



The transformational power of RENs

Technology, Culture, Economy and Society

Erik Huizer, CEO, GÉANT



Climate
change



Energy



Scarcity
of materials



Aging
population



Food
shortages

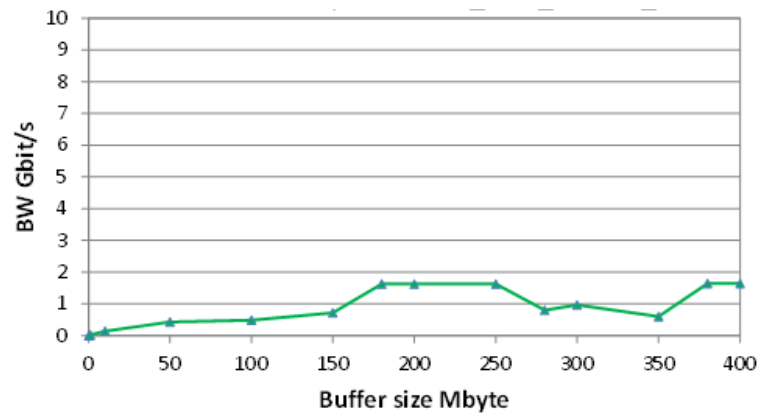


education The Internet esearch

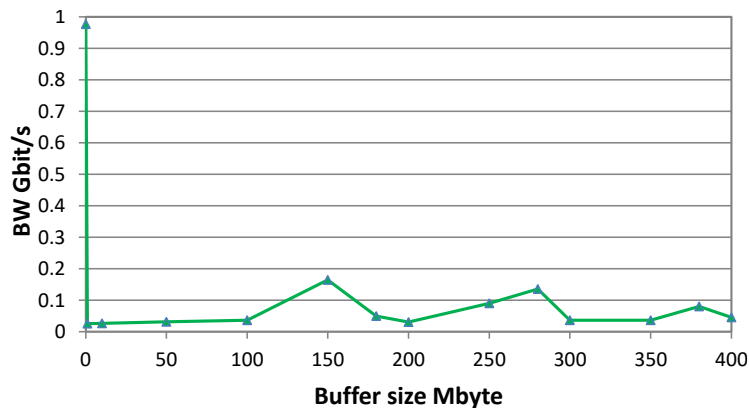
Optimised for research data transfers

Public Internet

Geneva to Canberra

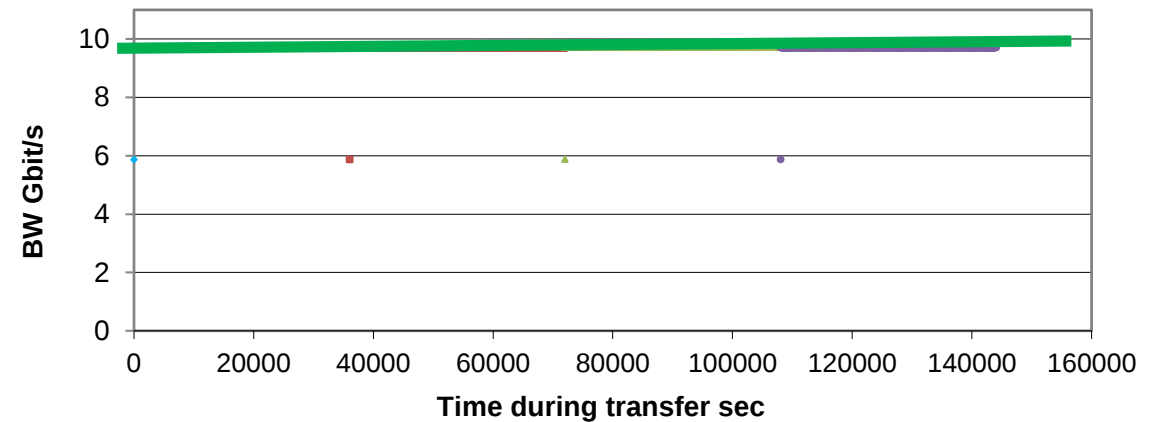


Geneva to Canberra



GÉANT and R&E partners

Geneva to Canberra GÉANT + R&E networks US to Australia



R&E networks are designed for different goals than the Internet

Comparative Times for a 100TByte data transfer.

File Size (TB)		Data rate (Gbit/s)	Time taken (Hours)	Time Taken (Days)
NREN	100	9.27	34.0	1.4
ISP A	100	1.72	183.2	7.6
ISP B	100	0.11	2864.3	119.3





Privacy

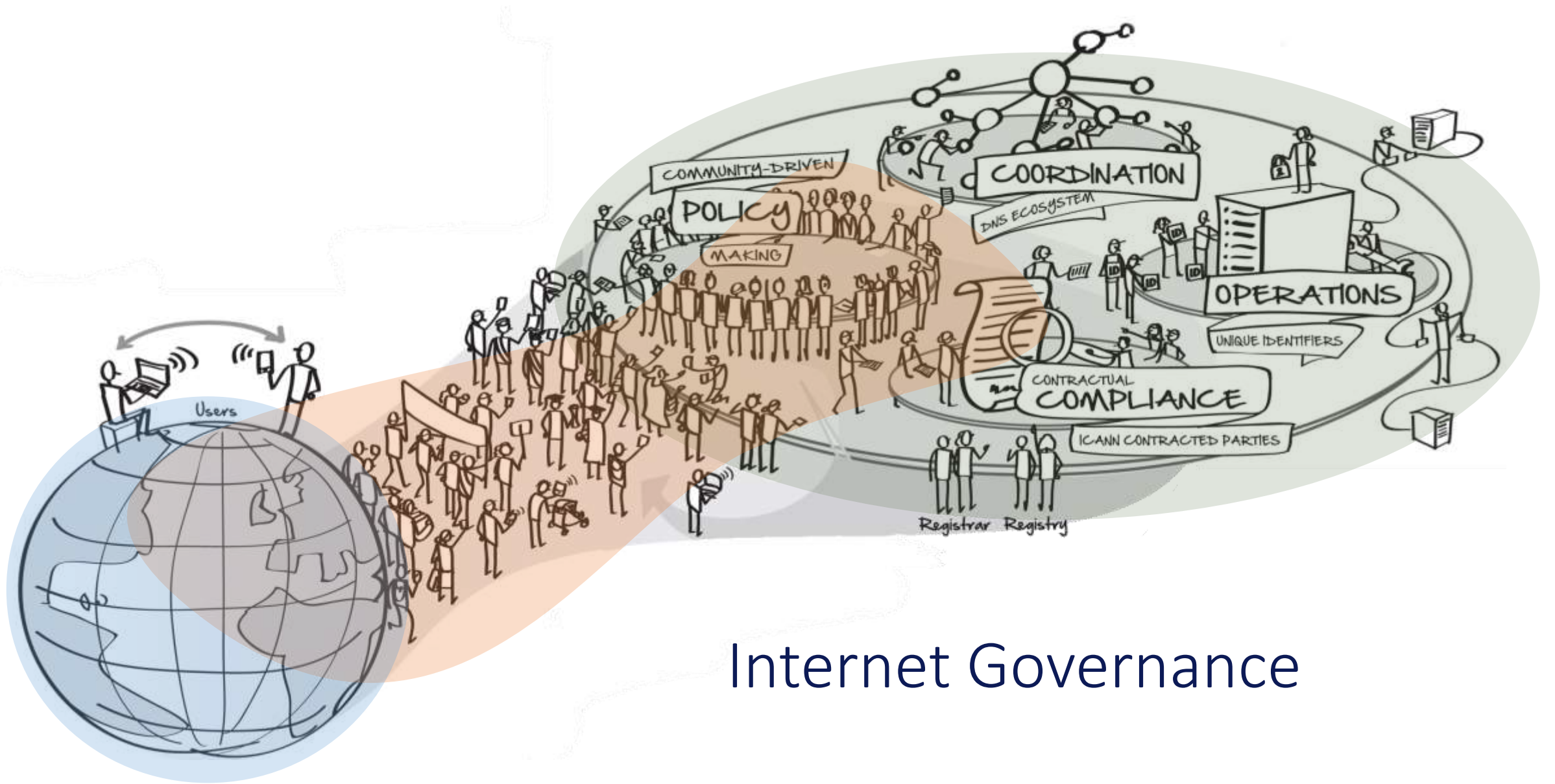
Permissionless
innovation

A word cloud centered around the terms "cyber" and "crime". The words are in various sizes, colors (yellow, white, and grey), and orientations (horizontal and vertical). The background is a dark blue gradient.

cyber
crime
information
internet
attach
fraud
threats
Identity theft
worms
malware
denial of service
cyber terrorism
Information warfare
hacking
unauthorized
harassment
pornography
spam
web
cyberstalking
spyware
theft
network
computer
adware
data
virus
software
phishing
website





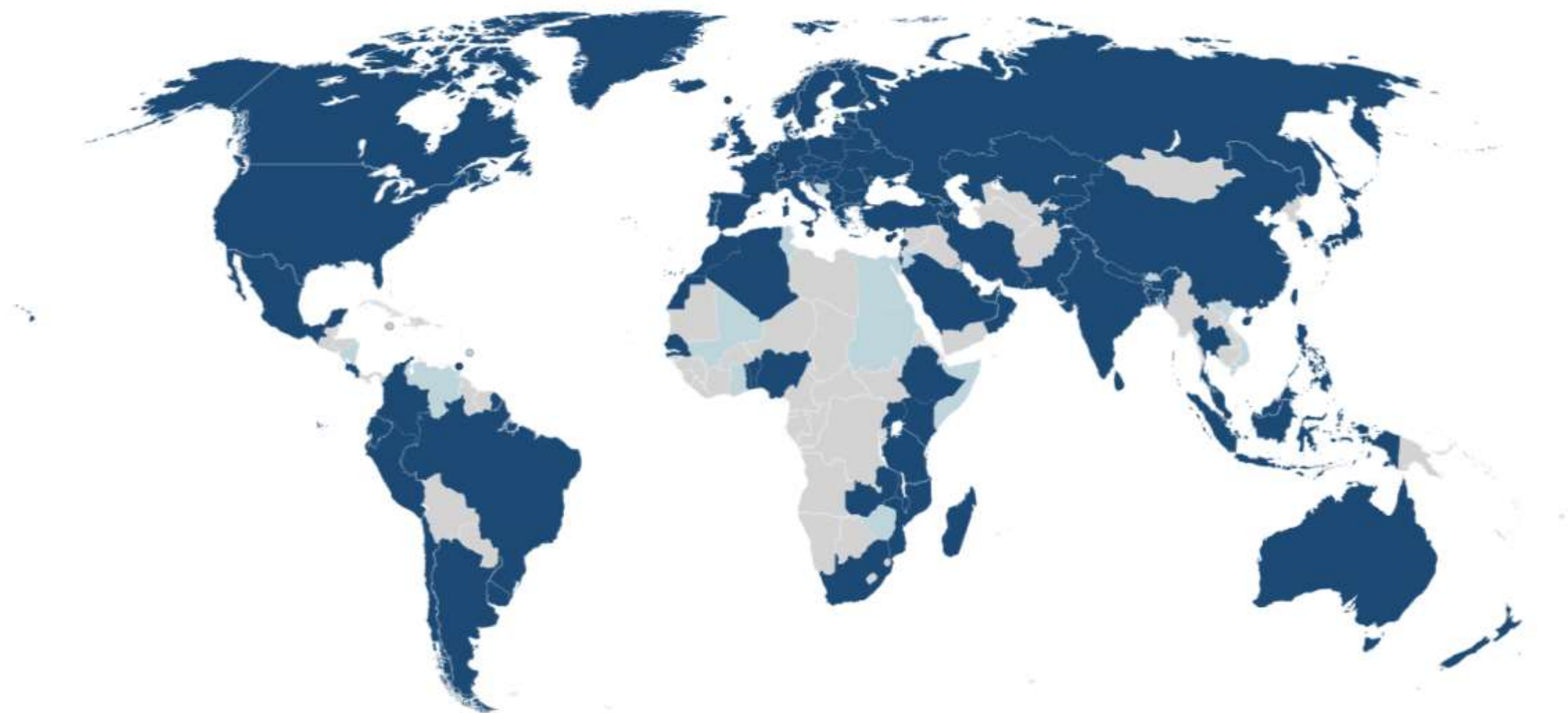


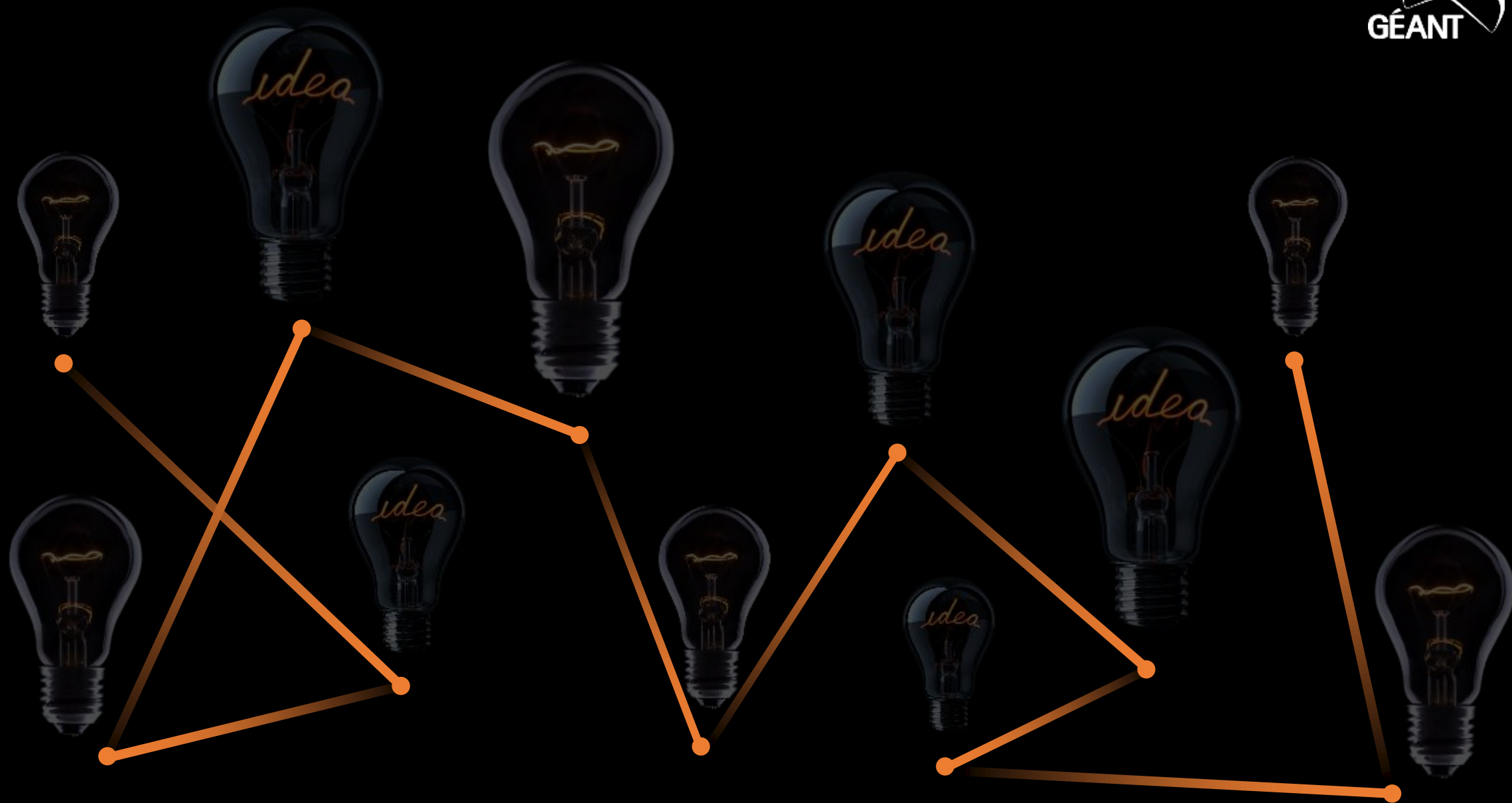
Internet Governance



Durban









RENs are key to combining the knowledge
of **all people in the world** to solve
the problems our society is facing





Erik Huizer, CEO, GÉANT

Twitter: @Milkshake