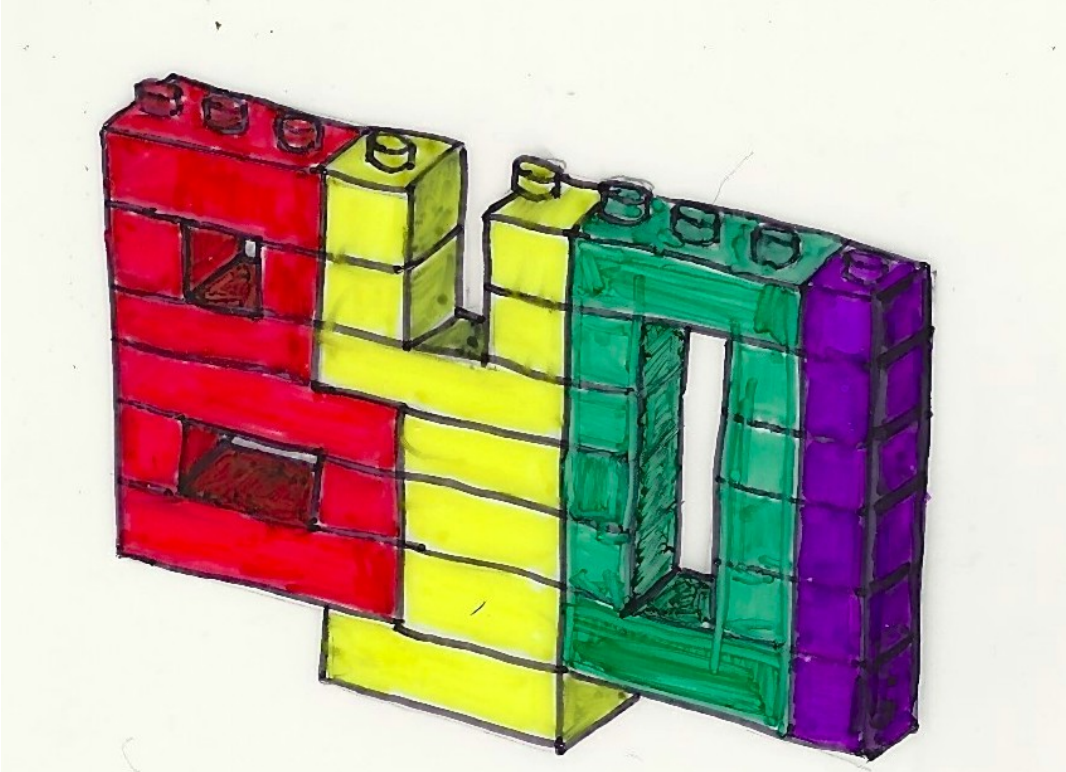

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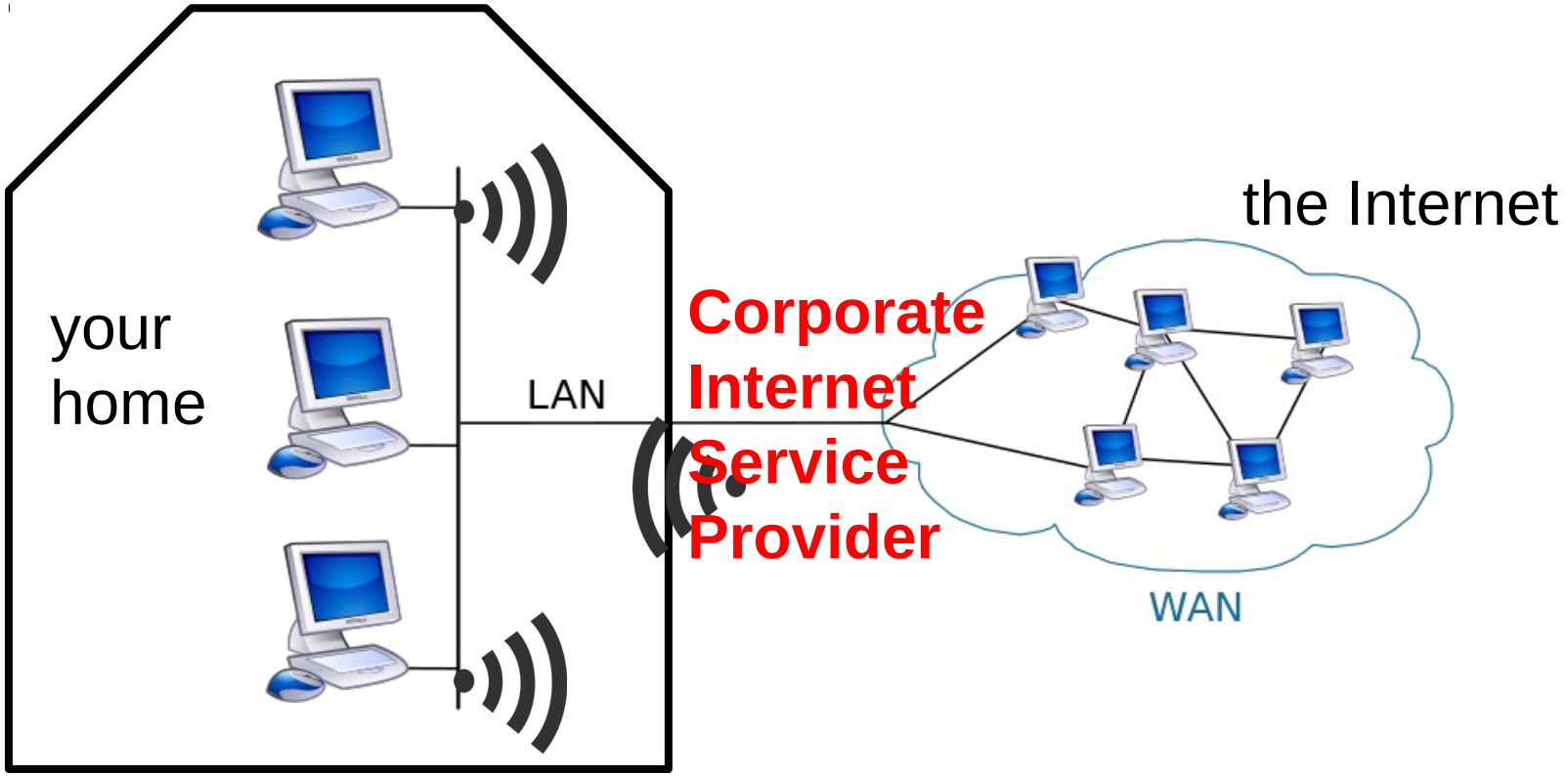
Build Your Own Internet Workshop

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/

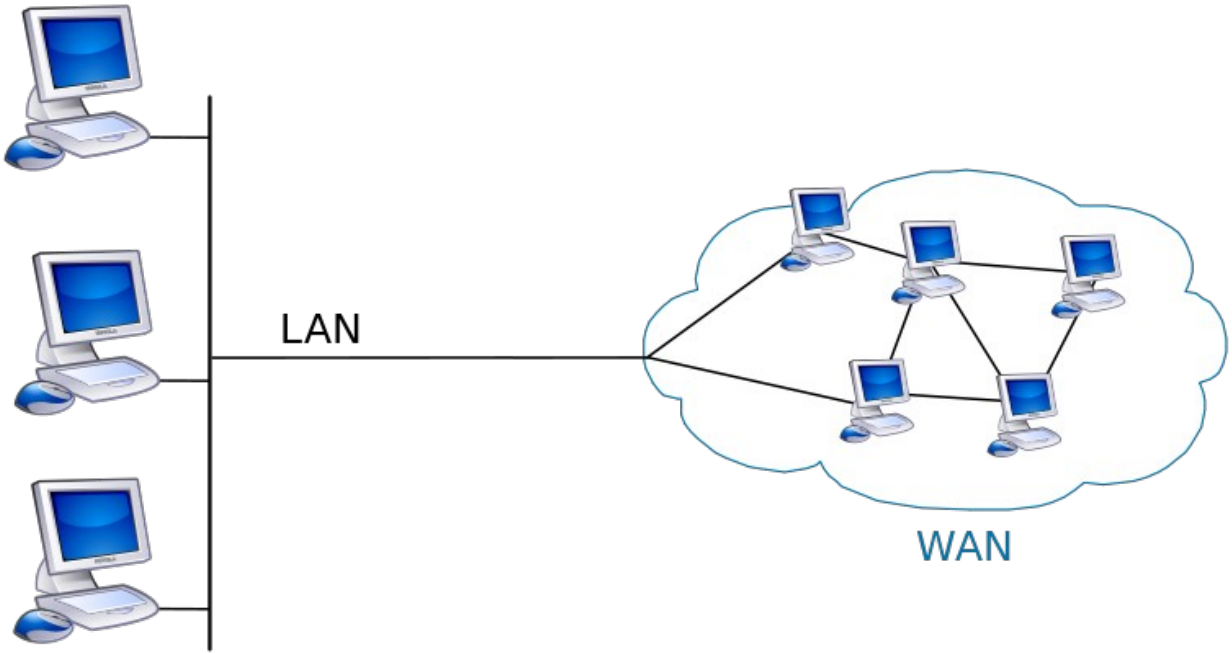
Hack on some code with https://github.com/sudomesh

Visit our weekly meeting, Tuesday 7:30pm

Omni Commons

sudomesh

Current Network Infrastructure



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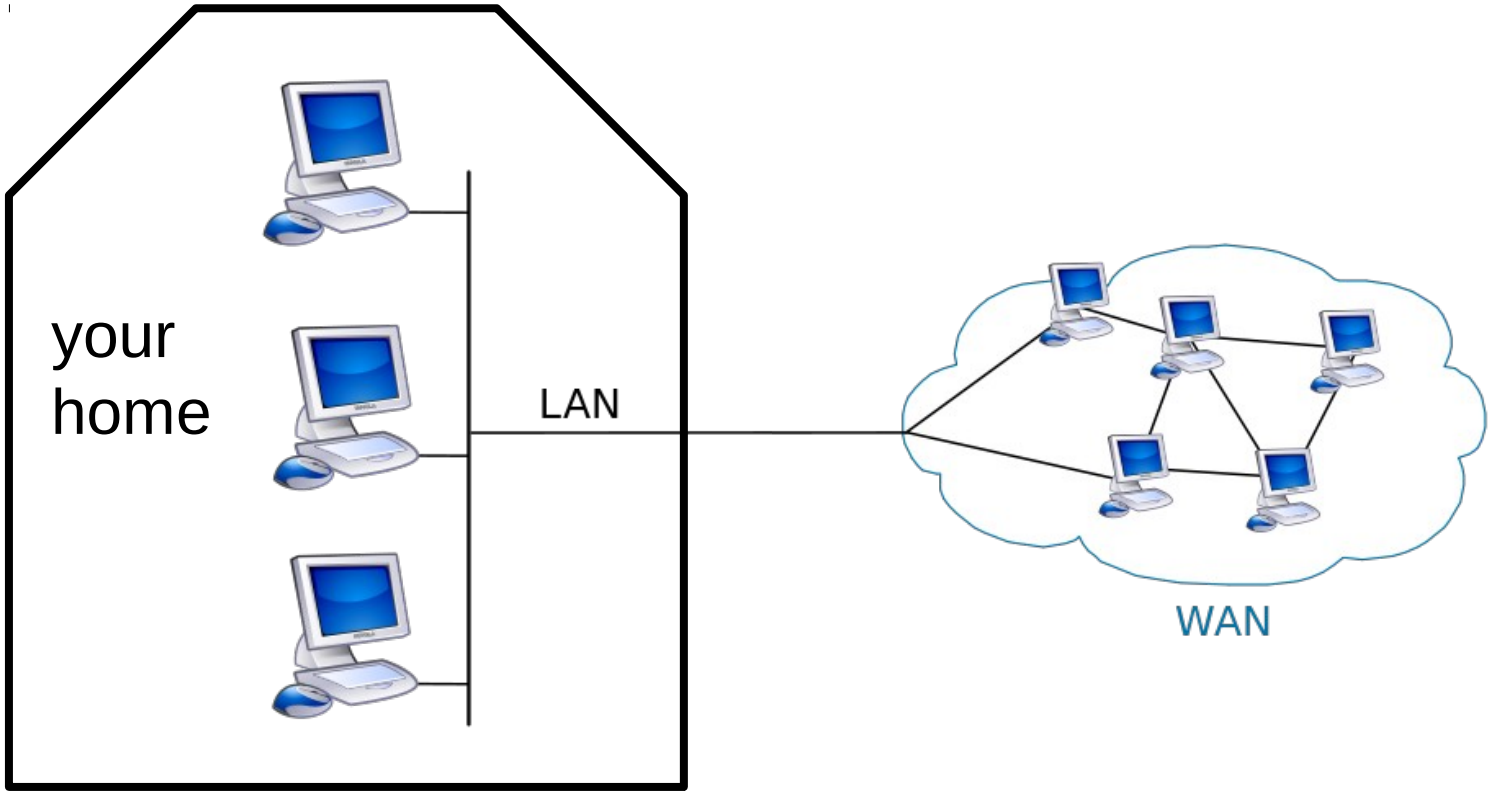

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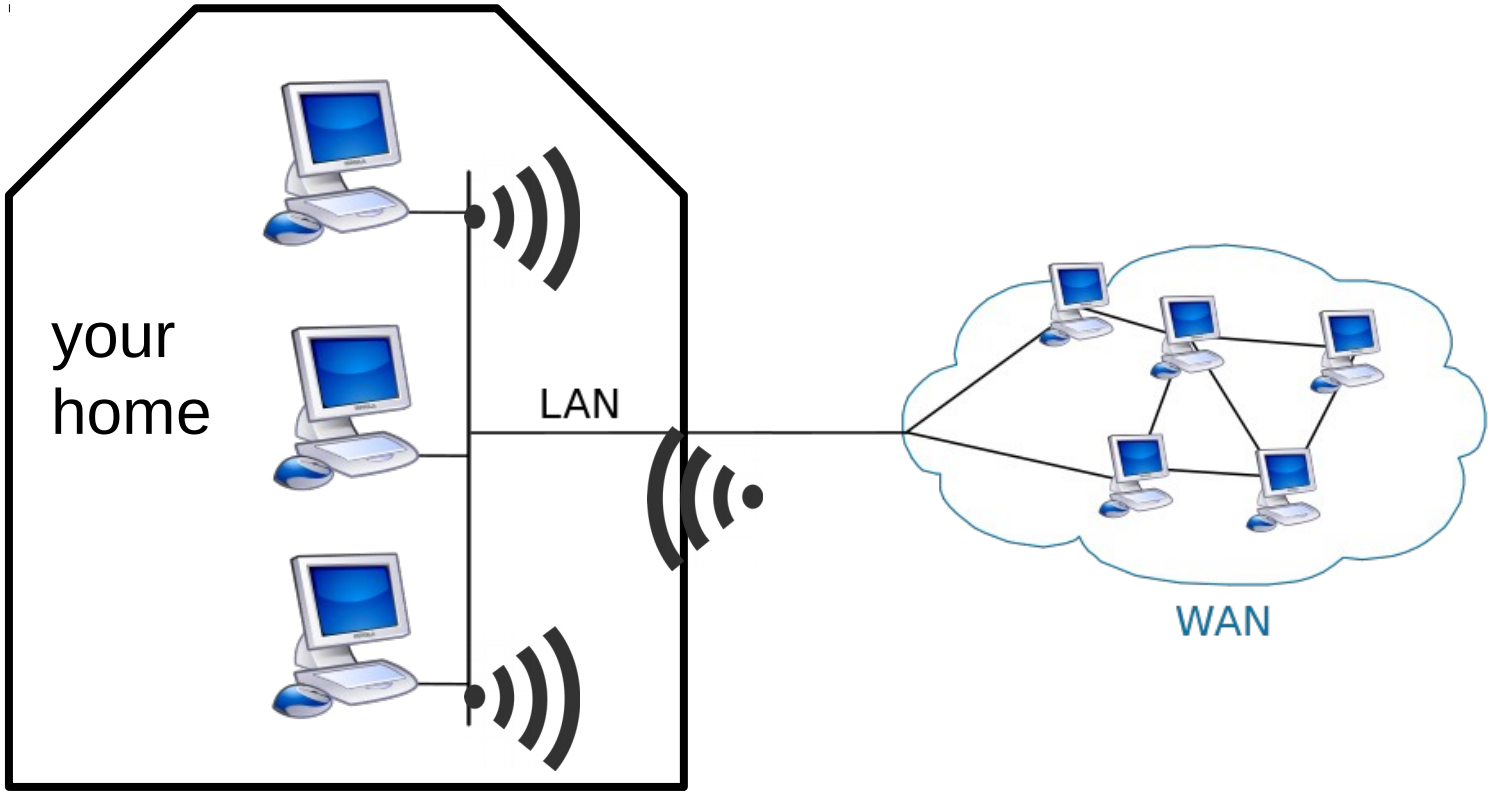

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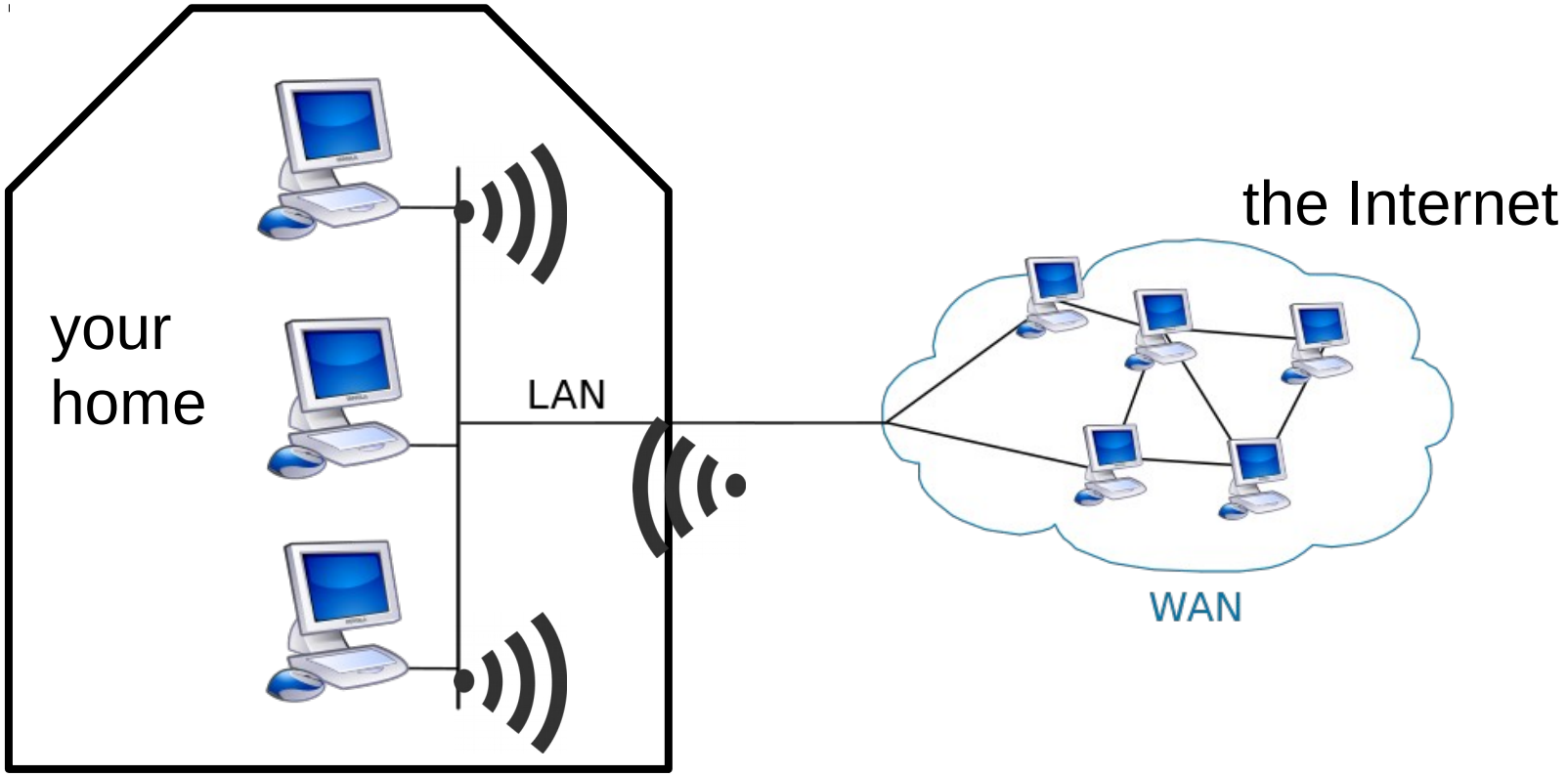
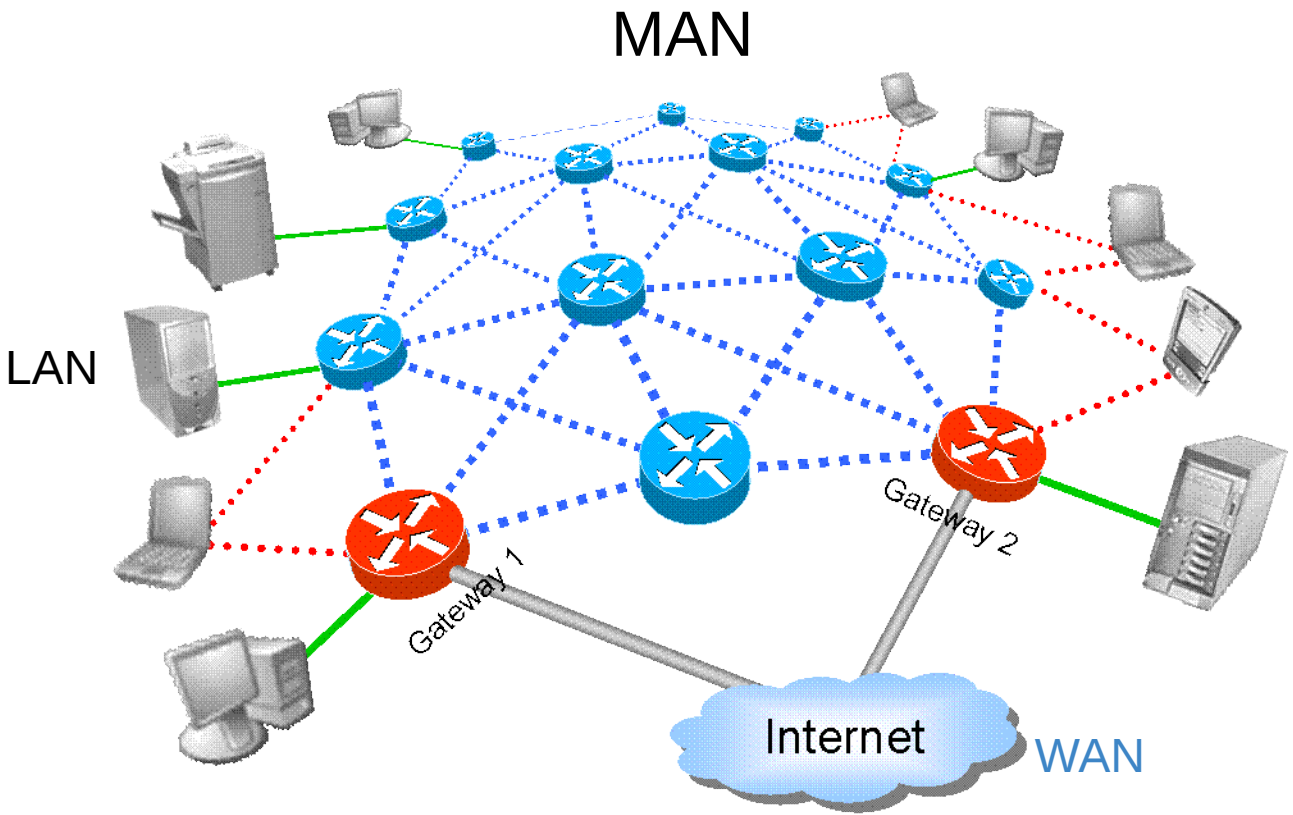
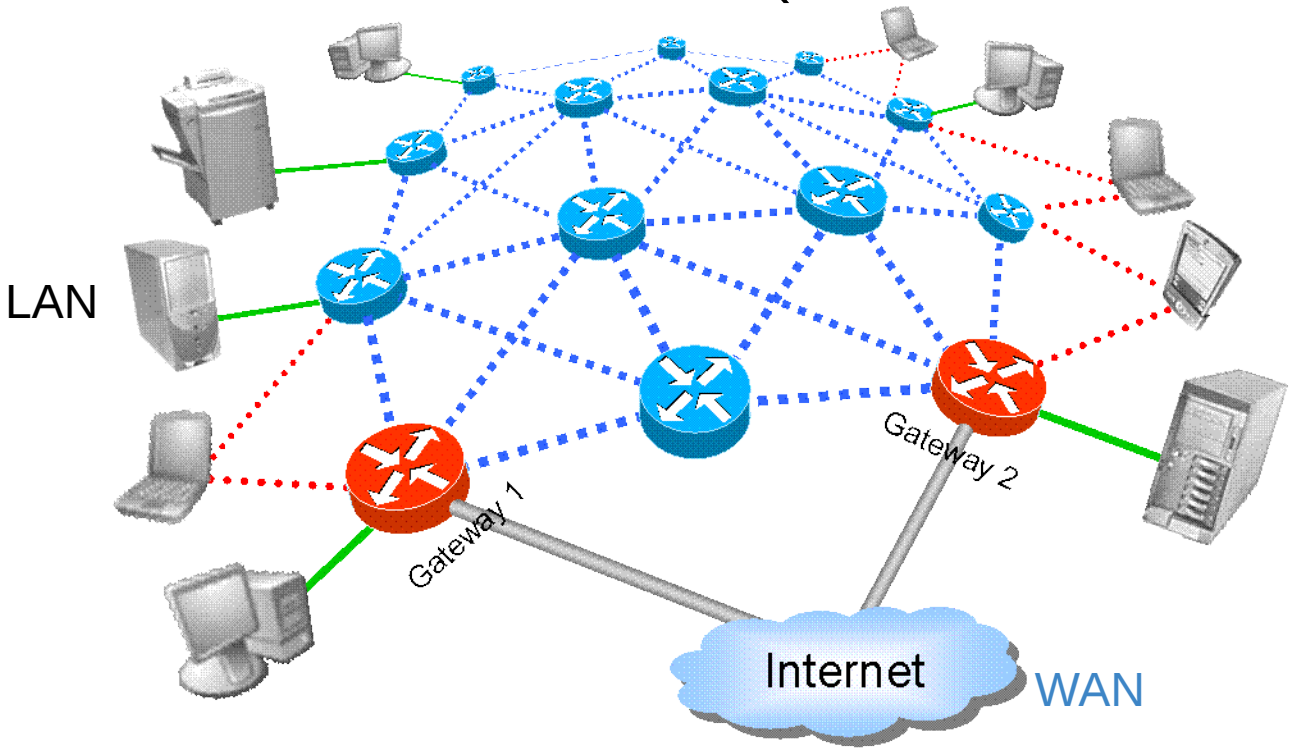


Future Network Infrastructure



Future Network Infrastructure

the MAN (mesh area network)



Future Network Infrastructure

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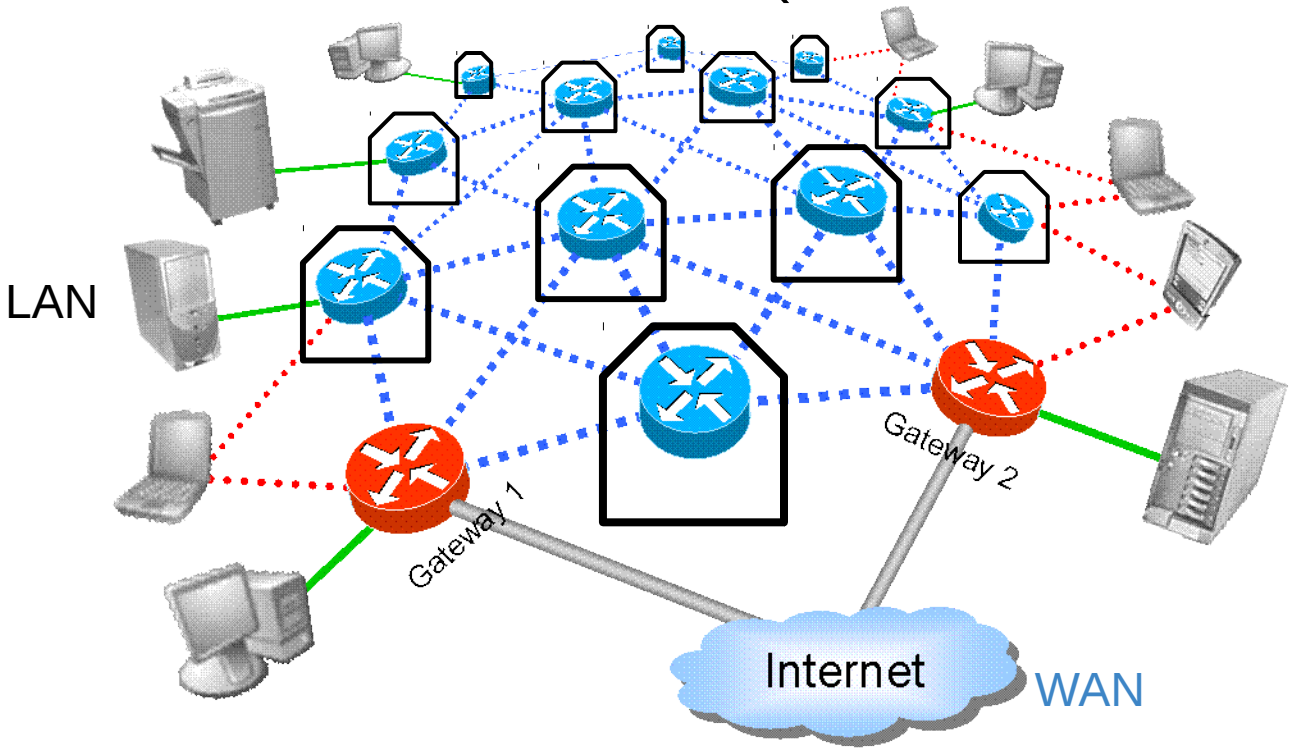

Future Network Infrastructure

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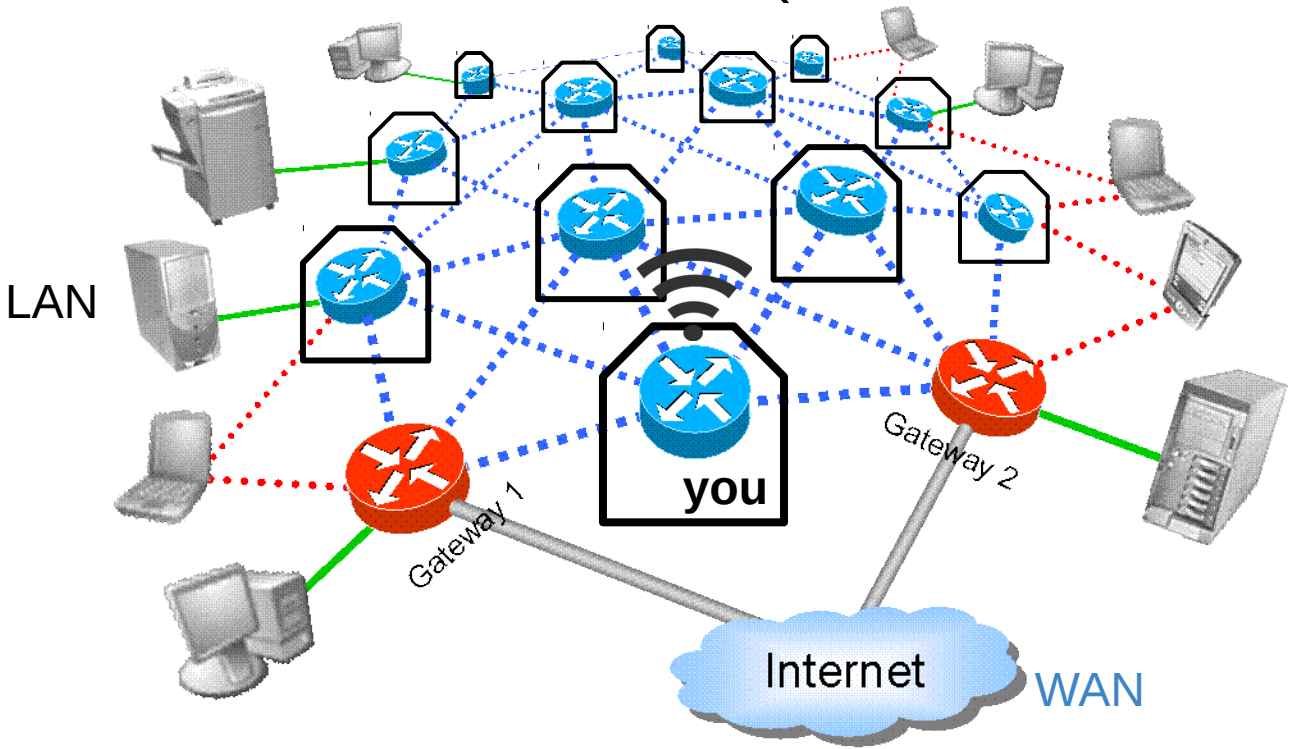

Future Network Infrastructure

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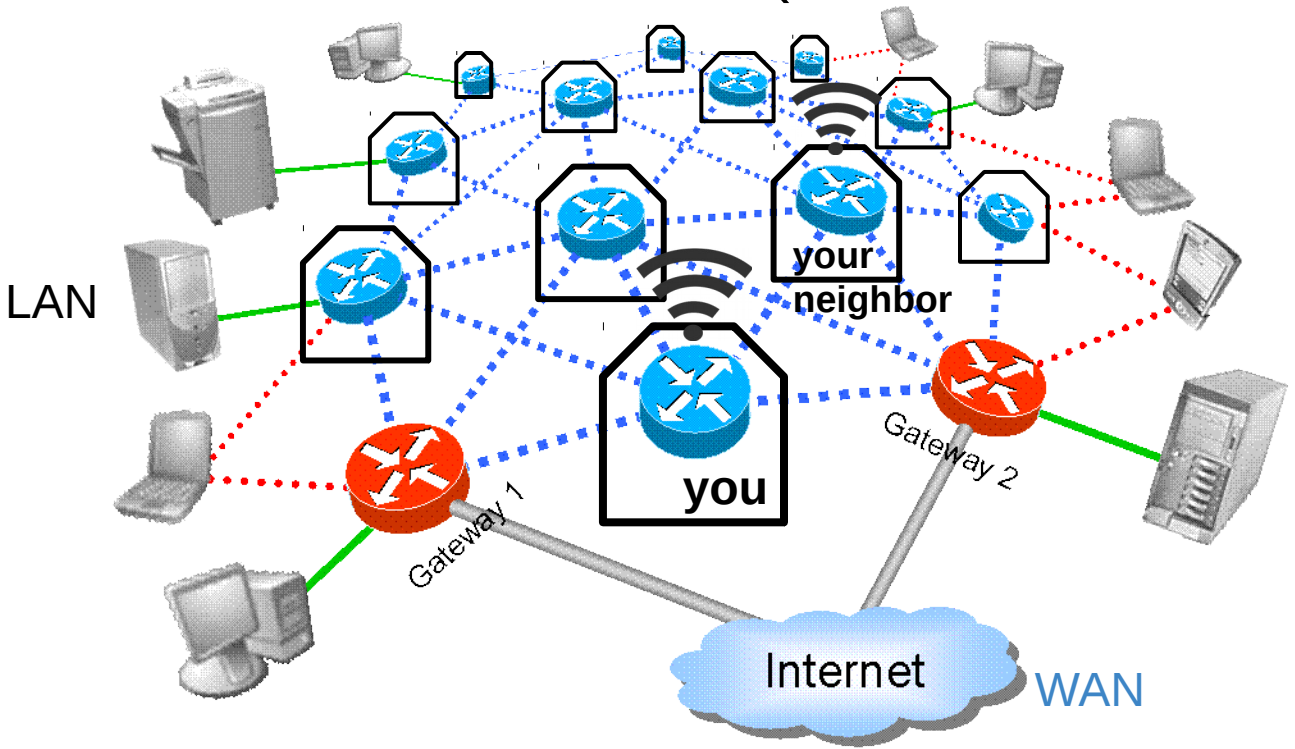

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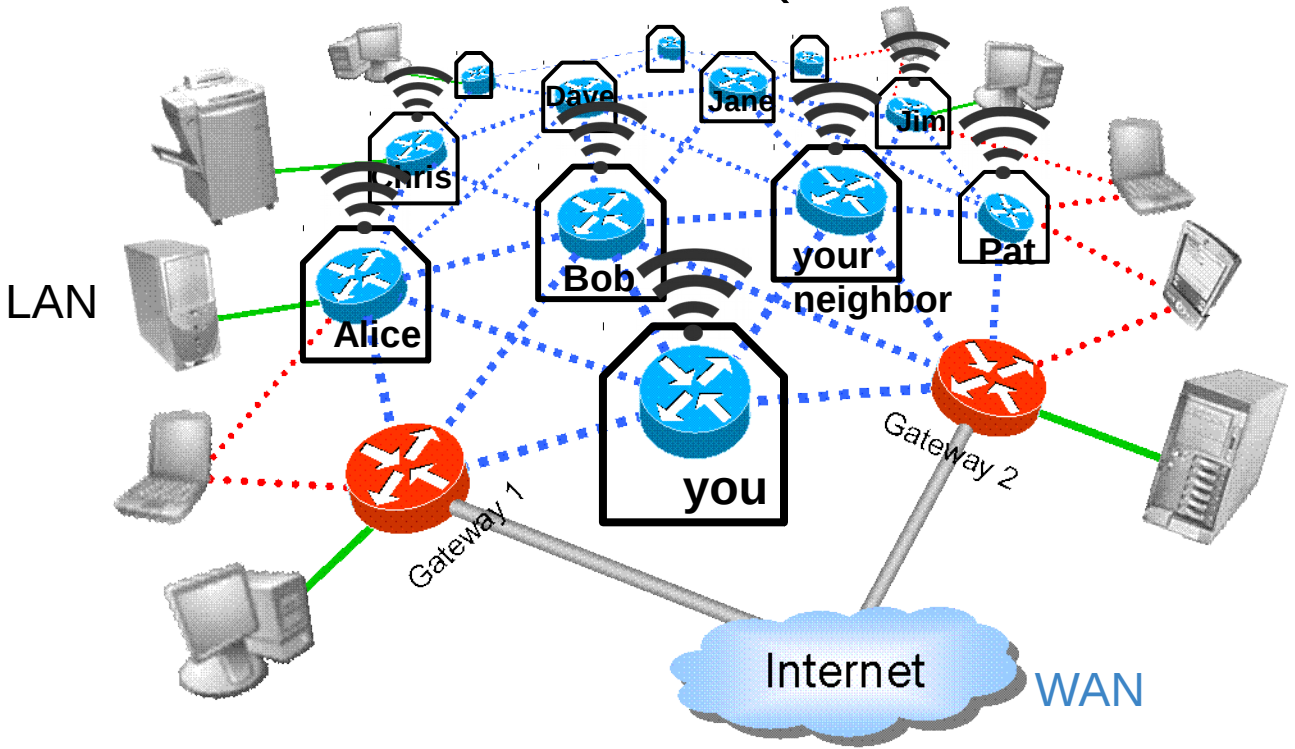

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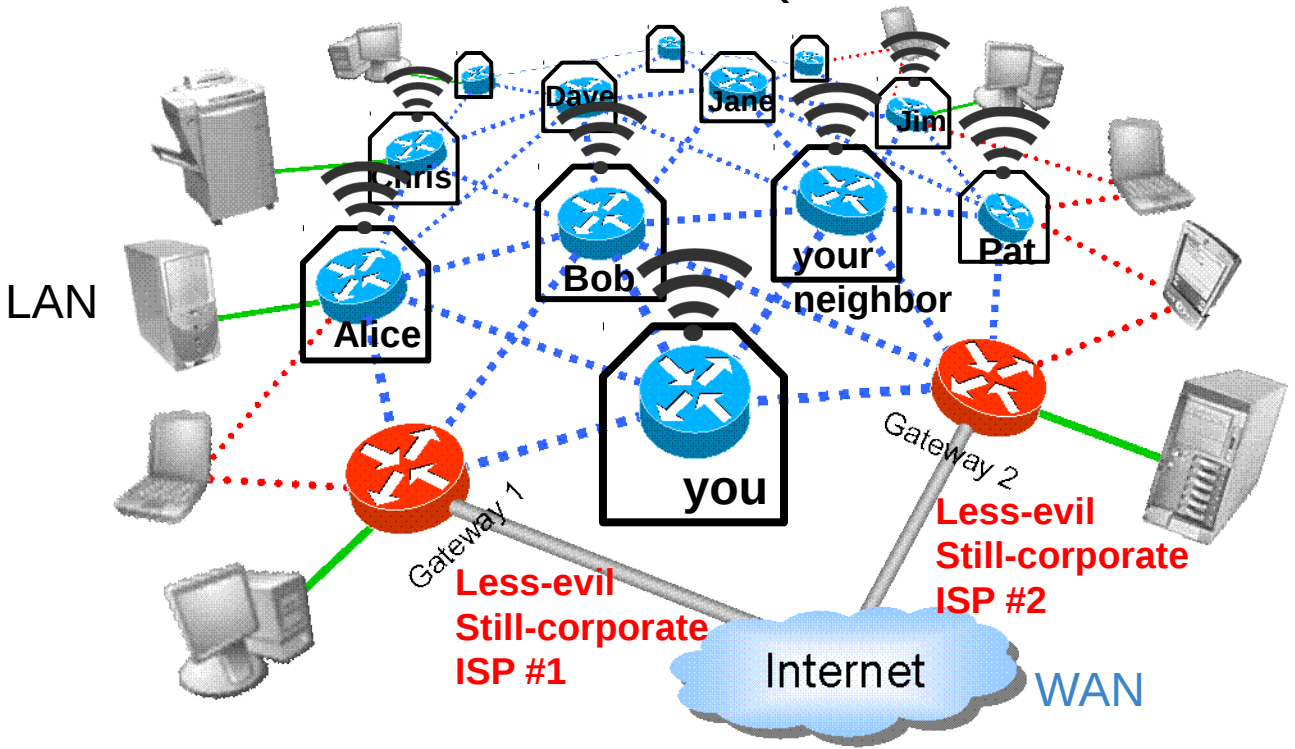


What does this do?

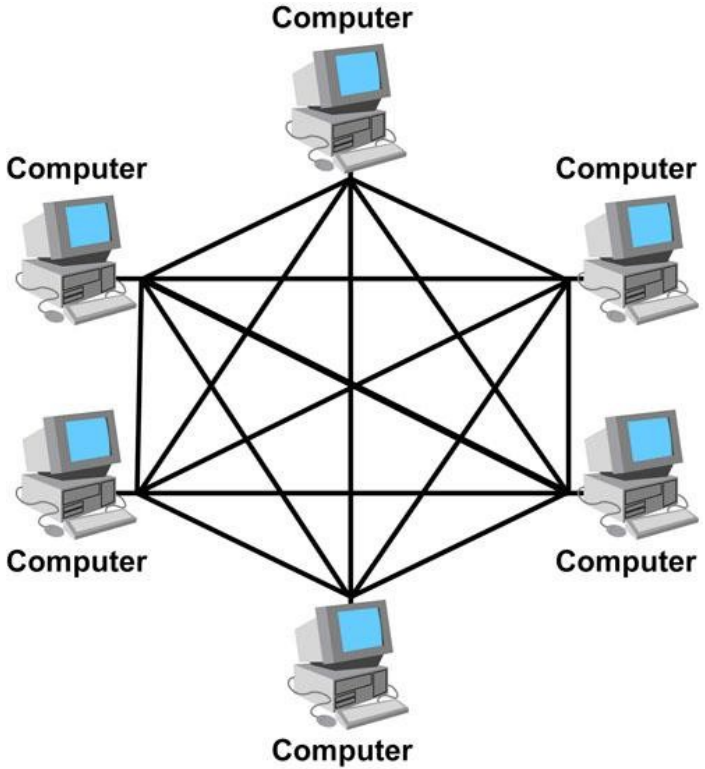
More resilient network

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

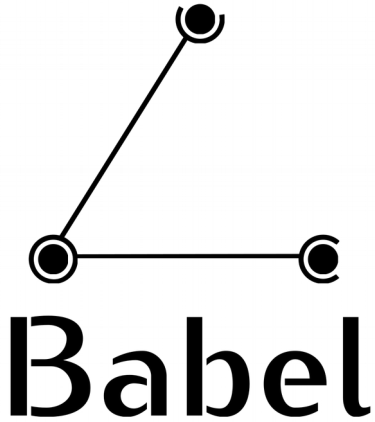
Future goals:

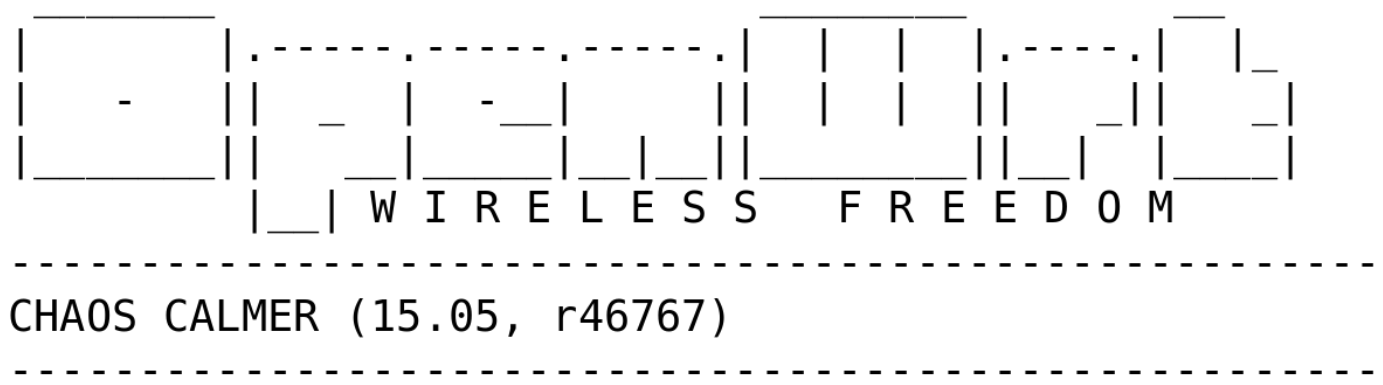
- most nodes meshing over wireless
- multiple gateways to the internet

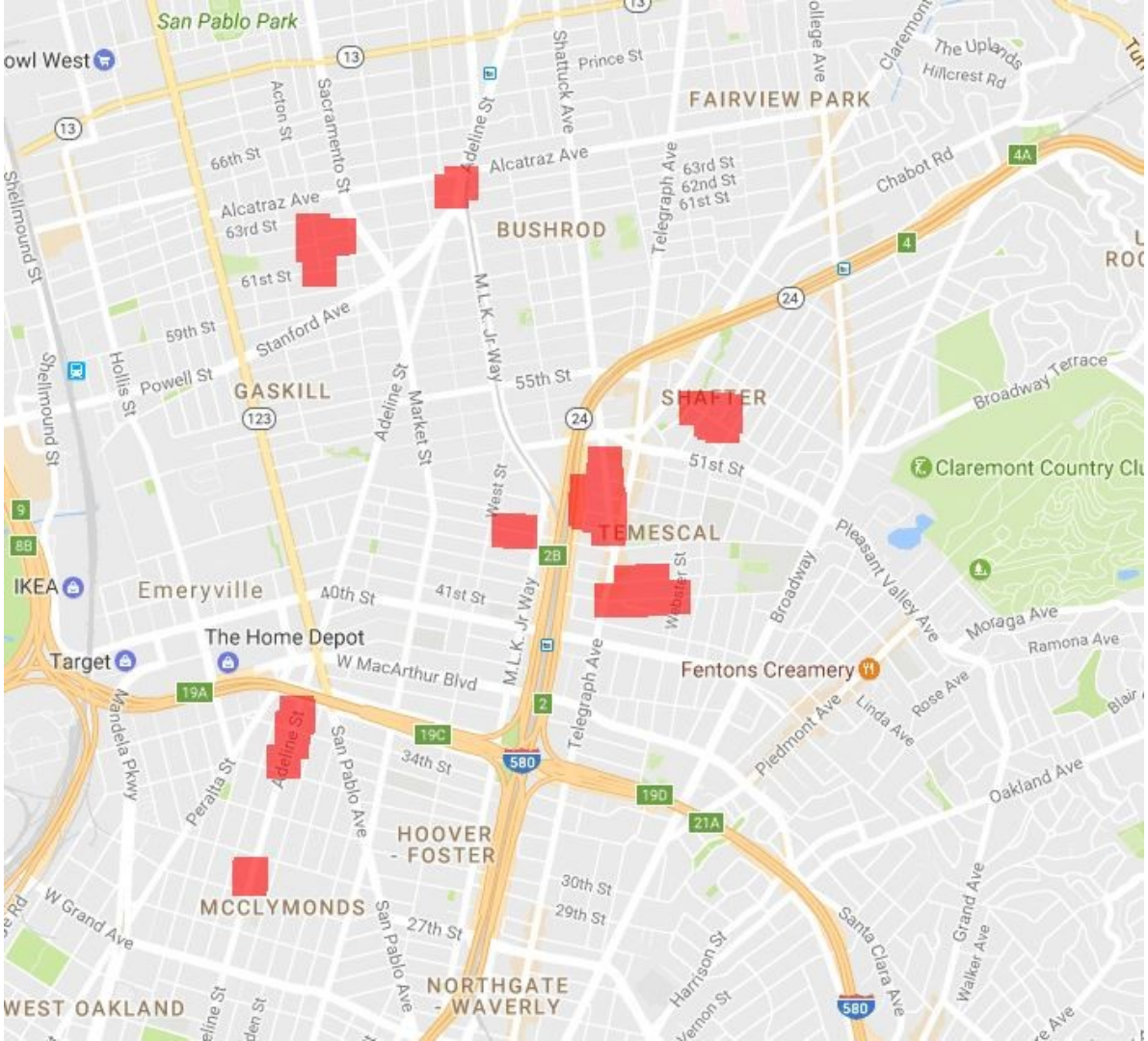
How do we do this?

Open source software:

- Routing protocol (Babeld)
- Custom firmware (OpenWrt)
- Get on people's roofs and mount antennas!






San Pablo Park
owl West
FAIRVIEW PARK
BUSHROD
GASKILL
SHAFTER
TEMESCAL
Emeryville
IKEA
Target
The Home Depot
Fentons Creamery
HOOVER - FOSTER
MCCLYMONDS
NORTHGATE - WAVERLY
WEST OAKLAND
Claremont Country Clu
Alcatraz Ave
Stanford Ave
Powell St
55th St
51st St
40th St
41st St
34th St
30th St
29th St
27th St
W MacArthur Blvd
Broadway Terrace
Chabot Rd
Prince St
Hillcrest Rd
The Uplands
Moraga Ave
Ramona Ave
Oakland Ave
Santa Clara Ave
Grand Ave
Walker Ave
Harrison St
Vernon St
Telegraph Ave
Shattuck Ave
Adeline St
Sacramento St
Acton St
Shellmound St
Hollis St
Market St
M.L.K. Jr Way
West St
Webster St
Broadway
Pleasant Valley Ave
Piedmont Ave
Linda Ave
Rose Ave
San Pablo Ave
Peralta St
Mandela Pkwy
W Grand Ave
Claremont
College Ave
13
24
4A
4
123
9
8B
2B
2
19A
19C
19D
21A
580

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