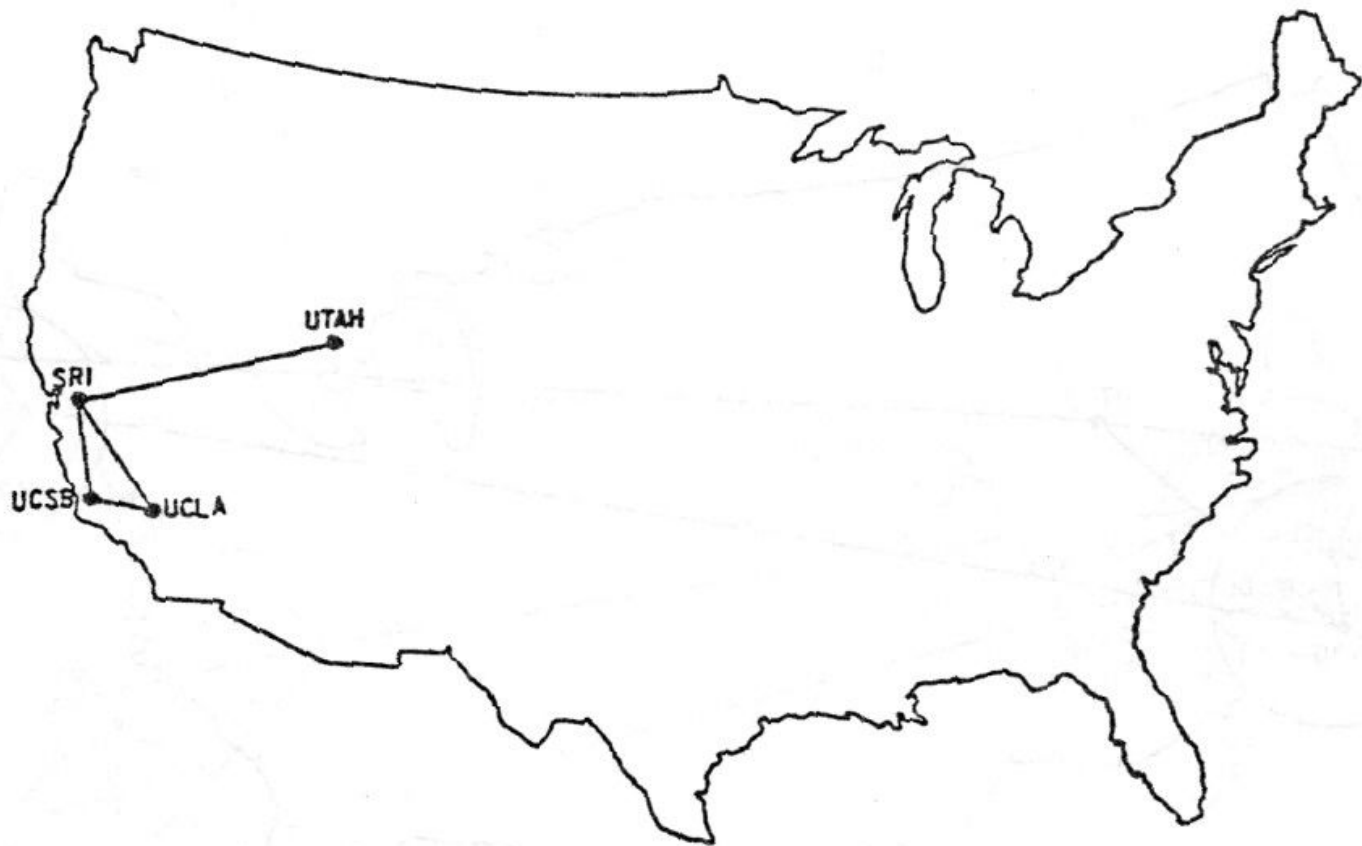


MADE OF PEOPLE (WEARING SNEAKERS)

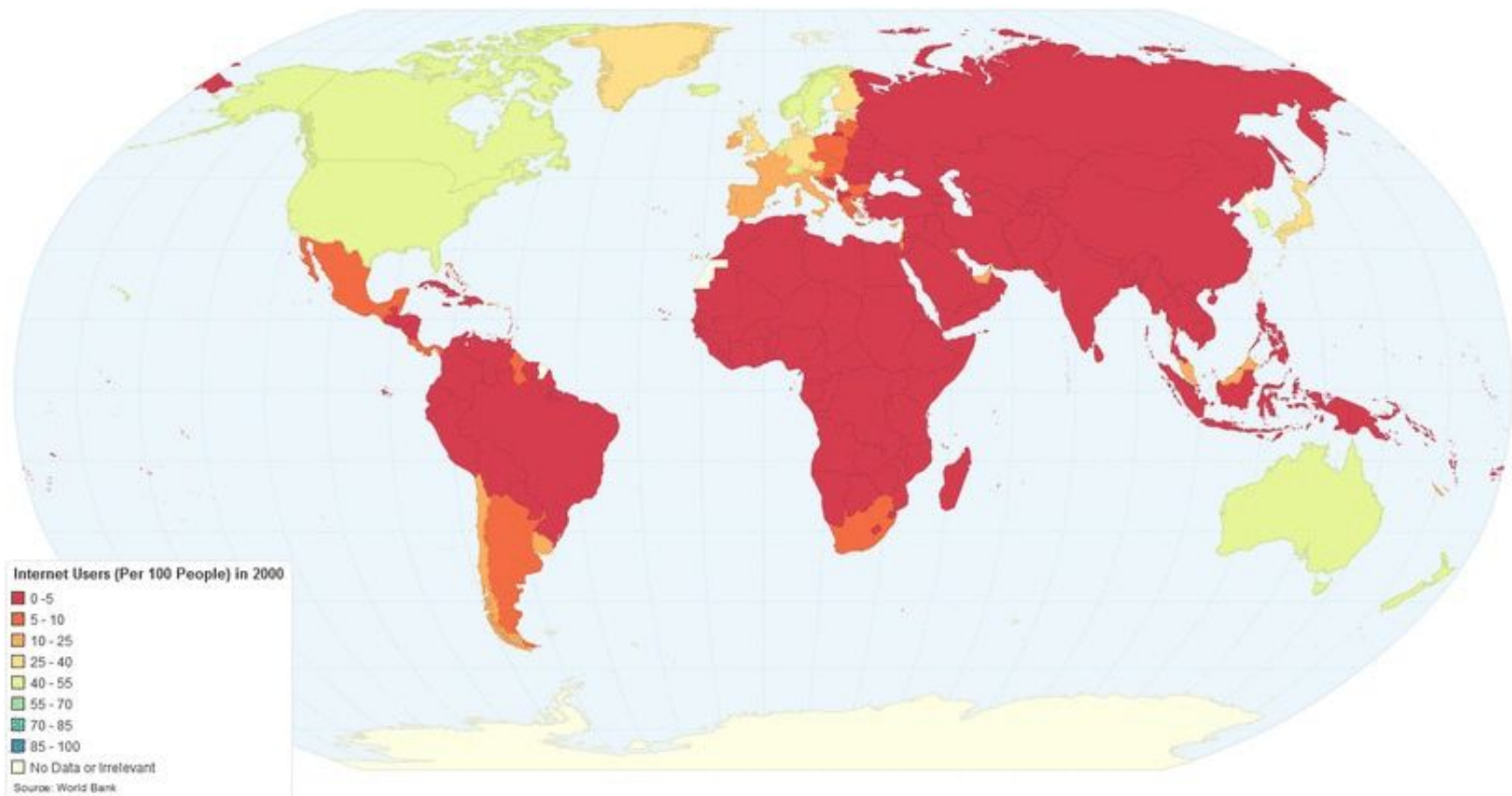
Nathan Freitas @n8fr8

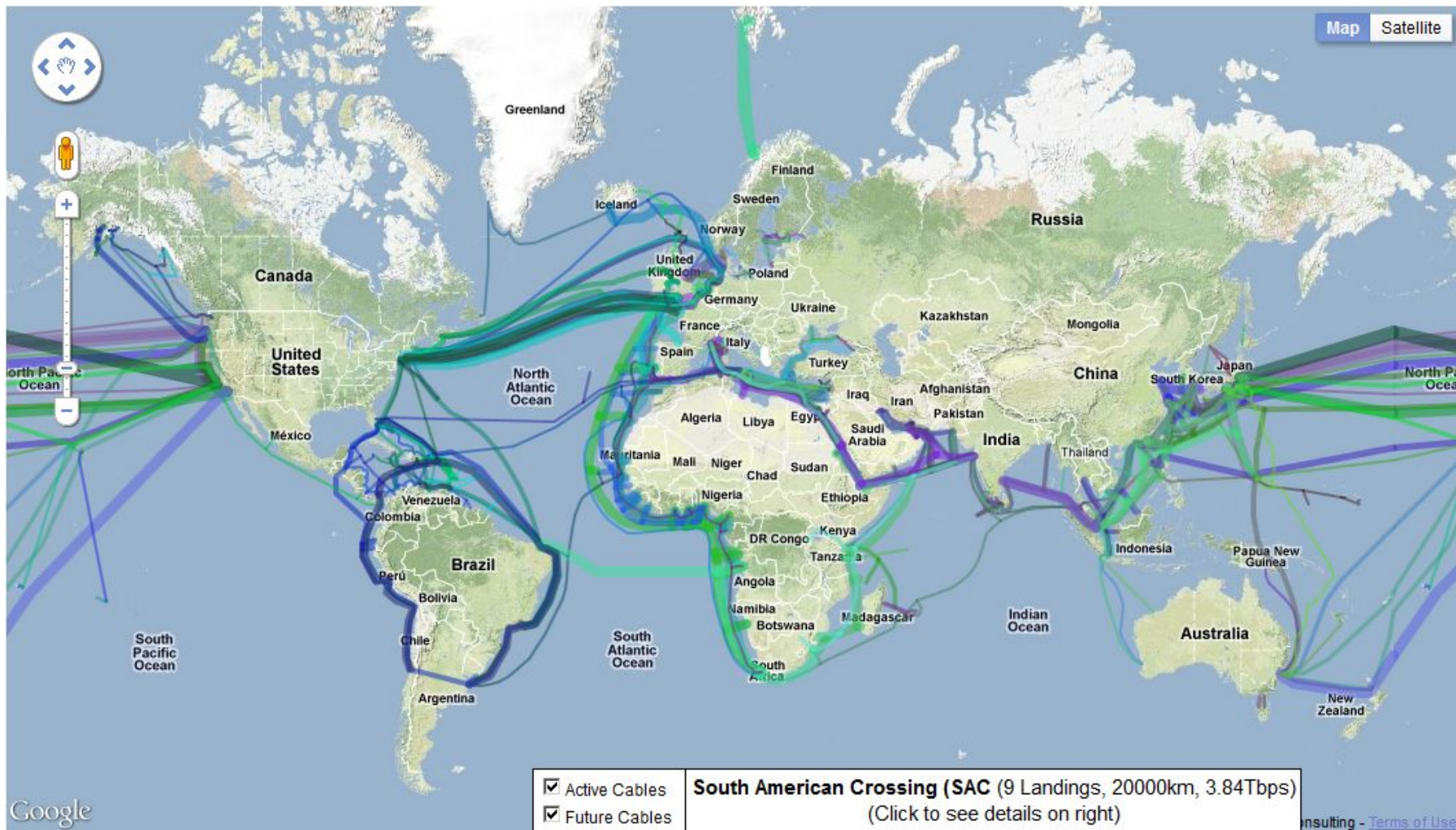
Guardian Project

<https://guardianproject.info/wind>



The ARPANET in December 1969

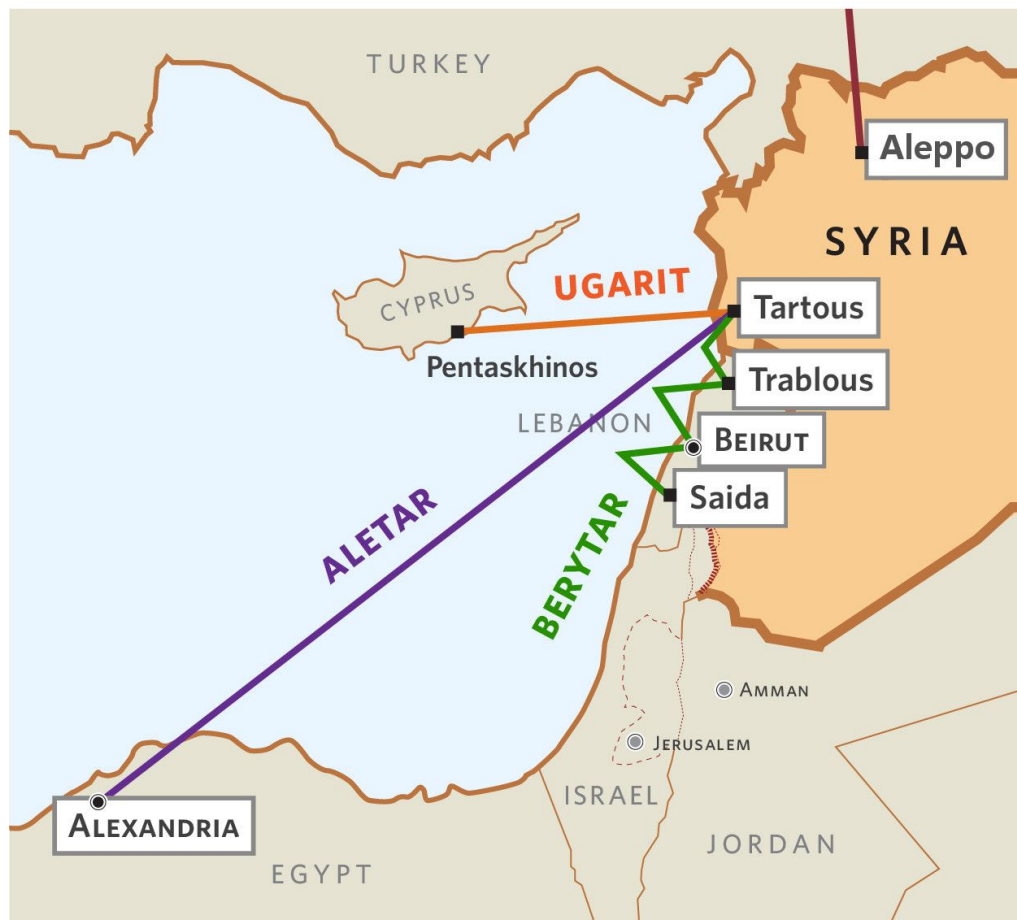






Source: Asia Netcom

Syria's Physical Internet Connections • renesys®



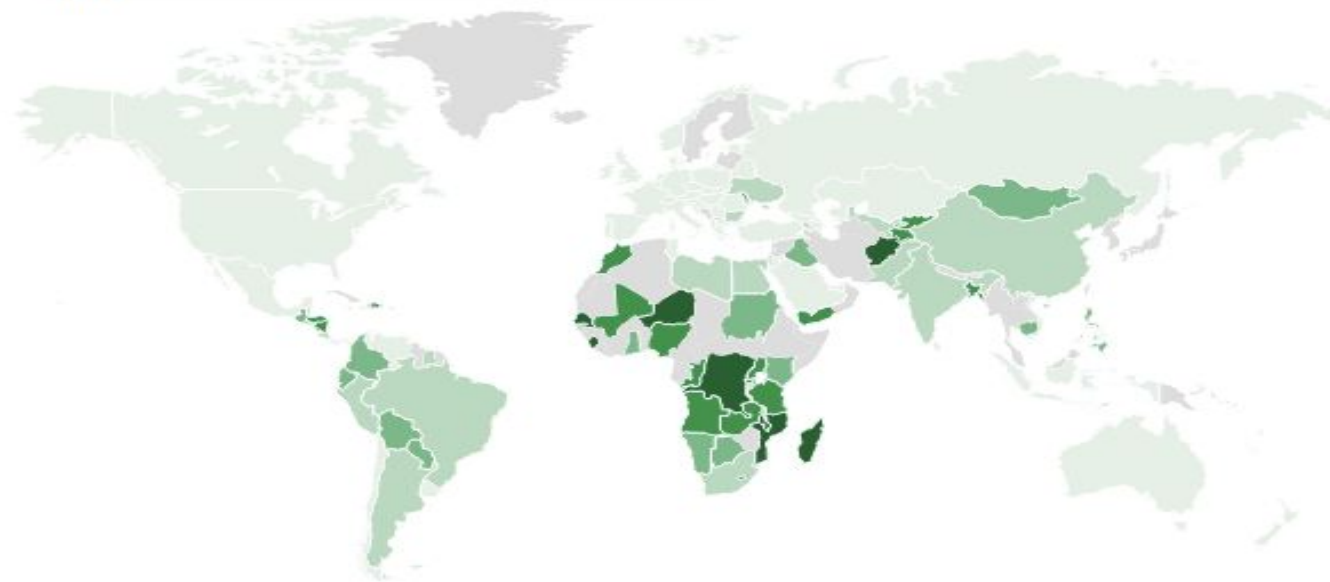
Mobile-broadband prices

\$ at PPP*

As % of monthly GNI† per person

Pre-paid handset-based subscription with
500 megabytes of data per month
2012

Zoom to ▼

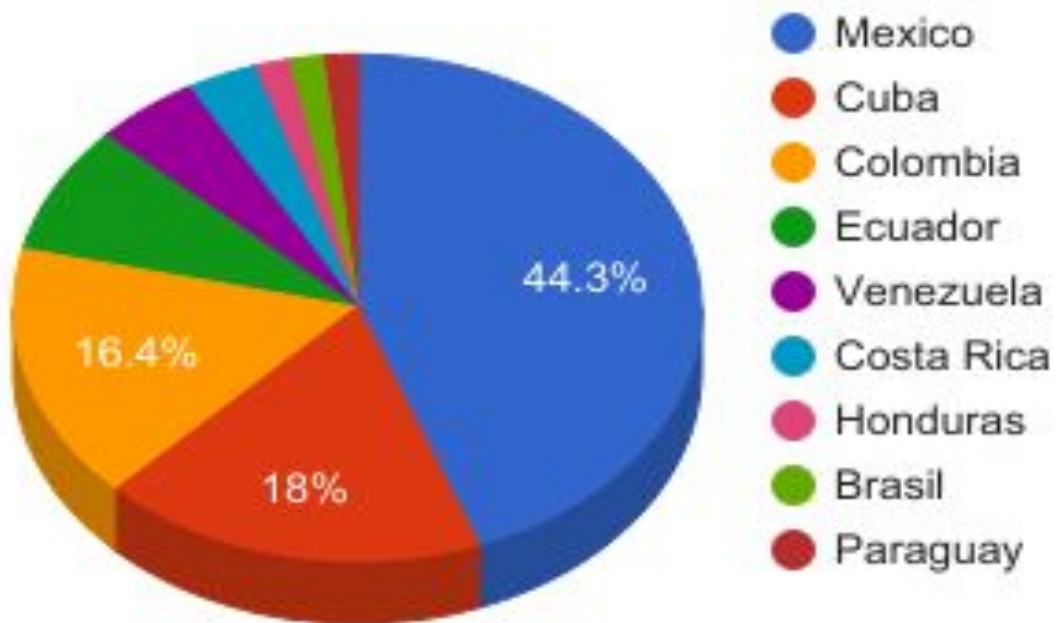


Source: ITU

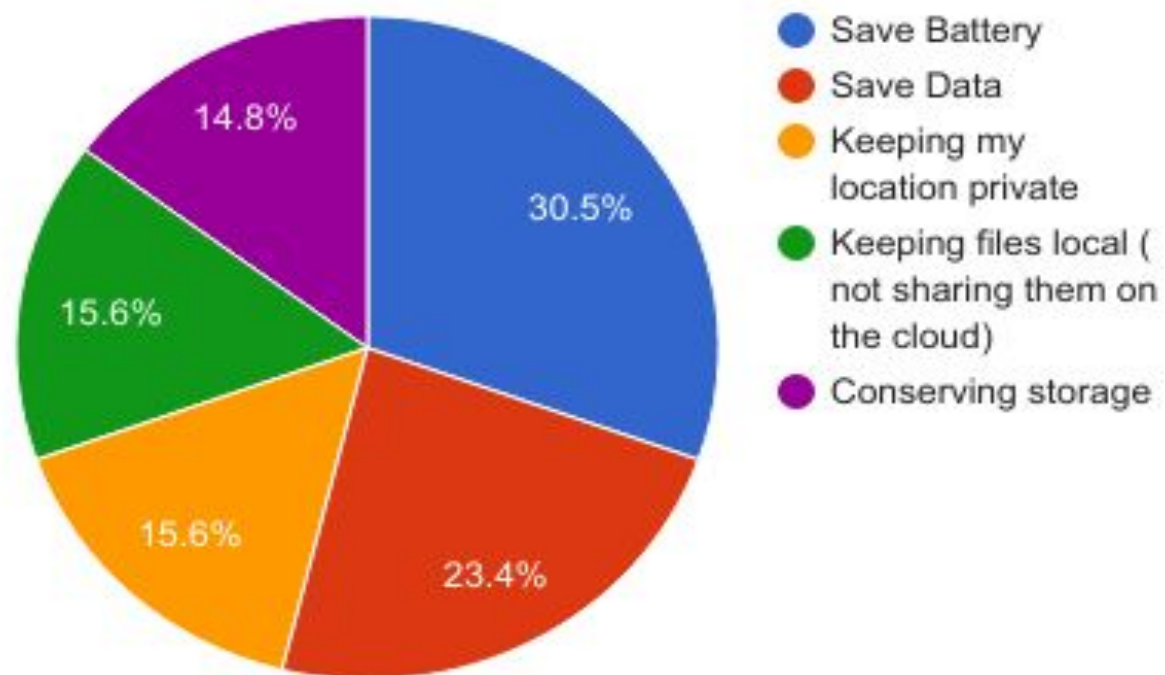
*Purchasing-power parity

†Gross national income

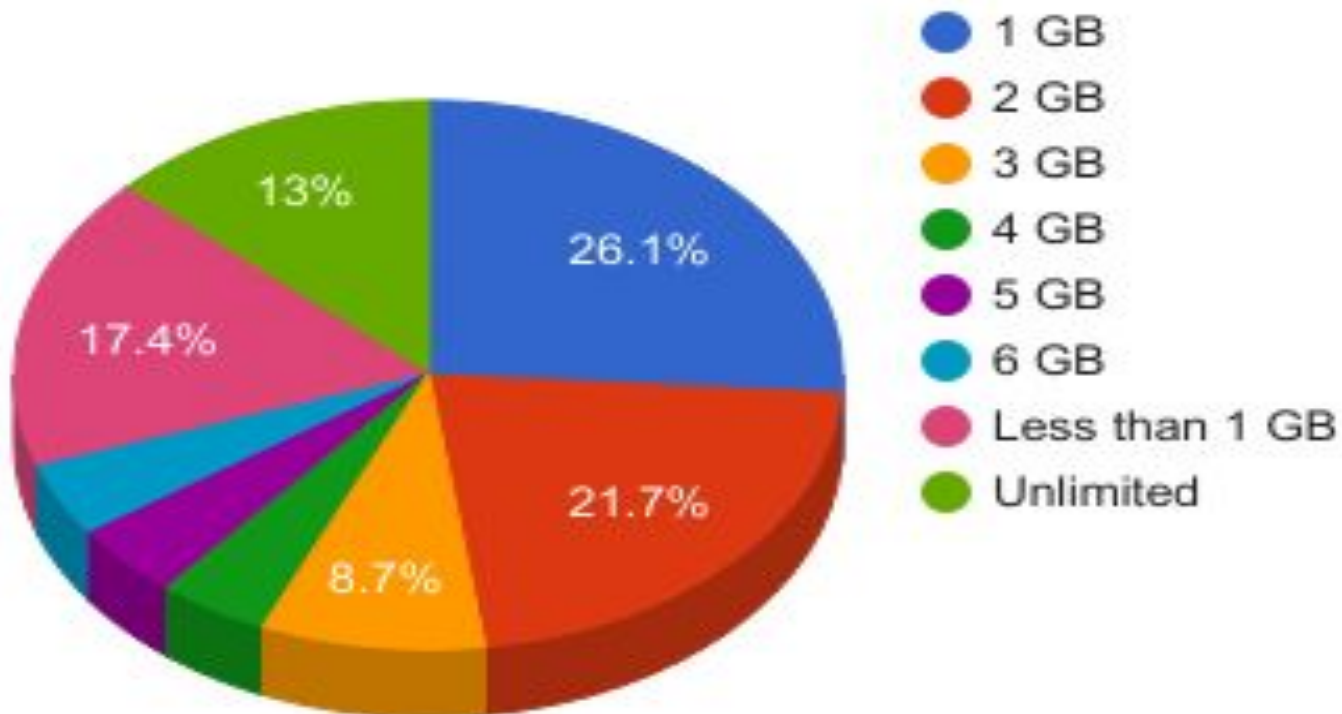
Country of Origin



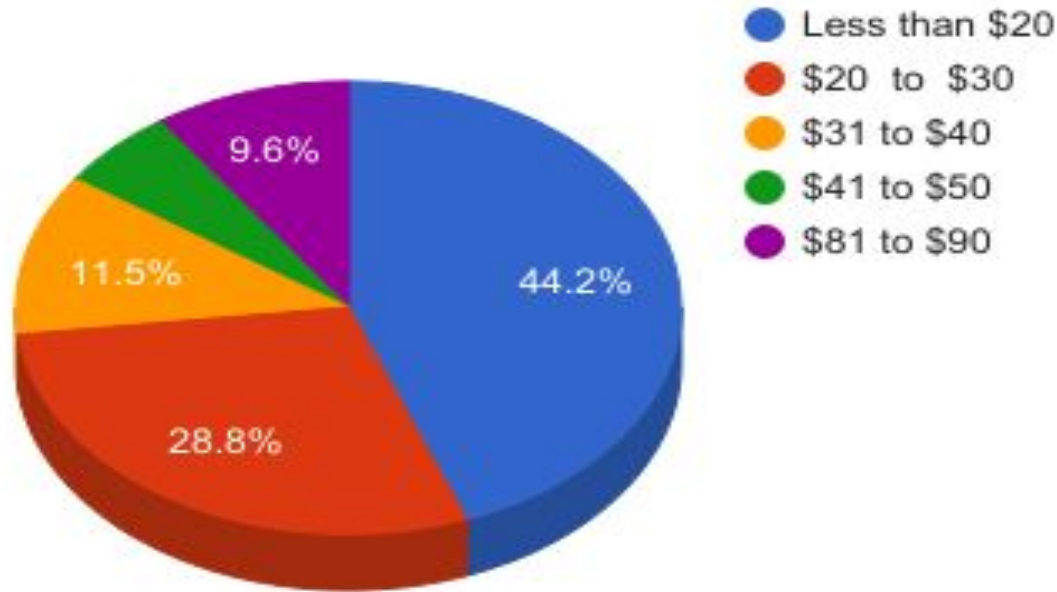
Which concerns do you have with your phone?



How much data do you get each month?

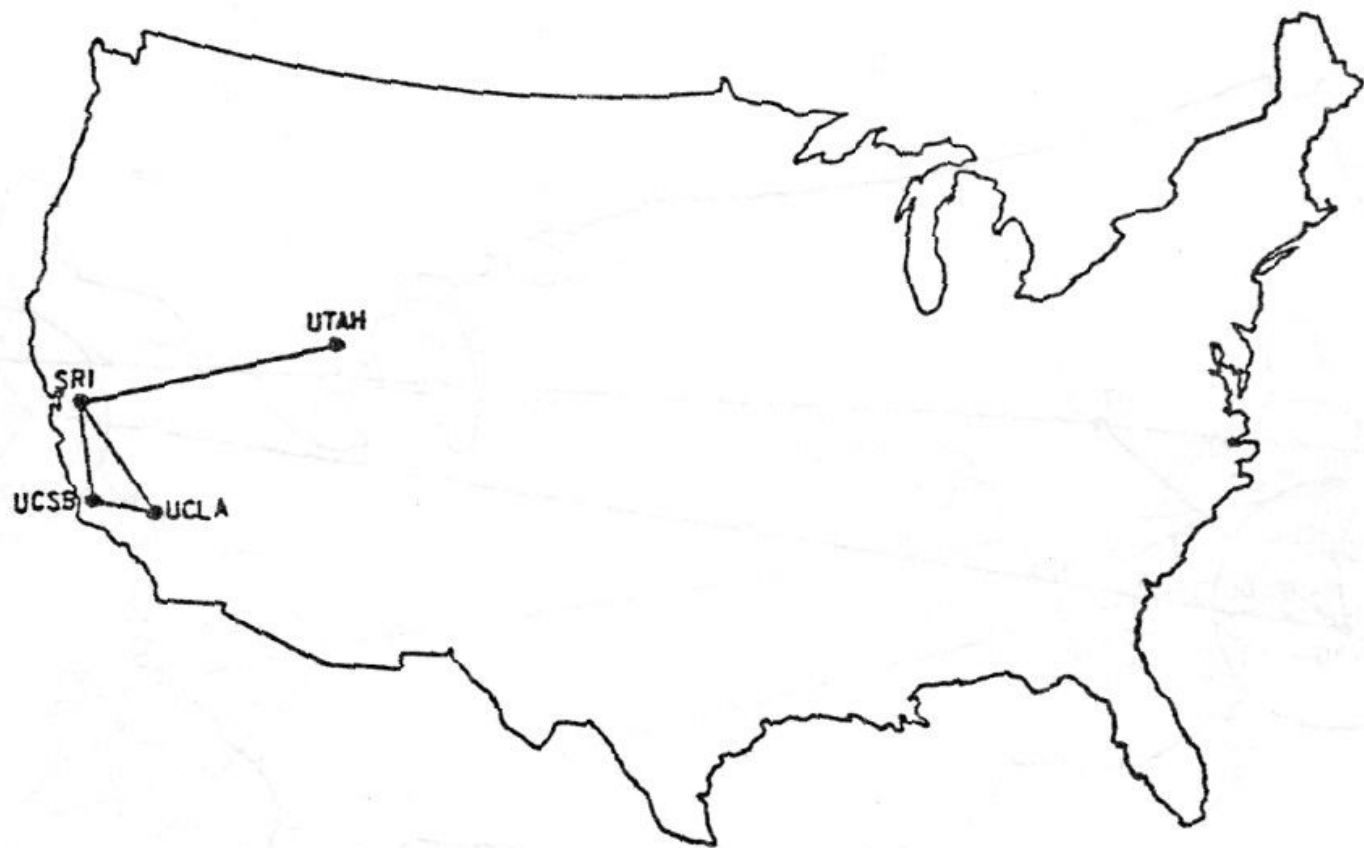


How much do you pay for your data per month?

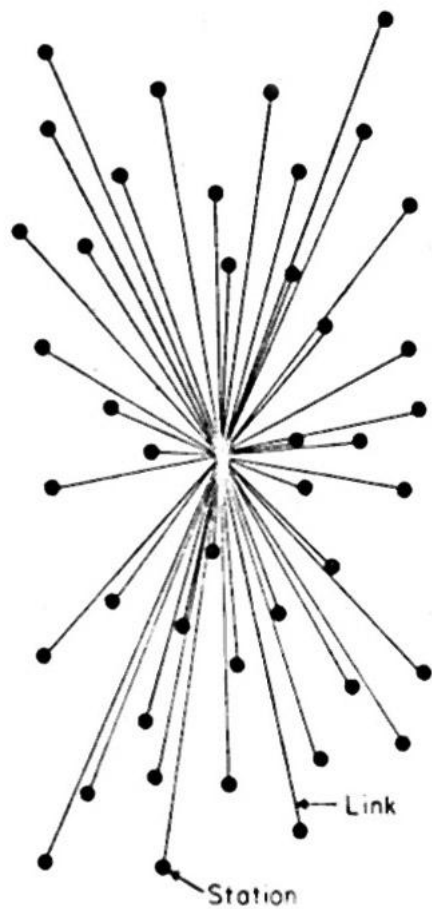


**Data plans in some countries can cost upwards of 10% of a typical user's monthly income....
Data costs can be up to 10x per capita when compared to EU cost.**

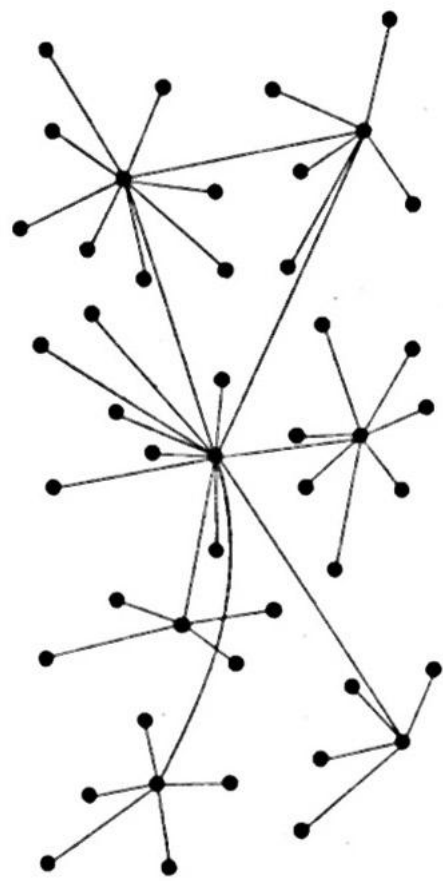
Centralized
Fragile
Expensive
Censored
Surveilled
Not Neutral



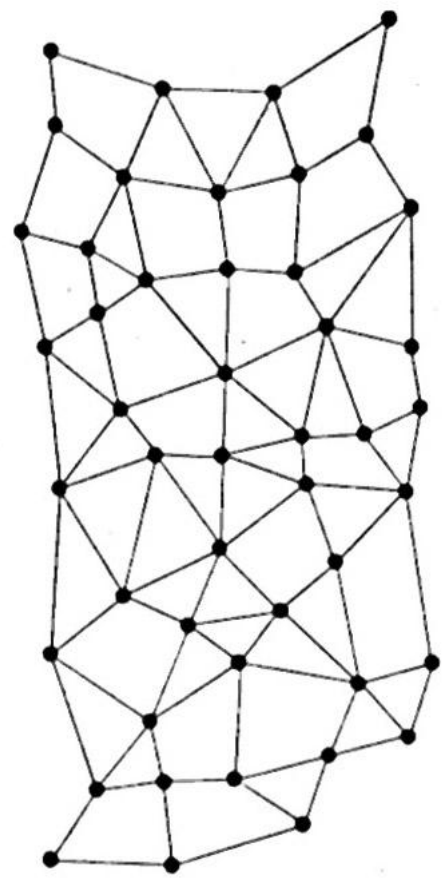
The ARPANET in December 1969



CENTRALIZED
(A)



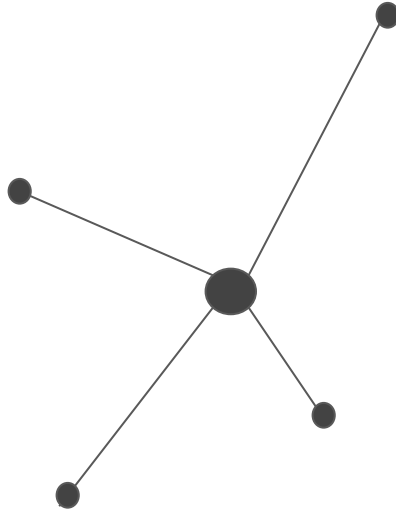
DECENTRALIZED
(B)



DISTRIBUTED
(C)

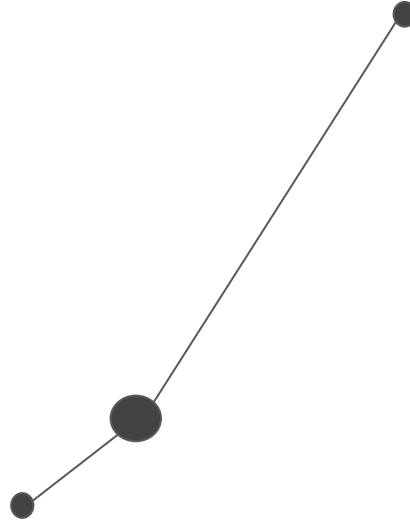
Paul Baran 1962

CENTRALIZED OVER TIME AND MOTION



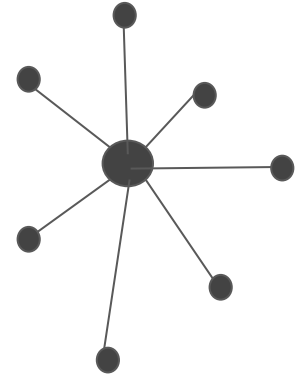
Time X_0

Place Y_0



Time X_1

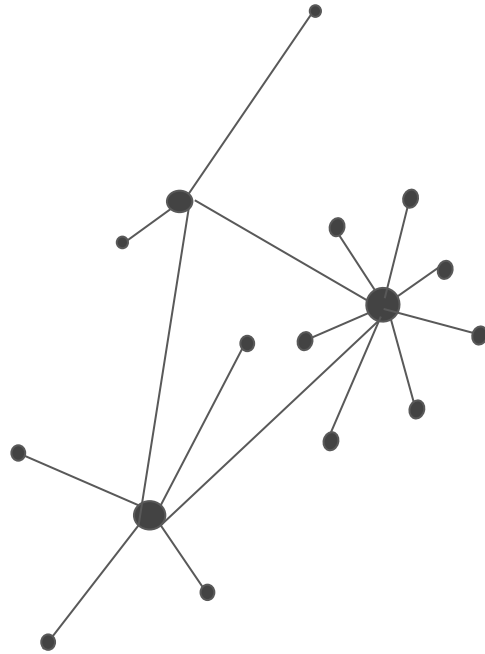
Place Y_1



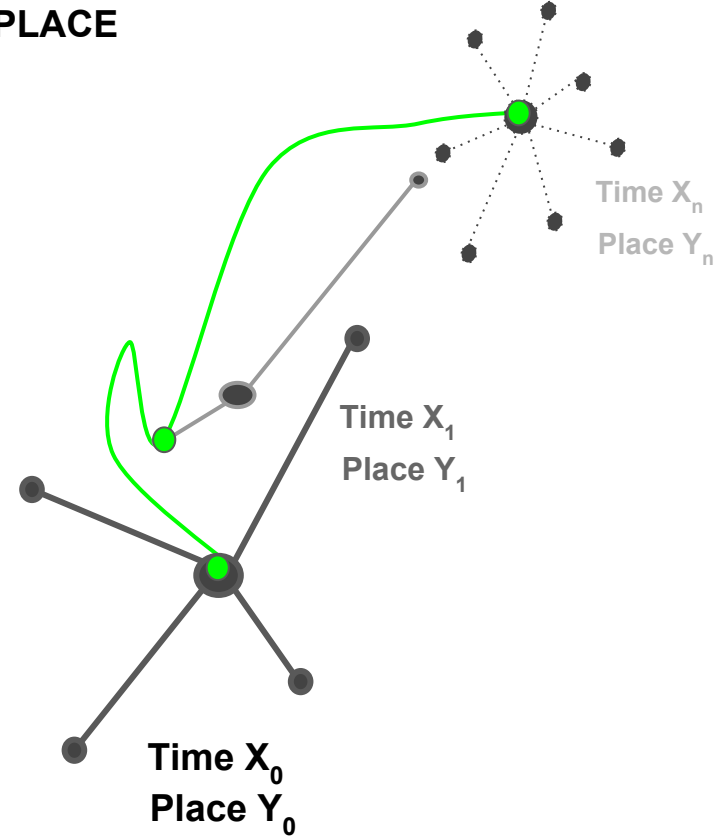
Time X_N

Place Y_N

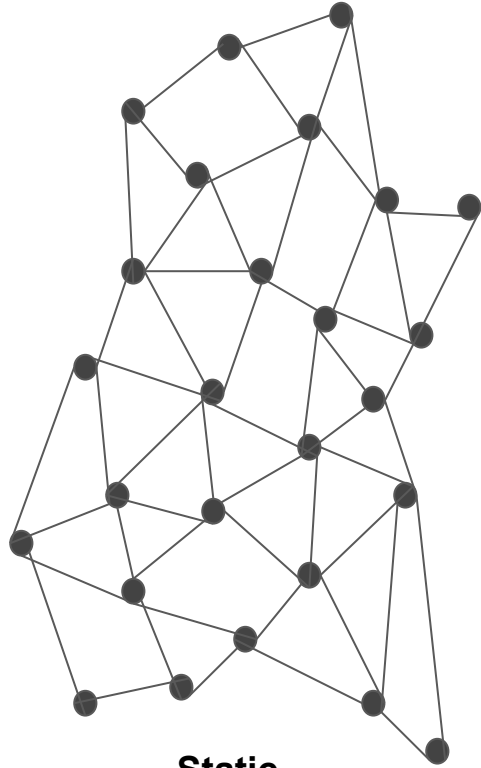
**DECENTRALIZED WITH CHANGE FROM
HUB TO SPOKE TO HUB
OVER TIME AND PLACE**



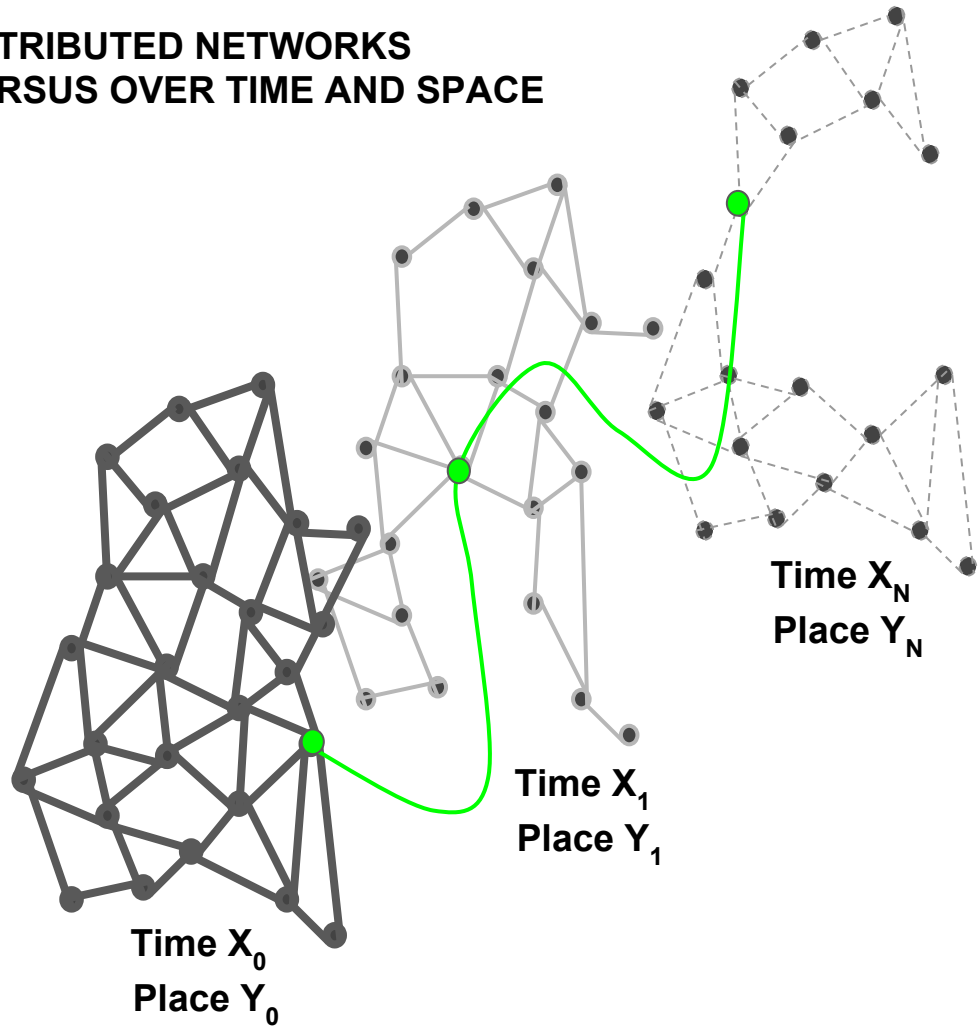
Static



DISTRIBUTED NETWORKS STATIC VERSUS OVER TIME AND SPACE



Static









“JFK Ranked Worst Airport For Infectious Disease”

MIT Study of Airports and Infectious Disease 2012

<https://scientificearthconscientious6.wordpress.com/2012/07/24/1894new-model-of-disease-contagion-ranks-u-s-airports-in-terms-of-their-spreading-influence-airports-in-new-york-los-angeles-and-honolulu-a-re-judged-likeliest-to-play-a-significant-role-in-the-grow/>

Wind is a characteristic of a network that is shaped by the movements and density of people in time and space

A windy network has no expectation of
any centralized, static infrastructure

A windy network requires no permissions
by authorities or coordinated roll-out of
infrastructure





Cuba's El Paquete Semanal "The Weekly Package"



App Stores in Cuba

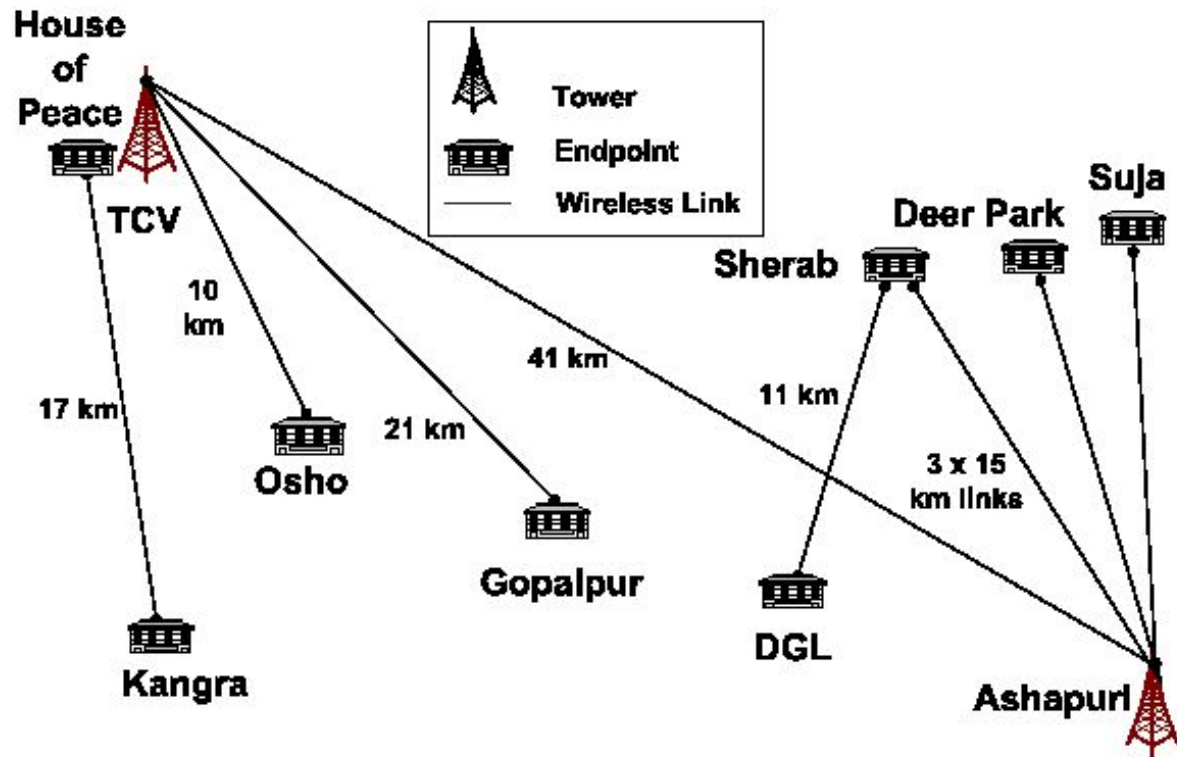
<https://fdroid.gitlab.io/fdroid-website/en/2017/07/03/cuba.html>





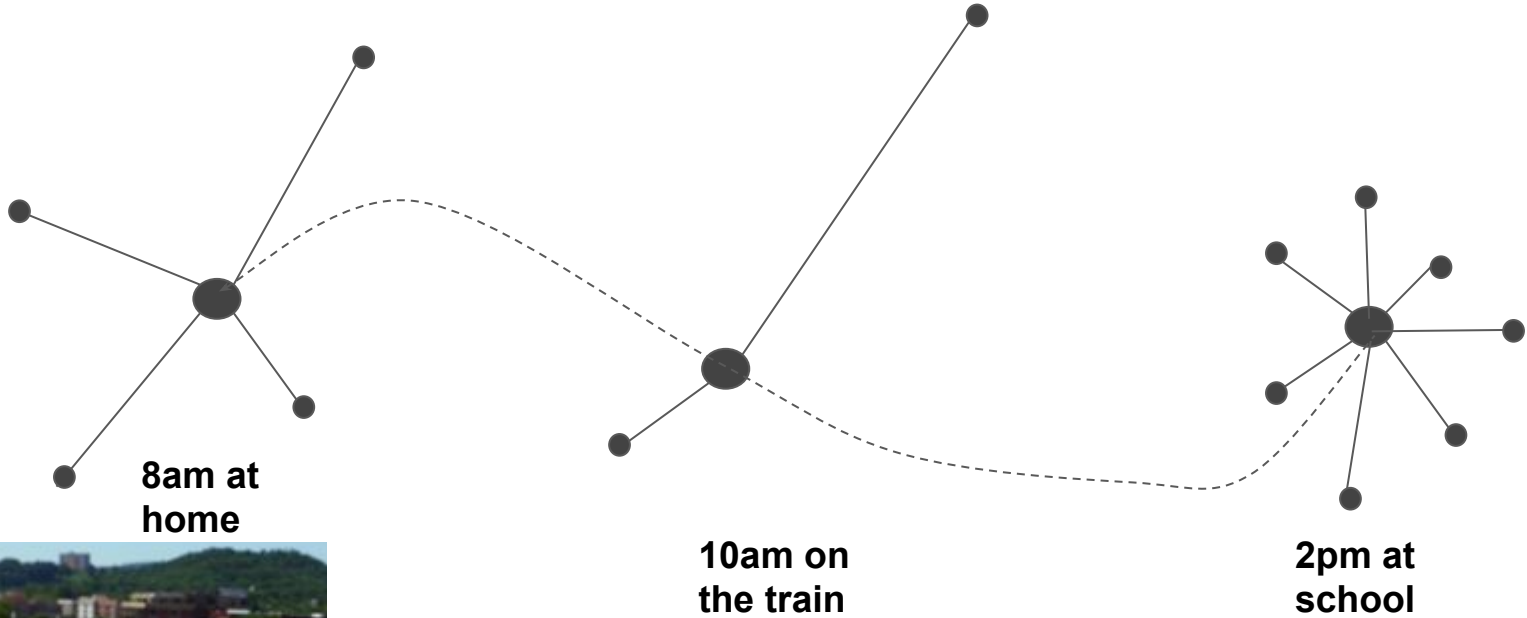
Toosheh: Uncensored Content for Iran via Consumer Satellite





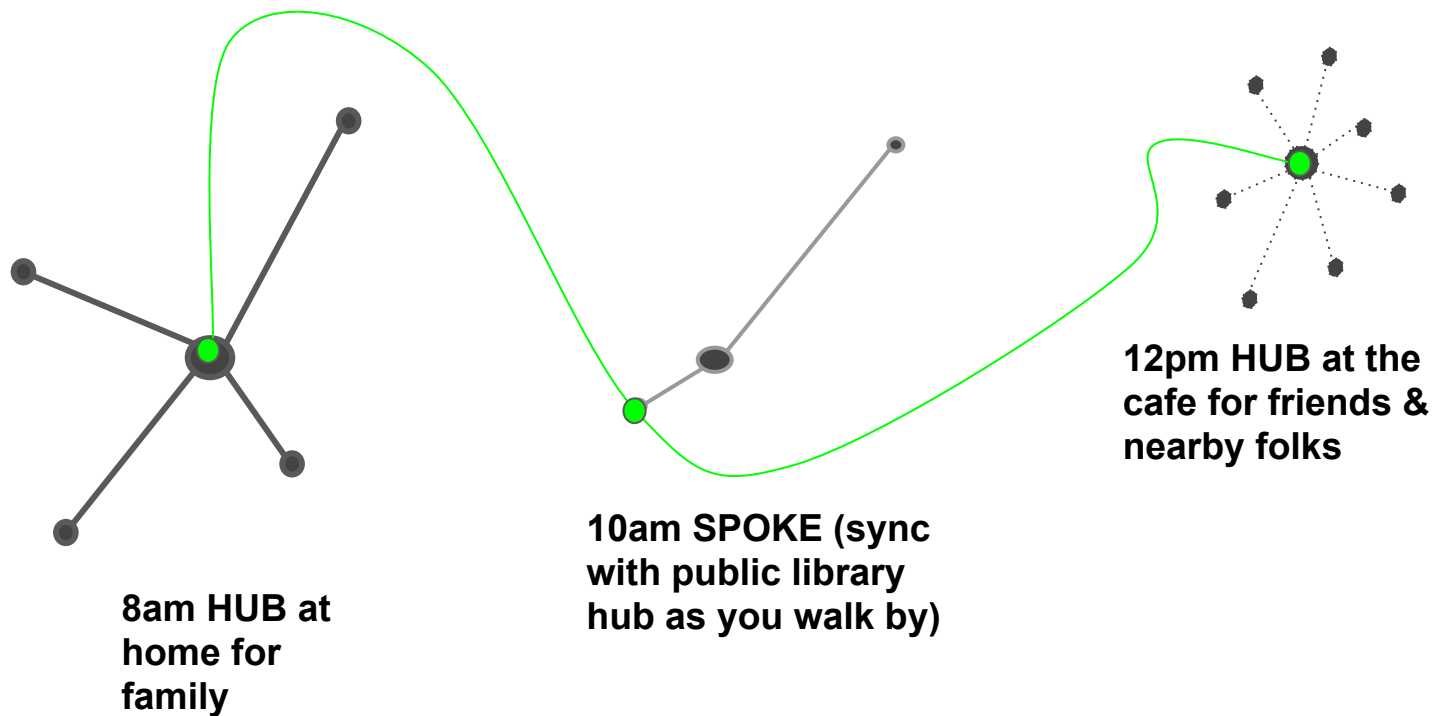


THE GRIFFEY-NET aka <http://librarybox.us/>



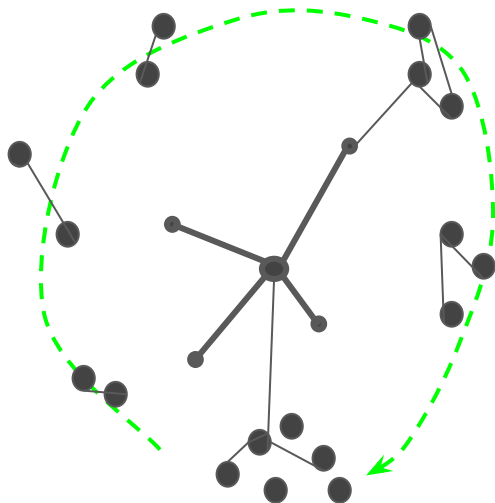
***Jason Griffey's "Library Box in the Backpack" Network
Centralized but Dynamic Over Place and Times***

LIBRARY BOXEN CONTENT SYNCHRONIZATION

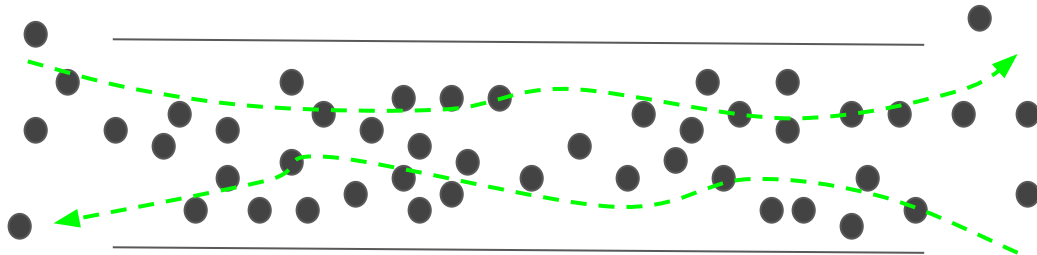




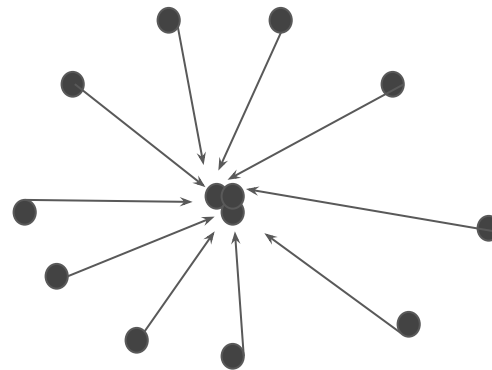
The Temple, the Causeway and the Meetup



Temple



Causeway



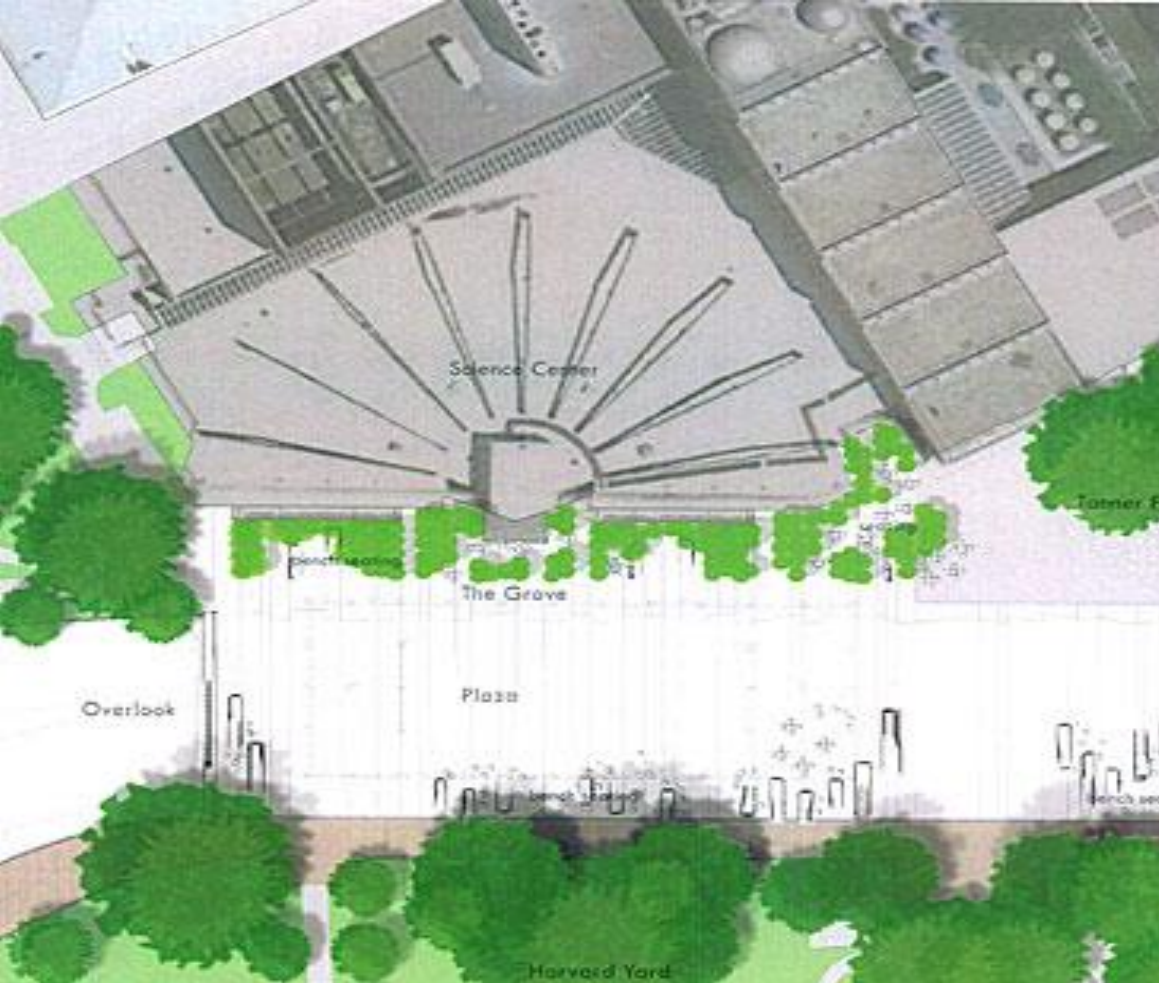
Meetup

The strength of a Wind network is dependent on the number of nodes connected over time and space, the density of nodes, and how their velocity and bearing is changing

Temple









<https://www.flickr.com/photos/usdagov/10446234114>



facebook.

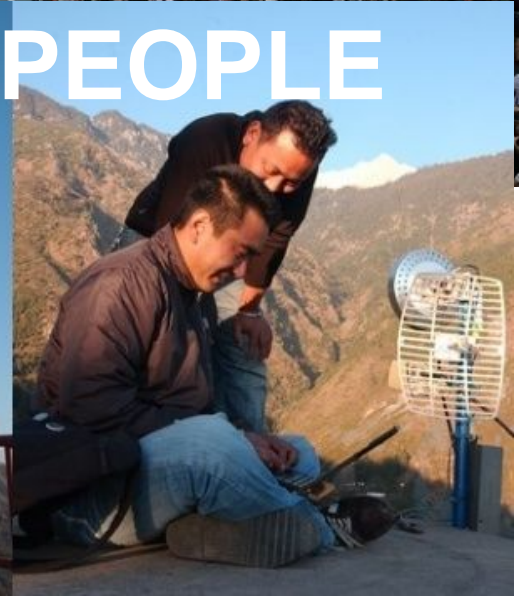
 Loon
for all







NETWORKS ARE MADE OF PEOPLE





NETWORKS ARE MADE OF PEOPLE

(OFTEN WEARING SNEAKERS!)