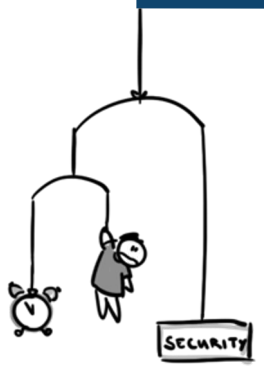

13 Propositions on an Internet for a "Burning World"

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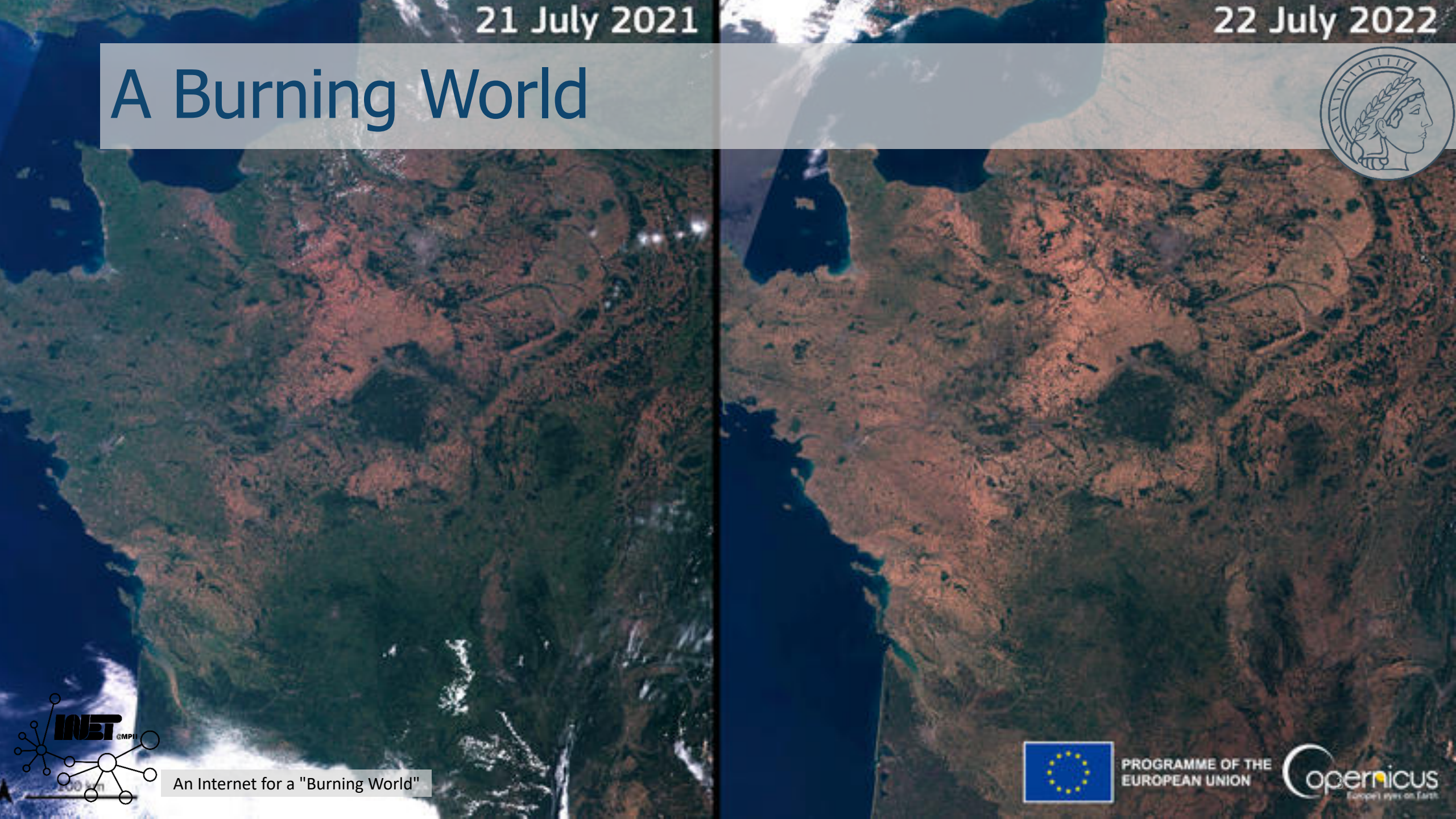
Max-Planck-Institut für Informatik

Doris Aschenbrenner

Aalen University

A Burning World

By Cameron Strandberg from Rocky Mountain House, Alberta, Canada - DSC_7139, CC BY 2.0, https://commons.wikimedia.org/w/index.php?curid=12424098



A Burning World

An Internet for a "Burning World"

PROGRAMME OF THE EUROPEAN UNION

A Burning World

By Unknown - https://pixabay.com/photos/factory-industry-1647724/, CC0, https://commons.wikimedia.org/w/index.php?curid=112962402

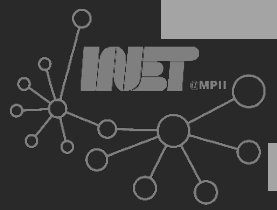
A Burning World

By Mvs.gov.ua, CC BY 4.0, https://commons.wikimedia.org/w/index.php?curid=115887390

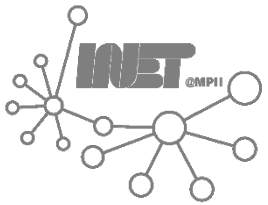
On Examples and Sides

"Everyone is necessarily the hero of [their] own life story."

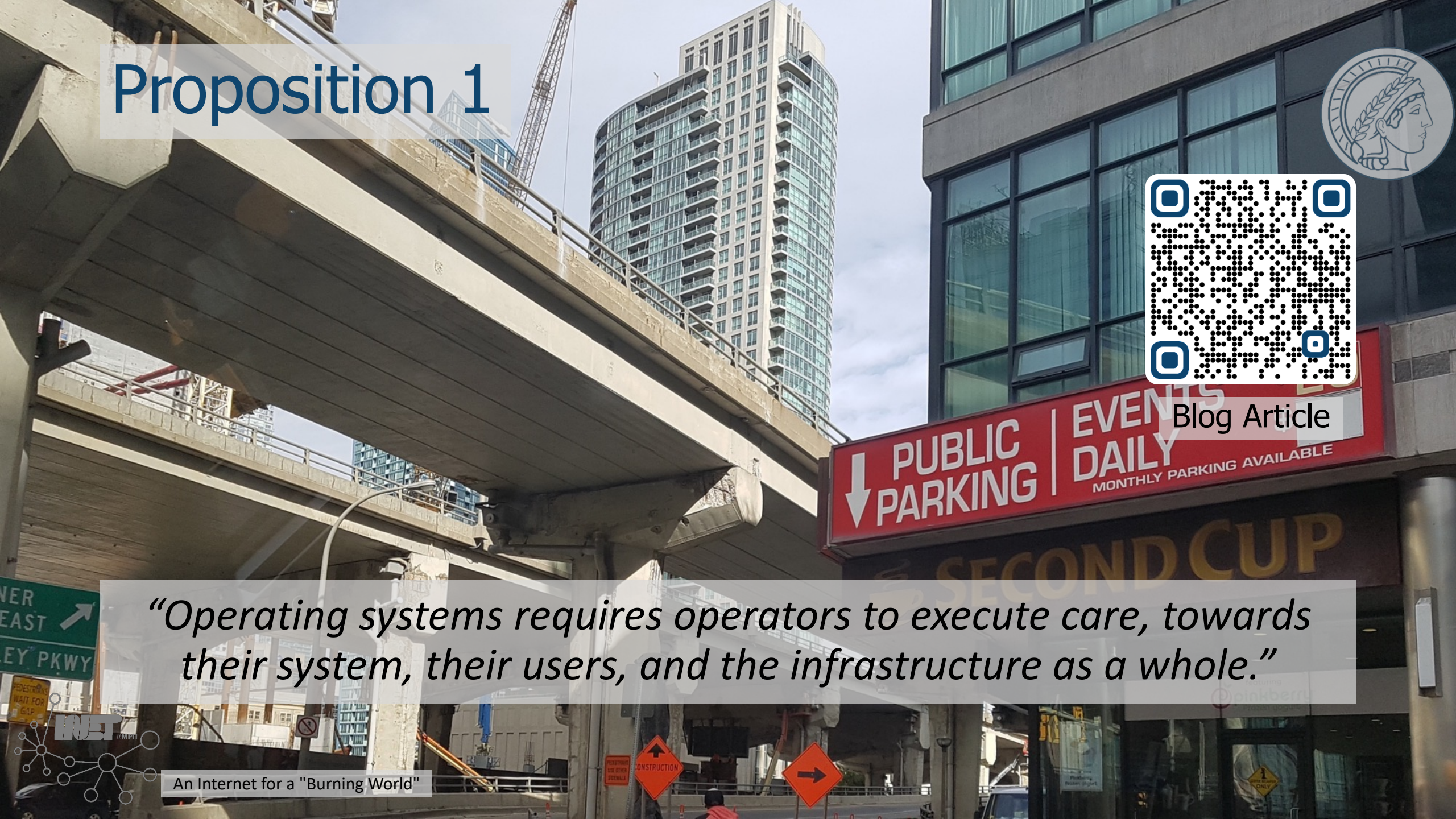
- John Barth, "The Remobilization of Jacob Horner", 1958.



Part 1: Care & Centralization



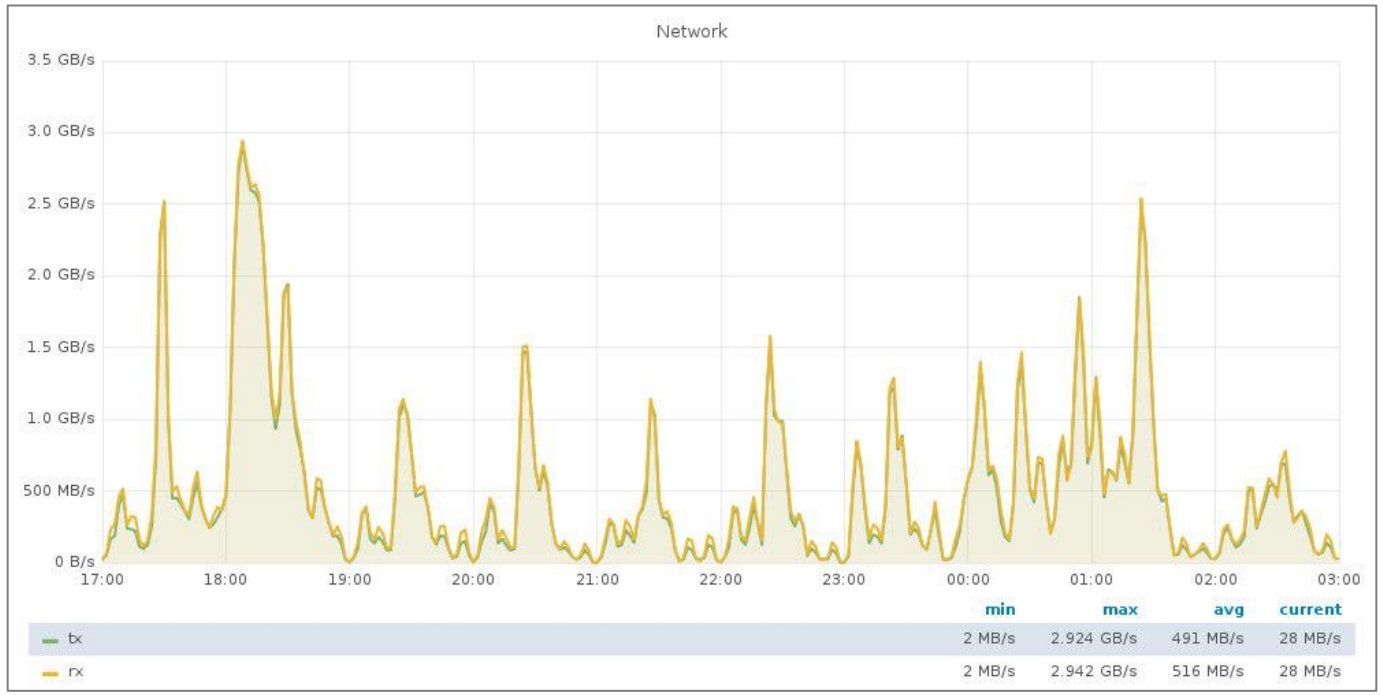
Proposition 1



Blog Article

“Operating systems requires operators to execute care, towards their system, their users, and the infrastructure as a whole.”

Proposition 2



Blog Article

“The centralization of the Internet has been promoted by a lack of care.”

https://commons.wikimedia.org/wiki/File:Network_traffic_during_September_2019_DDoS_attack_on_Wikipedia_%28small%29.jpg

Proposition 3

Blog Article

© Constanze Dietrich

“There is a tension between privacy and security pitting decentralization vs. centralization.”

Proposition 4

Blog Article

“Centralization and profit are inherently incompatible with care for infrastructures.”

By Jericho - hard money lender, CC BY 3.0, https://commons.wikimedia.org/w/index.php?curid=11480660

Proposition 5

Blog Article

“We have to be prepared for hypergiants’ failing.”

Hypergiant Star HR 5171 by ESO/Digitized Sky Survey 2, CC BY 4.0, https://commons.wikimedia.org/w/index.php?curid=31577291

Proposition 5

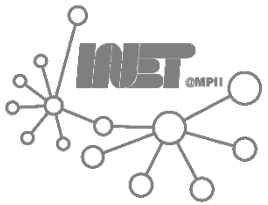
Blog Article

“We have to be prepared for hypergiants’ failing.”

An Internet for a "Burning World"

Artist’s Impression of Supernova 1993J by ESA/Hubble, CC BY 4.0, https://commons.wikimedia.org/w/index.php?curid=35306789

Part 2: What's Coming



Proposition 6

Blog Article

“Communities caring for local and distributed infrastructure are the future in a world falling apart.”

By Stougard - Own work, CC BY-SA 3.0, https://commons.wikimedia.org/w/index.php?curid=8922390

Proposition 8

Blog Article

© Constanze Dietrich

“In a burning world, functionality is more important than security, but remains trumped by safety.”

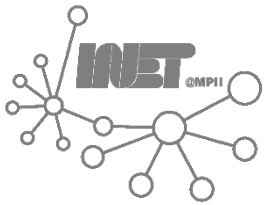
Proposition 9

Blog Article

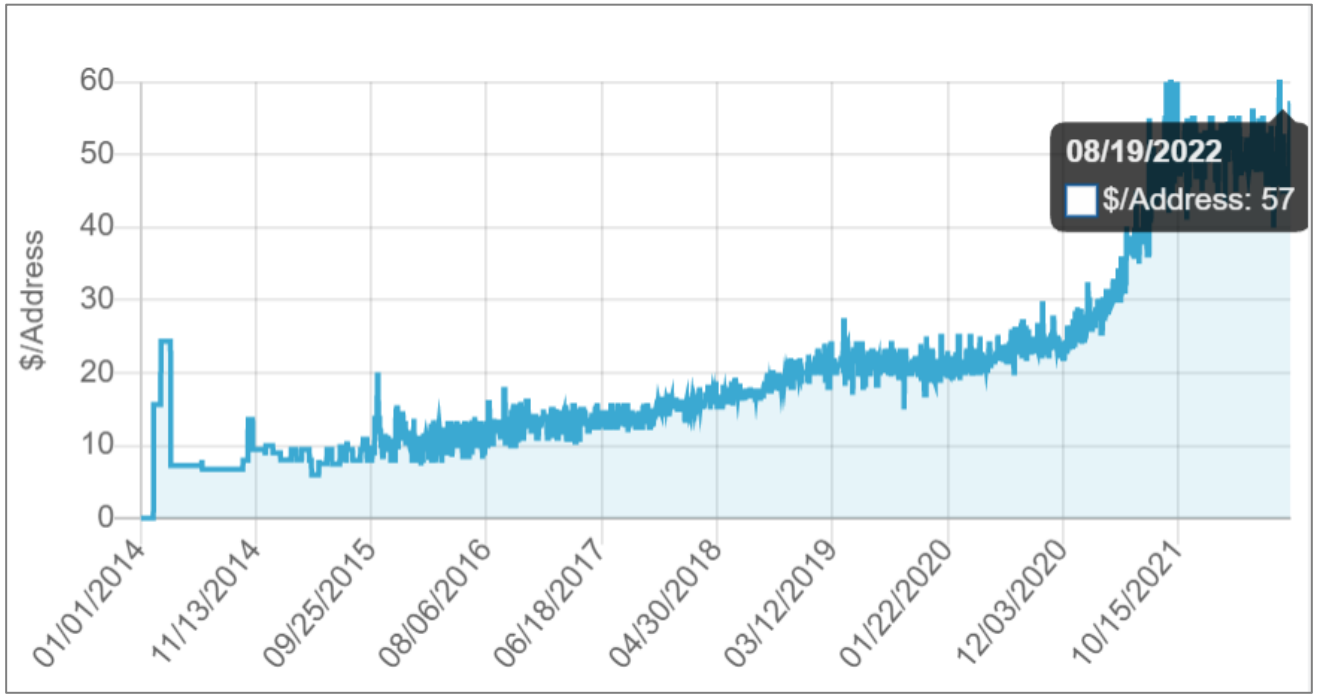
© Constanze Dietrich

“Systems that are too complex to be understood by a single person cannot be sustainable.”

Part 3: The Path



Proposition 7

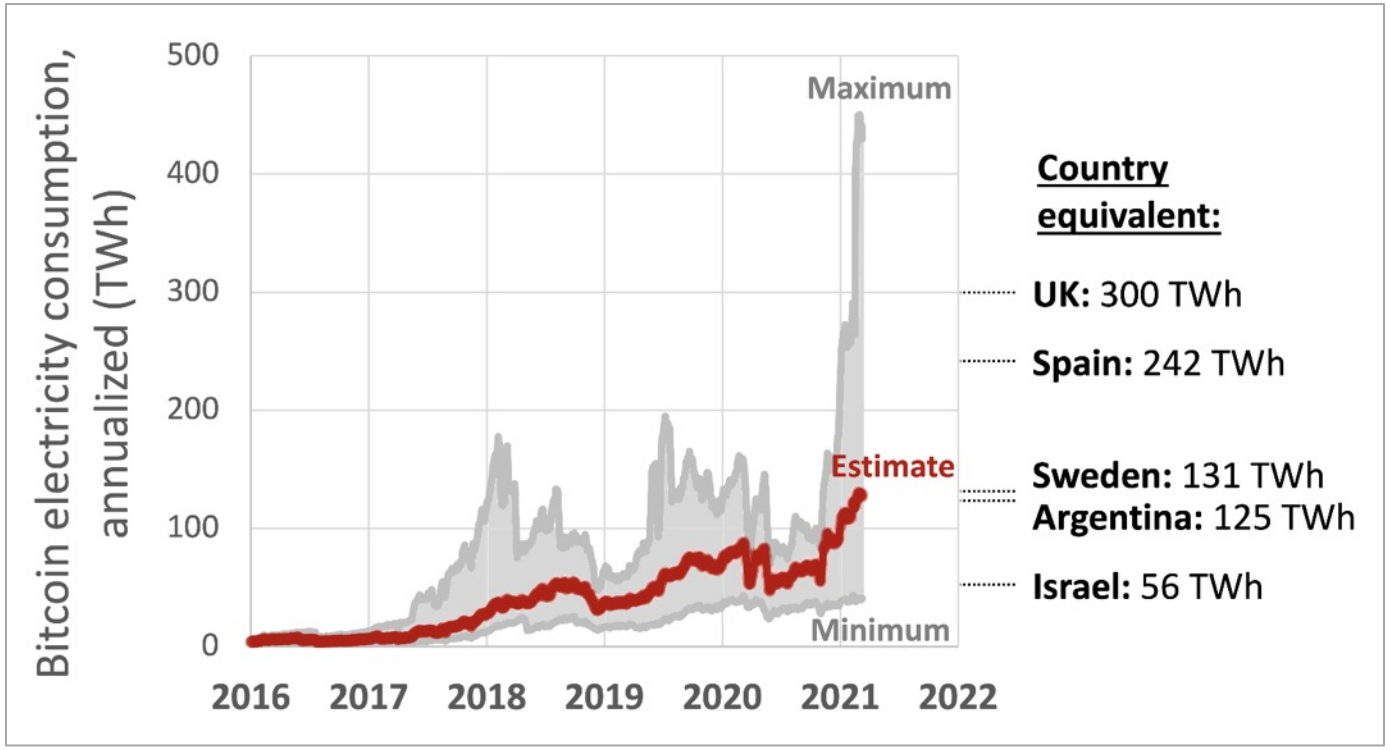


Blog Article

"The slow adoption of IPv6 hinders a re-decentralization of the Internet."

Screenshot from: https://auctions.ipv4.global/prior-sales

Proposition 10

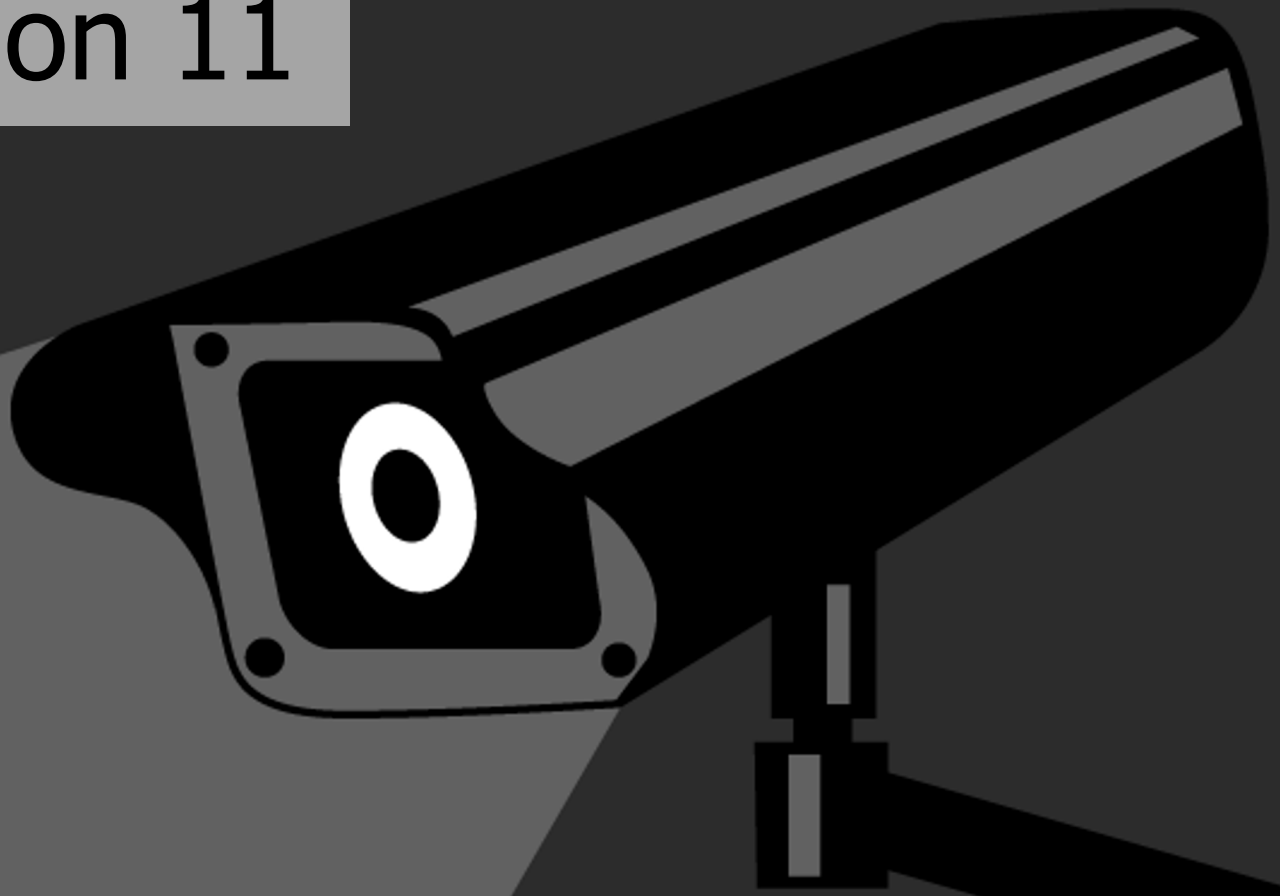


Blog Article

"Systems should enable a better tomorrow and not burn the world even further."

https://commons.wikimedia.org/wiki/File:Bitcoin_electricity_consumption.png

Proposition 11

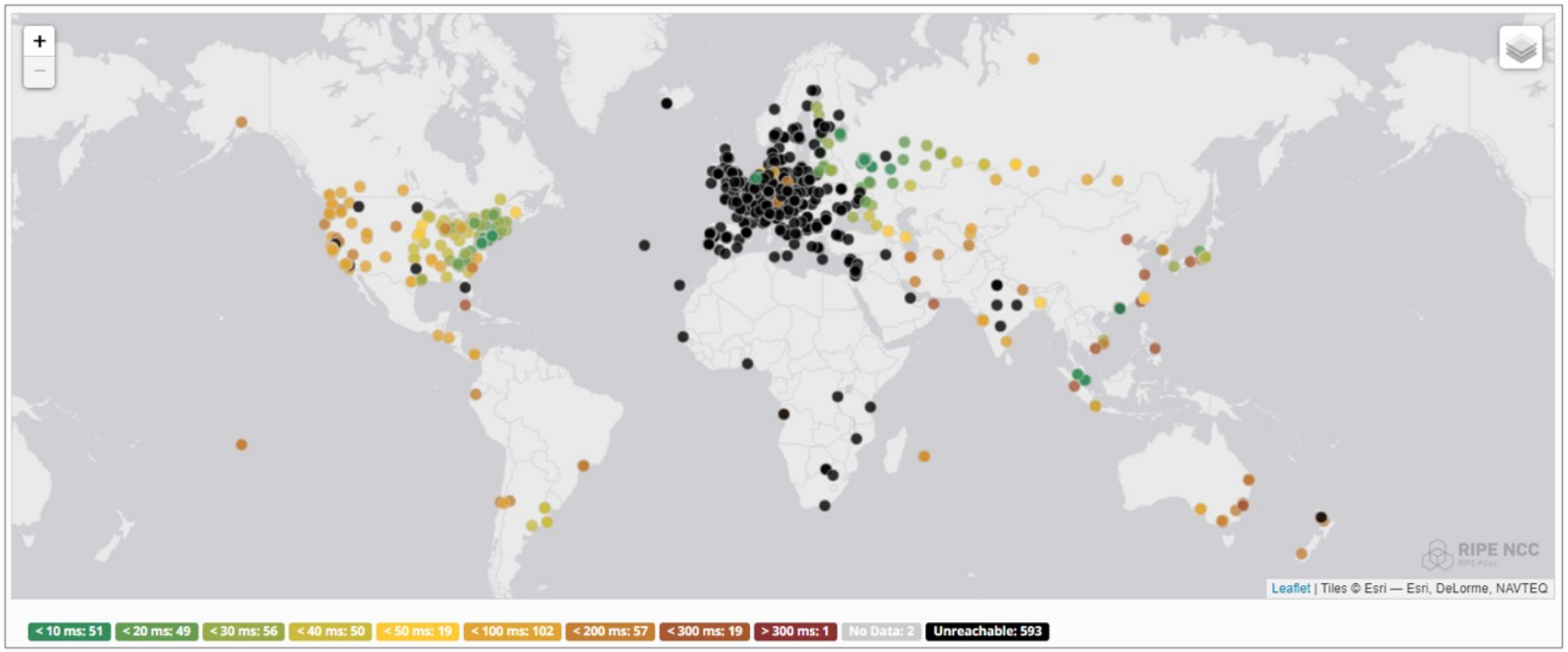


Blog Article

“There are no technical solutions for social and societal problems.”

https://www.eff.org/pages/surveillance-cameras

Proposition 12



Blog Article

"Internet sanctions: What once has been thought can never be taken back. The Internet will be falling apart."

Screenshot of RIPE Atlas measurements at: https://atlas.ripe.net/measurements/40859682/#map

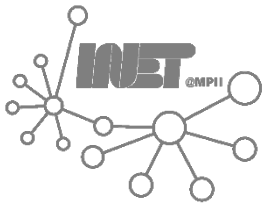
Proposition 13

Blog Article

“Digital sovereignty is being used wrong.”

By FastLizard4 - Own work, CC BY-SA 3.0, https://commons.wikimedia.org/w/index.php?curid=17177042

Part 4: What Now?



The future won’t be bright…

By Andrew Miloshoff - Own work, CC BY-SA 4.0, https://commons.wikimedia.org/w/index.php?curid=89976070

The future won’t be bright…

…as engineers it’s our job to make it brighter.

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A colleague will fix it. It might be you.

SSSCIP Ukraine: https://twitter.com/dsszzi/status/1501659618954645508

Taking Responsibility