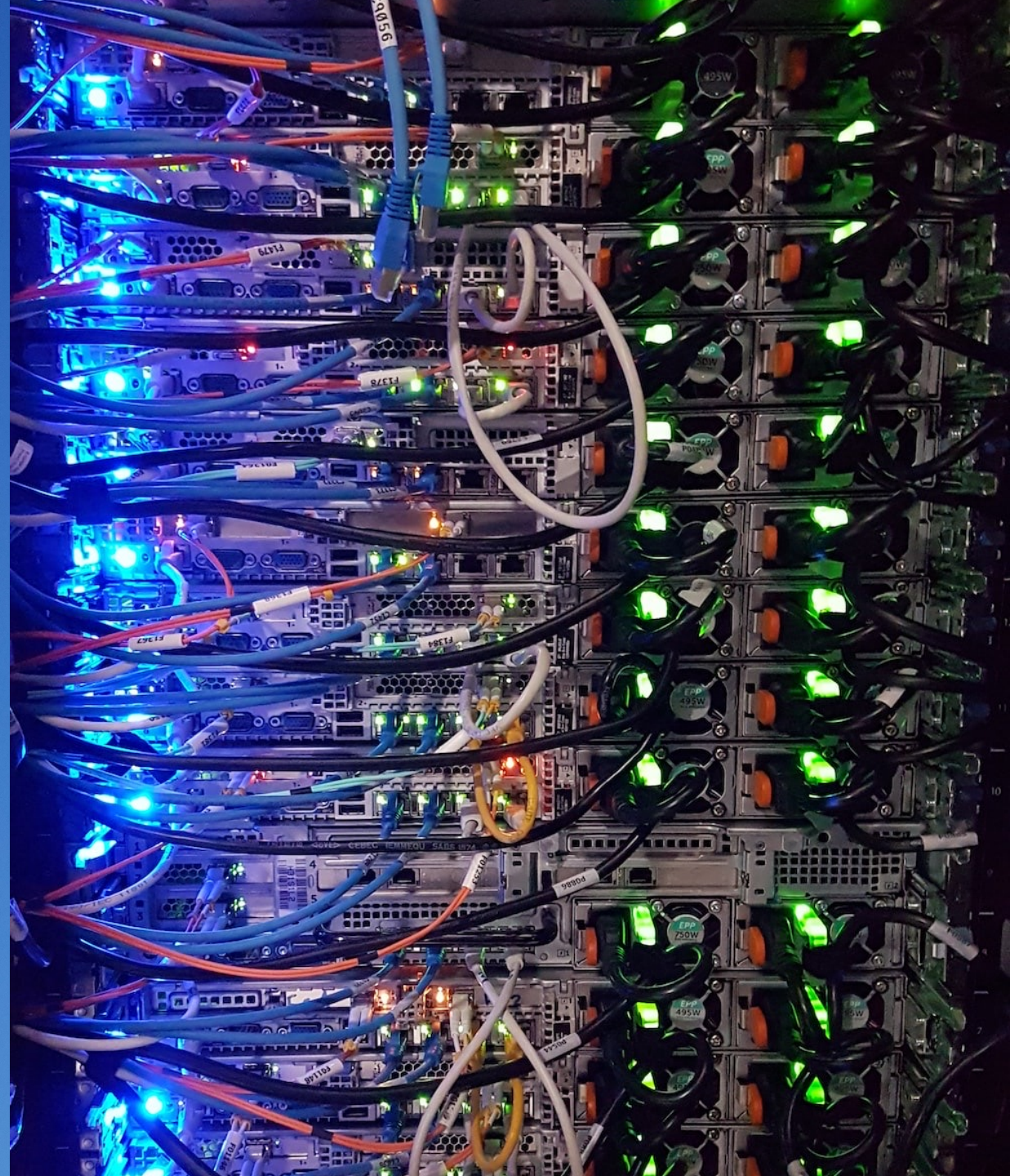


Who owns the Internet?

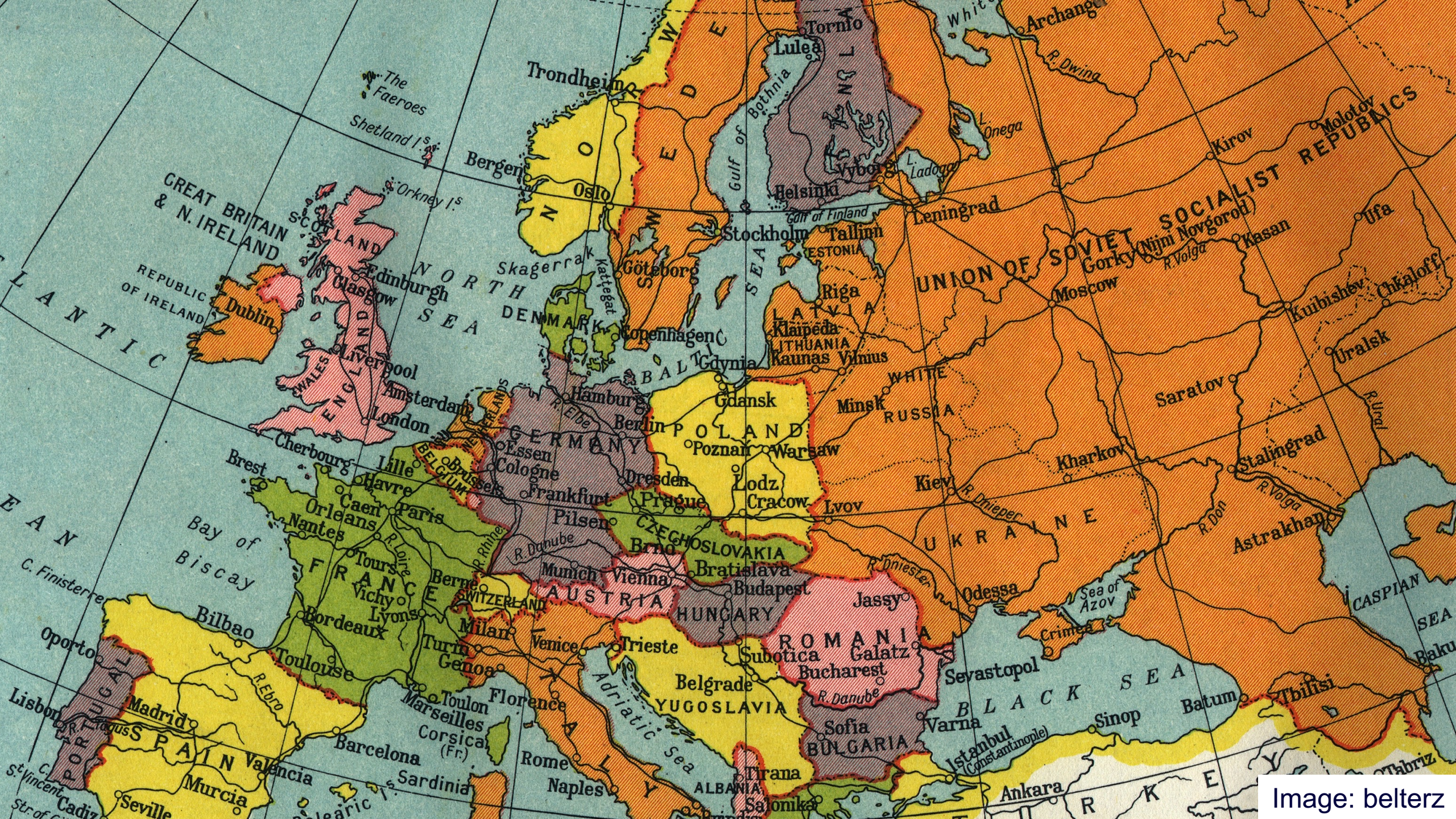
Victoria Baines, IT Livery Company Professor of IT





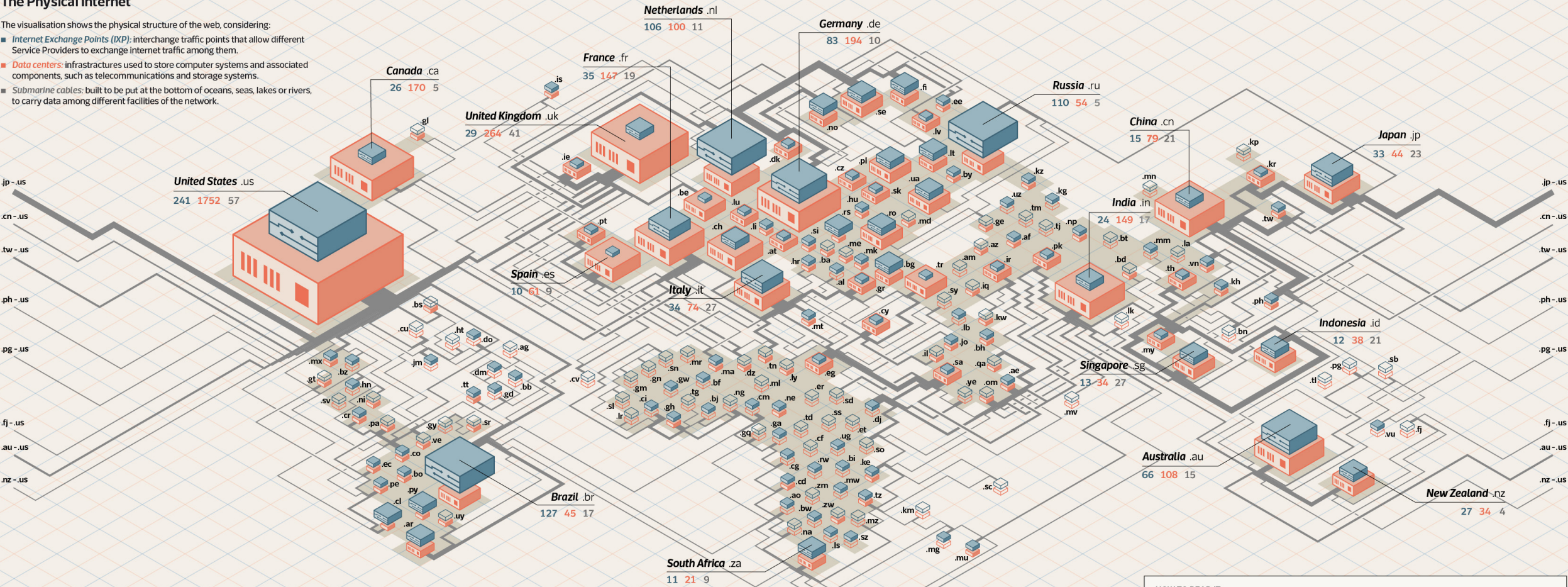






The Physical Internet

- The visualisation shows the physical structure of the web, considering:
- **Internet Exchange Points (IXP)**: interchange traffic points that allow different Service Providers to exchange internet traffic among them.
 - **Data centers**: infrastructures used to store computer systems and associated components, such as telecommunications and storage systems.
 - **Submarine cables**: built to be put at the bottom of oceans, seas, lakes or rivers, to carry data among different facilities of the network.



INTERNET DOMAINS

A ae United Arab Emirates - **af** Afghanistan - **ag** Antigua and Barbuda - **al** Albania - **am** Armenia - **ao** Angola - **ar** Argentina - **at** Austria - **az** Azerbaijan - **b** ba Bosnia and Herzegovina - **bb** Barbados - **bd** Bangladesh - **be** Belgium - **bf** Burkina Faso - **bg** Bulgaria - **bh** Bahrain - **bi** Burundi - **bj** Benin - **bn** Brunei - **bo** Bolivia - **bs** Bahamas - **bt** Bhutan - **bw** Botswana - **by** Belarus - **bz** Belize - **cd** Dem. Rep. of Congo - **cf** Central African Rep. - **cg** Republic of Congo - **ch** Switzerland - **ci** Cote d'Ivoire - **cl** Chile - **cm** Cameroon - **co** Colombia - **cr** Costa Rica - **cu** Cuba - **cv** Cape Verde - **cy** Cyprus -

cz Czech Republic - **d** dj Djibouti - **dk** Denmark - **dm** Dominica - **do** Dominican Republic - **dz** Algeria - **e** ec Ecuador - **ee** Estonia - **eg** Egypt - **er** Eritrea - **et** Ethiopia - **f** fi Finland - **fj** Fiji - **g** ga Gabon - **gd** Grenada - **ge** Georgia - **gh** Ghana - **gl** Greenland - **gm** Gambia - **gn** Guinea - **gq** Equatorial Guinea - **gr** Greece - **gt** Guatemala - **gw** Guinea-Bissau - **gy** Guyana - **h** hn Honduras - **hr** Croatia - **ht** Haiti - **hu** Hungary - **i** ie Ireland - **il** Israel - **iq** Iraq - **ir** Iran - **is** Iceland - **j** jm Jamaica - **jo** Jordan - **k** ke Kenya - **kg** Kyrgyzstan - **kh** Cambodia - **km** Comoros - **kr** South Korea - **kw** Kuwait -

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HOW TO READ IT:

N/A Data Center or Internet Exchange Point

Number of Internet Exchange Points

Number of Data Centers

Number of Submarine Cables

Thickness = number of Submarine Cables

1 15 ...

Dimension = number of Data Centers and Internet Exchange Points

0 - 10

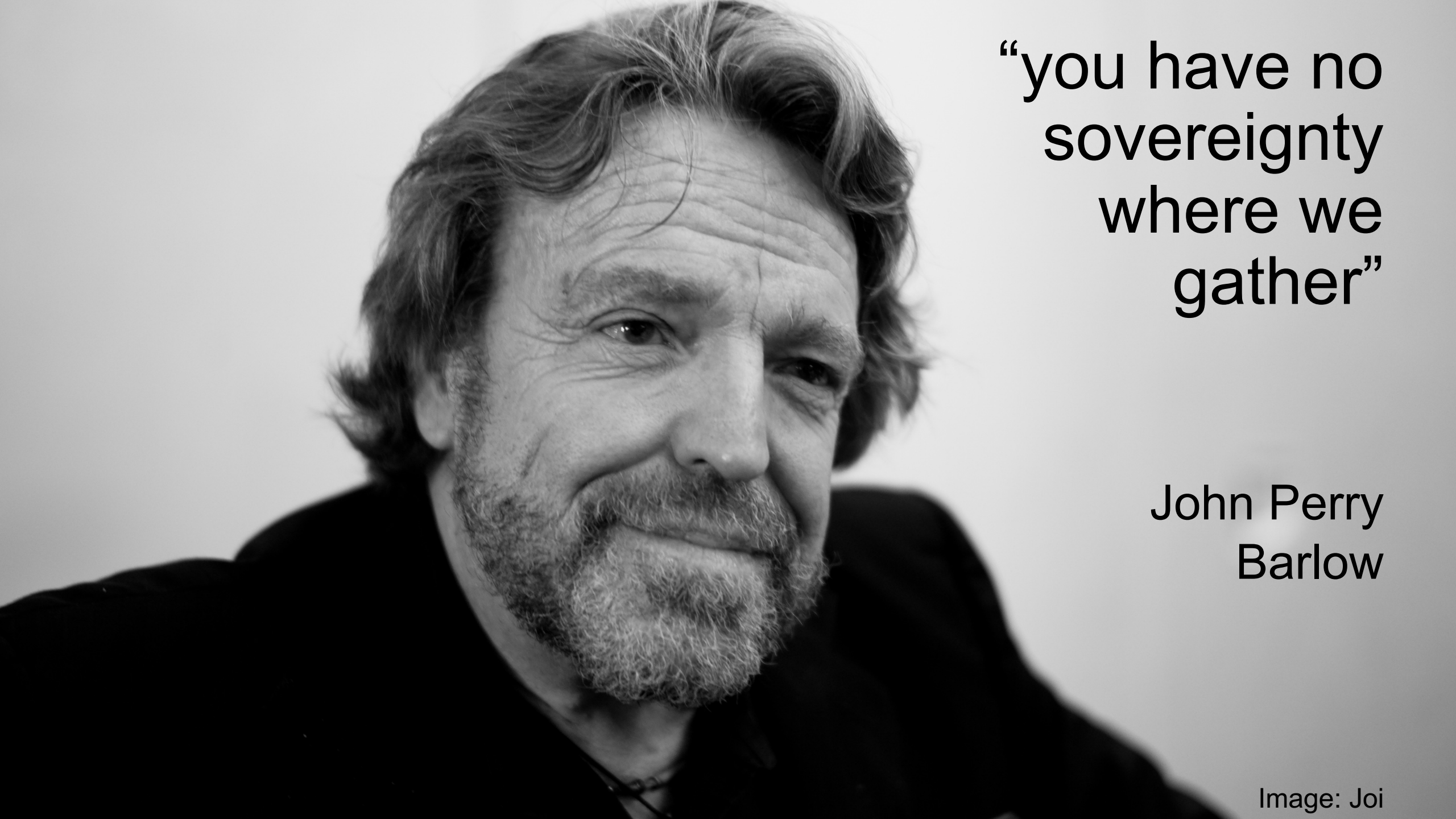
60 - 100

210 - 290

Background color = mainland borders

Beatrice Bazzan, Allegra Colombo, Martina Giordano, Gianluca Misto, Ludovica Piro, Irina Stosjic (2020)

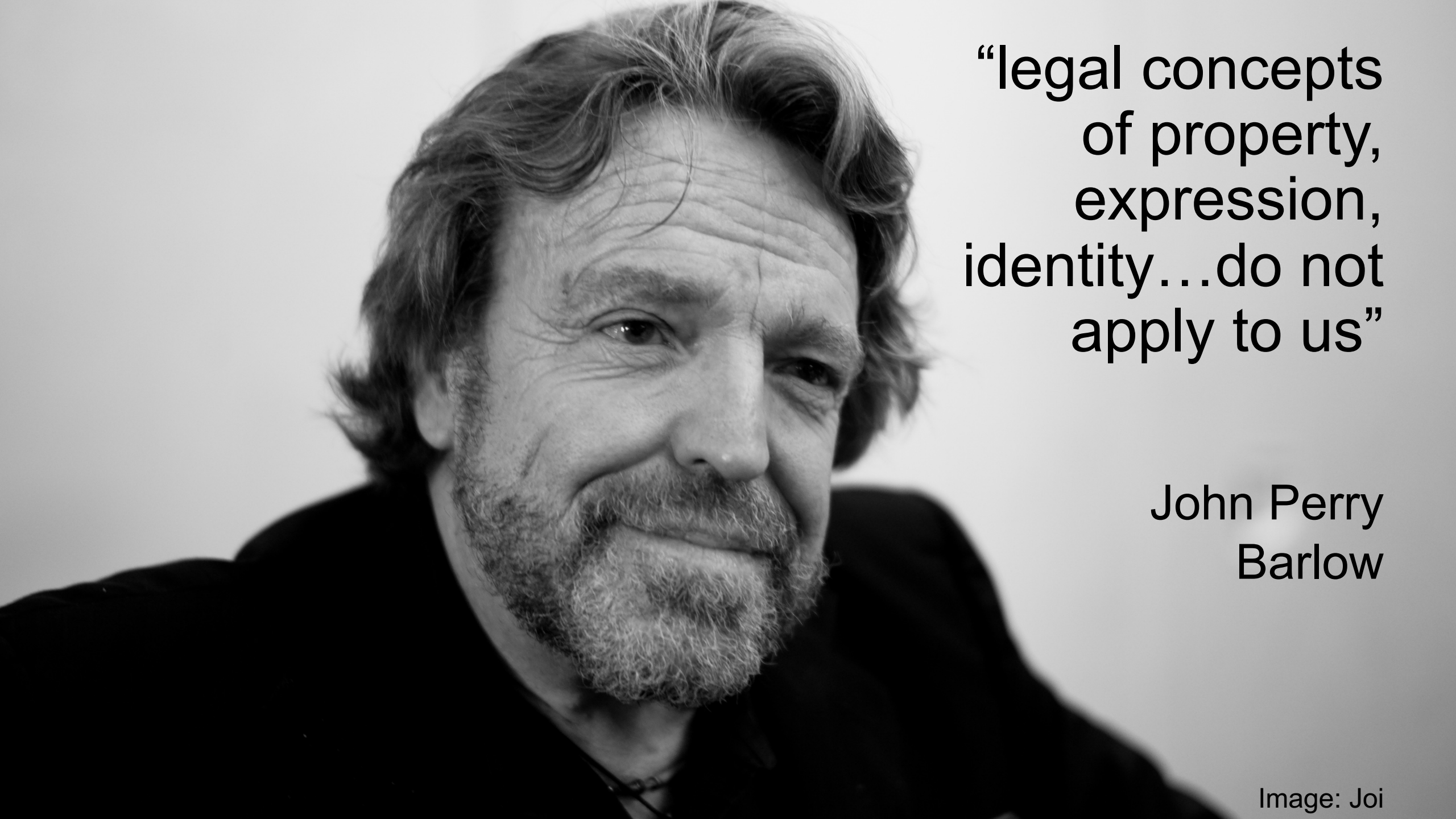




“you have no
sovereignty
where we
gather”

John Perry
Barlow

Image: Joi

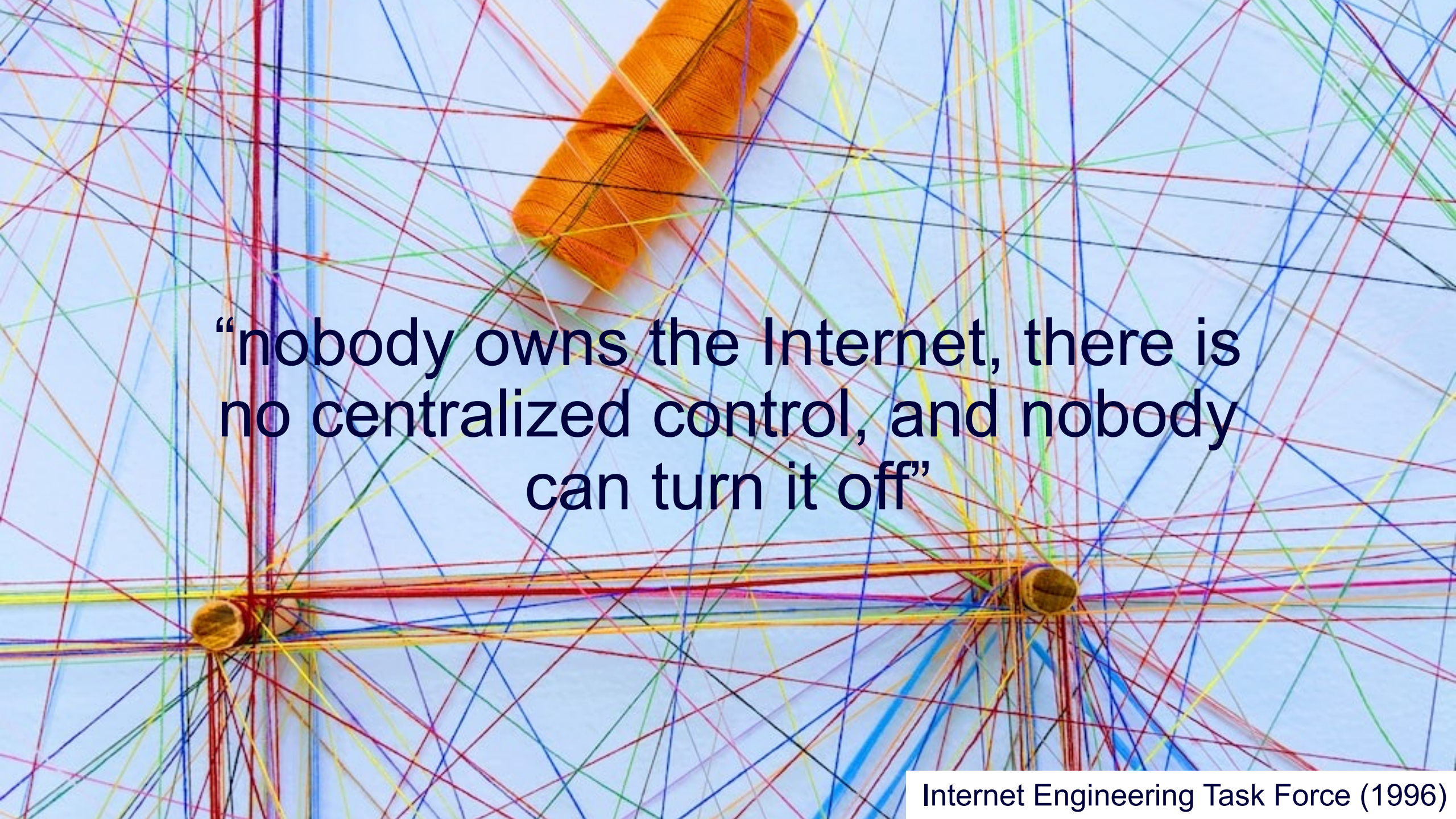


“legal concepts
of property,
expression,
identity...do not
apply to us”

John Perry
Barlow

Image: Joi

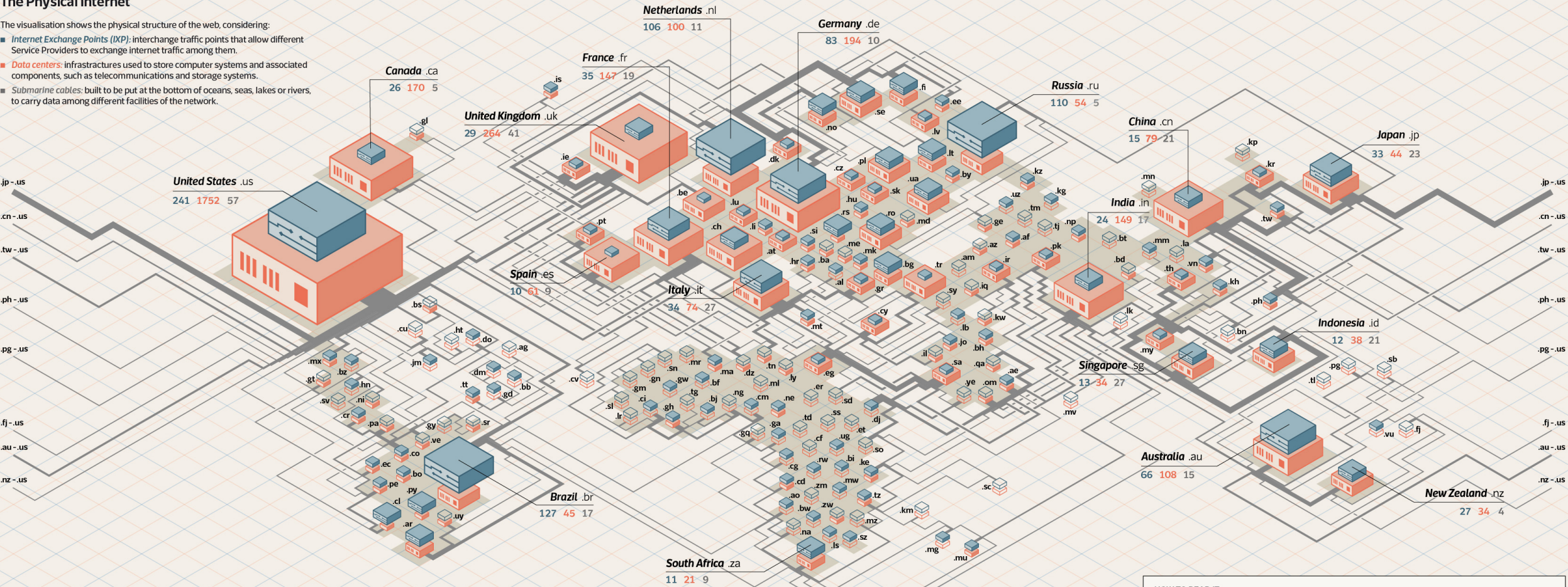




**“nobody owns the Internet, there is
no centralized control, and nobody
can turn it off”**

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Beatrice Bazzan, Allegra Colombo, Martina Giordano, Gianluca Misto, Ludovica Piro, Irina Stosjic (2020)



Image:
Michael
Gonzalez

“a human creation that relies
on a combination of public and
private sector ownership,
operation, and protection”

Brad Smith
(2022)





191.168.1.254

1234:abcd:5678:efab:9012:cdef:3456:abcd

Requesting Country	Content Restriction Requests to Meta
Mexico	20,568
Germany	16,214
Argentina	9,098
Taiwan	5,646
Pakistan	5,600
Indonesia	4,038
Russia	3,099
Brazil	2,910
United Kingdom	2,645
Thailand	2,643

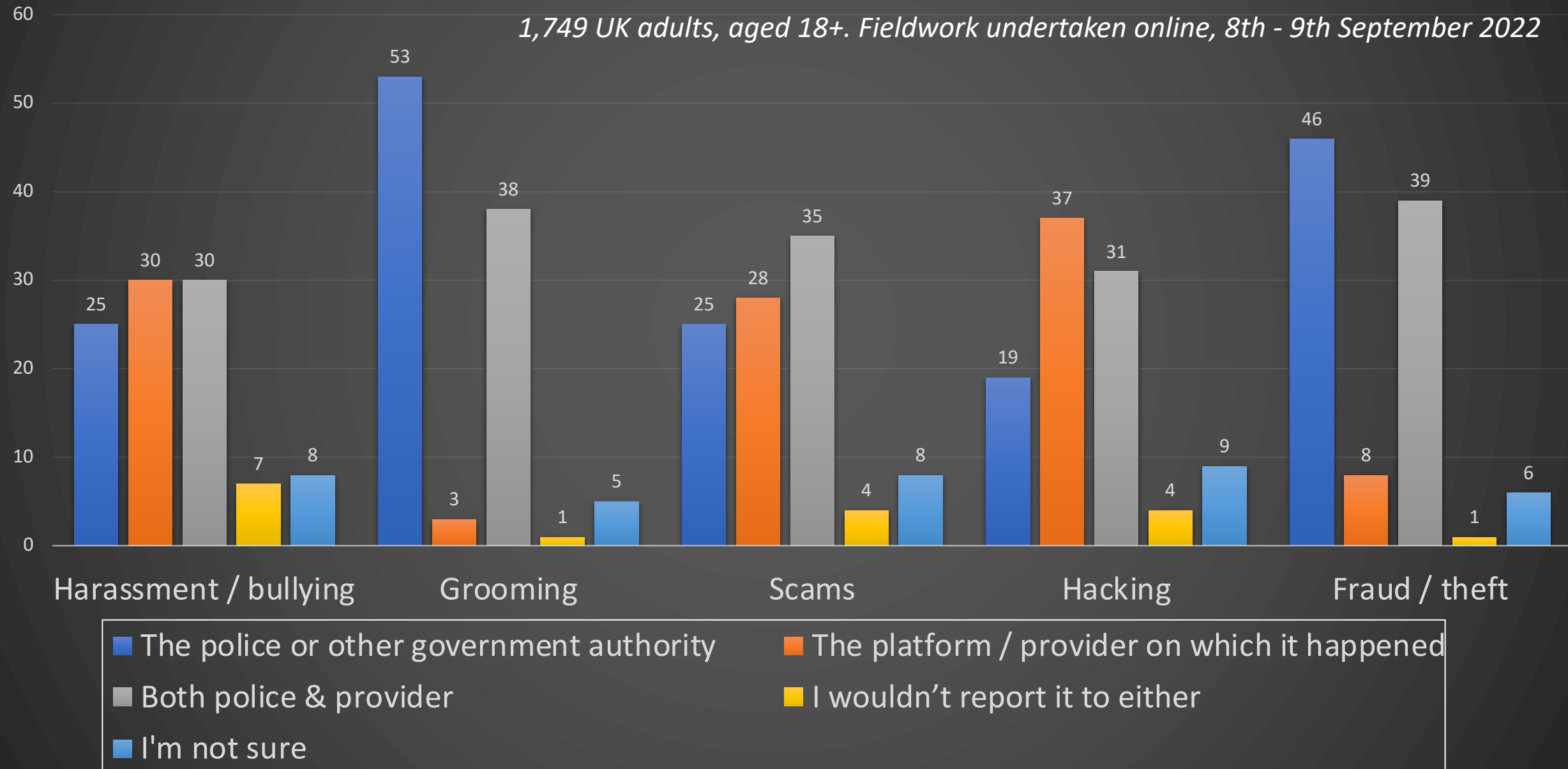
Data Source: transparency.fb.com





“Imagine you or a member of your family were a victim of the following online crimes. Who would you report this to?”

1,749 UK adults, aged 18+. Fieldwork undertaken online, 8th - 9th September 2022





Responsibility

Everyone is responsible for ensuring the stability of cyberspace.

Global Commission on the Stability of Cyberspace (2019)

Restraint


No state or non-state actor should take actions that impair the stability of cyberspace.

Global Commission on the Stability of Cyberspace (2019)

Requirement to Act

State or non-state actors should take reasonable and appropriate steps to ensure the stability of cyberspace.

Global Commission on the Stability of Cyberspace (2019)



Respect for Human Rights
Efforts to ensure the stability of
cyberspace must respect human rights
and the rule of law.

Global Commission on the Stability of Cyberspace (2019)



Responsibility

Everyone is responsible for ensuring the stability of cyberspace.

Global Commission on the Stability of Cyberspace (2019)



Have your say : be heard



Join at:
slido.com
#3093478

Permalink

<https://app.sli.do/event/7urr6Rnnrh2VccHy5vx5T6>

≡

Lecture 1 - Who Owns the Internet?

👤

💬 Q&A

📊 Polls

Who owns the Internet?

1/2

☐ The government

☐ The companies who run it

☐ All of us

☐ I'm not sure

Who should protect people on the Internet?

2/2

☐ The government

☐ The companies who run it

☐ All of us

☐ I'm not sure

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