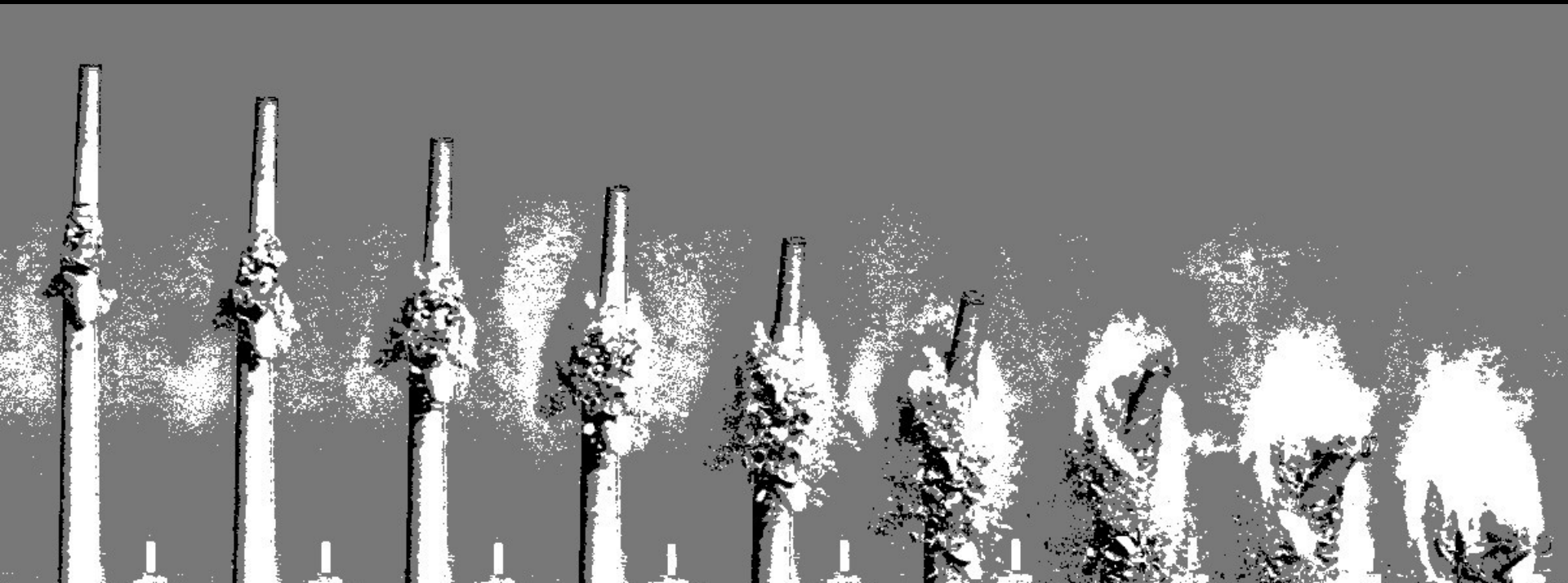# Your privacy

- where has it gone?

... and will it be back?

Talk by Dr. Andrzej NOWAK – April 2022
CERN Academic Training Programme

Part 3 of 3 – The Future

TECH

Twitter accepts Elon Musk's buyout deal

PUBLISHED MON, APR 25 2022·2:50 PM EDT | UPDATED MON, APR 25 2022·6:15 PM EDT

Lauren Feiner
@LAUREN_FEINER

force majeure, n.

"superior or irresistible force"

      →   a cover

      →   a distraction

"Current notions of privacy will continue to evolve, with individuals needing to share more personal information for access to applications, and tracking becoming ubiquitous."

National Intelligence Council –
Global Trends 2040

mass surveillance continues and amplifies

→ your data is turned into scores

→ digital reputation matters

→ you become limited

→ you limit yourself further

→ social cooling (Tijmen Schep)

The city's police are using **facial recognition** technology
to identify pedestrians who don't follow the traffic laws

Social Credit Systems. China examples
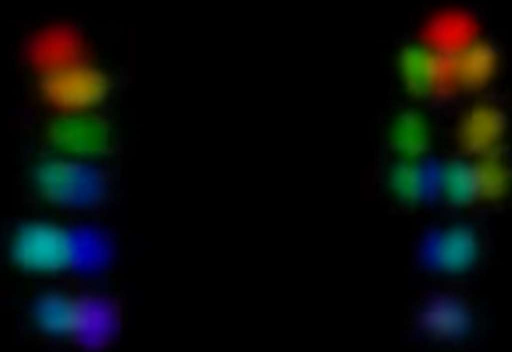
Suining – credit points deduction

Rongcheng – one score, many sources

Sesame Credit – AI and loyalty rewards

Suining System Score Catalogue

1. Commercial services credit information (150 points)
   - Bank loans (50 points).
   - Credit card non-repayment (50 points).
   - Contract performance (30 points).
   - Peer-to-peer loans (20 points)
2. Social services credit information (120 points)
   - Tax arrears or evasion (50 points).
   - Utility fee payments (35 points).
   - Social security payments
3. Social management credit information (530 points)
   - City management (25 points).
   - Producing or selling fake goods (35 points).
   - Pyramid selling, swindling (35 points).
   - Birth planning (35 points).
   - Heretical activities (50 points).

Using wireless signals means it can see through obstructions

rfpose - MIT

Crypto… everything

…graphy	e2e, cloud, implicit, wallets, agents
…currency	mint & trade your own, stablecoins
…assets	tokenization
…hippies/punks	DAO wizards

"privacy-preserving computation"
zero trust

value exchange, store

Payment networks → token & payload agnostic
Privately-built currencies → barter era 2.0?
Digital cash → do we trust our governments? Do they trust us?

private vs. public

Filters

Country

Click to filter

CBDC Status (i)

Click to filter

Purpose (i)

Click to filter

Architecture (i)

Click to filter

Infrastructure (i)

Click to filter
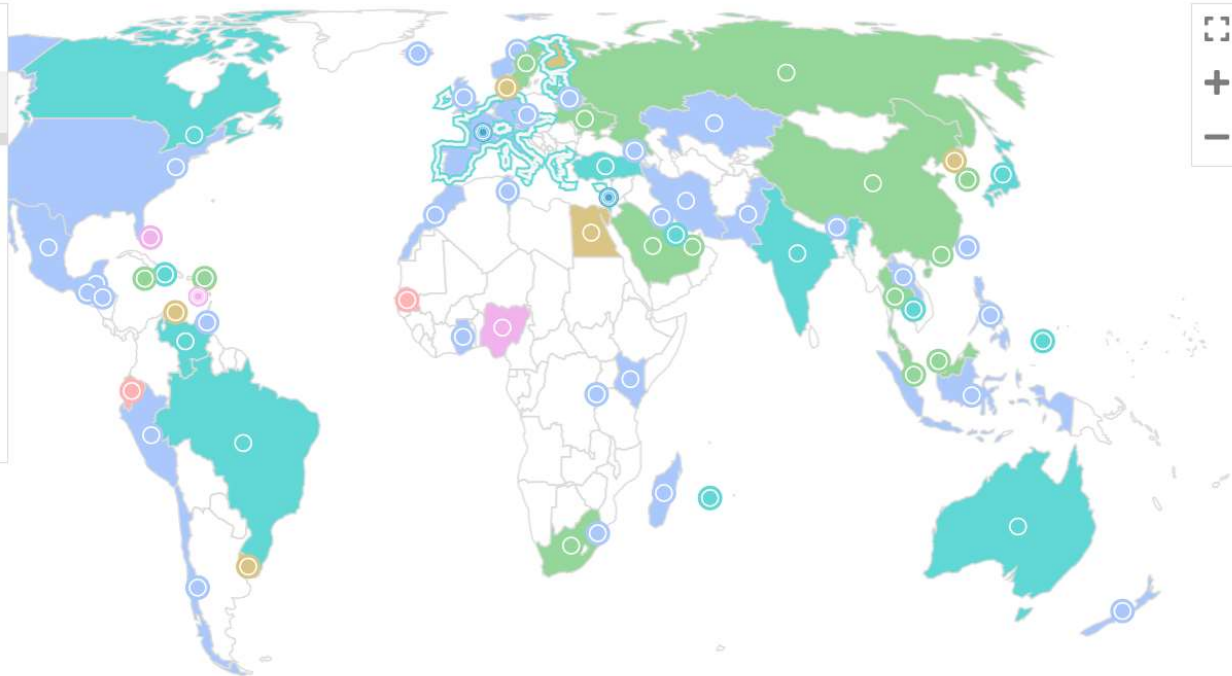
Access (i)

Click to filter

Additional filters +

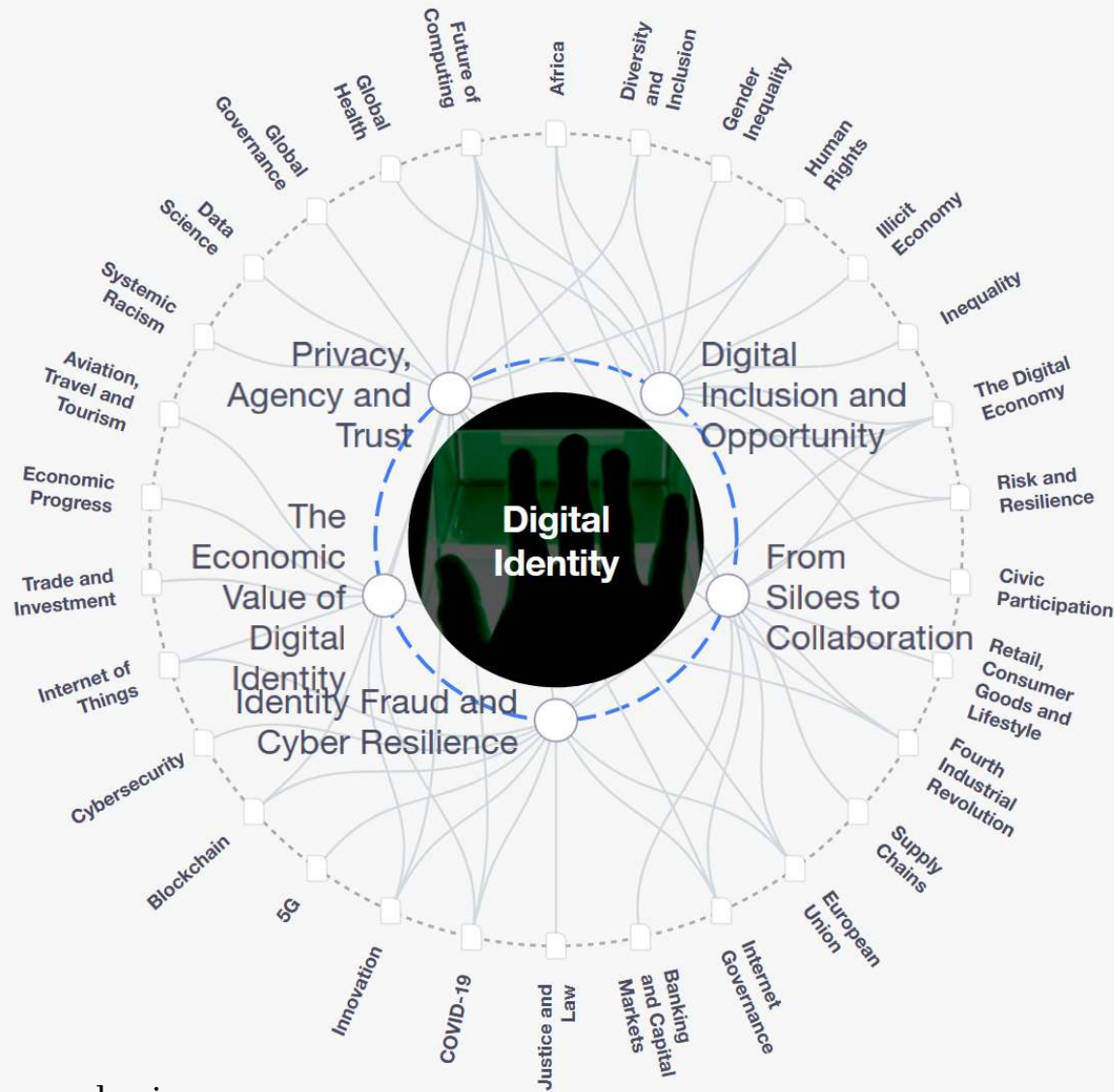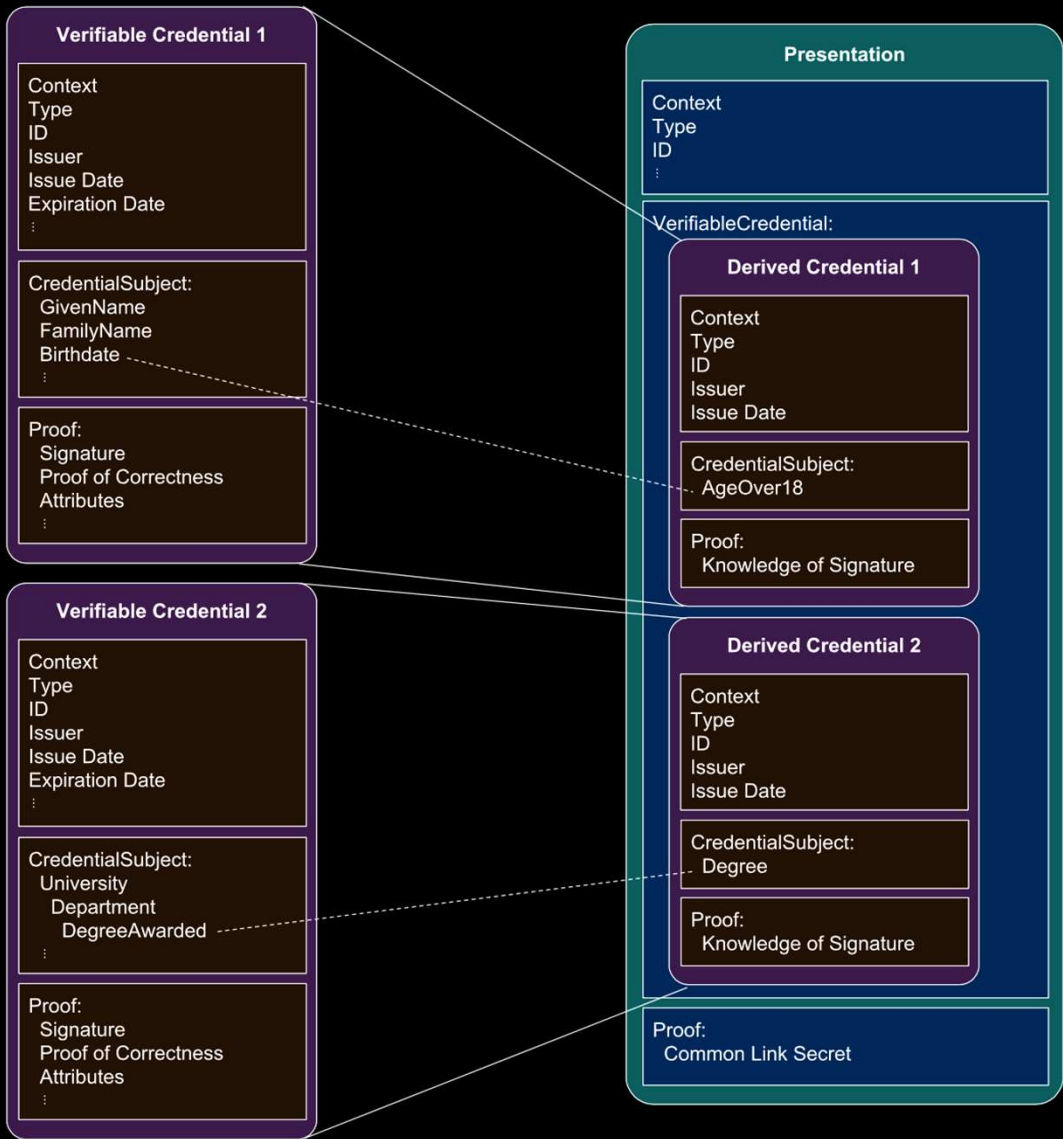**91 Countries / Currency Unions Tracked**

Click to filter

Status

■ 9 Launched
■ 15 Pilot
■ 16 Development
■ 40 Research
■ 7 Inactive
■ 2 Canceled

[Central Bank Digital Currency tracker]

Digital Identity

Privacy, Agency and Trust

Digital Inclusion and Opportunity

The Economic Value of Digital Identity

From Siloes to Collaboration

Identity Fraud and Cyber Resilience

Future of Computing
Africa
Diversity and Inclusion
Gender Inequality
Global Health
Global Governance
Human Rights
Data Science
Illicit Economy
Systemic Racism
Inequality
Aviation, Travel and Tourism
The Digital Economy
Economic Progress
Risk and Resilience
Trade and Investment
Civic Participation
Internet of Things
Retail, Consumer Goods and Lifestyle
Cybersecurity
Fourth Industrial Revolution
Blockchain
Supply Chains
5G
European Union
Innovation
Internet Governance
COVID-19
Banking and Capital Markets
Justice and Law

World Economic Forum – academic use

Tykn – academic use

predictive and automated policing
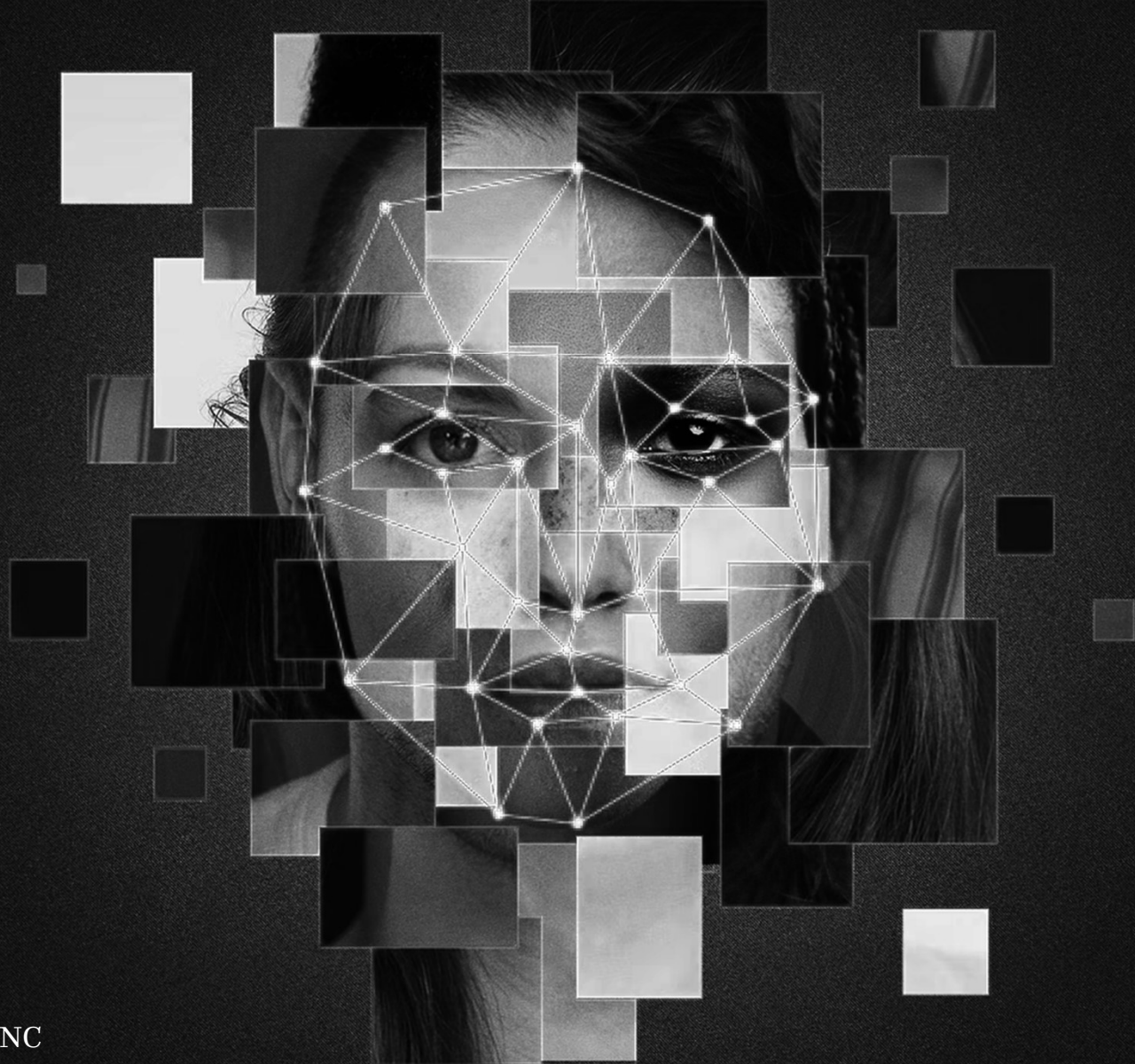
       pre-crime

       AI jury

       AI clerks

       AI witnesses?

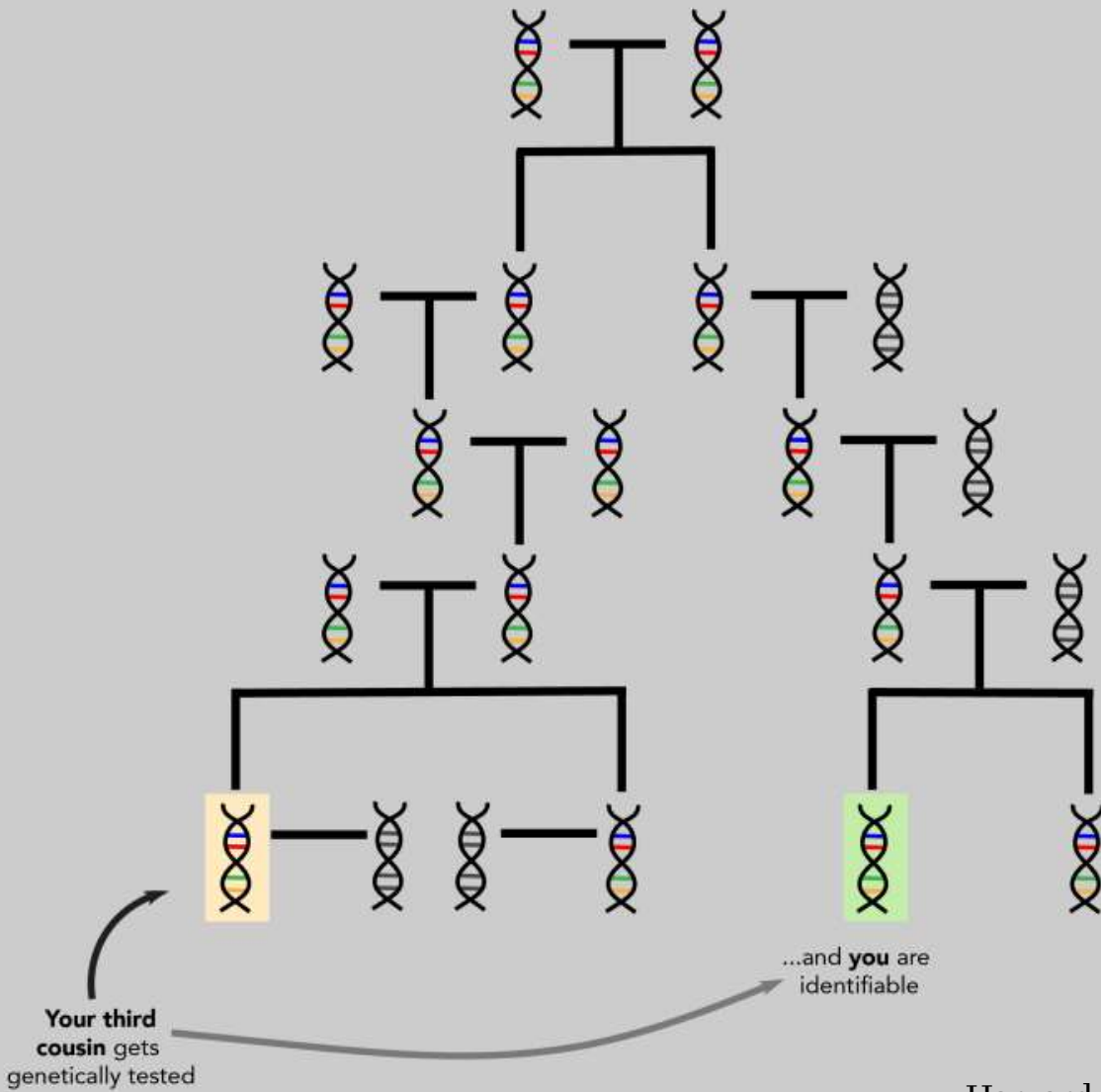   AI decisions and support

Big Data to fight Big Disease

　　　does a public good override personal privacy concerns?
　　　obligation to share?
　　　should a corporation profit?

Your third **cousin** gets genetically tested

...and **you** are identifiable

MOTHERBOARD
TECH BY VICE

You Can Now Sign Away Rights to Your Biometric Data

Getty Images is now using an 'Enhanced Release' form, which prompts photo models to consent to the use of biometrics like facial data.

By Janus Rose
NEW YORK, US

March 29, 2022, 3:00pm

Quantum... everything?

...computing

...cracking   ?

...encryption

Scenario 2

more of the same

stable or quiet "consensus"

Scenario 3

Black Mirror – "Nosedive"

Scenario 4

hyper-reality.co, Keiichi Matsuda (2016)

"Surrogates" (2009), Touchstone P.

"Idiocracy" (2006), 20th C. Fox

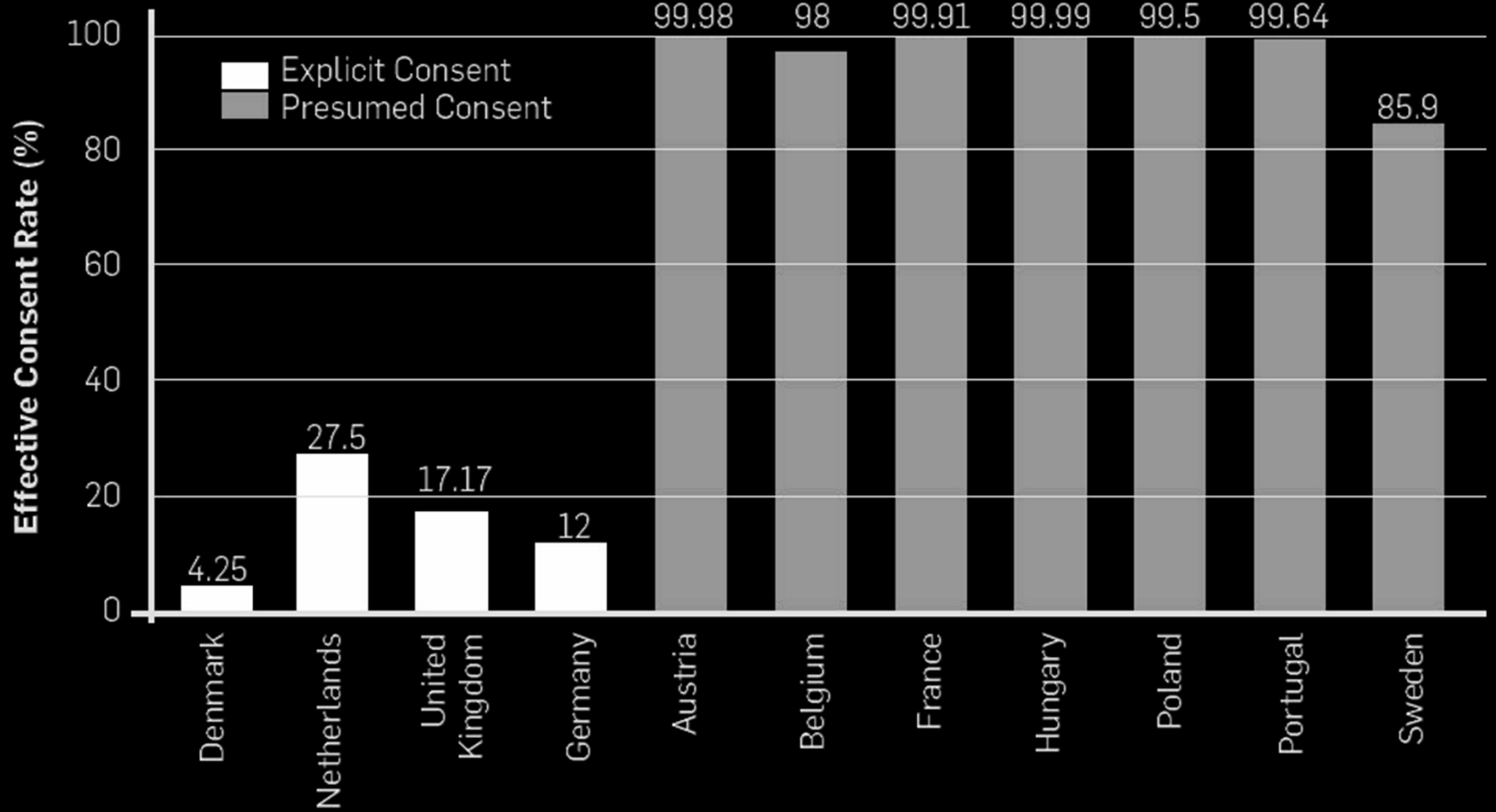# Will our privacy be back?

Money and convenience rule(d)

So... no, not unless we claw it back. Start with value.

Final thoughts

(1) This is not a conspiracy theory, it is real

(2) The democratization of tech matters. Think about who you trust and why. Support transparency with brownie points.

(3) Defaults and complacency matter – maybe enormously. Defend meaningful consent and opt-in/opt-out defaults.

Goldstein, D. and Johnson, E.J. Do defaults save lives? *Science 302*, 5649 (2003)

Recommended reading:

2015 - Bruce Schneier – "Data and Goliath"

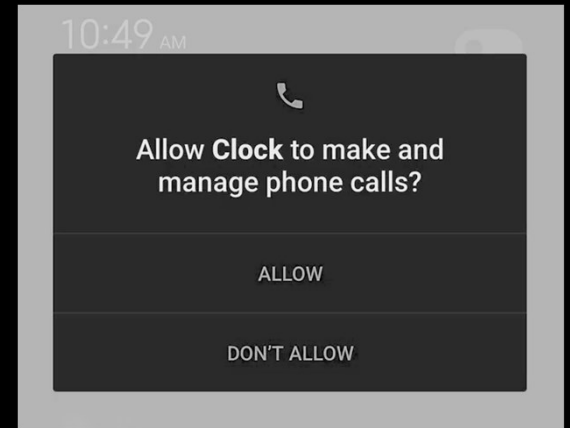2016 - Cathy O'Neil – "Weapons of Math Destruction"

2019 - Shoshana Zuboff – "The Age of Surveillance Capitalism"

2022 - Stephanie Hare – "Technology is Not Neutral: A Short Guide to Technology Ethics"

+ hackercons

"Your rights matter, because you never know when you're going to need them"

Edward Snowden

10:49 AM

📞

Allow **Clock** to make and manage phone calls?

ALLOW

DON'T ALLOW

A privacy talk by Dr. Andrzej NOWAK – an@tik.services, April 2022