)



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