



*CENTRO DE TECNOLOGIA
E SOCIEDADE*

PABLOCERDEIRA

Chief Data Officer - Rio de Janeiro City Hall
Head Center of Technology and Society

Os desafios da profissionalização na era das redes e das novas tecnologias

Every 14 minutes, somewhere in the world, an ad exec strides on stage with the same breathless declaration:

“Data is the new oil!”

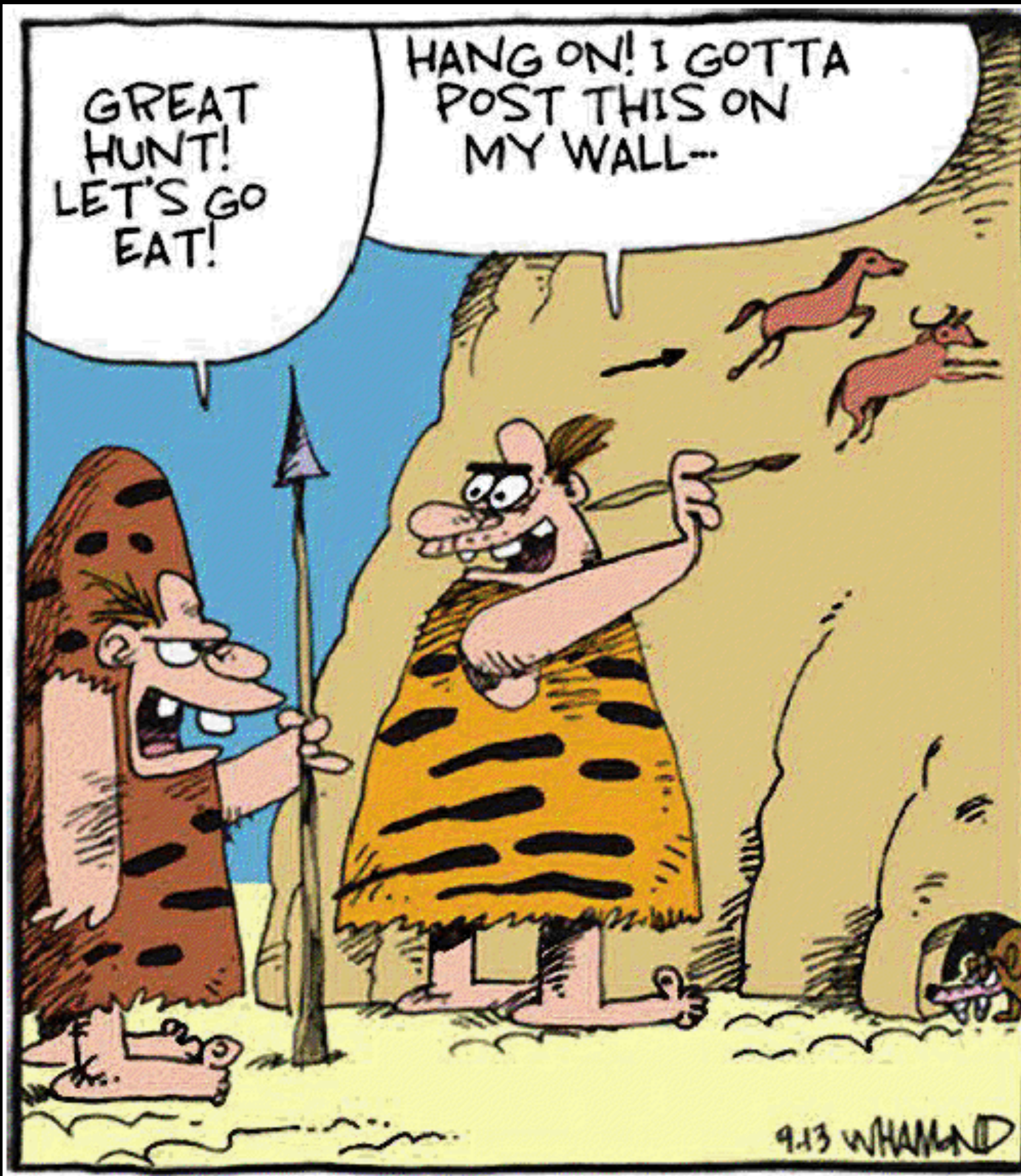
Big Data Is Not the New Oil
Jer Thorp
Harvard Business Review

OIL	DATA
it takes effort to be obtained	it takes effort to be obtained
many different uses	many different uses
consumable	asset/accumulate
natural resource	human resource
products	knowledge about society
-	build bottom-up solutions

THE FLYING McCOYS

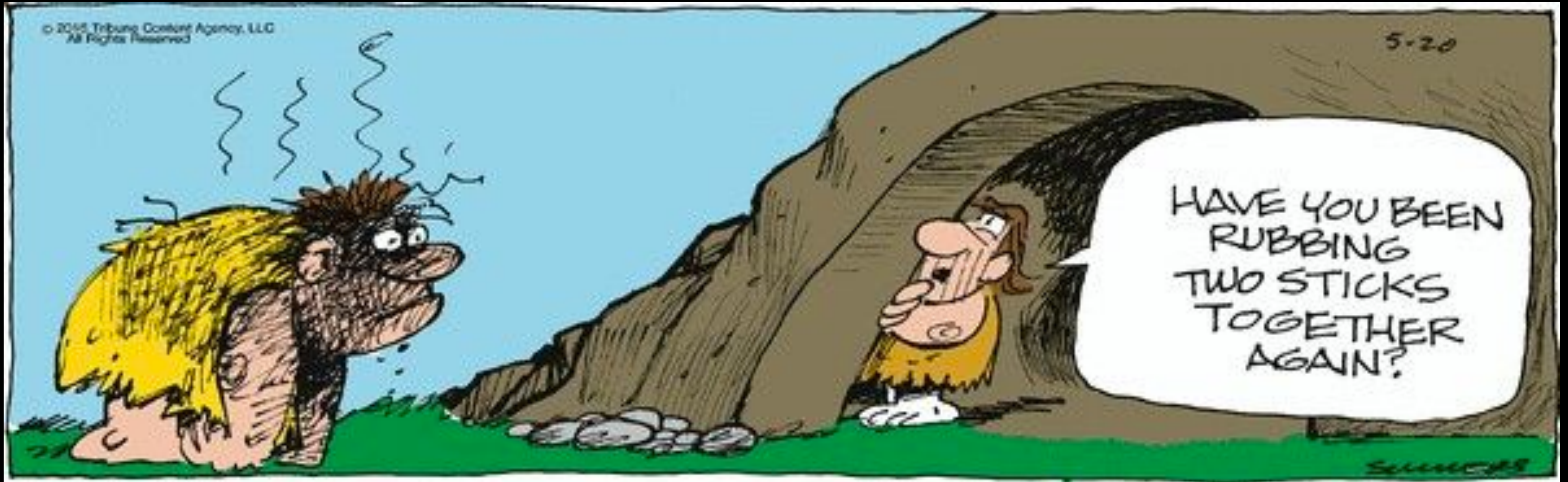
BY GARY & GLENN McCOY





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5-20





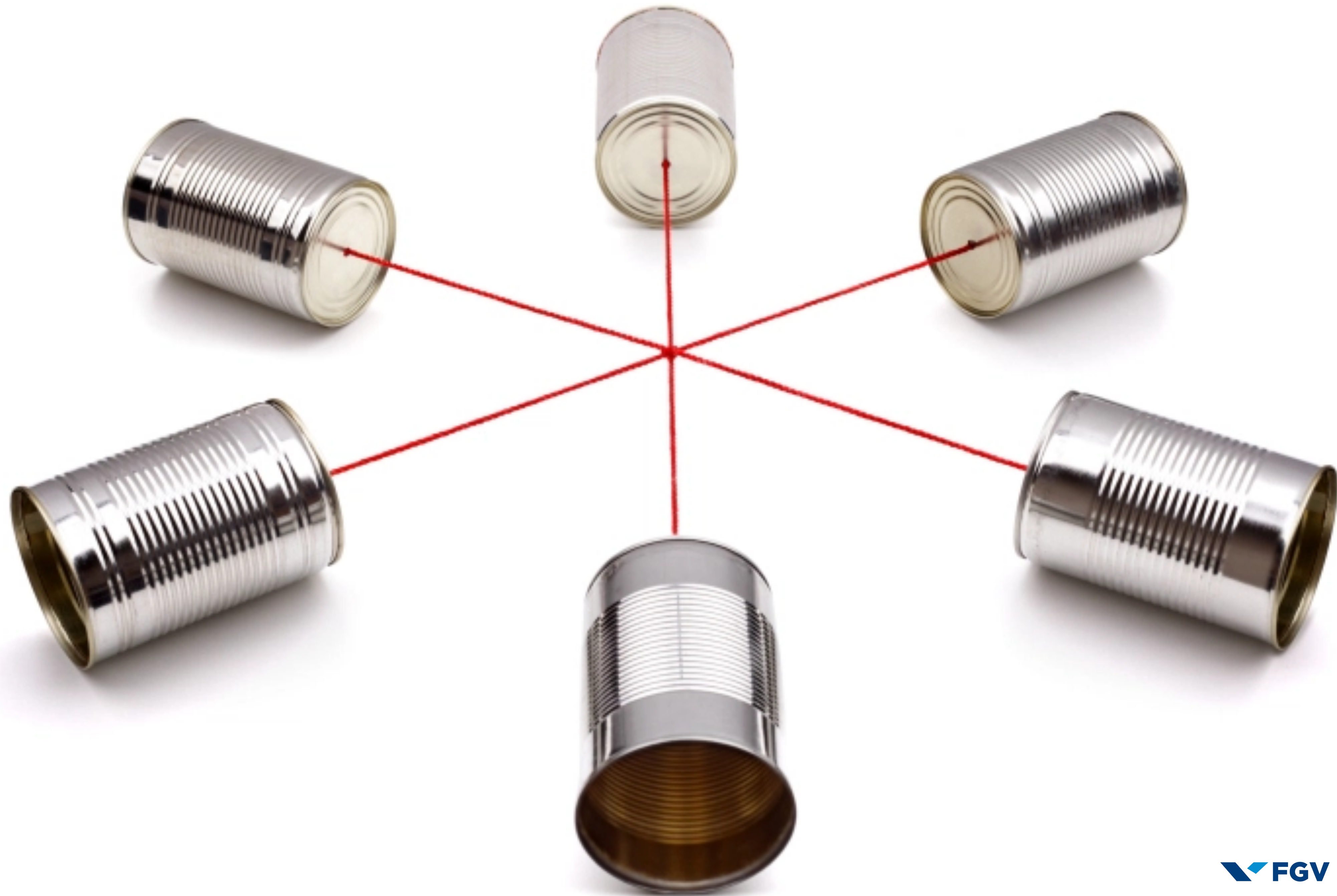
“I thought I was on to something
but I can’t figure out how to
move it.”

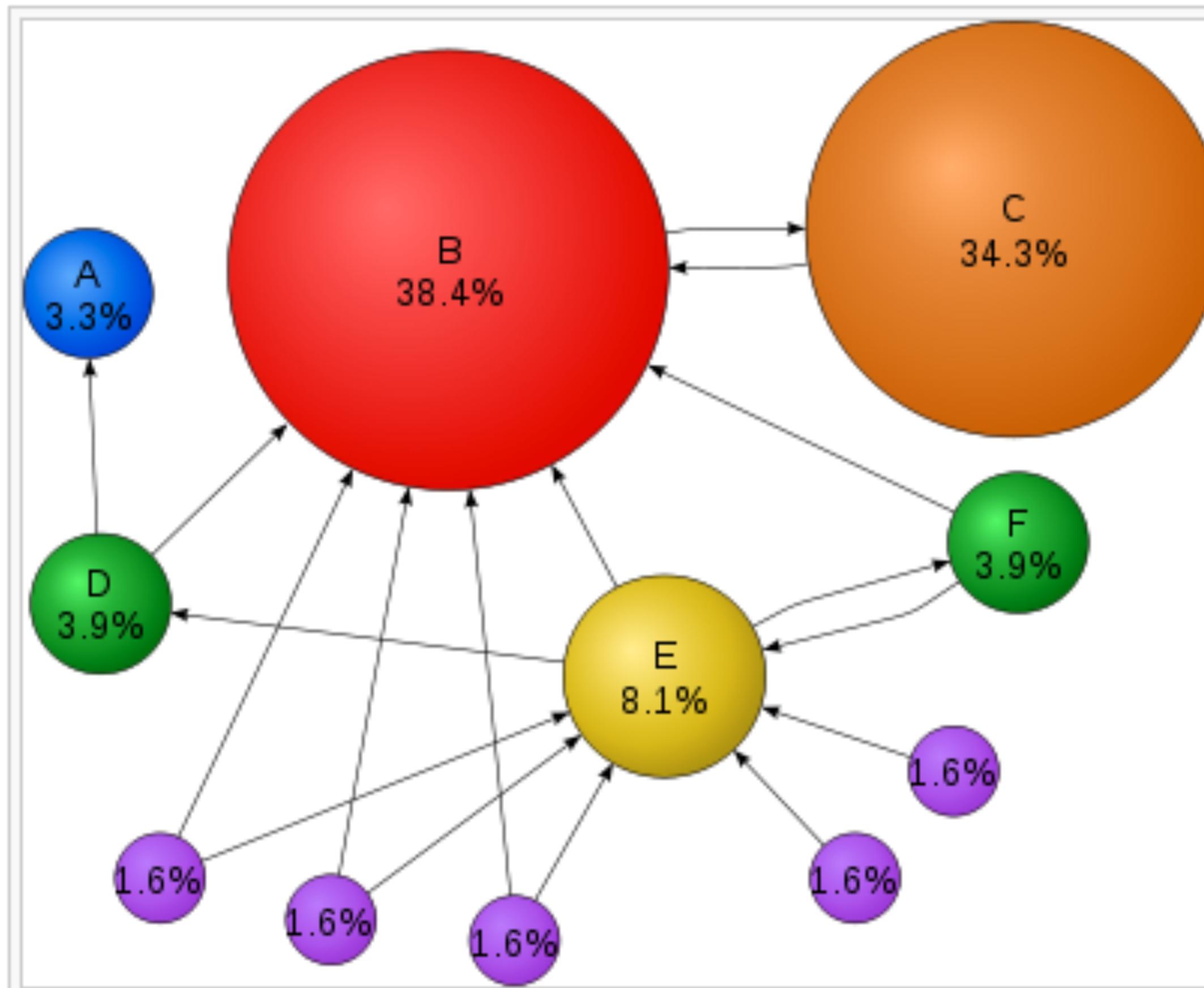


INTERNET

INTERNET

**CONEXÃO
DADOS
INTELIGÊNCIA ARTIFICIAL**

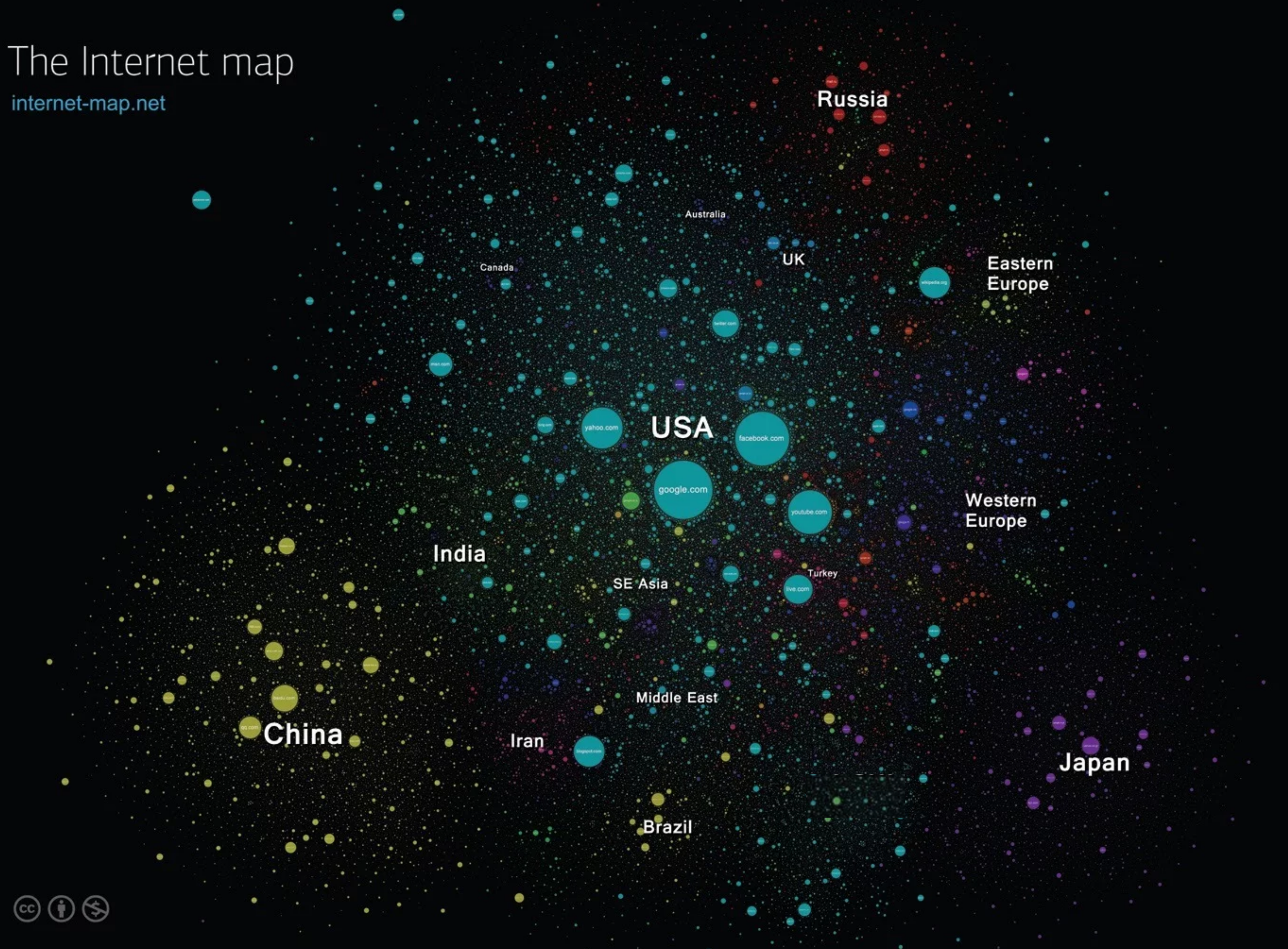




Mathematical **PageRanks** for a simple network, expressed as percentages. (Google uses a logarithmic scale.) Page C has a higher PageRank than Page E, even though there are fewer links to C; the one link to C comes from an important page and hence is of high value. If web surfers who start on a random page have an 85% likelihood of choosing a random link from the page they are currently visiting, and a 15% likelihood of jumping to a page chosen at random from the entire web, they will reach Page E 8.1% of the time. (The 15% likelihood of jumping to an arbitrary page corresponds to a damping factor of 85%.) Without damping, all web surfers would eventually end up on Pages A, B, or C, and all other pages would have PageRank zero. In the presence of damping, Page A effectively links to all pages in the web, even though it has no outgoing links of its own.

The Internet map

internet-map.net



MENU ▾



Altmetric: 143

Views: 7,895

Citations: 1

[More detail >>](#)

Article | [OPEN](#)

Understanding congested travel in urban areas

Serdar Çolak, Antonio Lima & Marta C. González 

15–30 percent of total minutes lost in congestion is caused solely by selfish routing

Understanding congested travel in urban areas

"For instance, smartphone apps could offer points and vouchers to drivers who are willing to take longer routes that avoid congested areas. Navigation app Waze has already changed drivers' habits in some cities, so it's not so far-fetched to imagine a gamification system that reduces congestion."

A new style of IT emerging

Every 60 seconds



98,000+ tweets



695,000 status updates



11 million instant messages



698,445 Google searches



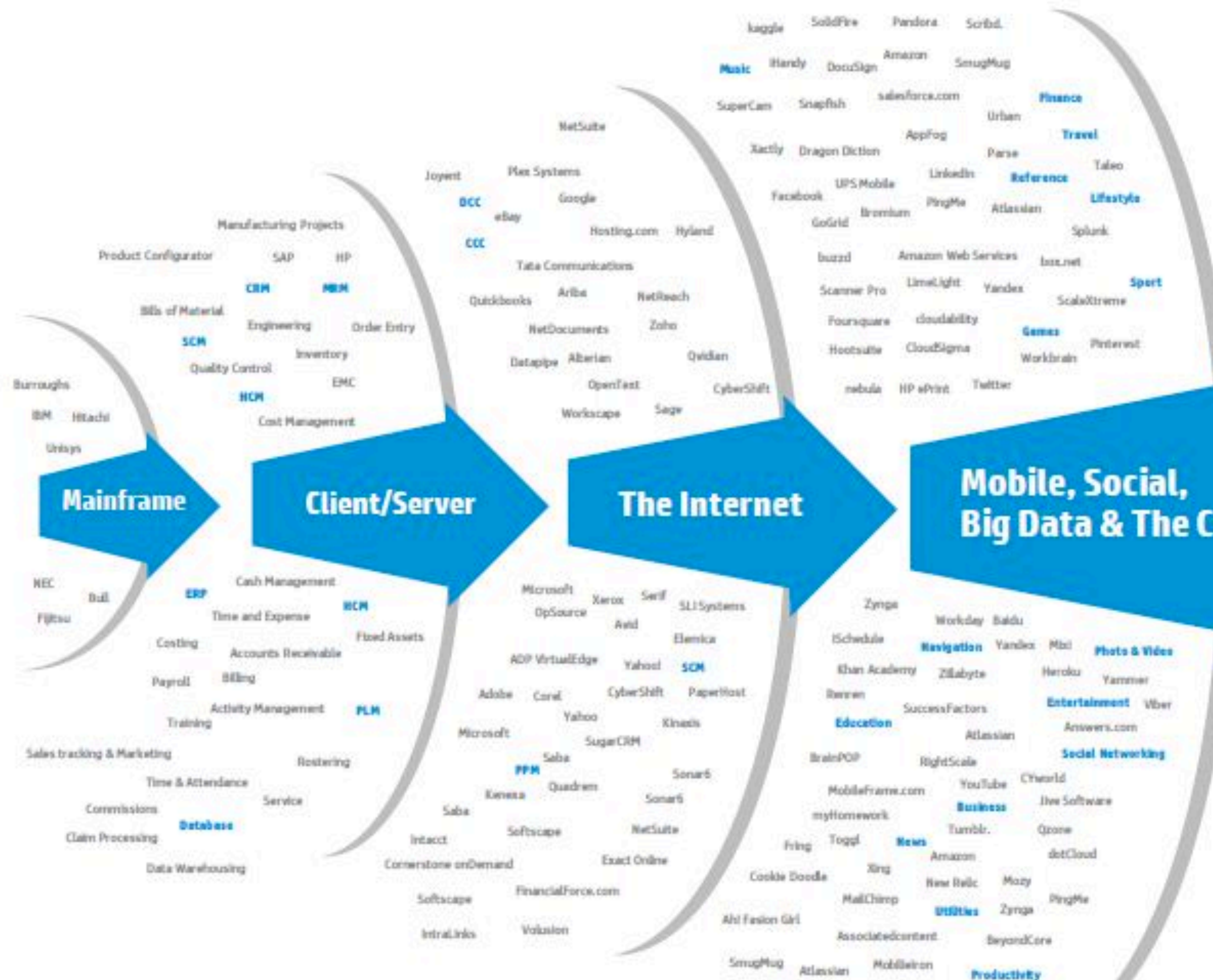
168 million+ emails sent



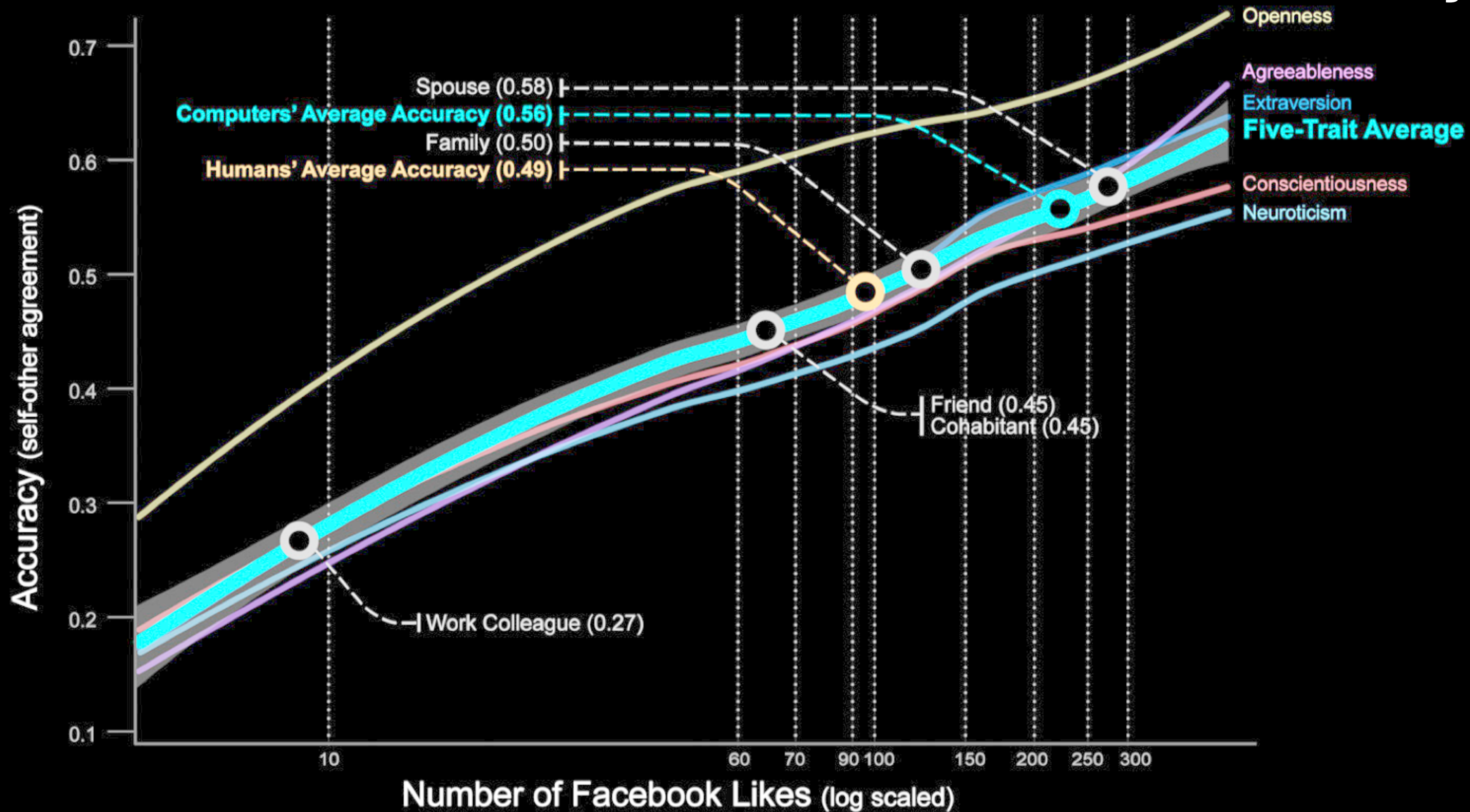
1,820TB of data created



217 new mobile web users



Computer-based personality judgments are more accurate than those made by humans



Wu Youyoua, Michal Kosinskib, and David Stillwella
<http://www.pnas.org/content/112/4/1036.abstract>

Black Box: identificação de padrões
2.000 físicos trabalhando na base
70% do mercado de ações

NETFLIX

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by Peter A. Lawrence

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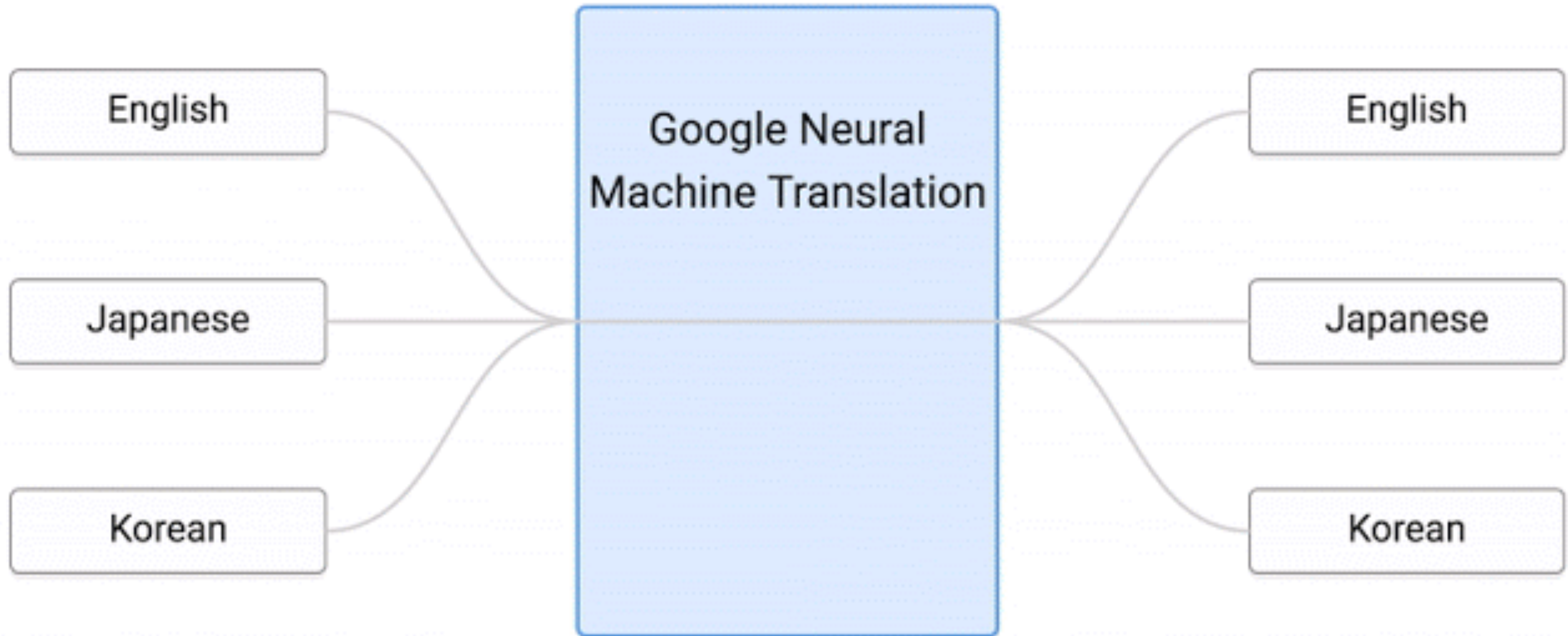
[Add to Cart](#)
or
[Sign in](#) to turn on 1-Click ordering.

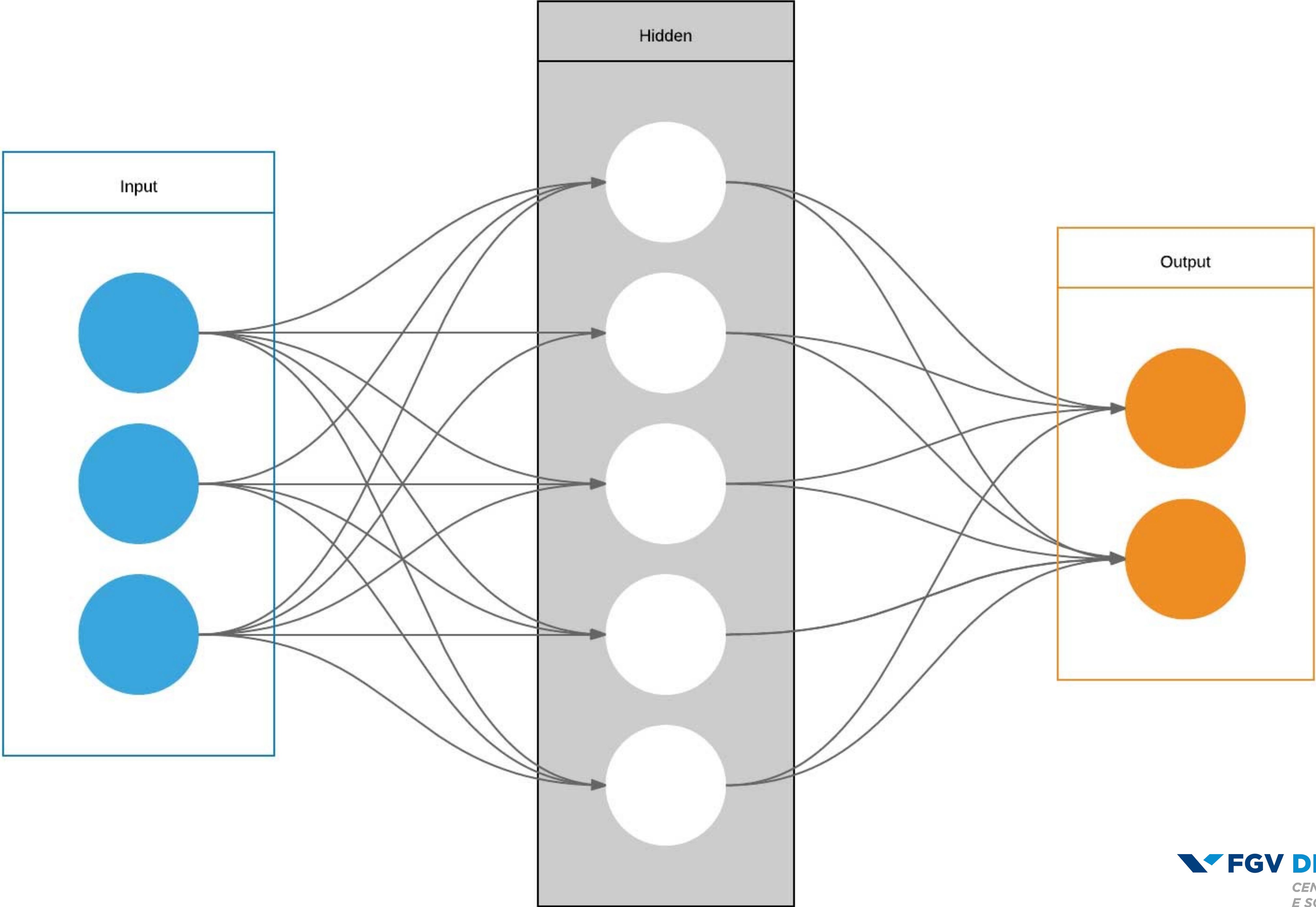
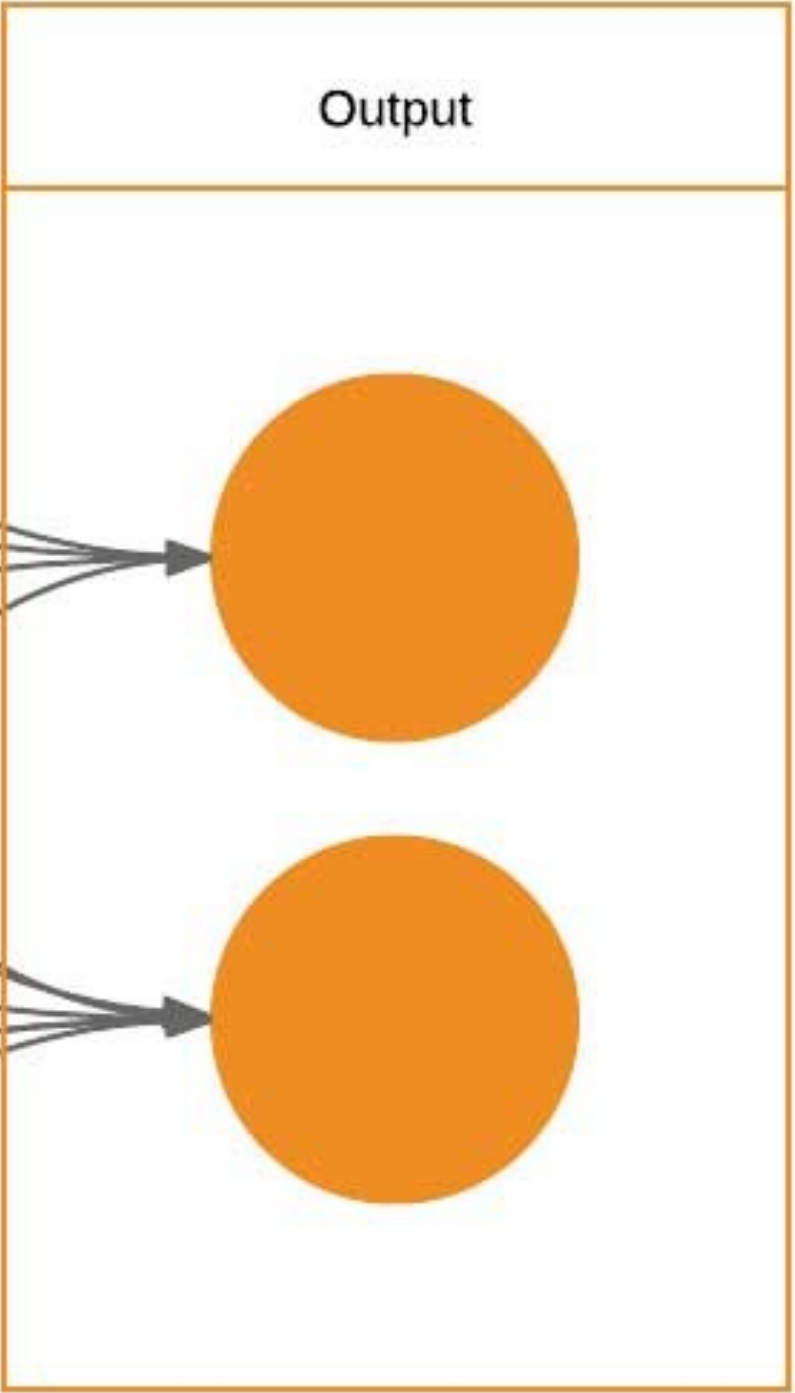
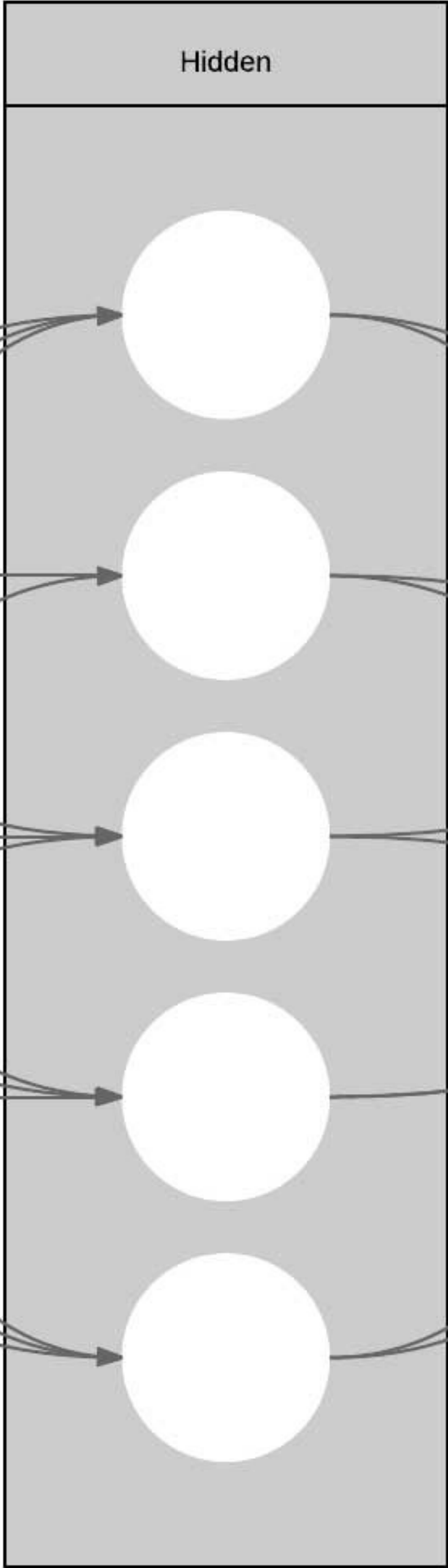
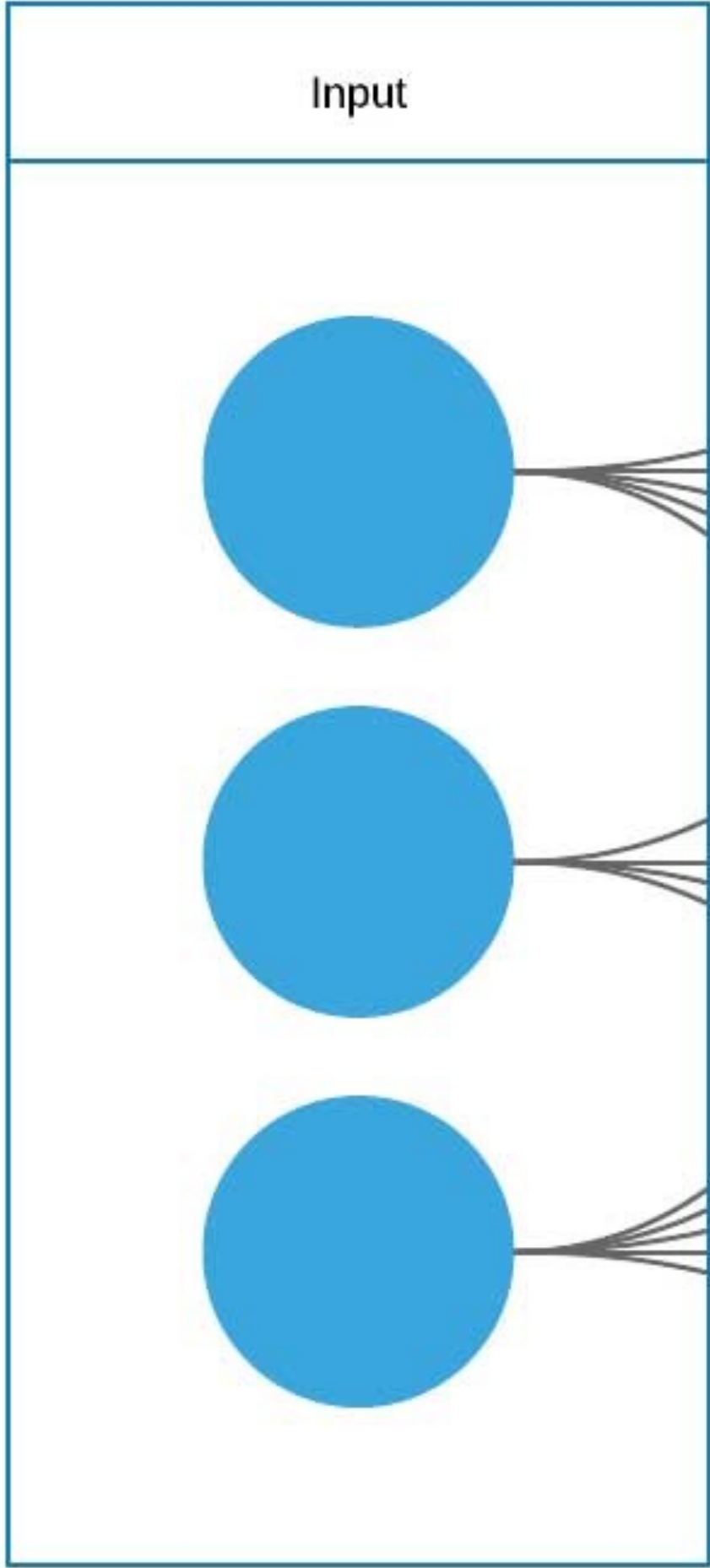
Kevin Spacey urges TV channels to give control to viewers



Não quero viver em um mundo no qual
o conhecimento cultural foi substituído

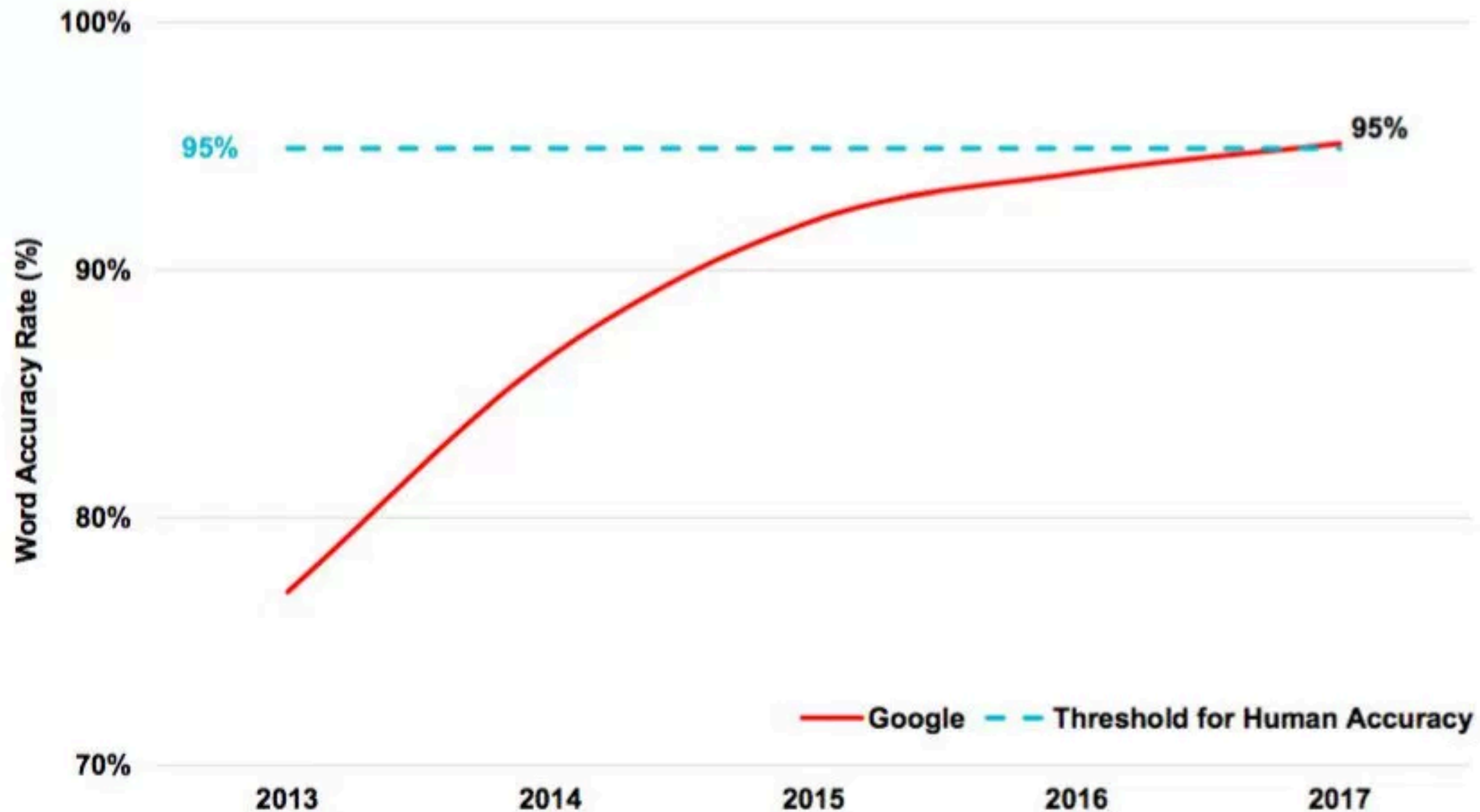
Training



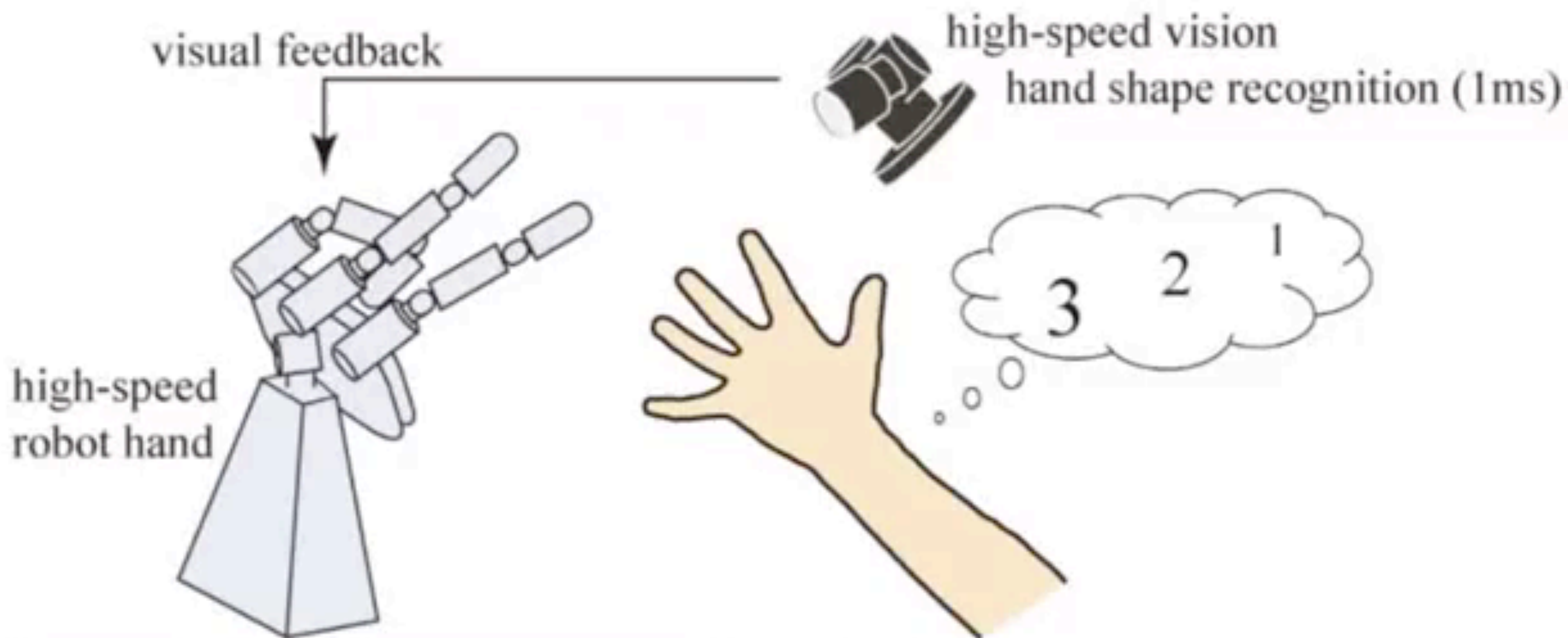


...Voice-Based Platform *Back-Ends* = Voice Recognition Accuracy Continues to Improve

Google Machine Learning
Achieving Higher Word Accuracy, 2013-2017



Janken (rock-paper-scissors) Robot with 100% winning rate



After the high-speed vision recognizes shape of human hand, put the robot hand out to beat them within 1 ms.

UK

2015

TRUMP

2016

DÓRIA

2016

BREXIT

2016

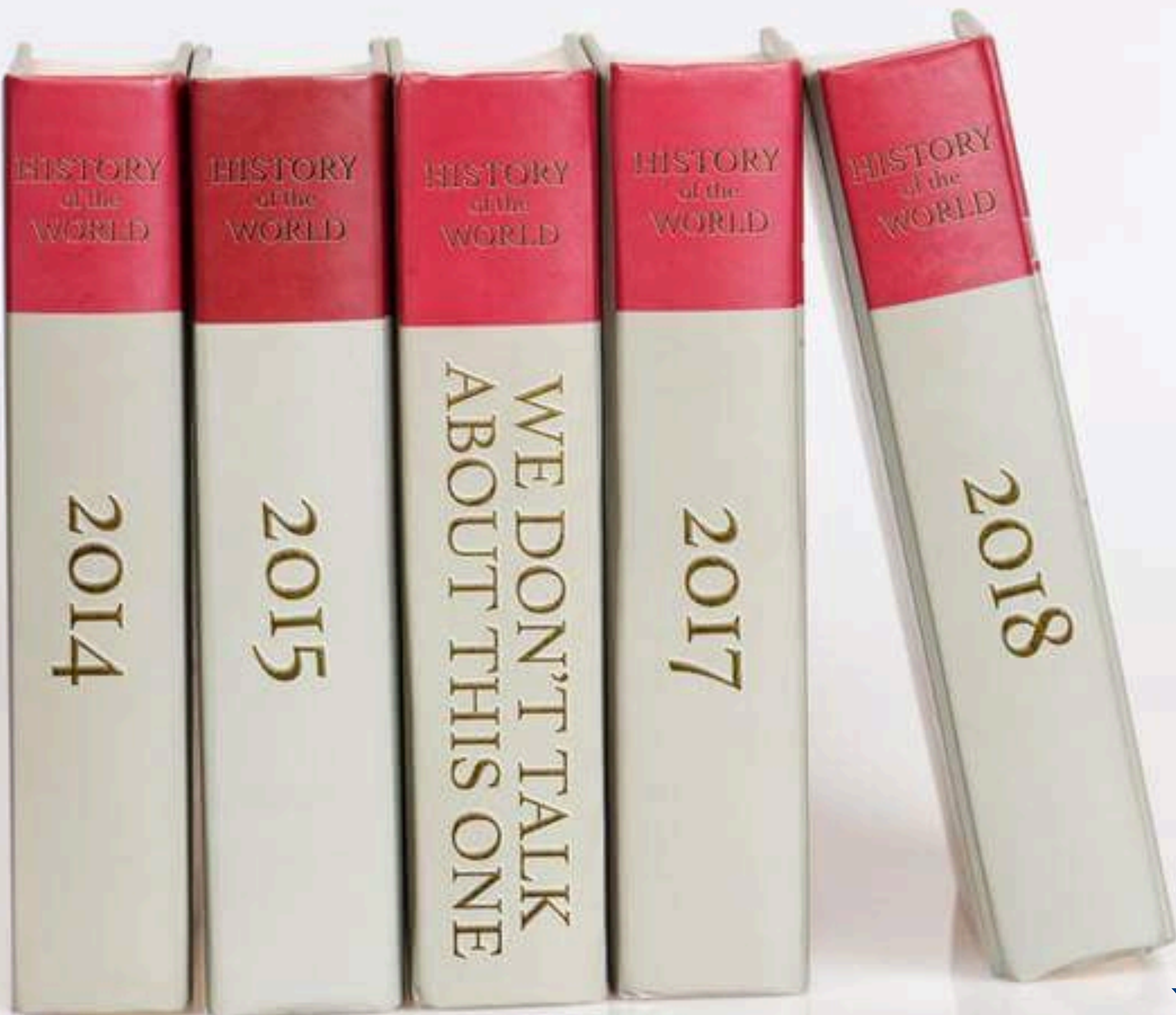






ABAIXO A IMPUNIDADE
CONTRA A PEC 37

ACASA
E 2010



HISTORY
of the
WORLD

2014

HISTORY
of the
WORLD

2015

HISTORY
of the
WORLD

WE DON'T TALK
ABOUT THIS ONE

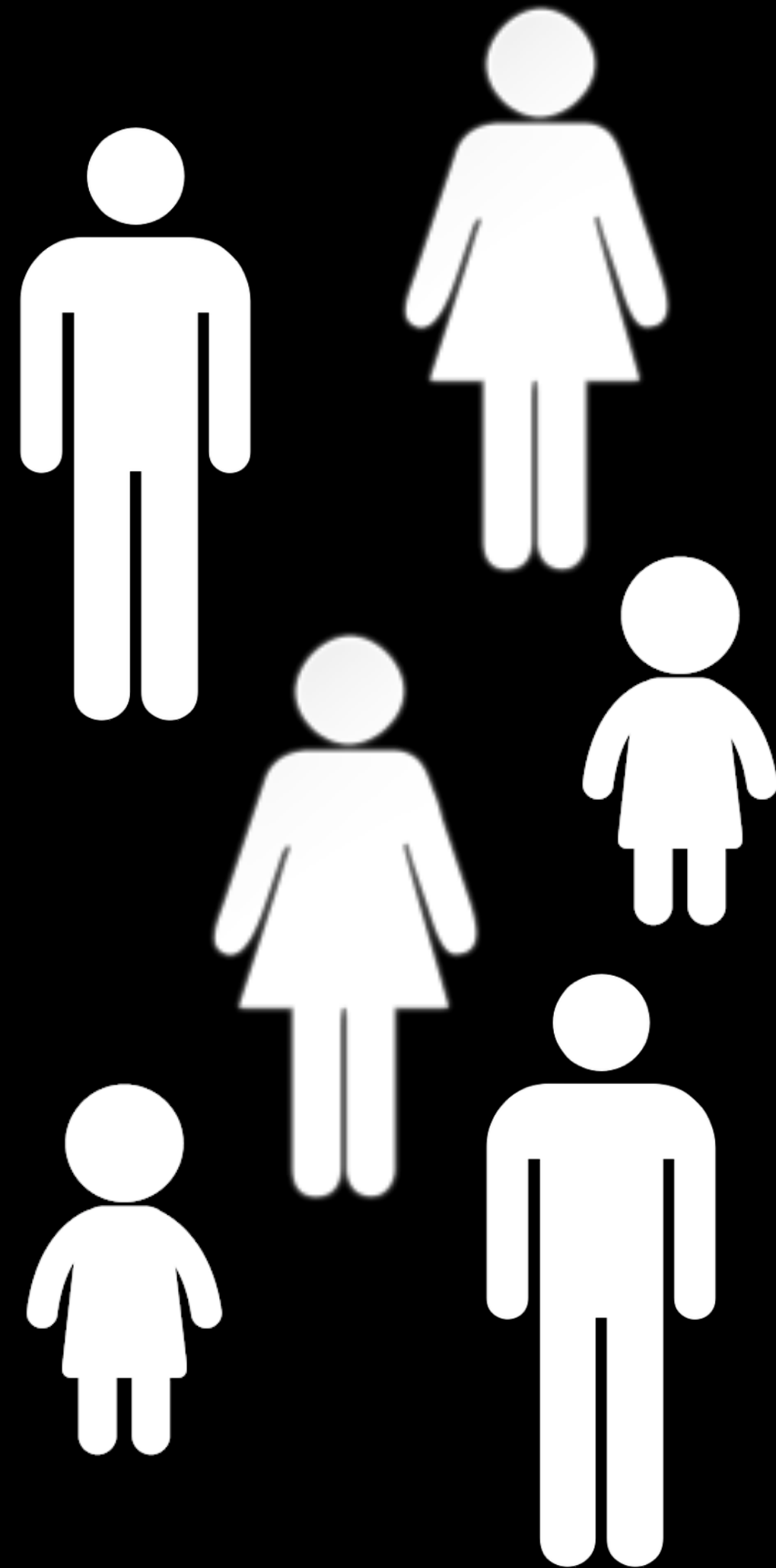
HISTORY
of the
WORLD

2017

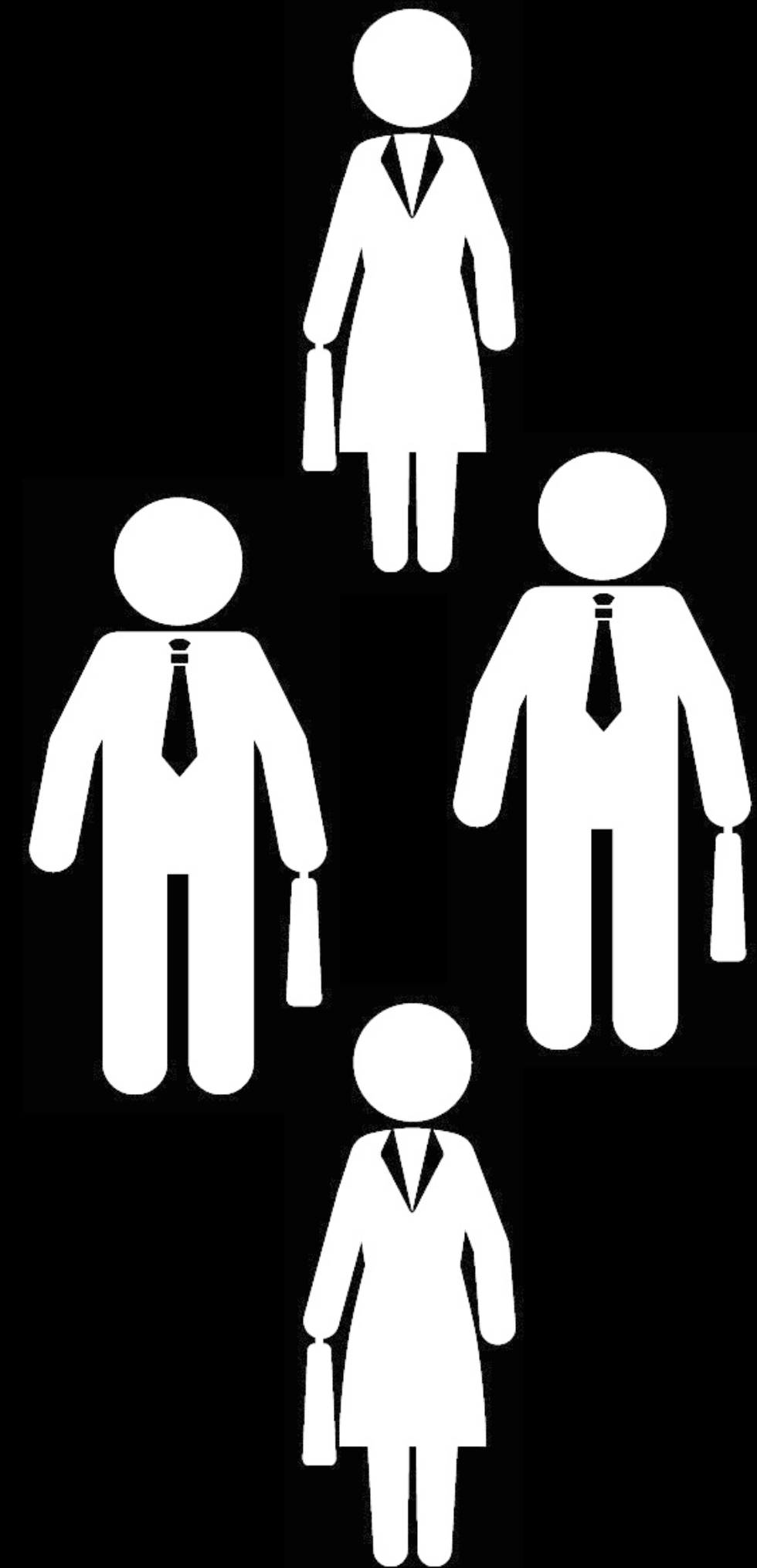
HISTORY
of the
WORLD

2018

SOCIETY



INSTITUTIONS



1st Gen: Government -> Citizens

Informational websites

2nd Gen: Citizens -> Government

Restricted interactions (1746, 311)

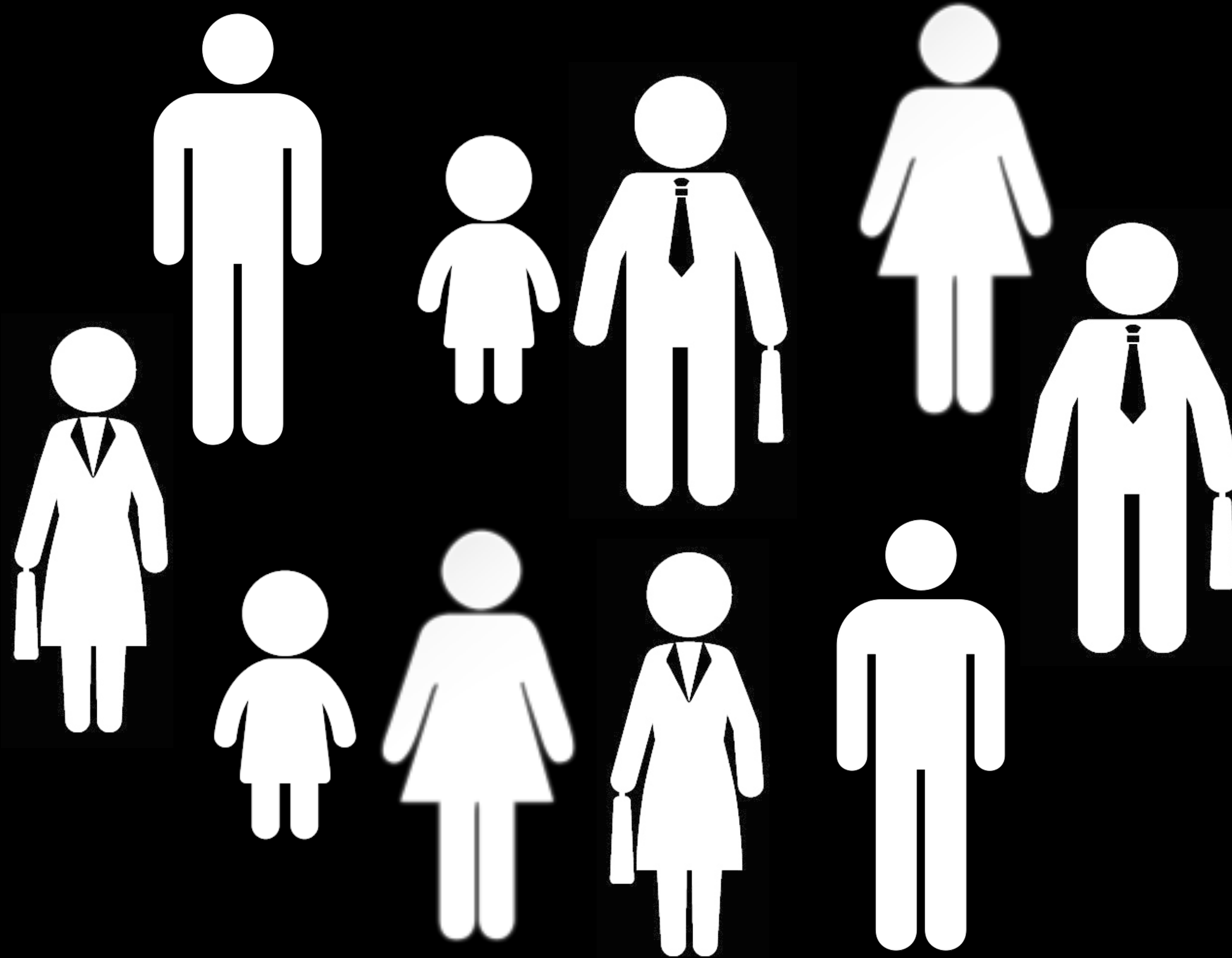
3rd Gen: Citizens -> Government

Open interactions / Collaborative Mapping etc

4th Gen: Citizens <-> Government

Real time reaction / Control Emergency Centers

5th Generation: Ubiquitous Digital Democracy (?)



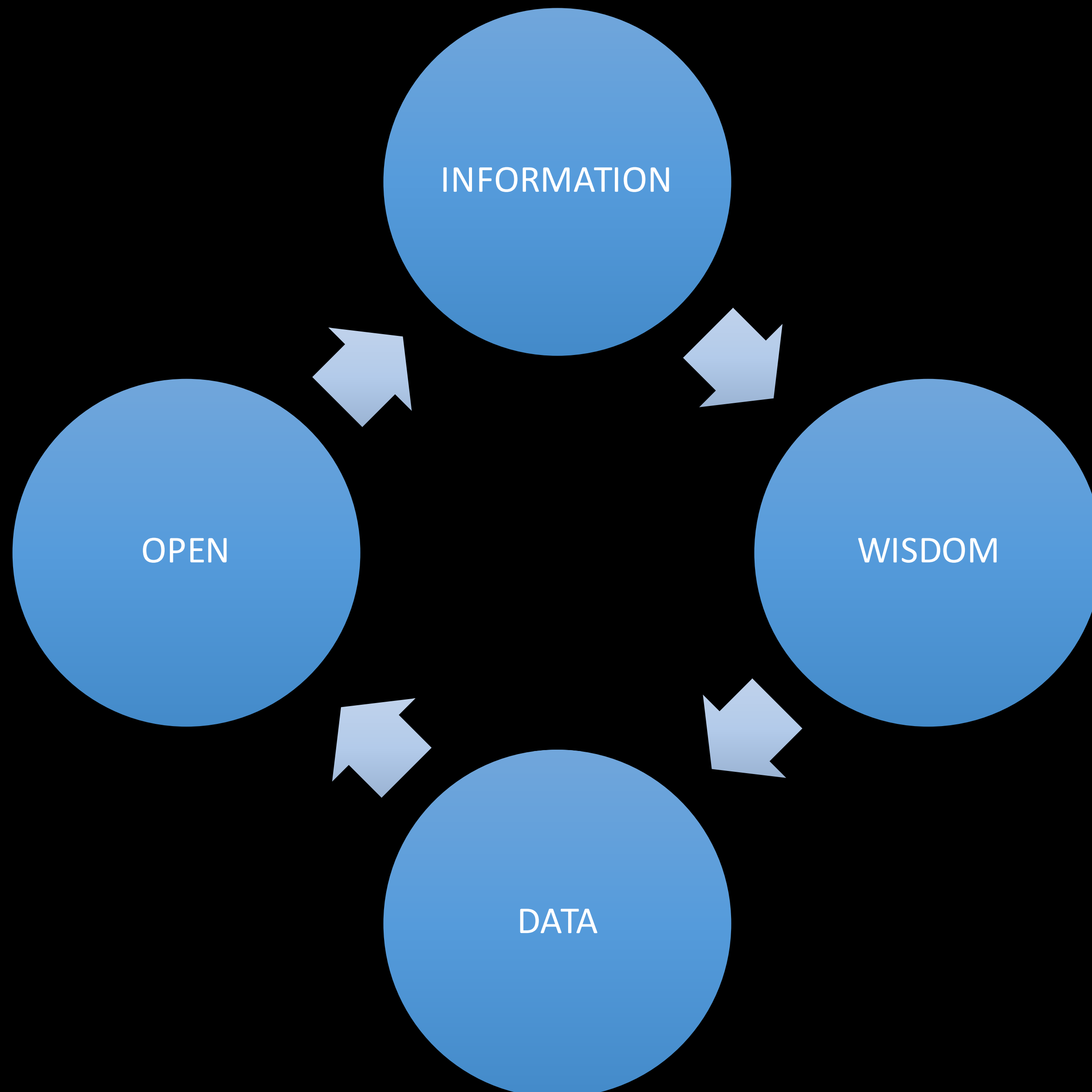
60% dos jovens

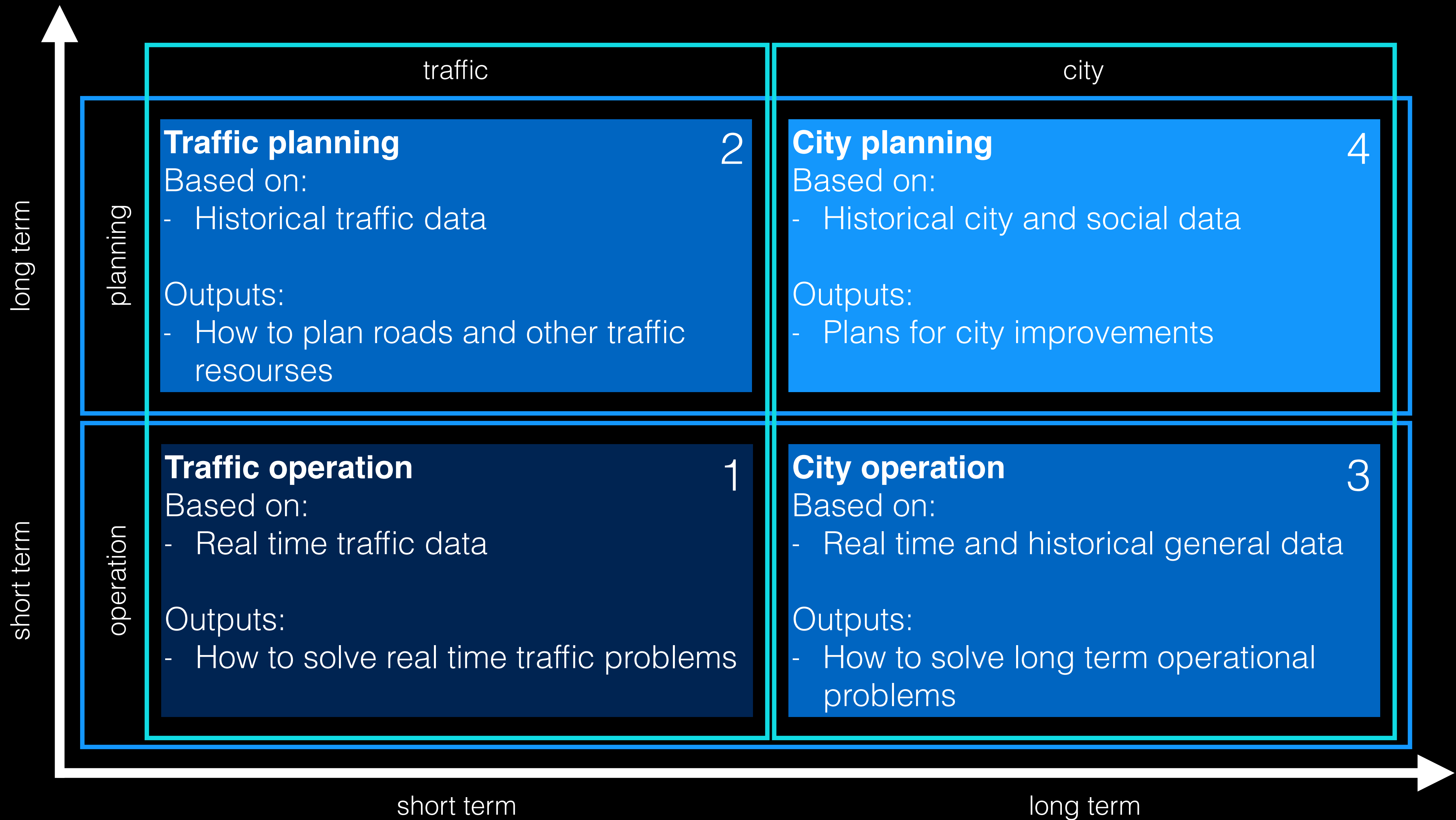
**9% do
tempo dos cidadãos**

15% de nosso PIB

DIKW PYRAMID









UBER

○ Marina
San Francisco

● Downtown
San Jose

ESTIMATED PRICING

VTOL

Initial	\$129
Near-term	\$43
Long-term	\$20

Today

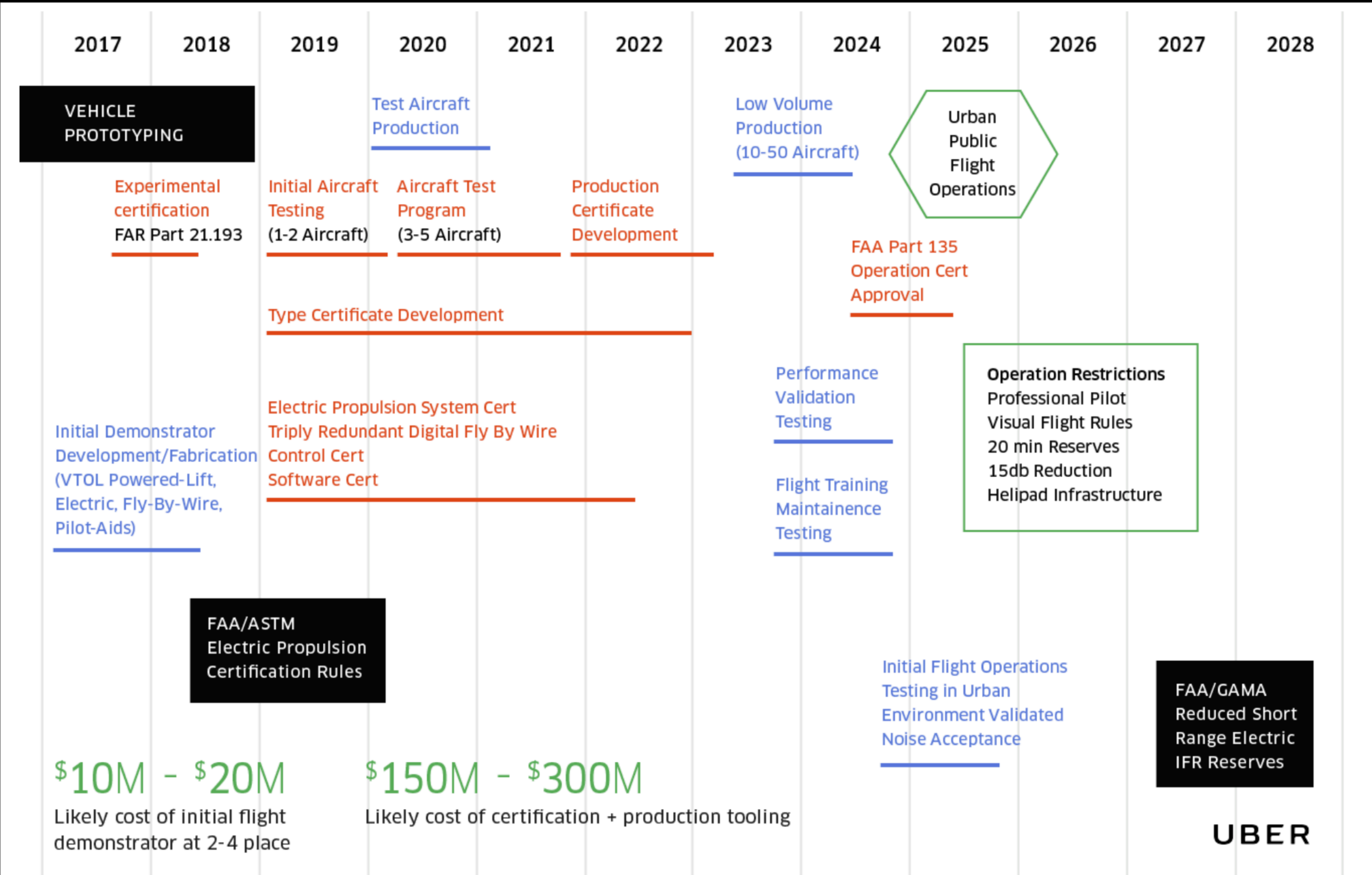
uberX	\$111
uberPOOL	\$83
uberX + Transit	\$31

• Caltrain
TIME 2hr 12min
DIST 55.4mi

• VTOL
TIME 15min
DIST 43.3mi

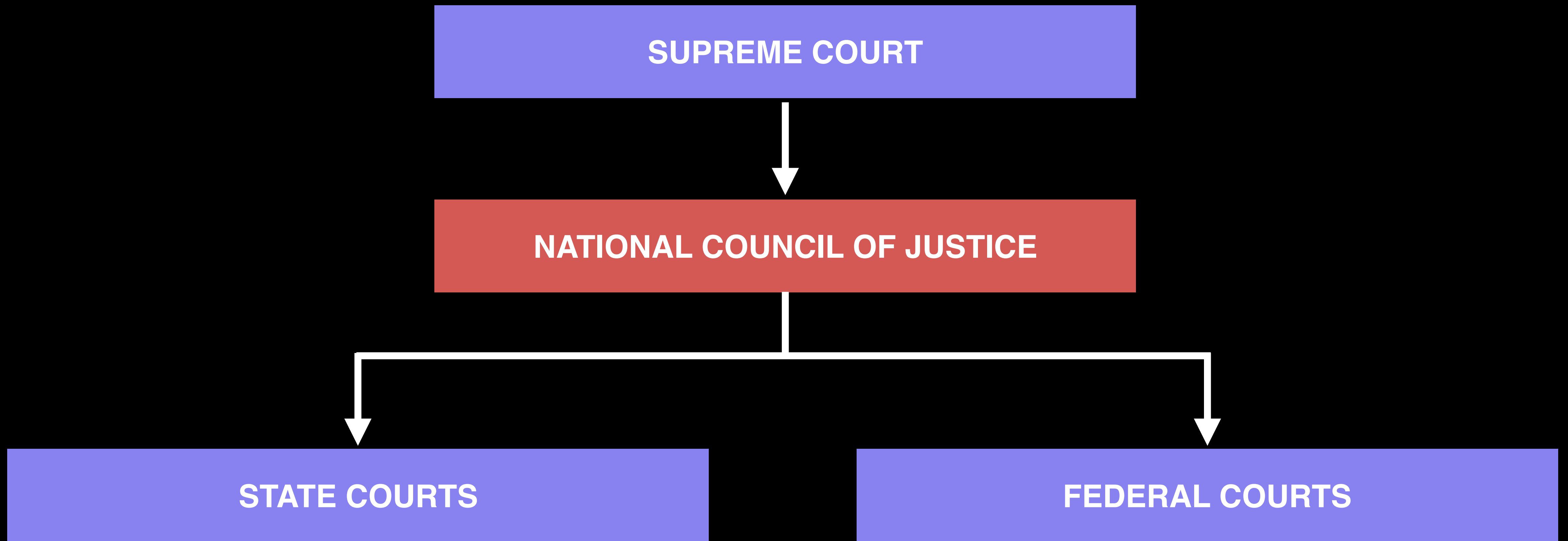
• uberX
TIME 1hr 40min
DIST 56.9mi





UBER

THE POWER OF DATA: DATABASES CONSTITUTIONAL AMENDMENT



JUSTICE IN NUMBERS ANNUAL REPORT

Justices Discuss in Supreme Session

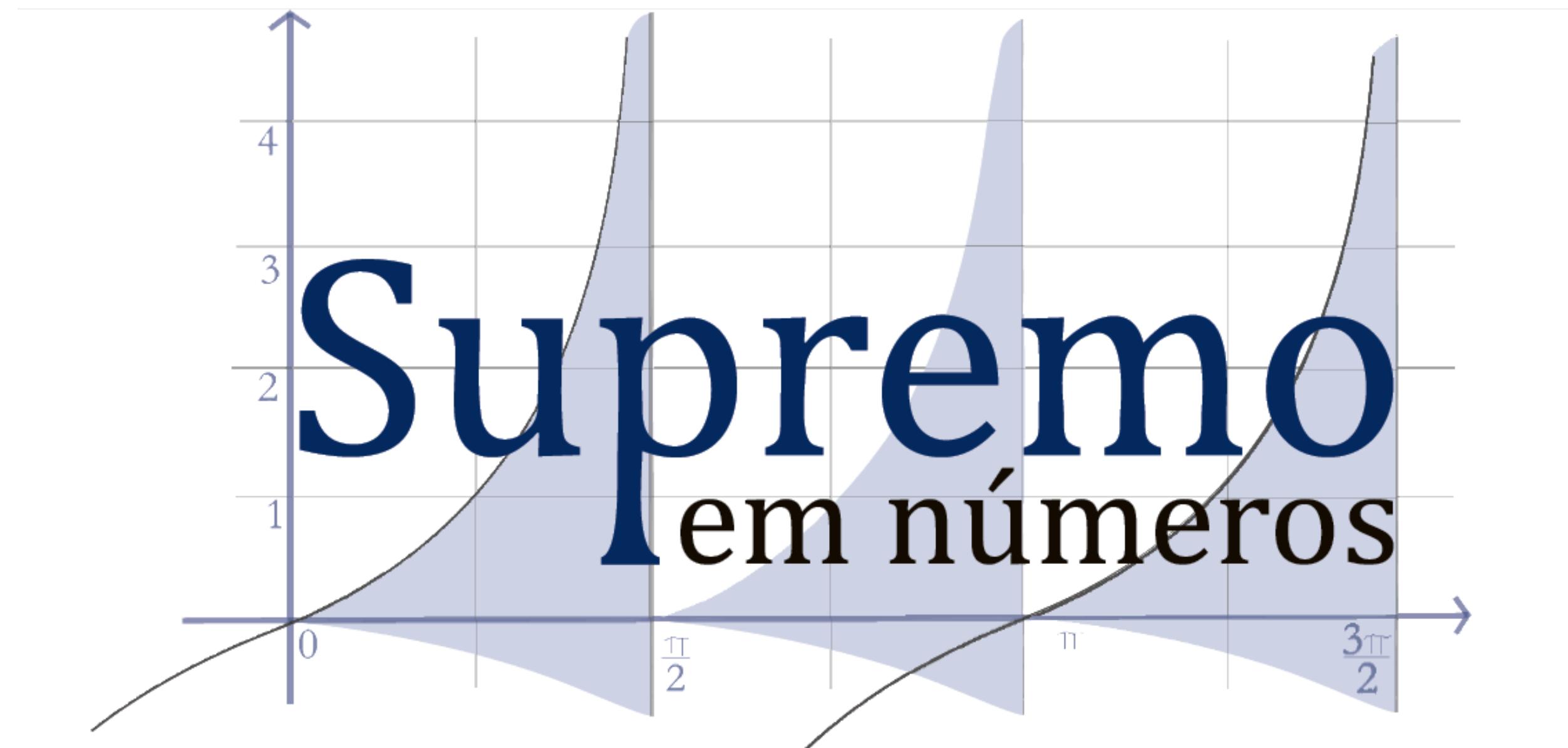
Estado de São Paulo - 09/09/2009

"I do not accept that the Supreme is placed on the CNJ's (National Council of Justice) website such as it were be submitted to that institution. And the Supreme is not. The court is supreme. We do not report to the CNJ" said Marco Aurélio.

Marco Aurélio says the CNJ bypasses the Constitution

CONJUR - 09/09/2009

*"I do not accept that the **data of Supreme** is placed on the CNJ's (National Council of Justice) website such as it were be submitted to that institution. And the Supreme is not. The court is supreme. We do not report to the CNJ"* said Marco Aurélio.



<http://www.fgv.br/supremoemnumeros>

1,222,102 legal cases since 1988

13,789,366 procedural acts

13,789,366 procedural acts since 1988

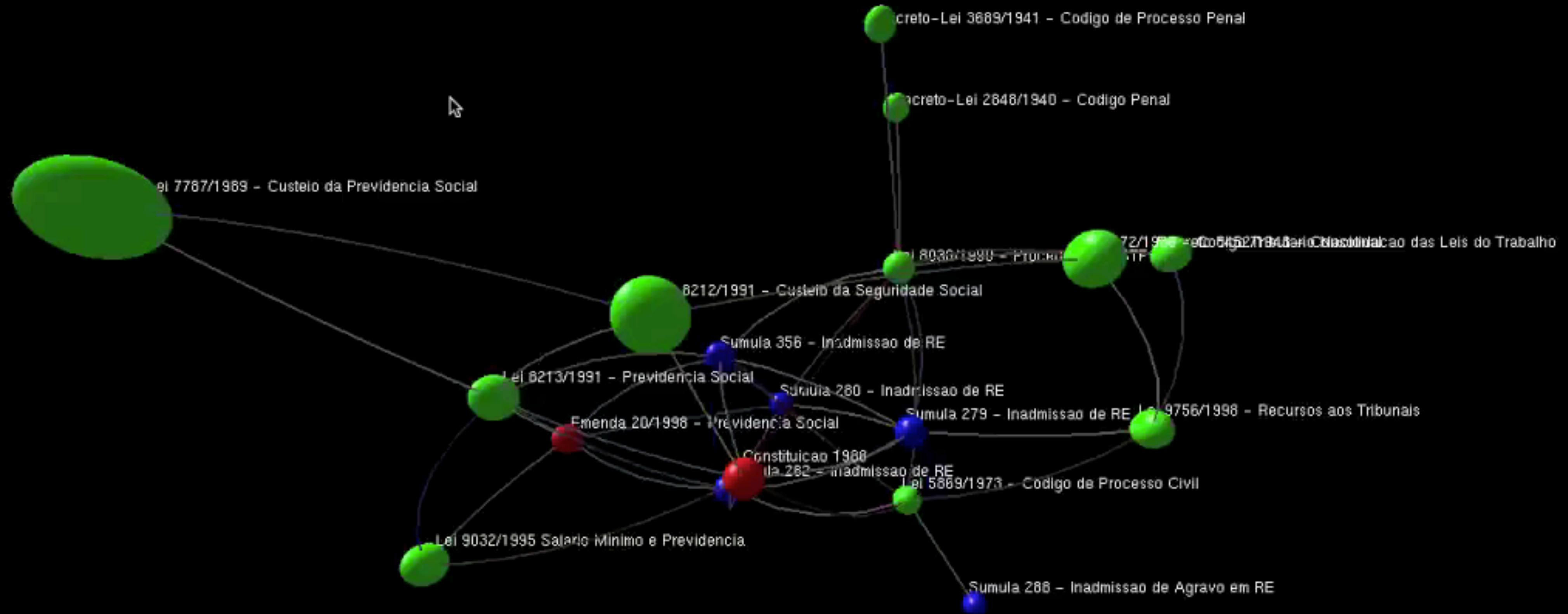
656,636 per year

2,526 per day

316 per hour

5.26 per minute

THE FABRIC OF THE BRAZILIAN LEGAL SYSTEM



COMO
GOVERNAR
EM UMA
SOCIEDADE LÍQUIDA?

FGV DIREITO RIO

*CENTRO DE TECNOLOGIA
E SOCIEDADE*

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