



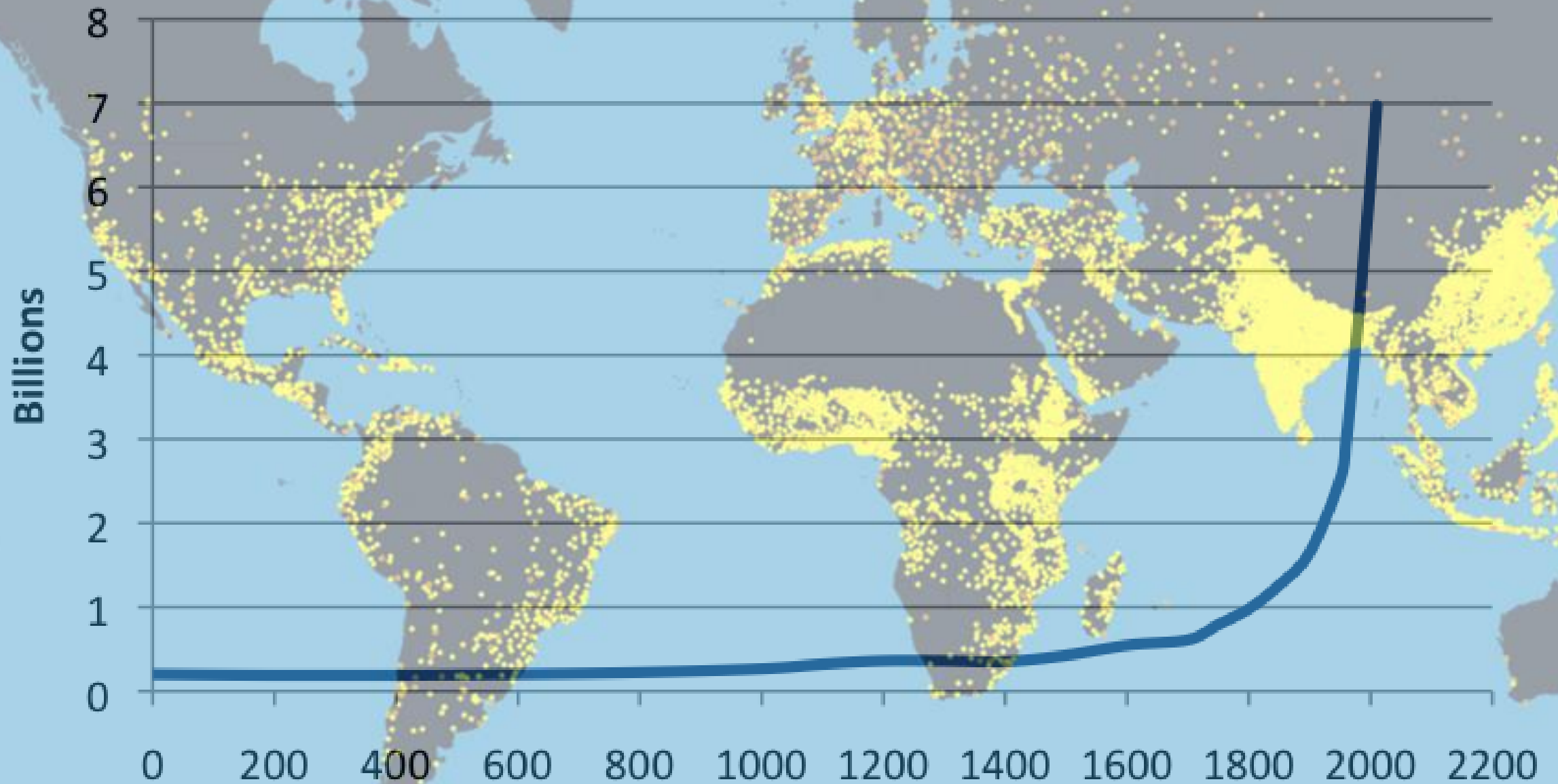
XXII SEMINARIO INTERNACIONAL

LAS NUEVAS TECNOLOGÍAS INCORPORADAS AL MUNDO
DE LAS MICROFINANZAS Y EL DESARROLLO SOCIAL

rutaⁿ
MEDELLÍN
CENTRO DE INNOVACIÓN Y NEGOCIOS

 @eecheverri

World Population



12 HORAS DE MEDELLIN A RIONEGRO EN UN AUTOMOVIL "FORD"

Famoso record conseguido por los señores Luis E. Cabra y Félix Quintero, el 12 de mayo de 1925. Salidos de Medellín a las 7 de la mañana, estuvieron en Rionegro a las 7 de la noche del mismo día.

RUTA: Medellín, Santa Elena, Salazar, Rionegro.

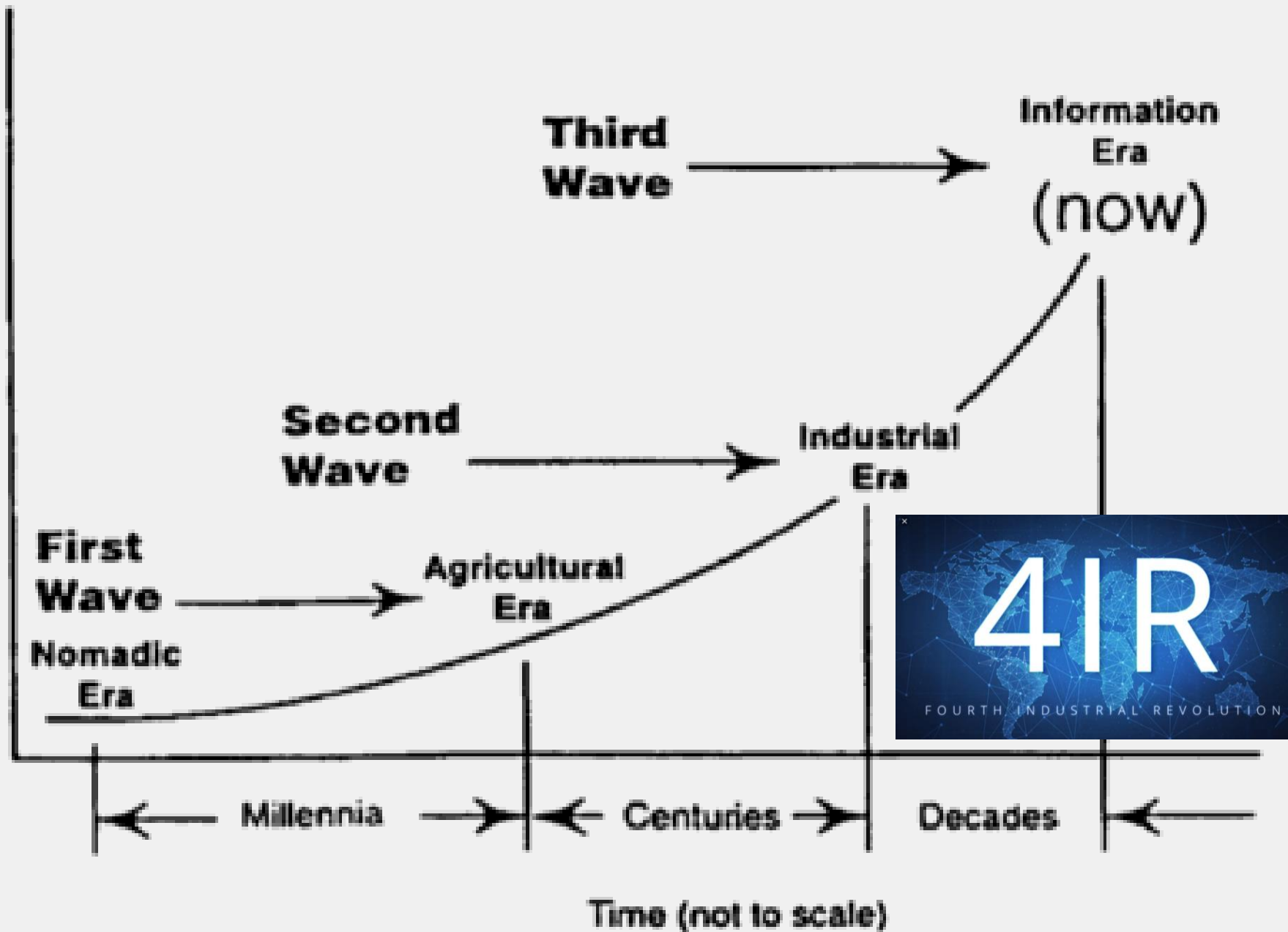


Los documentos de estos dos records están a la orden del público en nuestras oficinas.

INDUSTRIAL REVOLUTION



Smithsonian



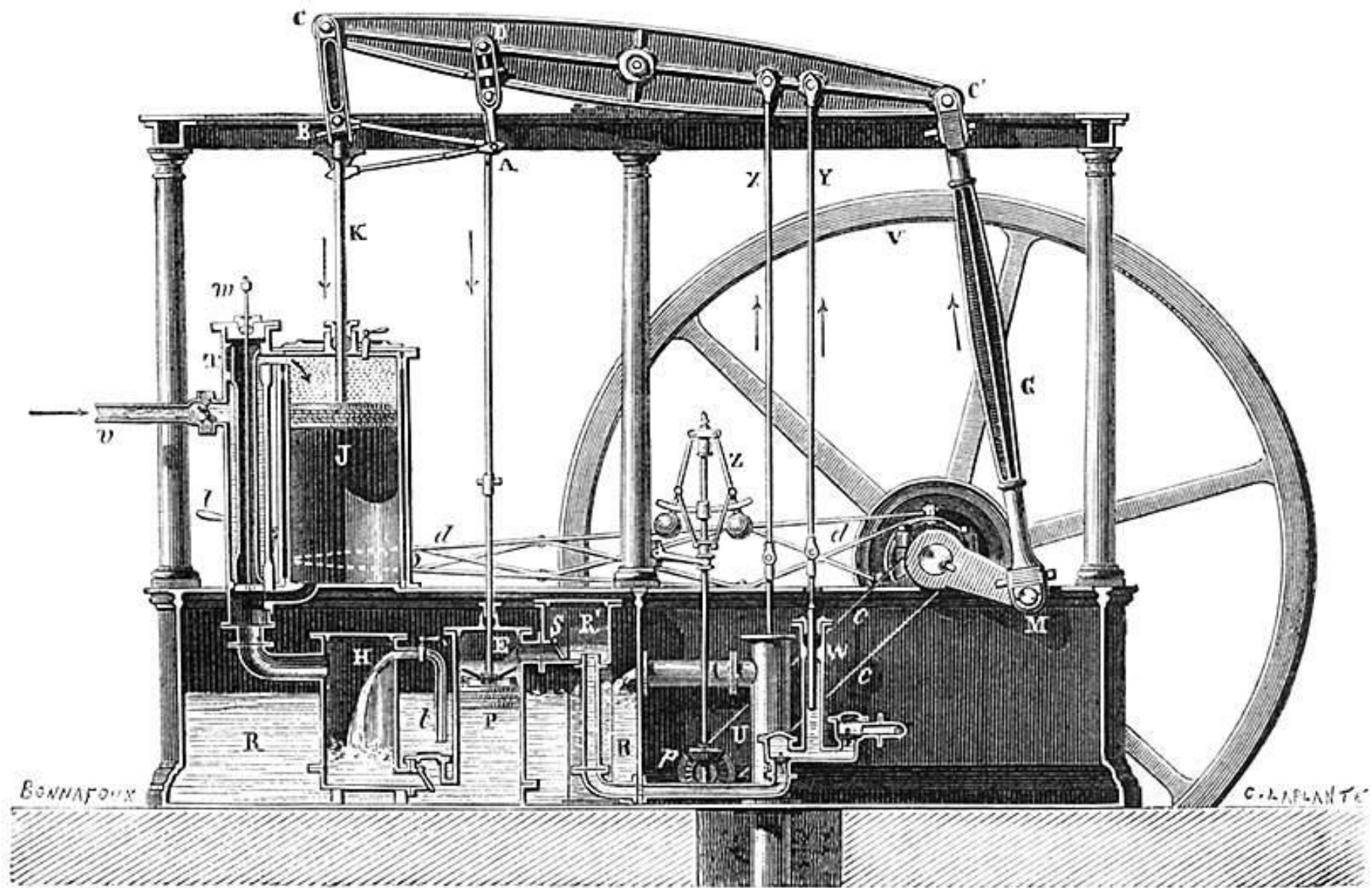
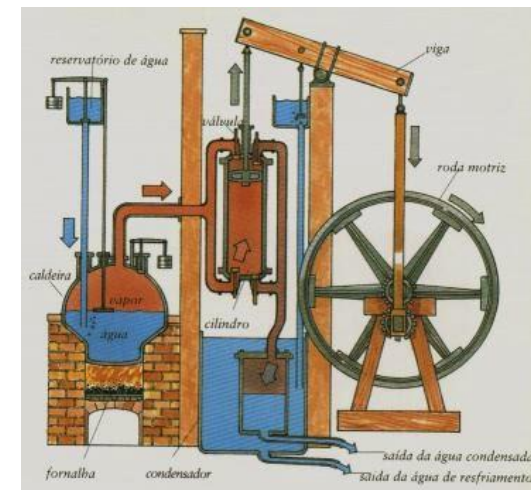
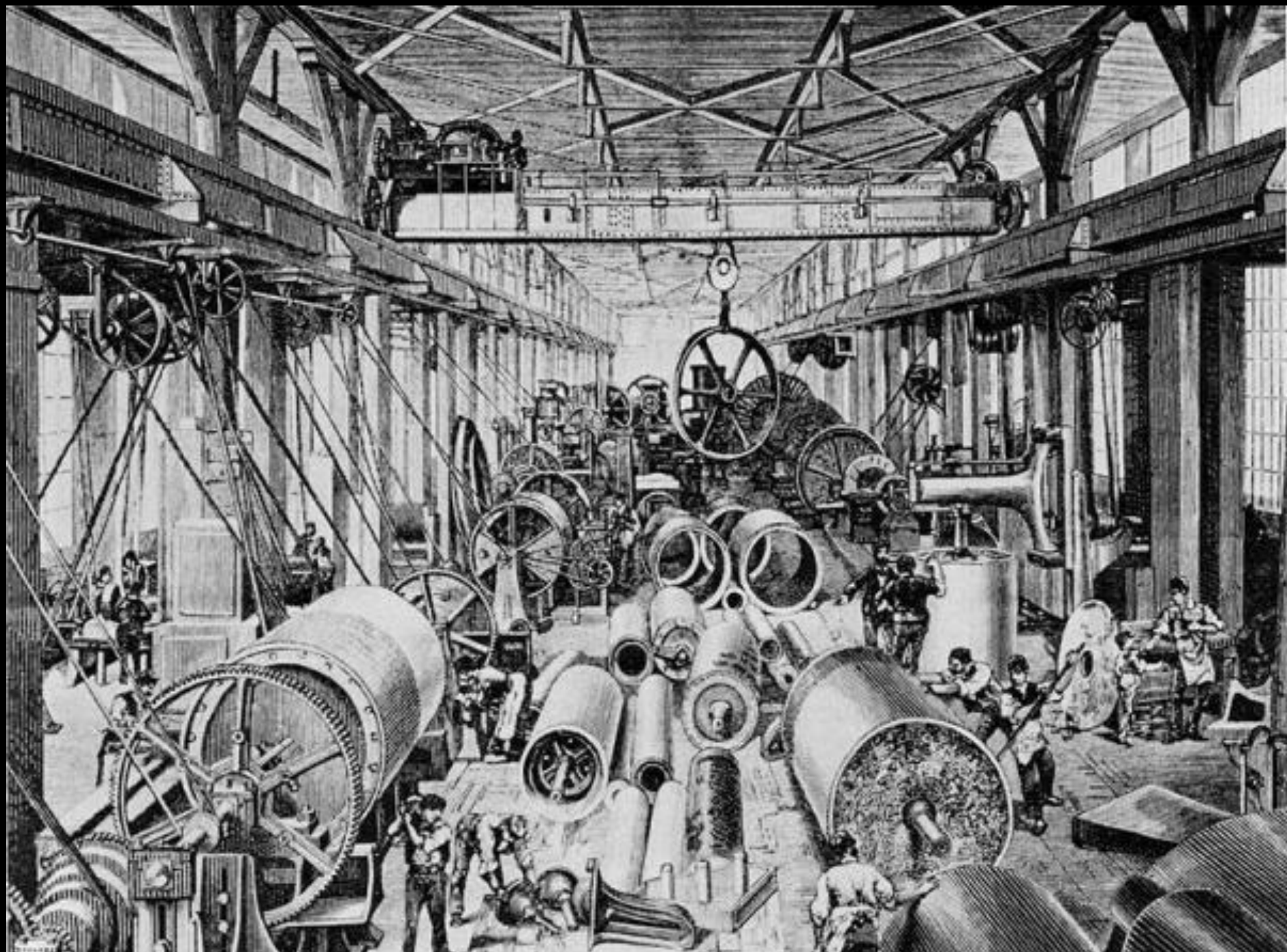
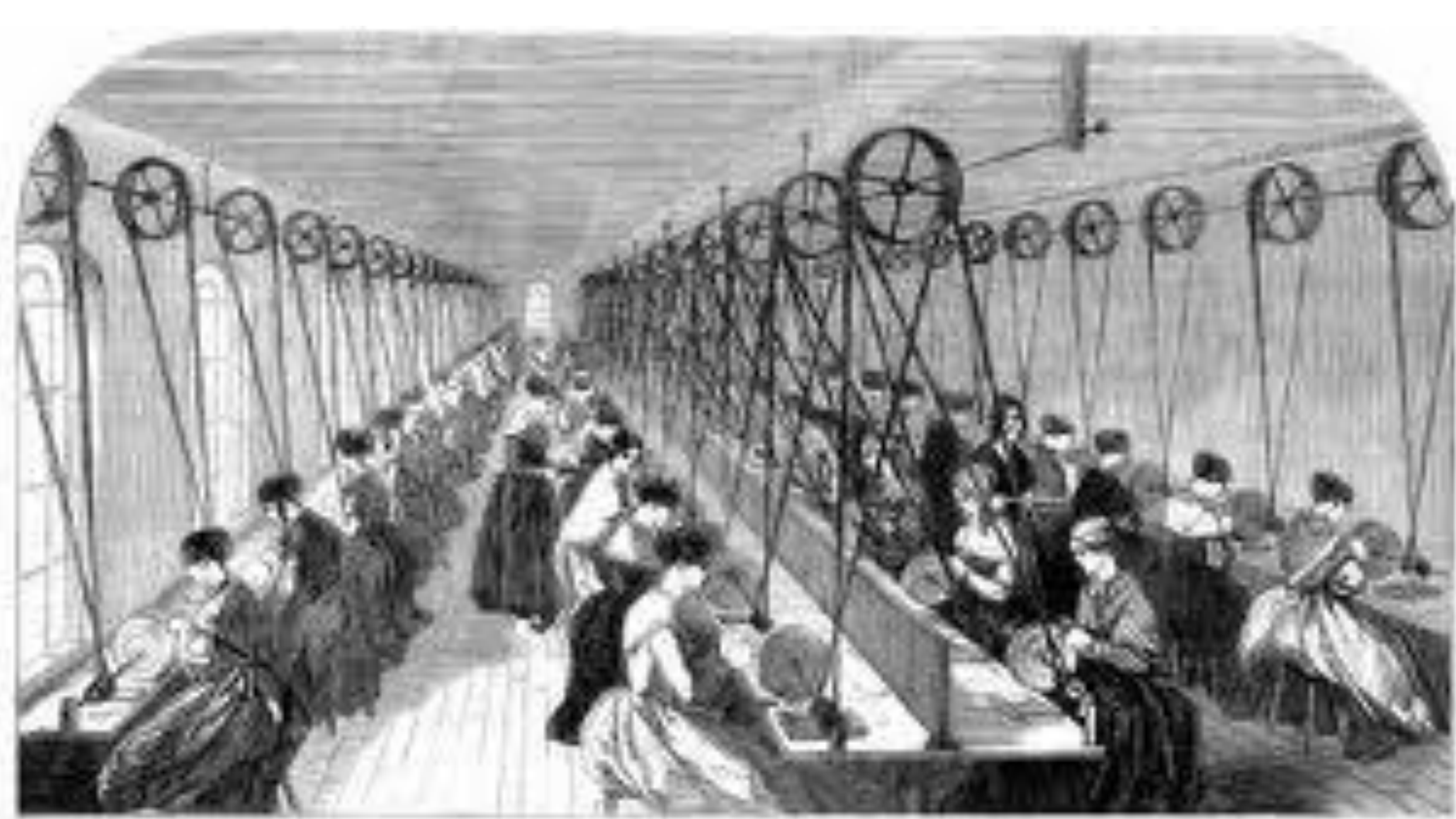


Fig. 59. — Machine à balancier de Watt.

e. Tuyau de prise de vapeur; T, tiroir; J, cylindre; H, condenseur; PE pompe d'épuisement; WY pompe alimentaire de la chaudière
 UX pompe d'alimentation de la bûche R; p Z régulateur; dd excentrique; ABCD parallélogramme; GM bielle et manivelle; V volant.



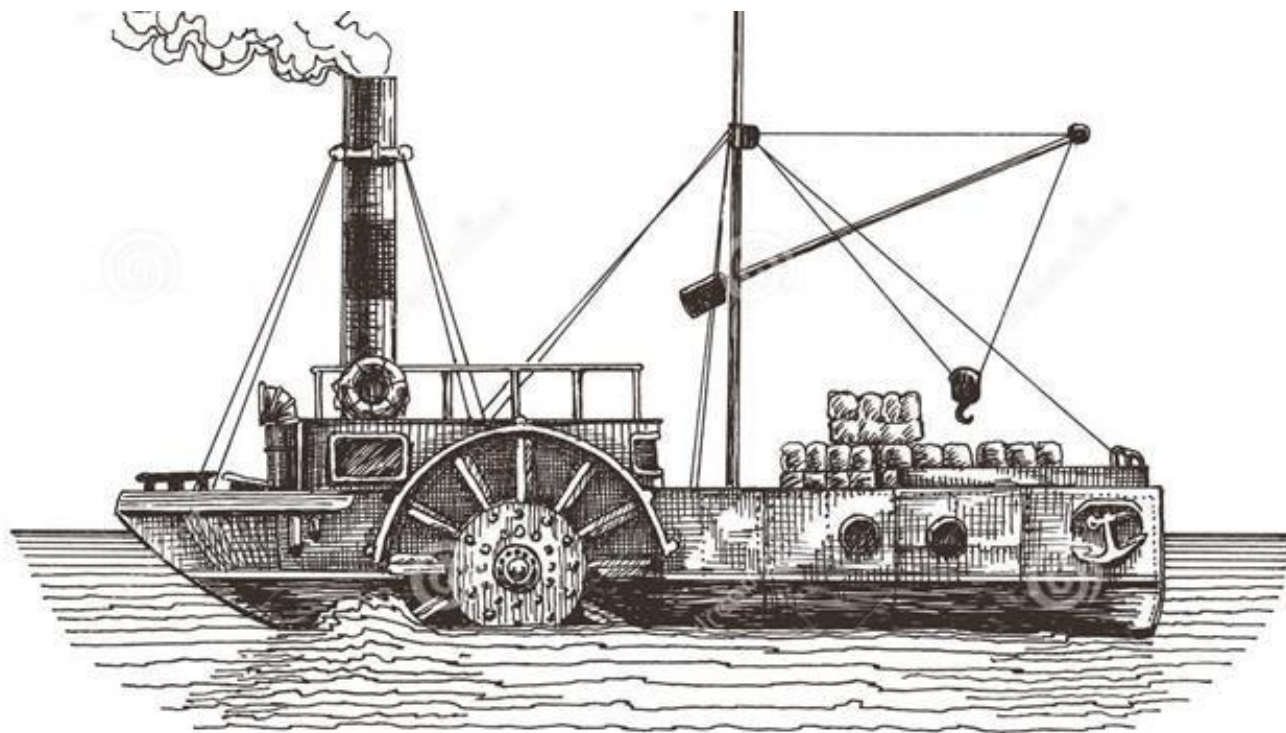




INDUSTRIAL



REVOLUTION

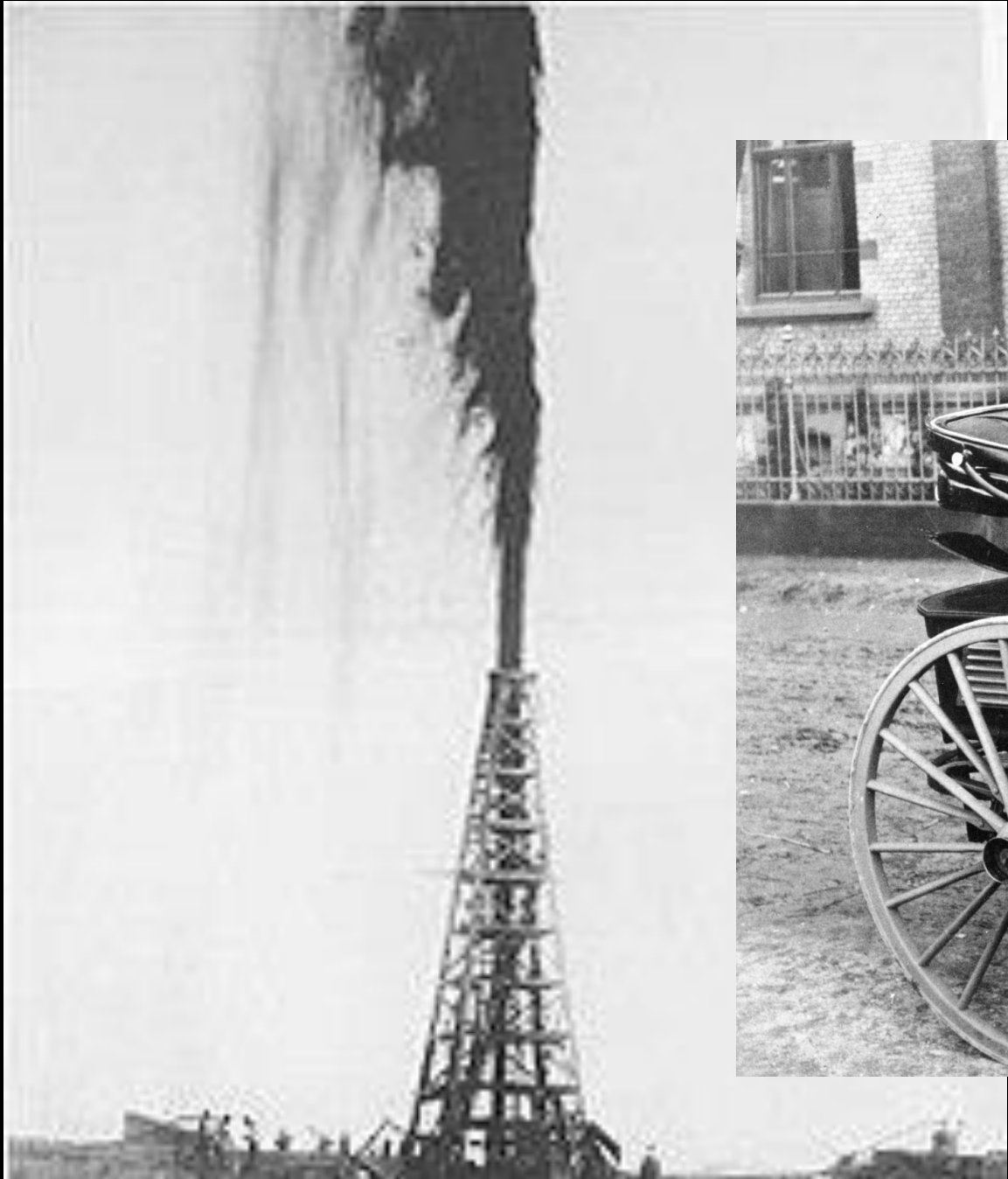






4IR

FOURTH INDUSTRIAL REVOLUTION











Marconi Wireless Station, Glace Bay, C.B.













4IR

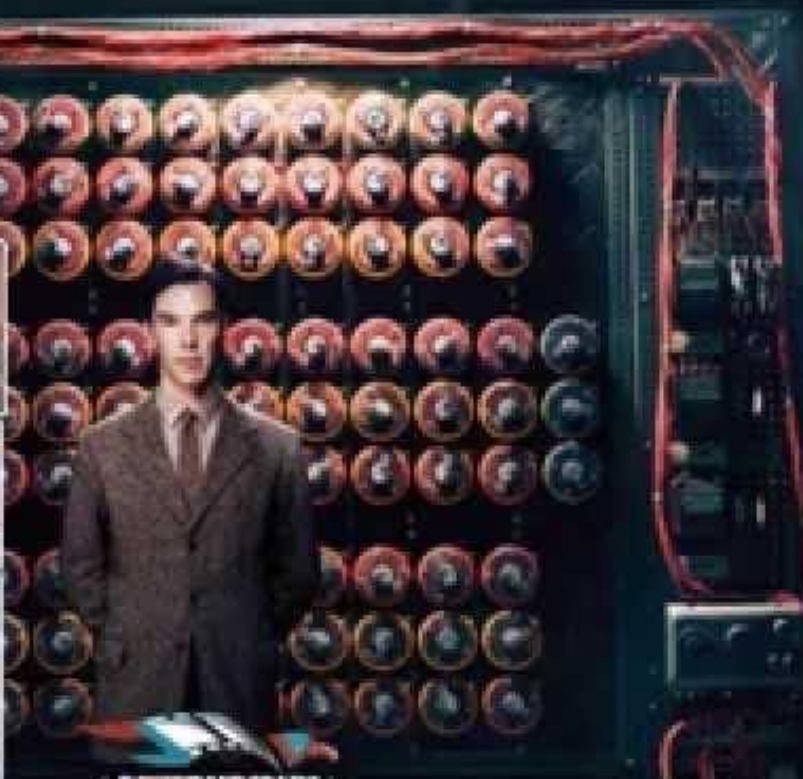
FOURTH INDUSTRIAL REVOLUTION



SEGUNDA GUERRA MUNDIAL

DECLASSIFIED

EL HOGAR DEL MATEMÁTICO, ANALISTA Y HÉROE DE GUERRA ALAN TURING (BENEDICT CUMBERBATCH), CON LA INTENCIÓN DE INVESTIGAR LA DENUNCIA DE UN ROBO, ACABARON ARRESTANDO A TURING ACUSÁNDOLE DE "INDECENCIA GRAVE", UN CARGO QUE LE SUPONDRÍA A UNA DEVASTADORA CONDENA POR, LO QUE EN AQUEL ENTONCES SE CONSIDERABA UNA OFENSA CRIMINAL, SER HOMOSEXUAL. LOS OFICIALES NO TENÍAN NI IDEA DE QUE EN REALIDAD ESTABAN INCRIMINANDO AL PIONERO DE LA INFORMÁTICA ACTUAL.



+ COVER DVD GRATIS +
WWW.COVERDVDGRATIS.COM



★★★★★
AVVINCENTE E STRUGGENTE
UN GRANDE FILM
HOLLYWOOD REPORTER

★★★★★
COMPLESSO, IMPECCABILE,
UNICO. DA OSCAR®
VARIETY

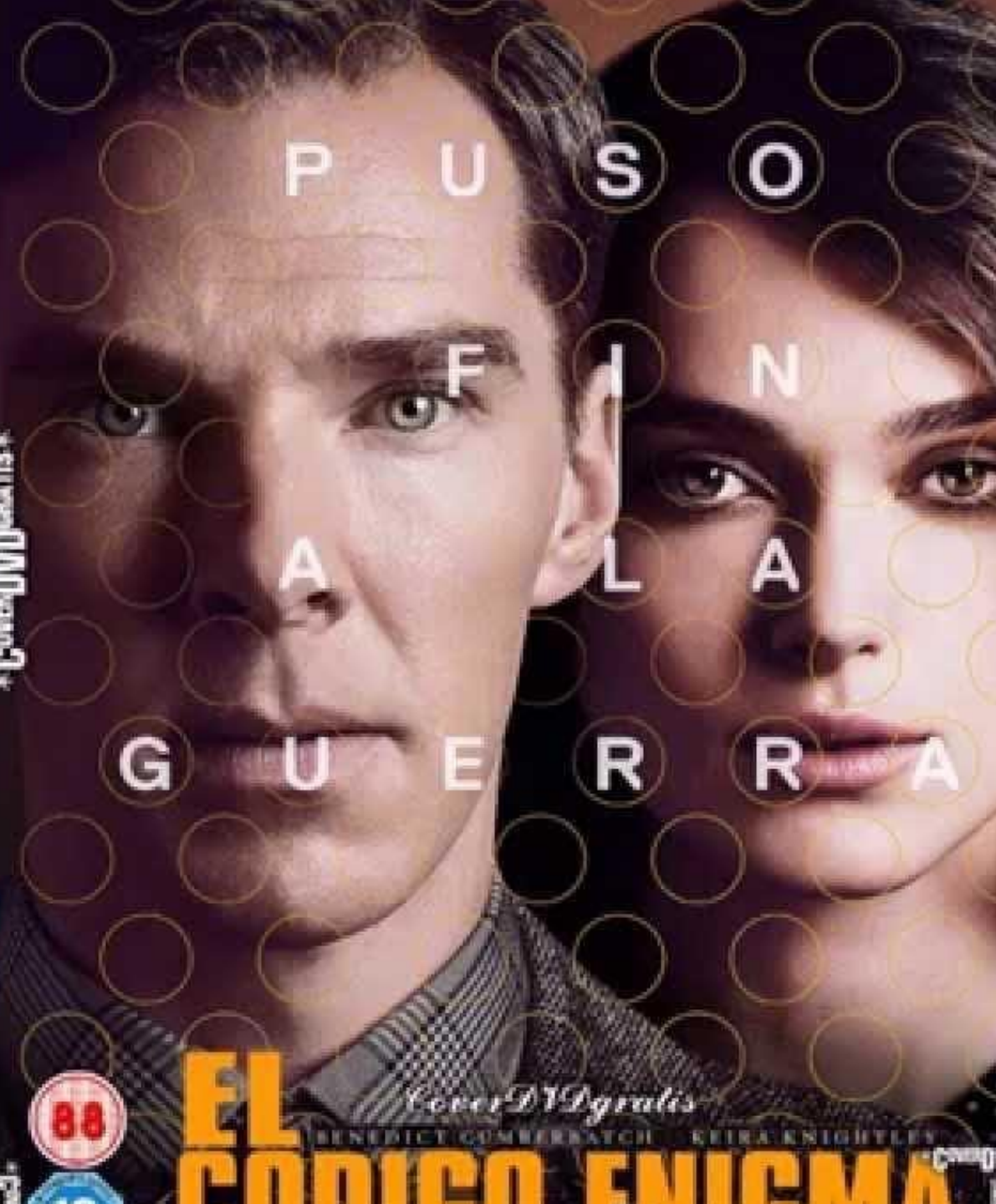


REGION 1	COLOUR/REGION 104 MINS	1499 1.78 1080p HD 1499 1.78	ENGLISH FRANCAIS 5.1 DTS-ES ENGLISH FRANCAIS 5.1 DOLBY DIGITAL	ENGLISH DSH	CANADA ACTION 2012
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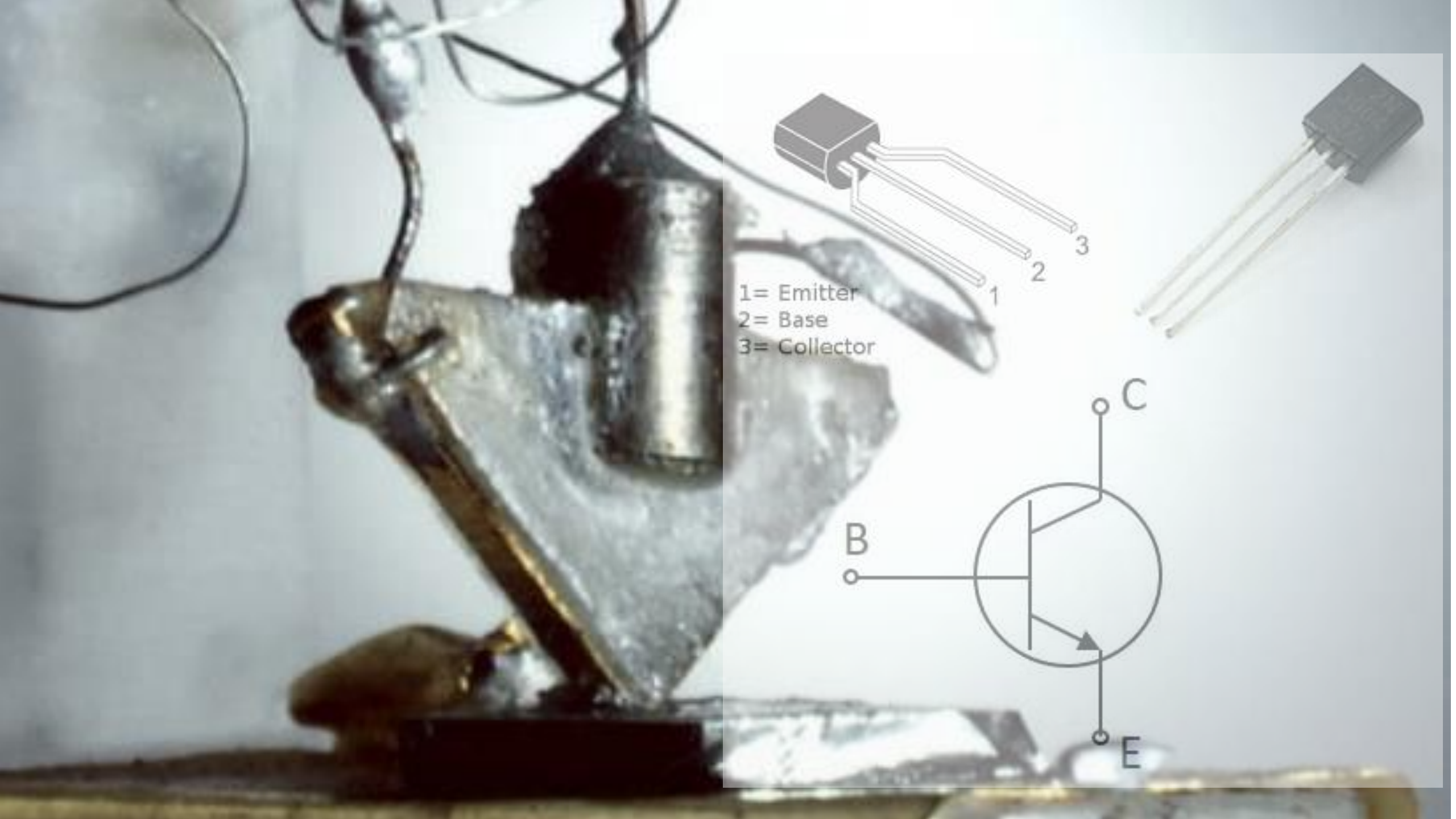


EL CODIGO ENIGMA

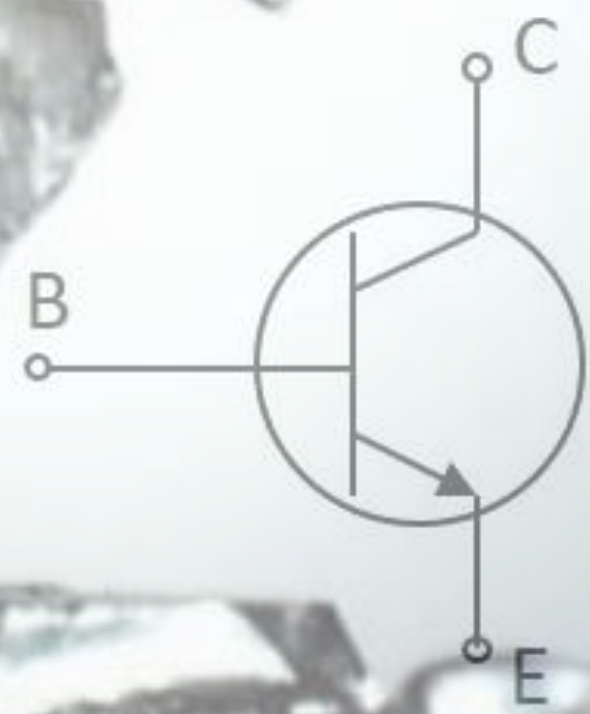
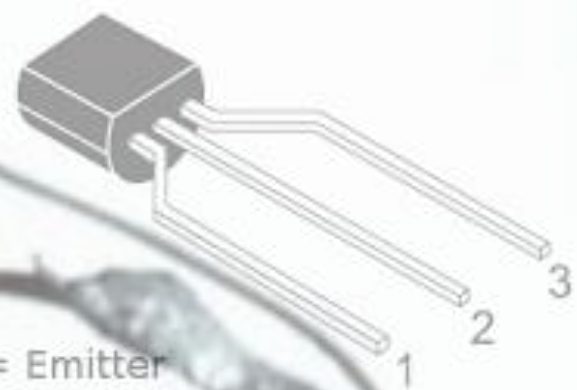
+ COVER DVD GRATIS +

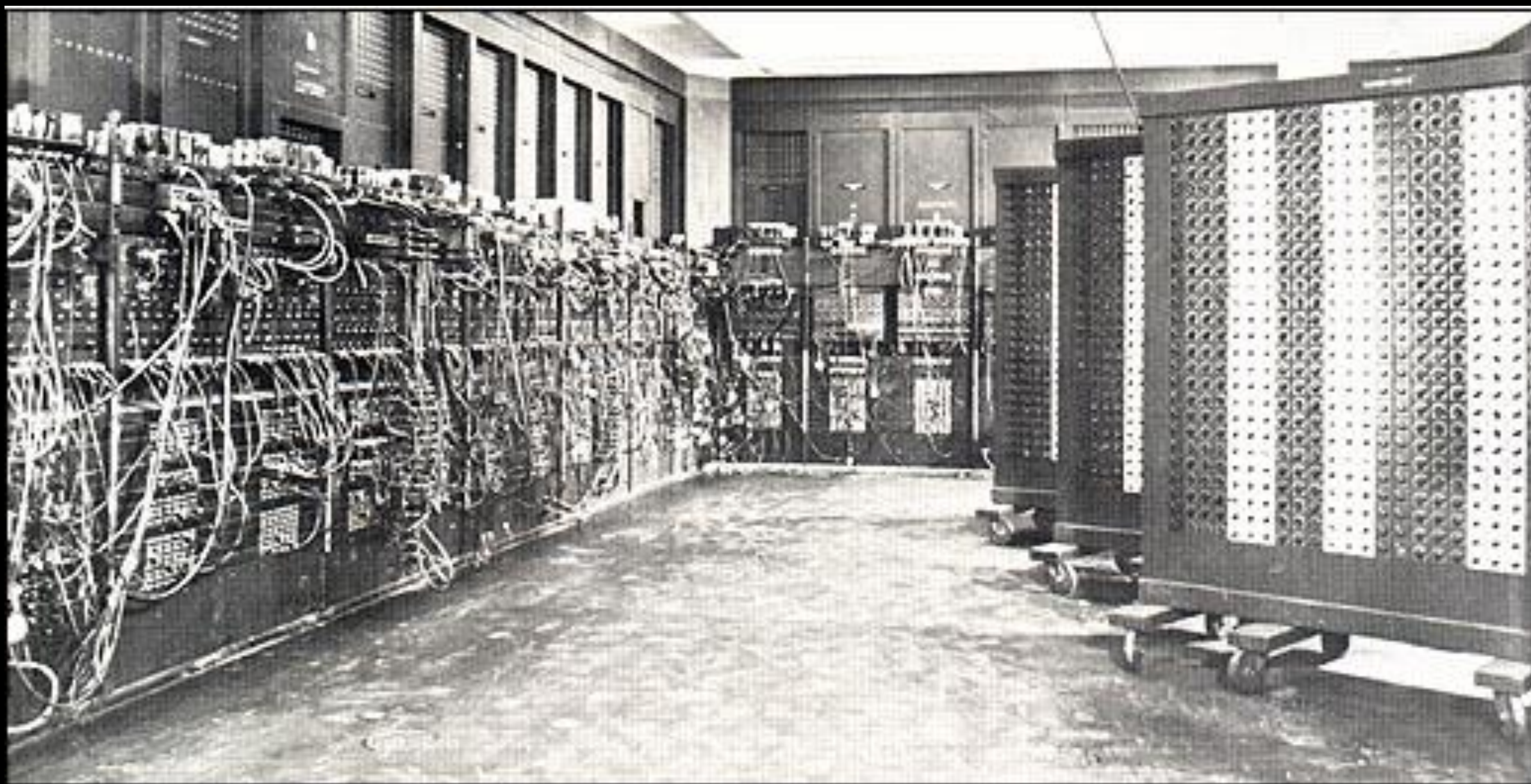


EL CODIGO ENIGMA
BENEDICT CUMBERBATCH KEIRA KNIGHTLEY
Cover DVD gratis

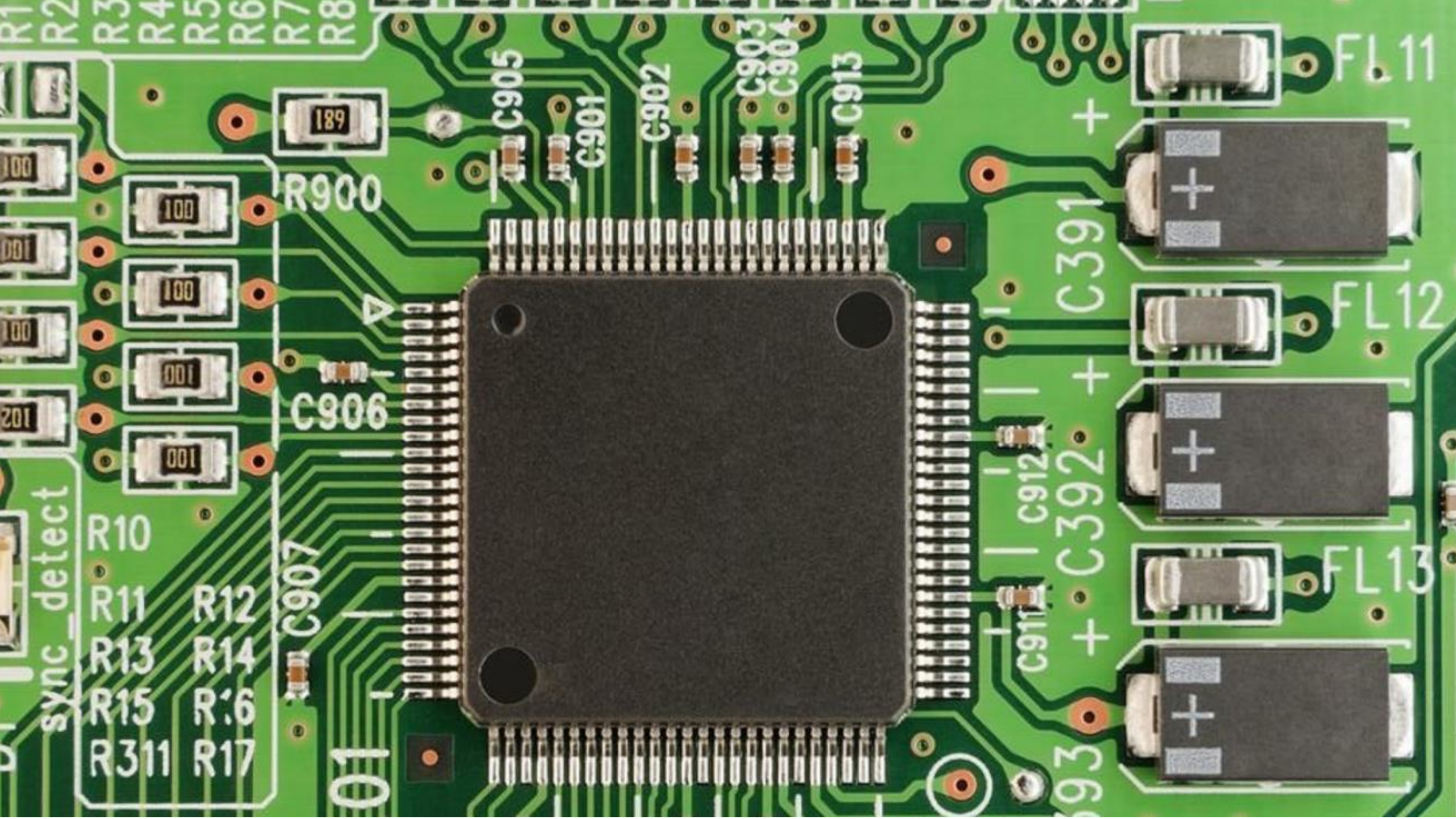


1= Emitter
2= Base
3= Collector





Among the first assignments given to Eniac, first all-electronics digital computer, was a knotty problem in nuclear physics. It produced the answer in two hours. One hundred engineers using conventional methods would have needed a year to solve the problem



sync_detect

R10

R11

R12

R13

R14

R15

R16

R311

R17

C907

C906

R900

C905

C901

C902

C903

C904

C913

C911

C912

C393

C392

C391

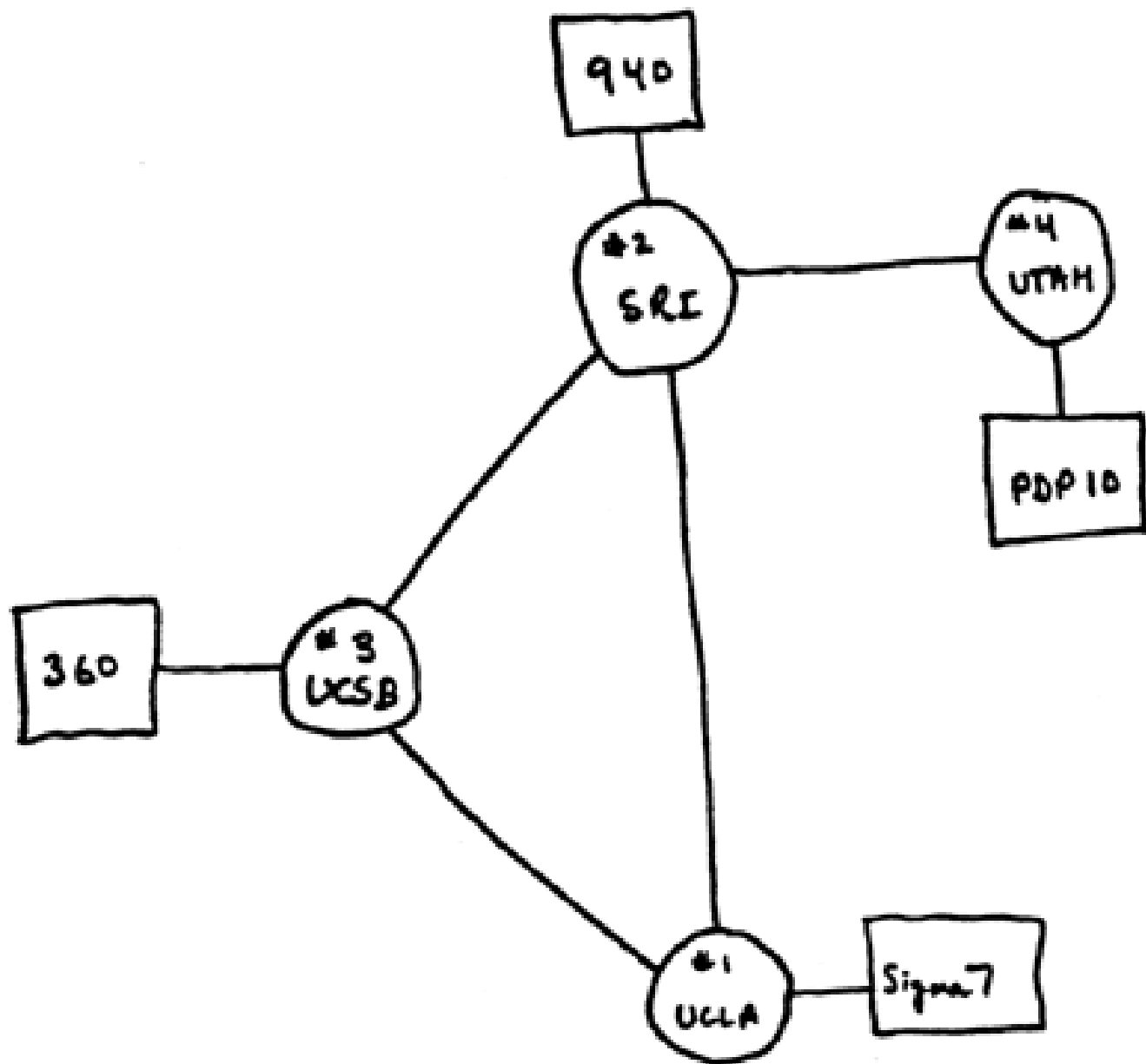
FL13

FL12

FL11

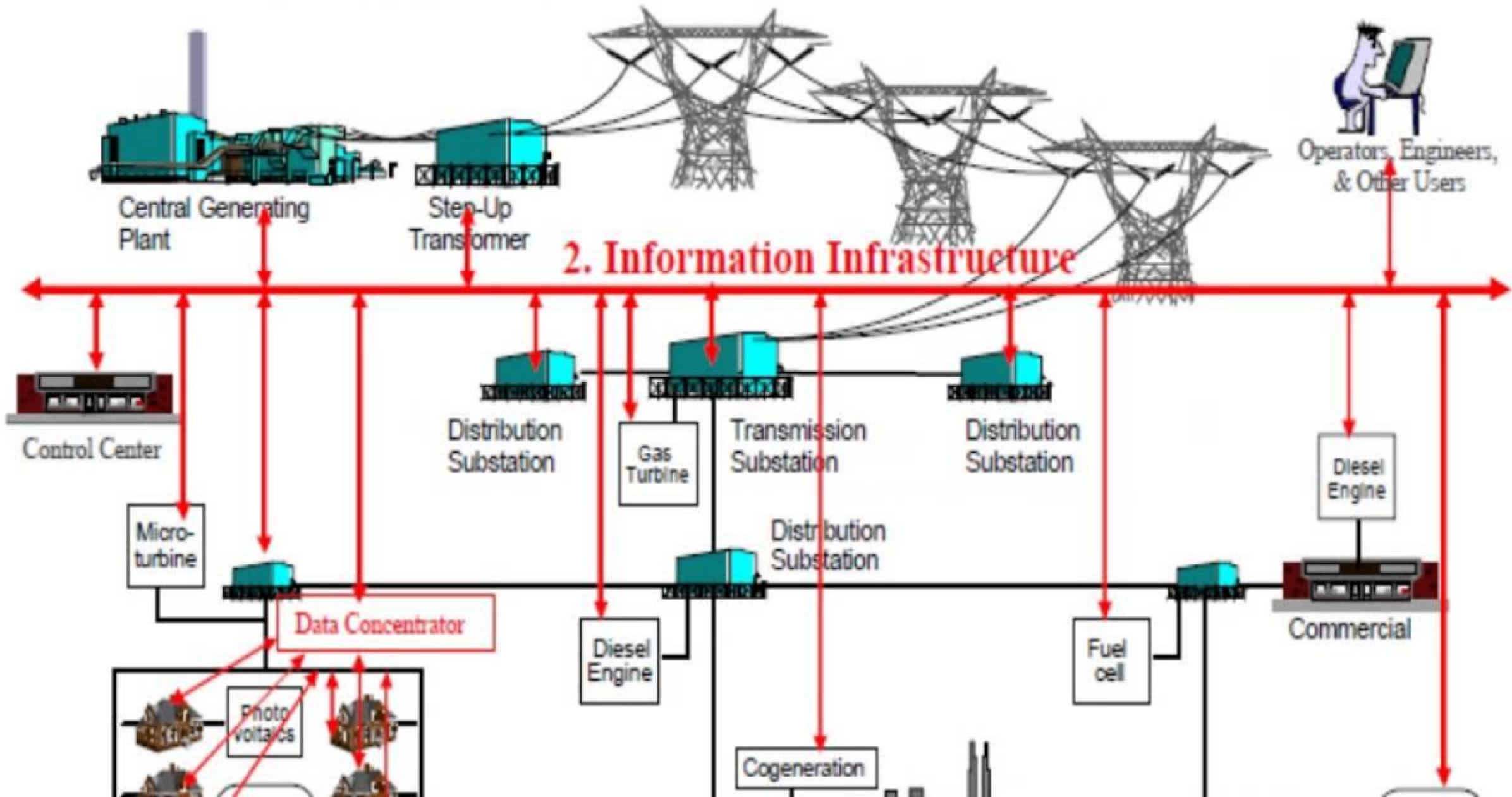
01





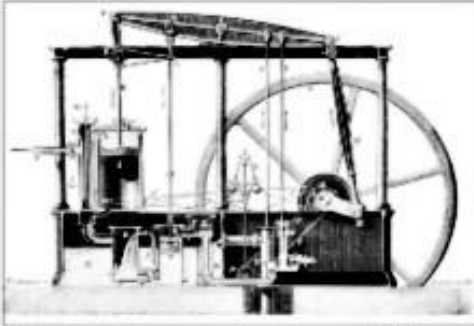


1. Power Infrastructure



PRIMERA REVOLUCIÓN

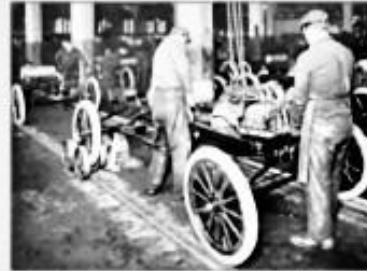
Introducción de sistemas de producción mecánicos con tracción hidráulica y de vapor.



Máquina de vapor de James Watt.

SEGUNDA REVOLUCIÓN

Producción en serie, división del trabajo de producción, uso de sistemas eléctricos. Industria química, eléctrica y automovilística.



Cadena de montaje de Ford

TERCERA REVOLUCIÓN

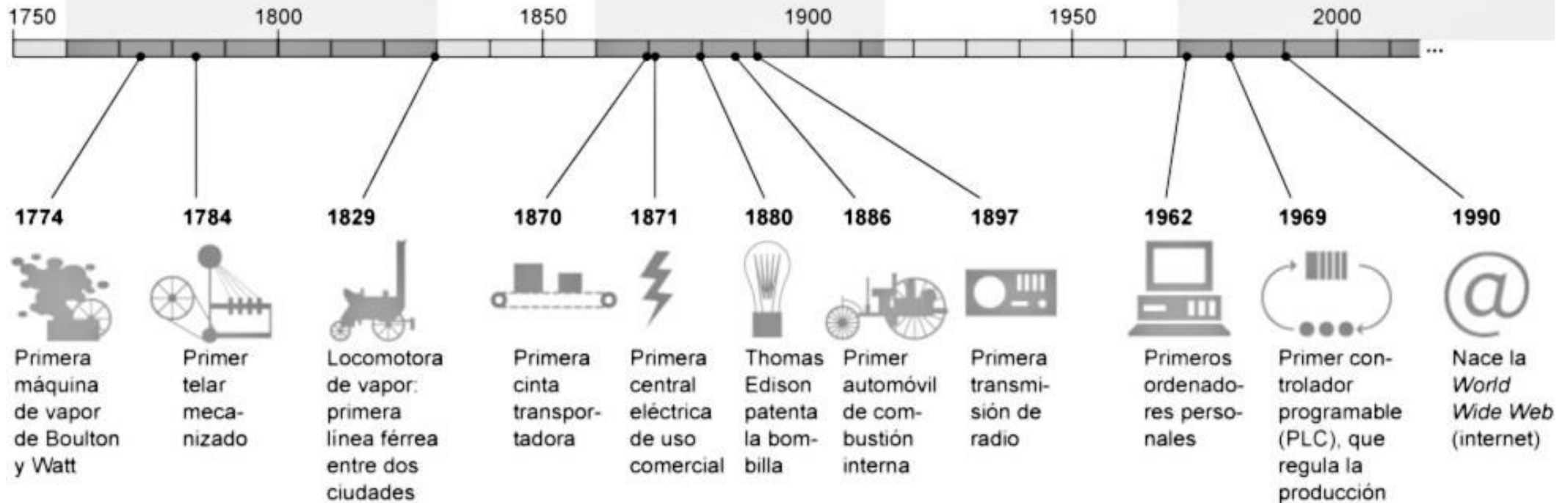
Incorporación de microelectrónica y tecnología de la información para automatizar toda la producción.



Robots en una fábrica.

Fábricas 4.0

Sistemas interconectados en todo el proceso productivo, impresiones 3D y robots colaborativos





4IR

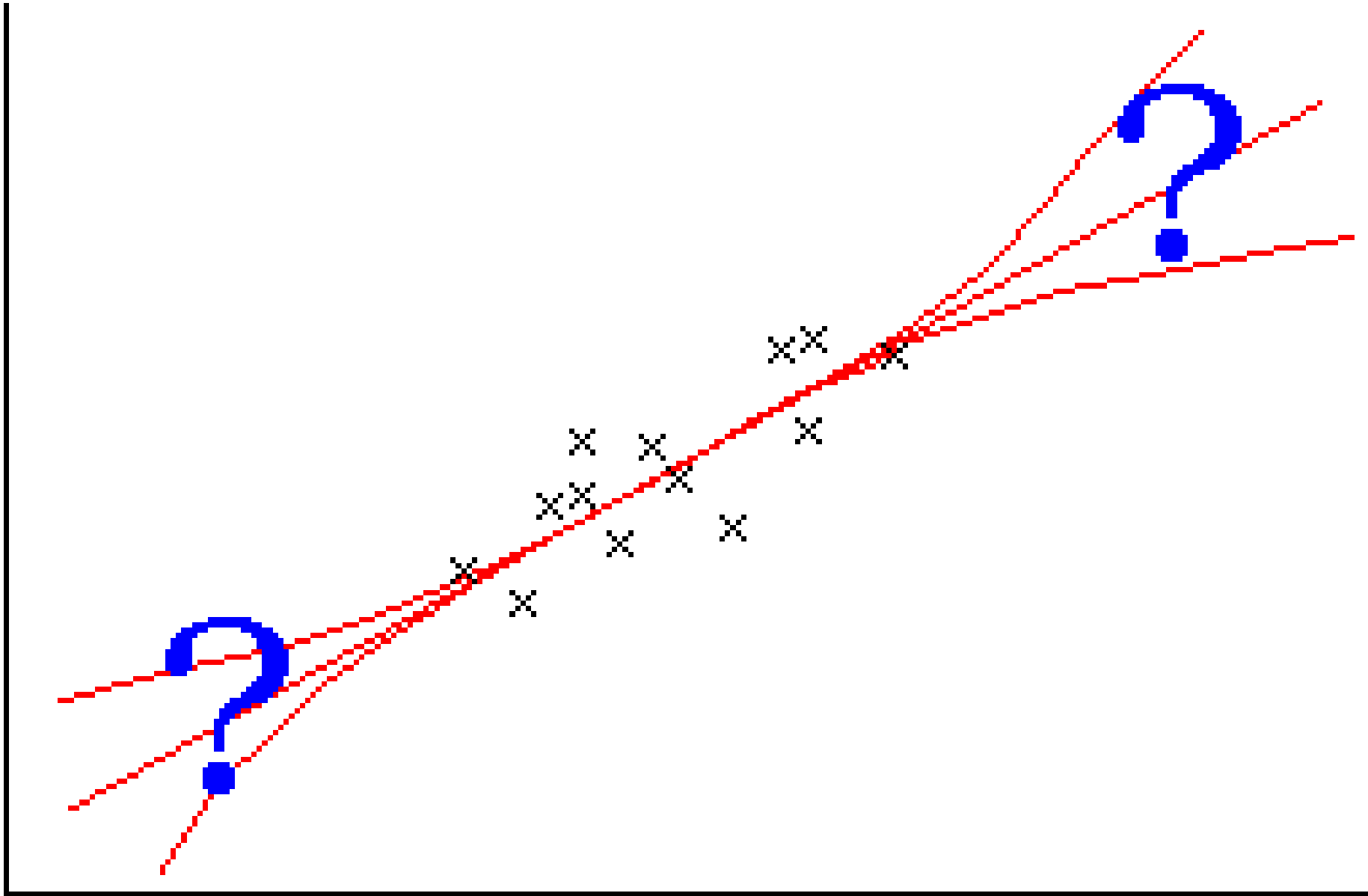
FOURTH INDUSTRIAL REVOLUTION

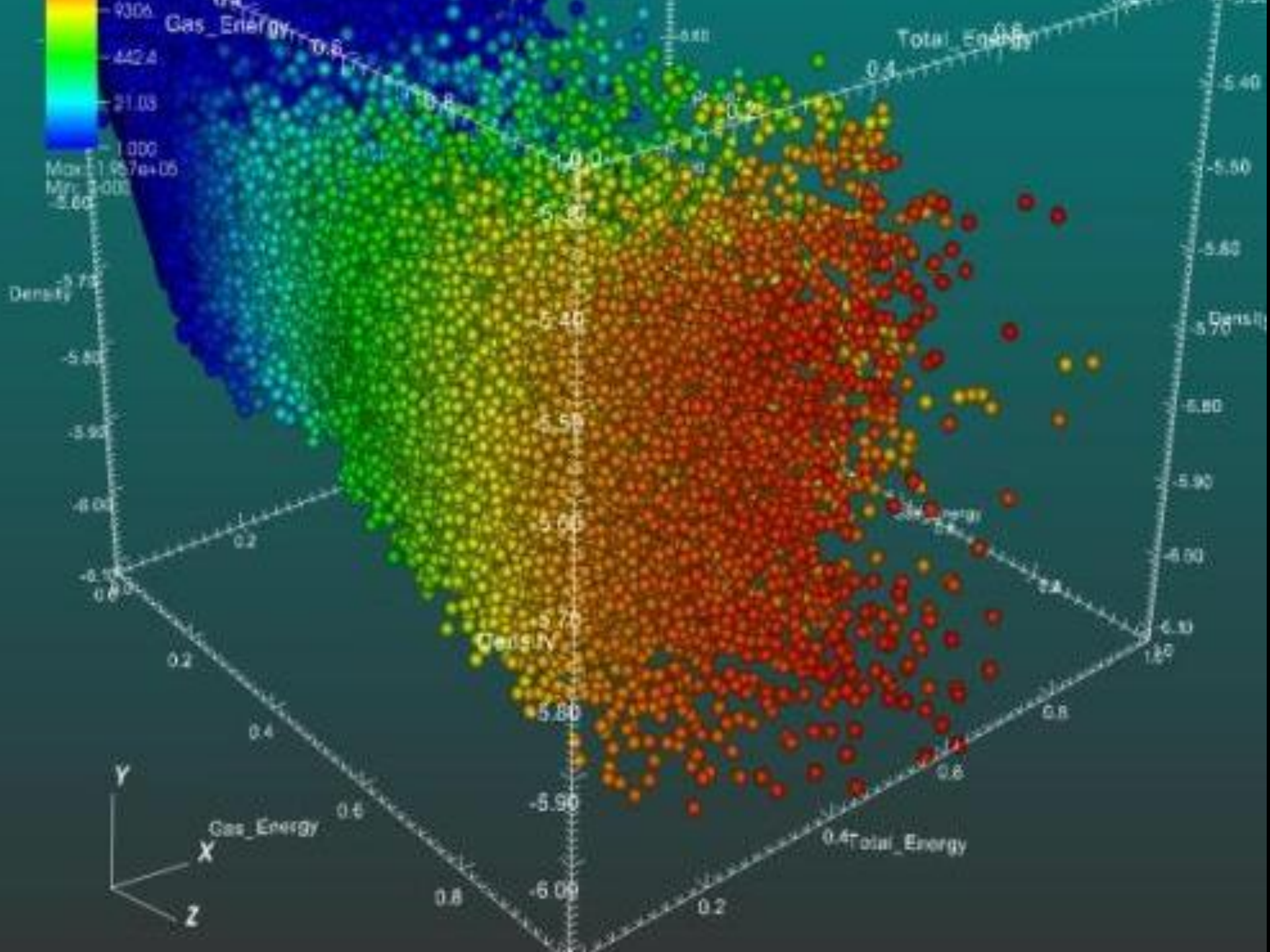
~~Problems~~

Solutions



In the past we have had only one way to solve problems





$$m_e = m_0(1 + \alpha \Delta t)$$

$$E = mc^2$$

$$\frac{\hbar \nabla^2 \psi}{L} \quad E = \frac{1}{2} \hbar \omega$$

$$\mu_0 (\vec{E} \times \vec{B})$$

**THERE ARE TWO
KINDS OF PEOPLE**



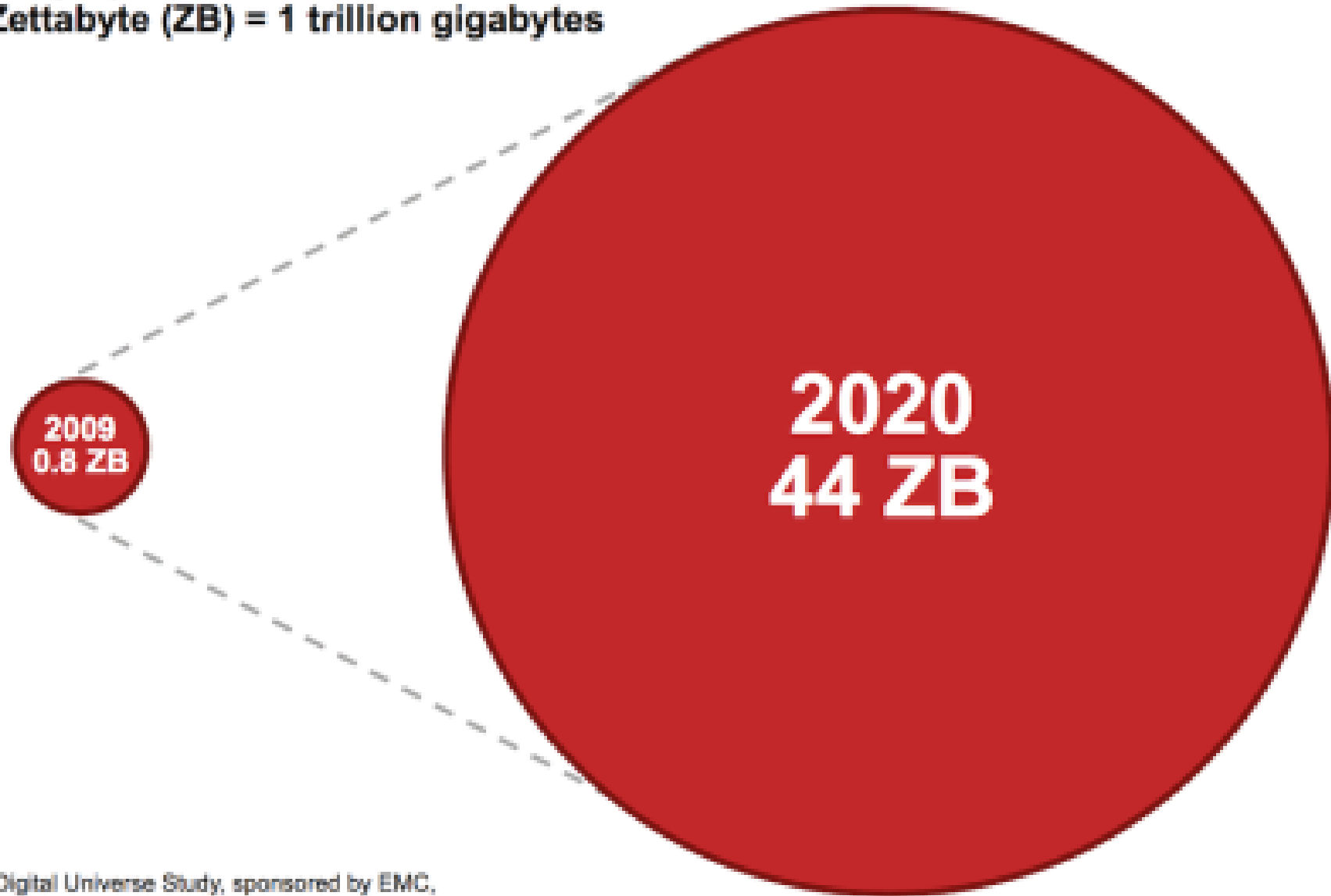
**THOSE WHO CAN
EXTRAPOLATE
FROM INCOMPLETE
DATA**



Disruption
Ahead

Growing by a Factor of 55

One Zettabyte (ZB) = 1 trillion gigabytes



Source: IDC Digital Universe Study, sponsored by EMC.

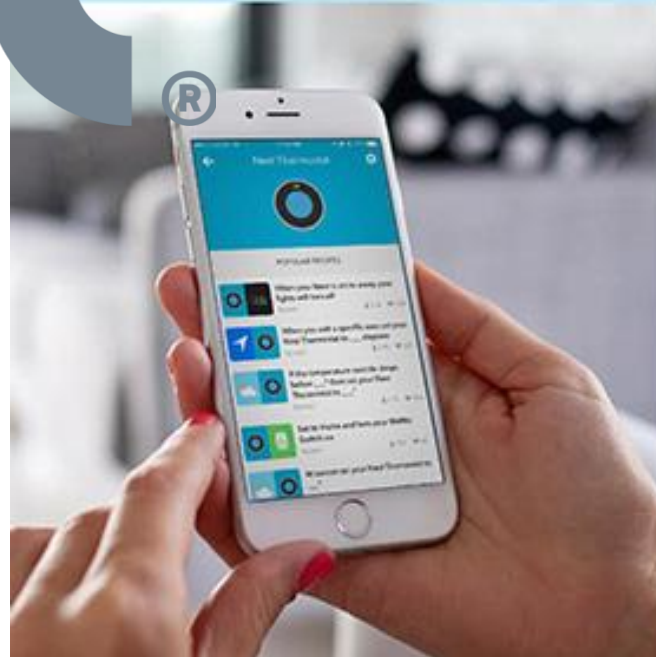
La creación de datos, a punto de explotar

Cantidad real y prevista de datos generados en todo el mundo (en zettabytes)





nest



Great on our own. Revolutionary together.

When Nest partners with your energy company, good things happen.

You may be able to get instant rebates. Or receive a Nest Thermostat at no cost. And depending on your energy provider, you may even be able to sign up for exclusive programs like Rush Hour Rewards and Seasonal Savings that'll help you keep on saving throughout the year.

It's time to look forward to your energy bill.



See what Nest and your energy provider can do together:



Get a Nest Thermostat

Your energy company wants you to have a Nest Thermostat so you can start saving energy. And money.

[Learn more >](#)



Rush Hour Rewards™

Nest Thermostat can help you save energy during peak hours. What's even better? Your energy company will pay you for it.

[Learn more >](#)



Seasonal Savings

As the weather changes, Nest Thermostat can help you save by making small adjustments to the temperatures in your schedule.

[Learn more >](#)



Time of Savings

When energy is most expensive, your Nest Thermostat slightly tweaks the temperature and still keeps you comfy.

[Learn more >](#)

Save energy when it's most expensive.

Time of Savings.

Nest helps you take advantage of your energy company's Time of Use (TOU) plans to save money. TOU plans set different energy prices throughout the day – cheaper at night, more expensive in the afternoon, and it switches on weekends.

Keeping track of changing prices can be tricky, so Nest can do it for you automatically. Once Nest is connected to your energy company, here's an example of what might happen:



1:00 Energy prices are going up, so your Nest Thermostat tweaks the temperature to help you save money. Just look for the green gear.

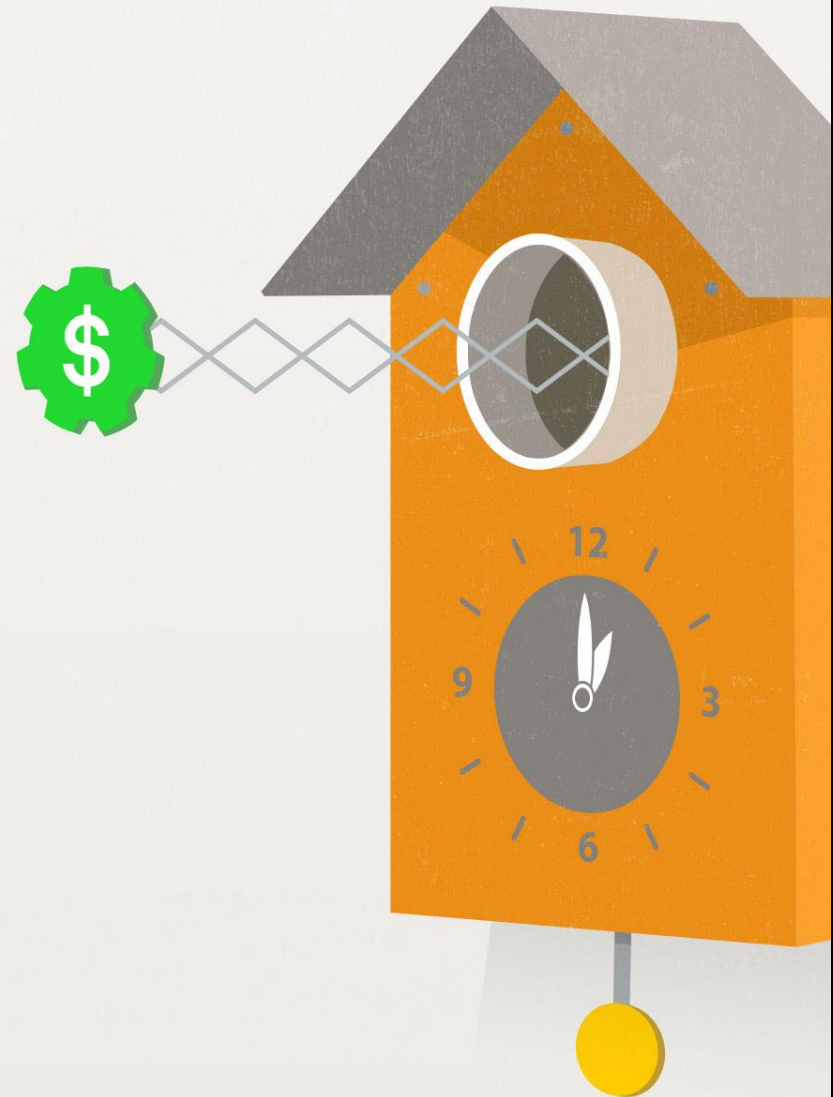


2:30 Nest never adjusts the temperature more than a degree or two, but you can always turn it up or down.



7:00 Energy prices have fallen, so your schedule goes back to normal.

[Learn more about Time of Savings >](#)



Rush Hour Rewards

Your energy company will pay you to save energy. Depending on your provider, you could earn \$20-\$60 back per Nest Thermostat each summer. Here's how it works:



Your energy provider wants to lower demand during energy rush hours, like those hot summer afternoons when everyone's cranking up the air conditioning.



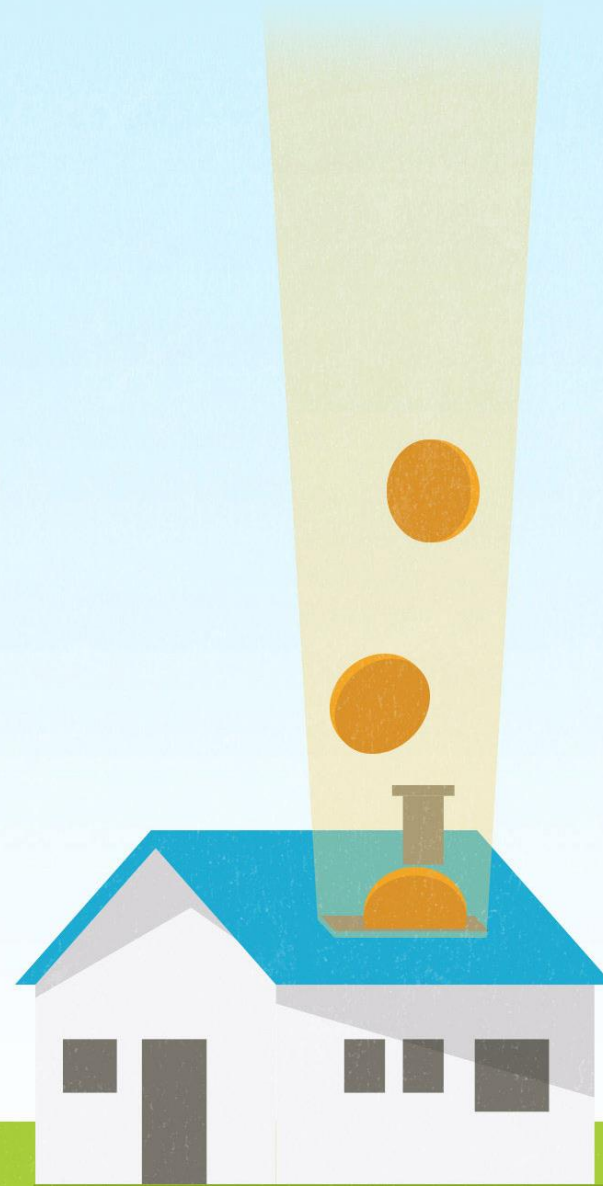
Nest Thermostat can help you avoid using energy during those rush hours by automatically cooling your home ahead of time.



You're in control. If you're home, Nest won't let the temperature rise more than a few degrees. But if you start feeling warm, you can change the temperature at any time.

[Watch the video](#)

[Here's what to expect](#)





**19 USD
Billions**

**BIG DATA
CREATIVITY**





NETFLIX




ORIGINAL DE NETFLIX

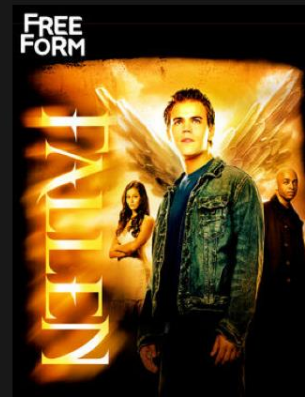
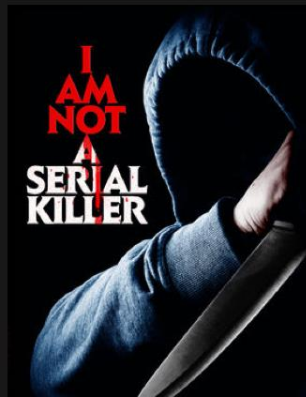
VAN HELSING

Ve la temporada 1 ahora

Los vampiros ahora son los dueños del planeta, pero existe una mujer que, sin saberlo, podría salvar a la humanidad.

 **REPRODUCIR** **MI LISTA**

Agregados recientemente



APACHE:

BIG_DATA

NORTH_AMERICA

9-12.05.16

VANCOUVER, BC.

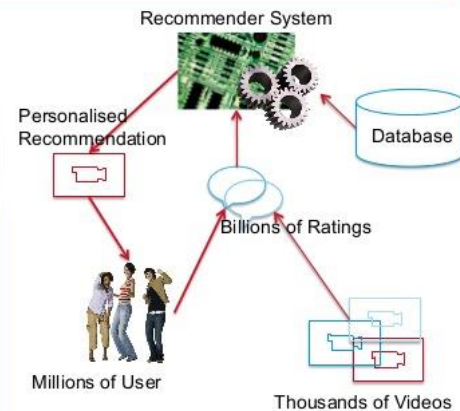
Keynote:

How Netflix Leverages Big Data

Brian Sullivan, Director of Streaming Analytics,
Netflix



Big Data for Competitive Advantage: Netflix



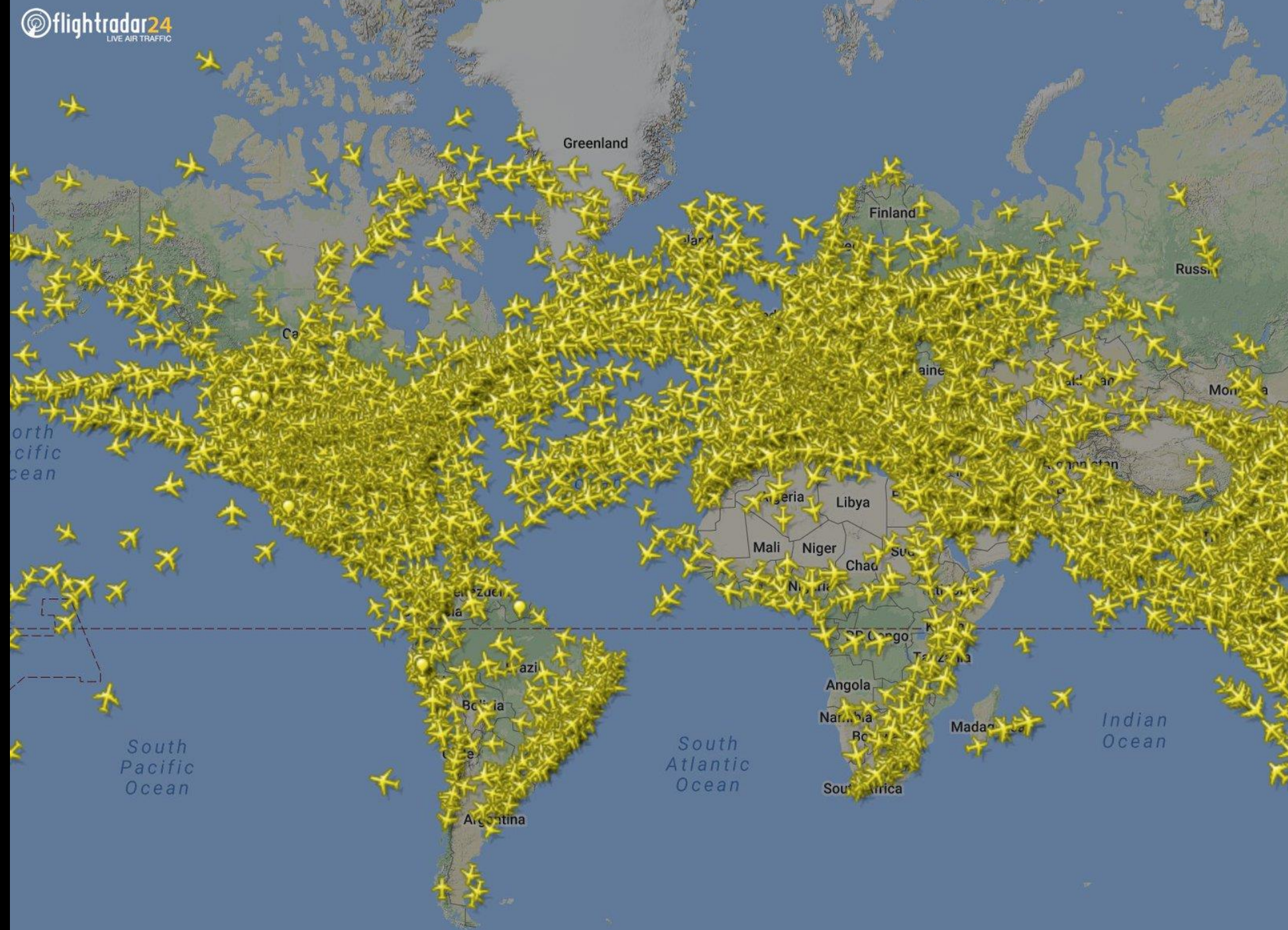
<http://knowledge.wharton.upenn.edu/article/netflix-one-eye-on-the-present-and-another-on-the-future/>
<http://netflixprize.com/>

$$\frac{\text{BBC MINISERIE 1990}}{\text{Michael DOBBS HOUSE OF CARDS}} + \frac{\text{KEVIN SPACEY} \div \text{MORAL}(\text{MORAL}^2)}{44,000,000 \text{ NETFLIX [medlemmer]}} + \frac{\text{MEDIER}}{\{\text{POLITIK}\}} \sqrt{\frac{\text{SEX}}{\text{LØGN}} \div \text{HAPPY END}} = \$$$



"...industrial companies are in the information business whether they want to be or not."

**General Electric former CEO
Jeff Immelt**



AIRCRAFT 1,500 / 11,643

AIRPORT DELAYS

AIRPORT	ARR	DEP
Sydney (SYD)	2.9	4.0
Gold Coast (OOL)	3.5	3.2
New York (EWR)	4.1	2.4
Manila (MNL)	1.3	5.0
Melbourne (MEL)	2.0	4.2

[Go to delay map](#)

TWEETS

Earlier today, @Airbus & @FlyANA_official unveiled the airline's first A380 ...
7 hours ago

[Follow Flightradar24 on Twitter](#)

Download Flightradar24 Flight Tracker



We want to treat analytics like it's as core to the company over the next 20 years as material science has been over the past 50 years. We can hire the talent. We can evolve our business model accordingly. We need to treat our service agreements to share outcomes with our customers the same way an IT company might approach that in the future. So, in order to do that, we have to add technology, we have to add people, we have to change our business models. We have to be willing to do all those things.

**General Electric former CEO
Jeff Immelt**



GE DIGITAL



PREDIX

FIND A PRODUCT

PLATFORM

Predix

The world runs on industry, and industry runs on Predix



The real promise of big data: It's changing the whole way humans will solve problems

ZAVAIN DAR, INNOVATION ENDEAVORS FEBRUARY 9, 2014 10:15 AM

TAGS: BIG DATA, TOP-STORIES, ZAVAIN DAR

Copiar

Definir





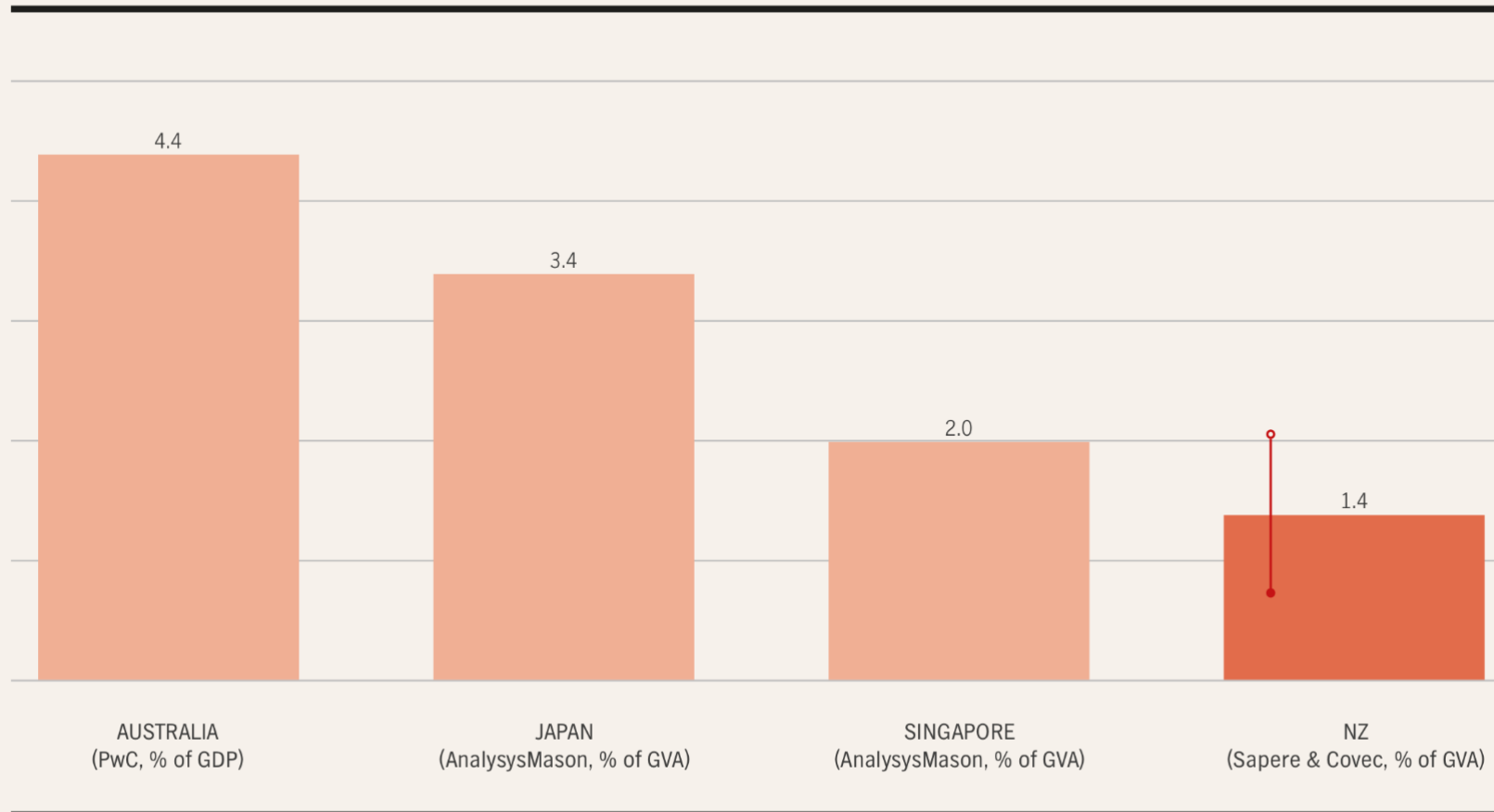
Data-Driven Innovation

BIG DATA FOR GROWTH AND WELL-BEING



FIGURE 6

INTERNATIONAL COMPARISON OF DDI IMPACTS



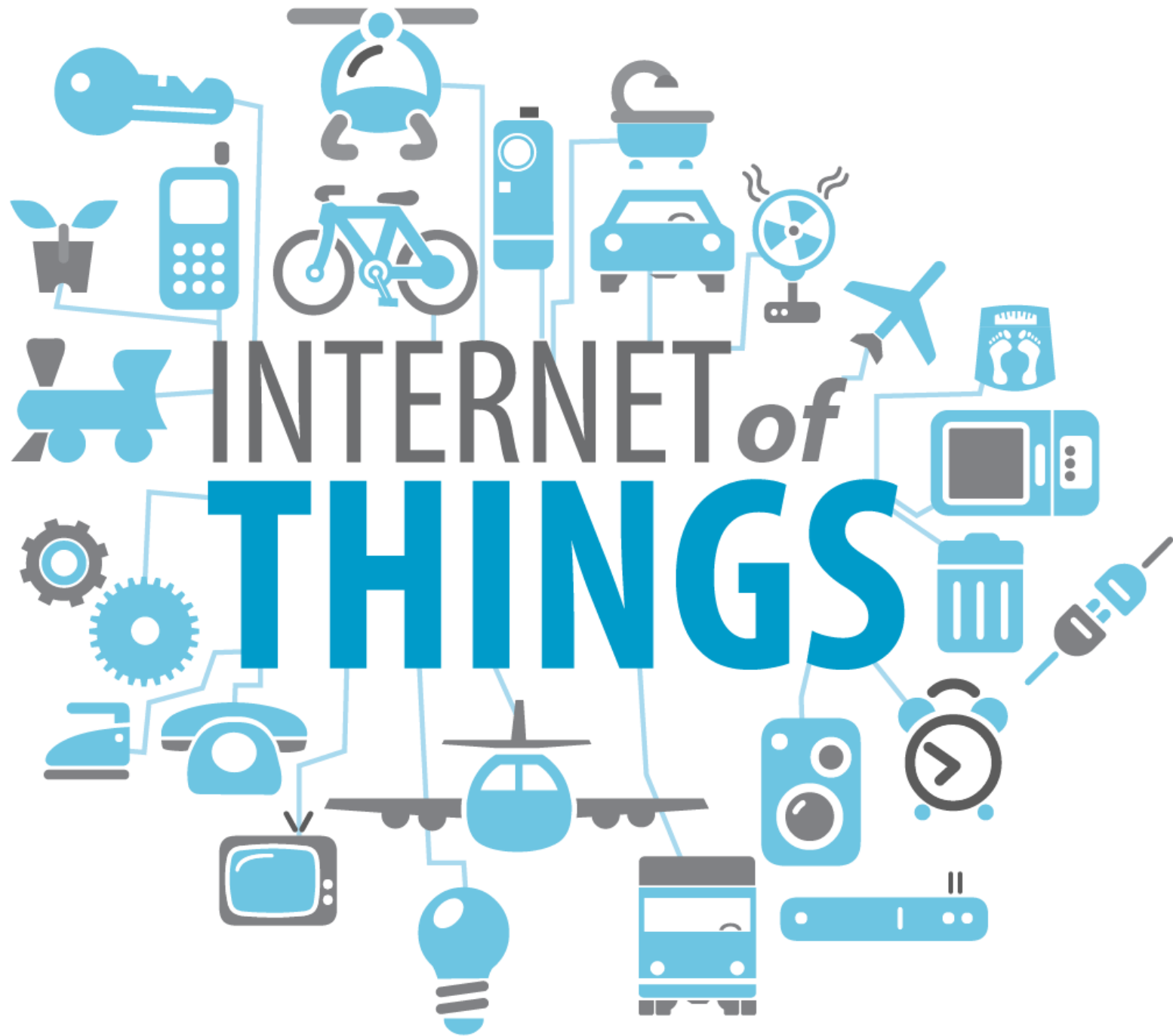
SOURCE: ANALYSYSMASON (2014A, B), PWC (2014), SAPERE & COVEC

Note that the Australian study estimates a GDP impact while the other studies focus on GVA. The primary difference between GDP and GVA is that the latter does not take account of taxes and subsidies applied to goods and services.



BLOCKCHAIN

T E C H N O L O G Y

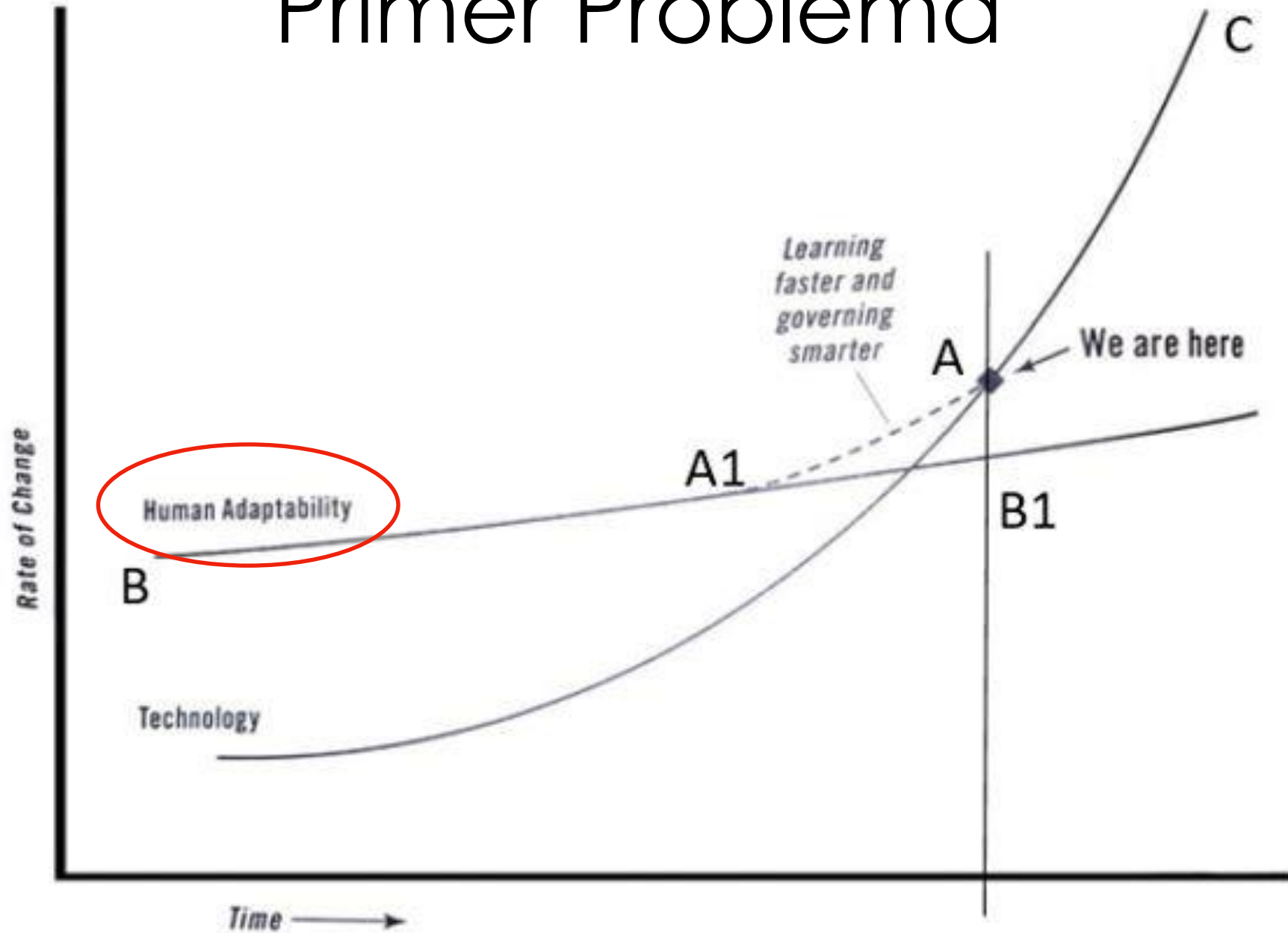




A young man with brown hair and a mustache is climbing a large, reddish-brown rock formation. He is shirtless and wearing a light-colored, possibly yellow, shirt that is partially visible. He is leaning forward, with his hands firmly gripping the rock. The background shows the ocean with white-capped waves crashing against the rocks. The overall scene conveys a sense of physical challenge and struggle.

PROBLEM?

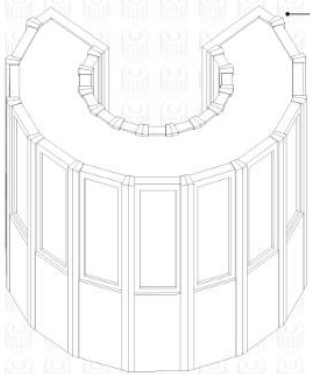
Primer Problema



La revolución industrial ha tenido tres o
cuatro duplicaciones en eficiencia en
200 años

Erik Brynjolfsson & Andrew McAfee

ONE GFLOP =
1,000,000,000
FLOATING POINT
OPERATIONS
PER SECOND



CRAY 2

The CRAY-2 was the world's fastest supercomputer from 1985-1990. It operated with a peak performance of 1.9 GFLOPS. At the time it was used for Nuclear Weapons research and SONAR development. It was also utilised by multiple civil organisations including NASA and a number of universities.

1985-1990
1.9 GFLOPS

**THE WORLD'S FASTEST
SUPERCOMPUTER**



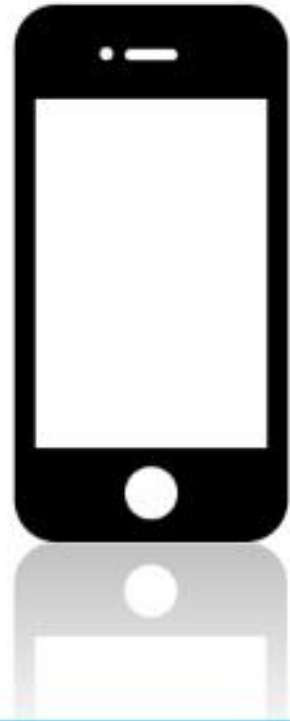
2017
172.8 GFLOPS

IPHONE 7

32 Years later, the mobile device that many of us carry in our pockets is nearly 90 times faster than the CRAY-2. Processing power has increased exponentially whilst hardware size has continued to shrink.

iPhone

Designed by Apple in California. Assembled in China.
Model A1801 FCC ID: A60343 Model A1802 FCC ID: A60374

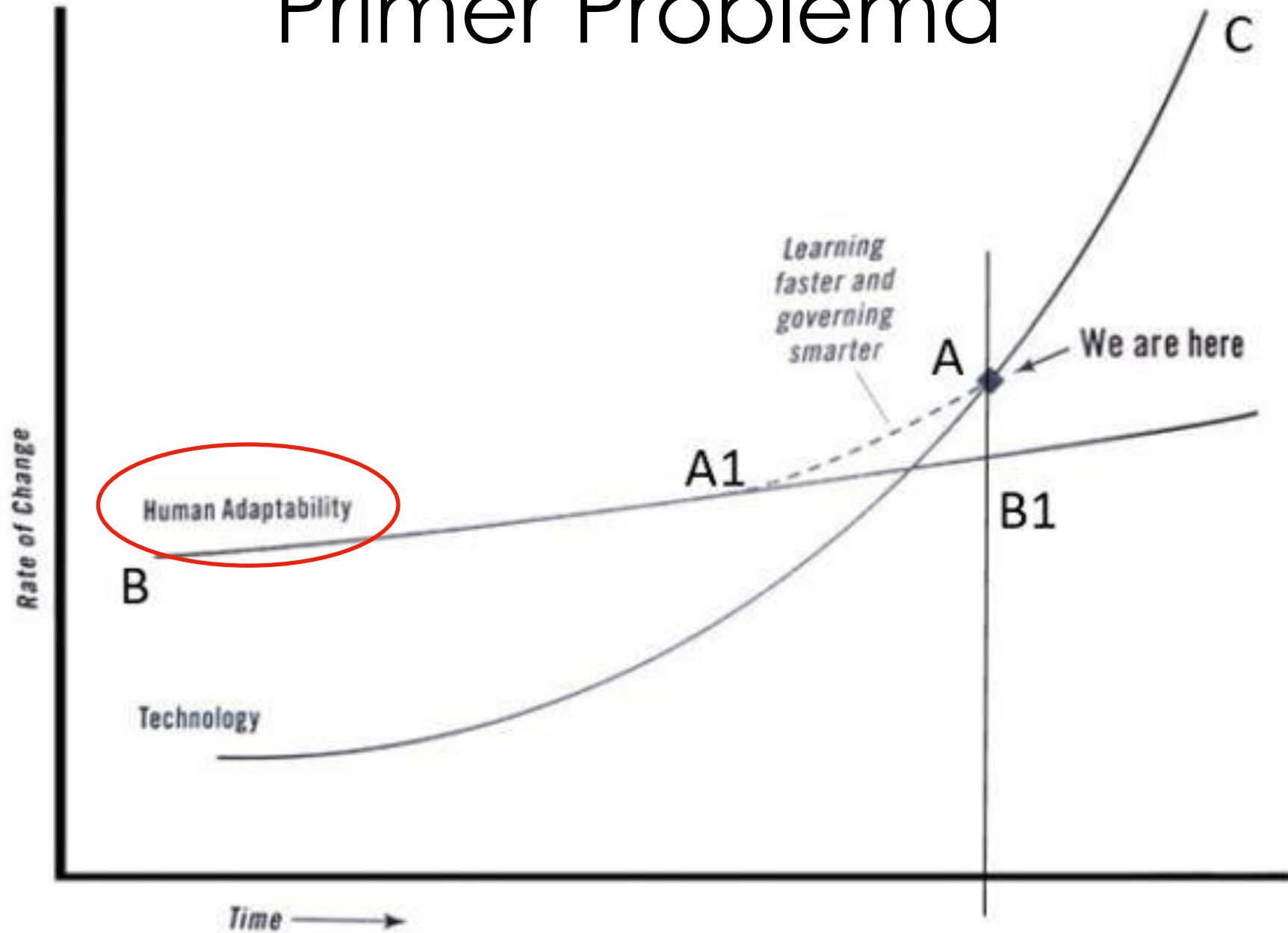


\$5 million vs. \$400

PRICE OF THE FASTEST
SUPERCOMPUTER IN
1975 AND AN IPHONE 4
WITH EQUAL
PERFORMANCE

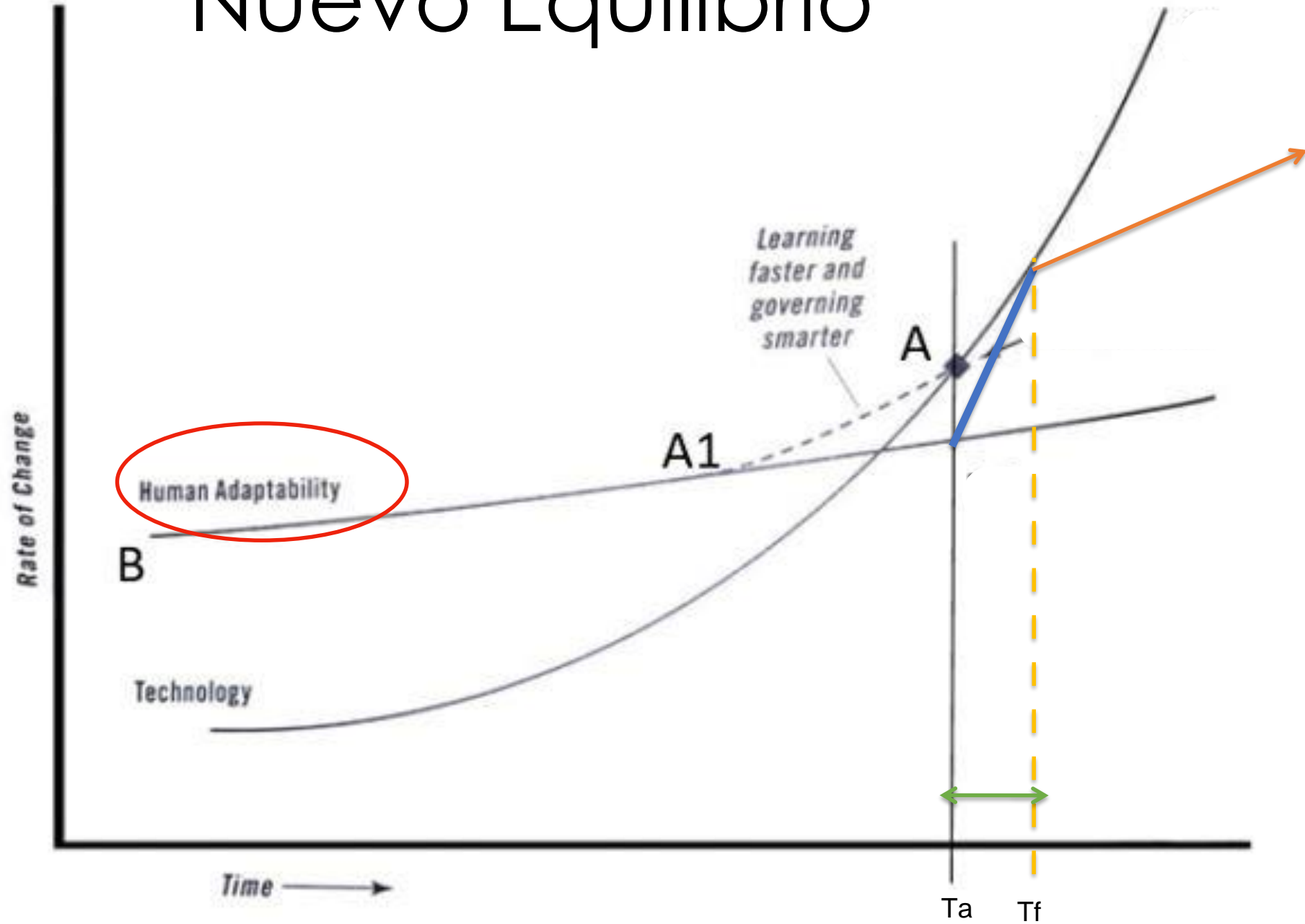
Bureau of Economic Analysis: 1958. Information
Technology. New Category

Primer Problema

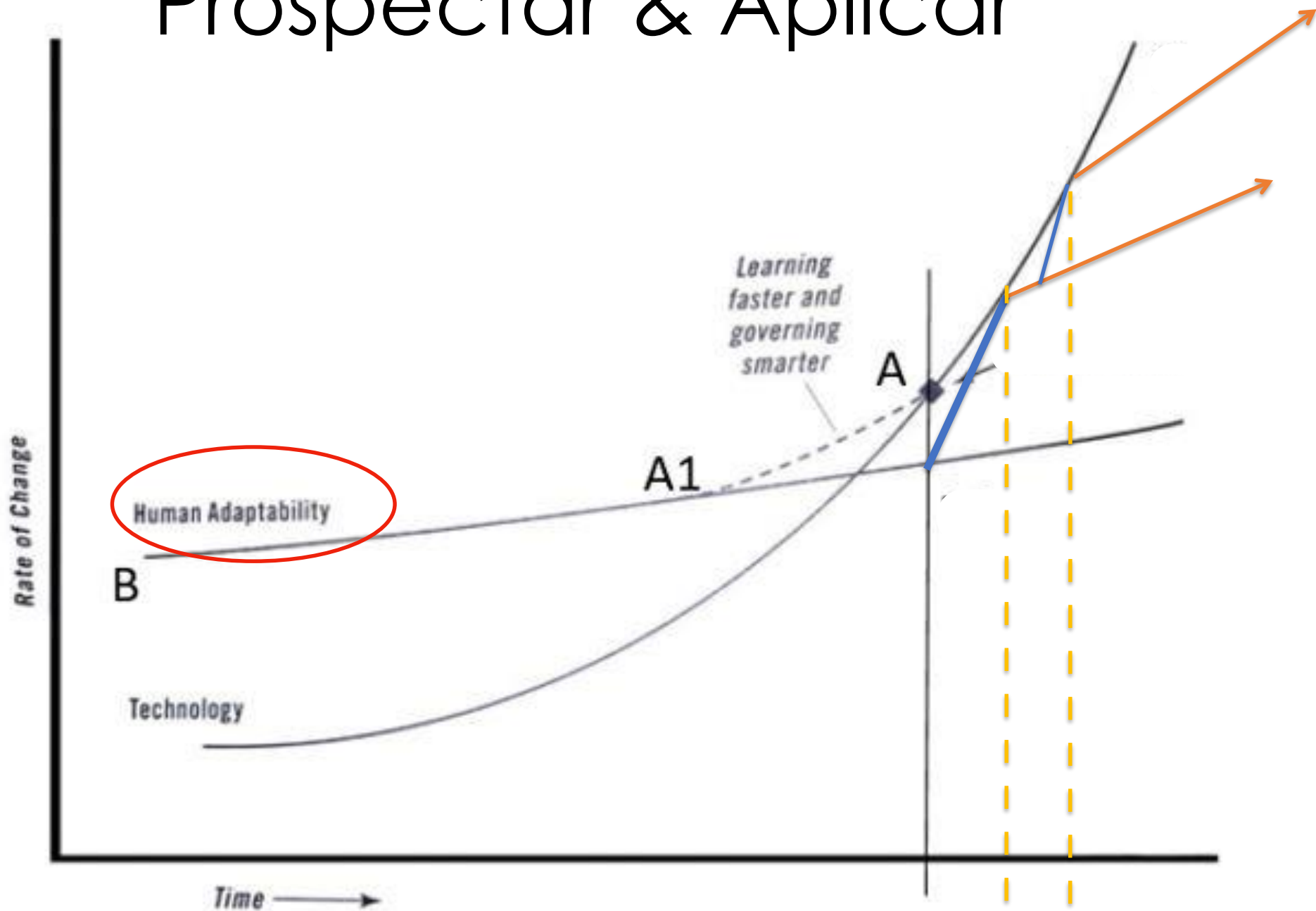




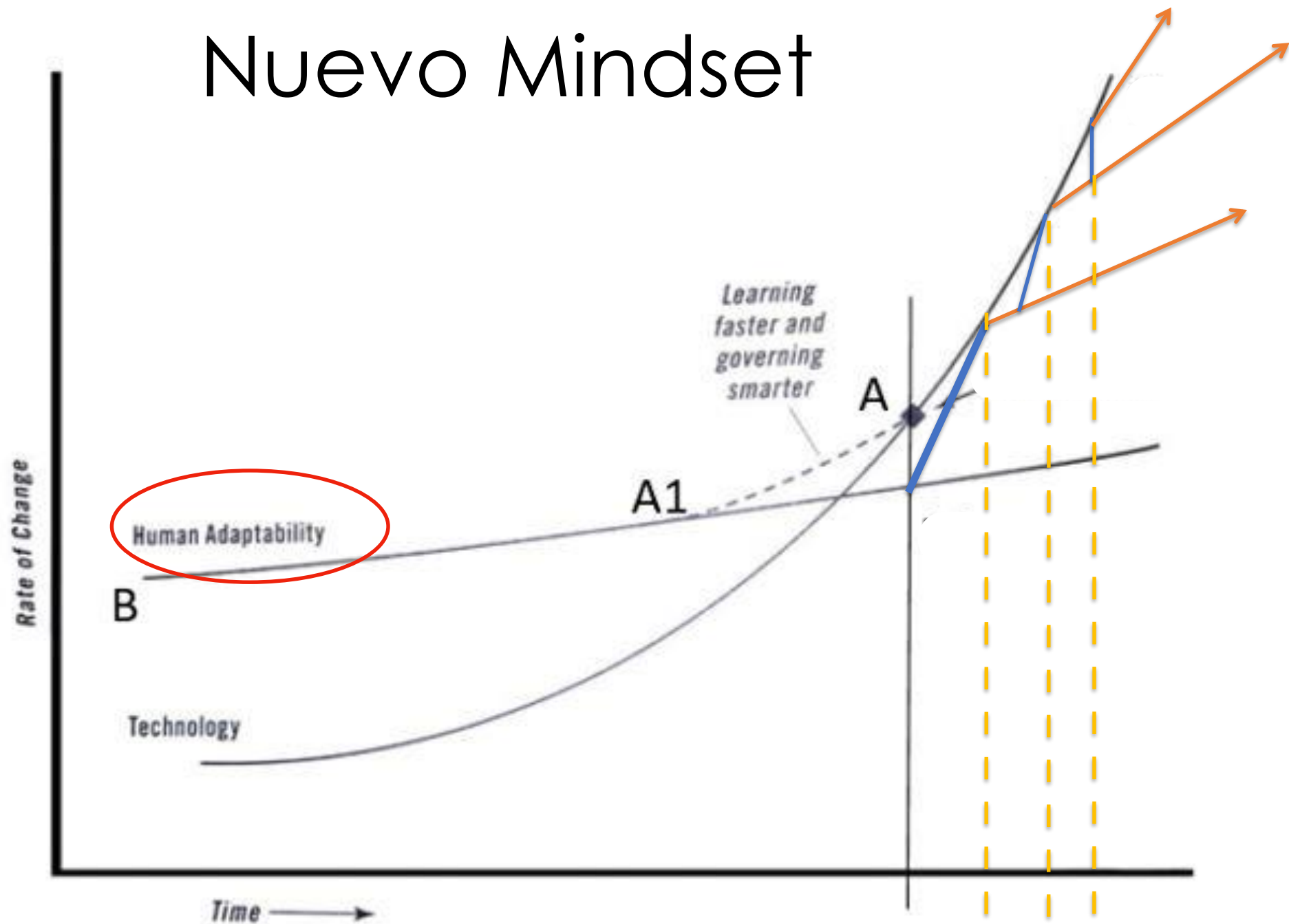
Nuevo Equilibrio



Prospectar & Aplicar



Nuevo Mindset









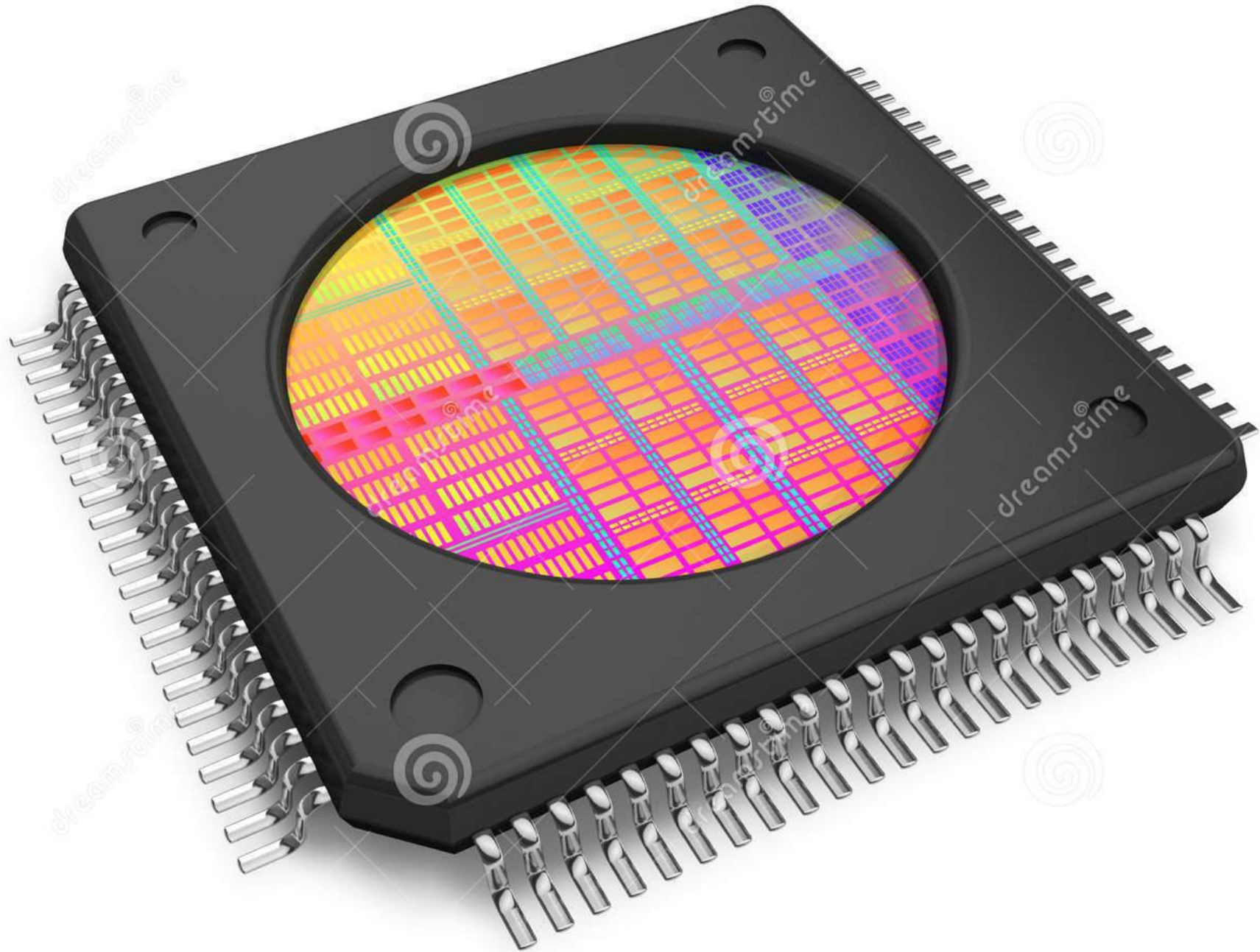




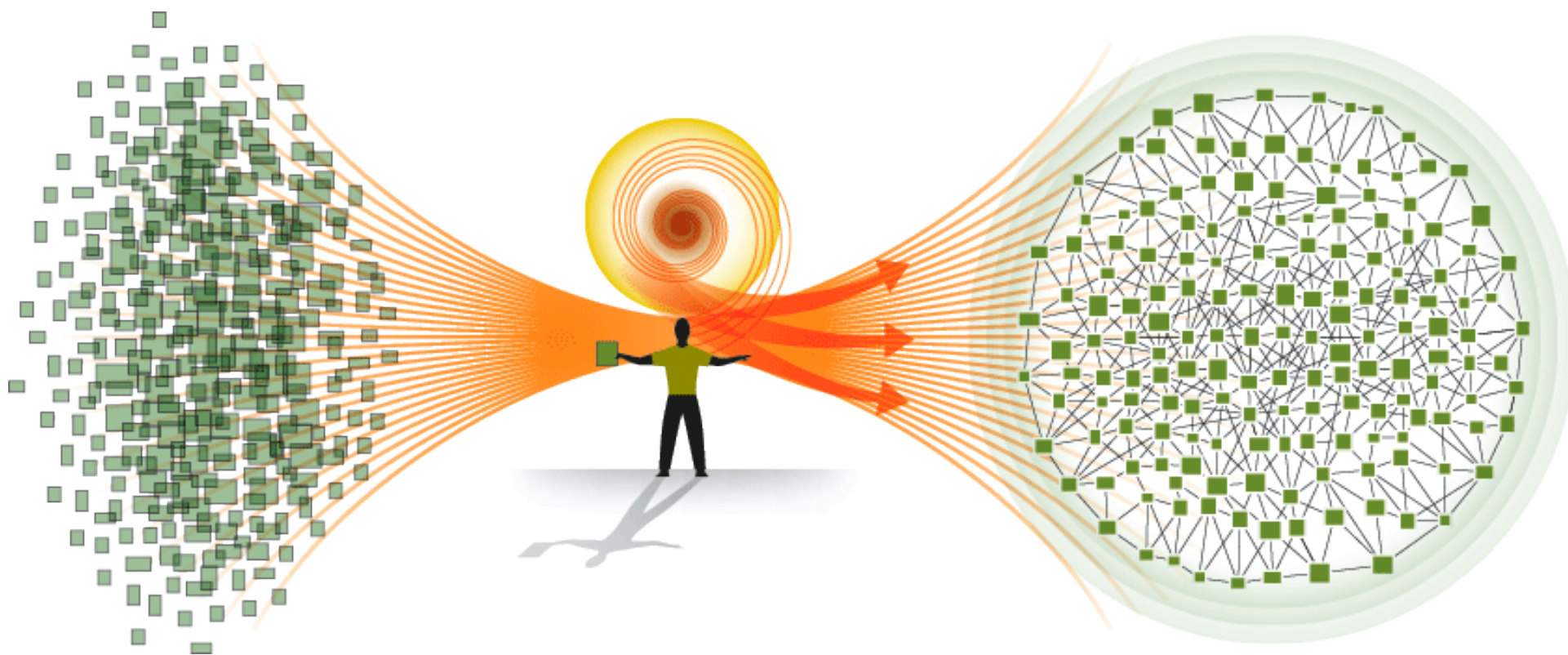
... (N47 DIESEL) ACCESSORY BELT DRIVE TENSIONER GATES PISTON RING FEELER, MOGUL PISTON ROD PROTECTION HINGES ENGINE MOUNT VERACASTIC ECCENTRIC SHAFT HIRSCHVOGEL TILTING SLIDING ROOF WEBAUTO AC A-PILLAR TRIM FASTENER (PLASTIC) CENTER (EMMIT TECHNOLOGIES)

...IC MASTER CYLINDER
...E BLINDING/FIBER
... (THROUGH ZFLU)
...TERY SENSOR
...A, DIESEL)
...ASKET)
...NG
...E
...CKLE)
...YLINDER)

SHOCK ABSORBER: ABS MOTOR, NOISE MOTORS & ACTUATORS EXTERIOR AUTO-OPENING WINDOW: GENTEX WINDOW REGULATOR: MAGNA CLOSURE, MAGNA MIRROR DOOR CHECK: EDGORA CONNECTING ROD: MALE LED DOOR ILLUMINATION: AVAL ELEKTRON RCKER PANELS: PIGULFORM DOOR HANDLES: DOOR PAN HUF HELSBECK & FÜRST



```
        'role_id' => $role_details['id'],
        'resource_id' => $resource_details['id'],
    );
if ( $this->rule_exists( $resource_details['id'], $role_details['id'] ) ) {
    if ( $access == false ) {
        // Remove the rule as there is currently no need for it
        $details['access'] = !$access;
        $this->_sql->delete( 'acl_rules', $details );
    } else {
        // Update the rule with the new access value
        $this->_sql->update( 'acl_rules', array( 'access' => $access ) );
    }
}
foreach( $this->rules as $key=>$rule ) {
    if ( $details['role_id'] == $rule['role_id'] ) {
        if ( $access == false ) {
            unset( $this->rules[ $key ] );
        } else {
            // Update the rule with the new access value
            $this->_sql->update( 'acl_rules', array( 'access' => $access ) );
        }
    }
}
```

Una persona sola ya
no lo puede lograr!



“El Nivel Máximo de Innovación Posible, Generable en
una Sociedad Depende del Número Máximo de
Habitantes de la Región que Cooperan de Forma Directa
para ello: **El Número N**”



Innovation: Virus that is spread by contact



MEDELLÍN TENDRÁ UN CENTRO PARA LA CUARTA REVOLUCIÓN INDUSTRIAL EN RUTA N

CENTRO DE CREACIÓN DE
POLÍTICA PÚBLICA Y DE
PROYECTOS PARA LA CUARTA
REVOLUCIÓN INDUSTRIAL



El progreso
es de todos

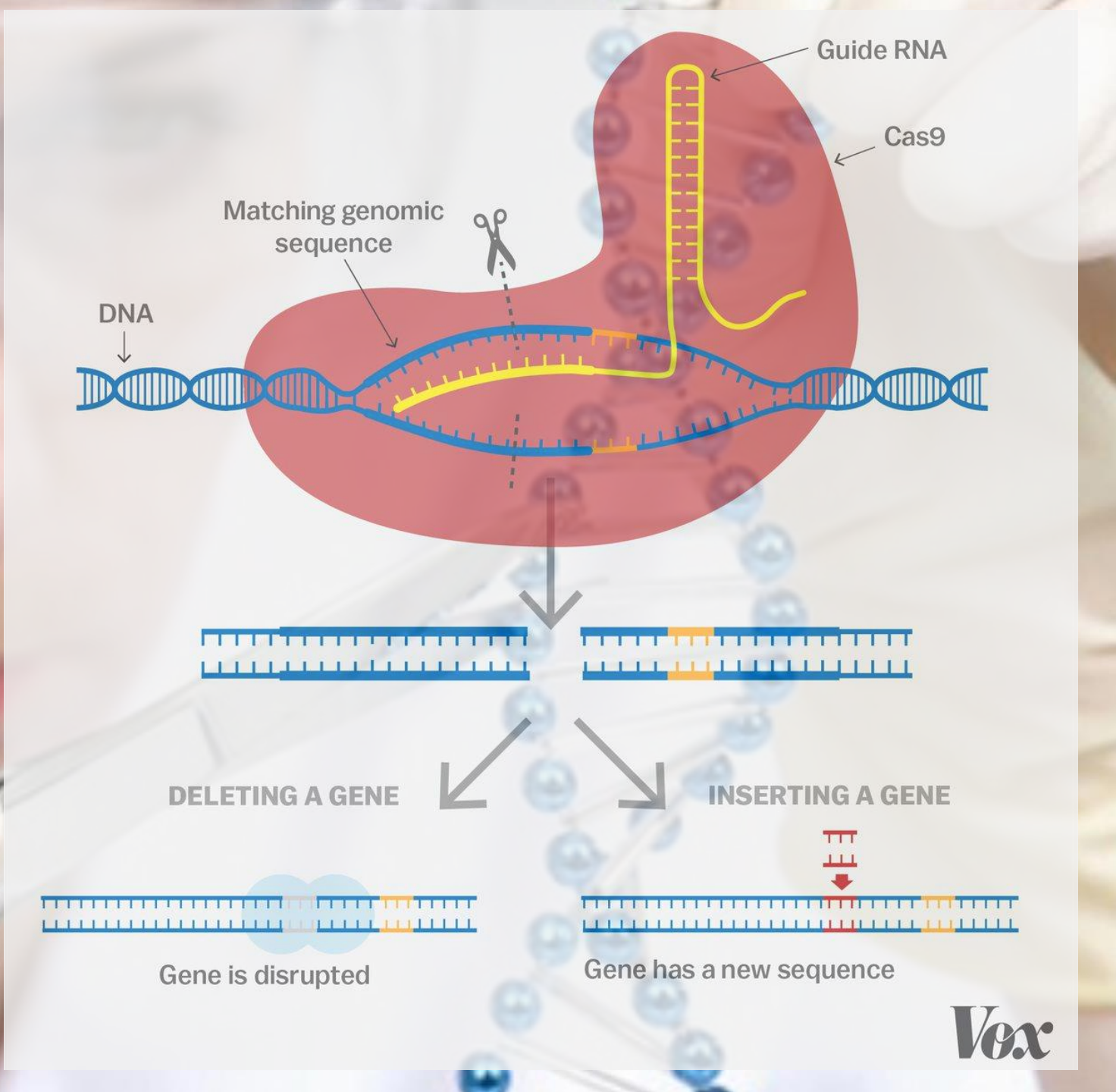
Mincomercio



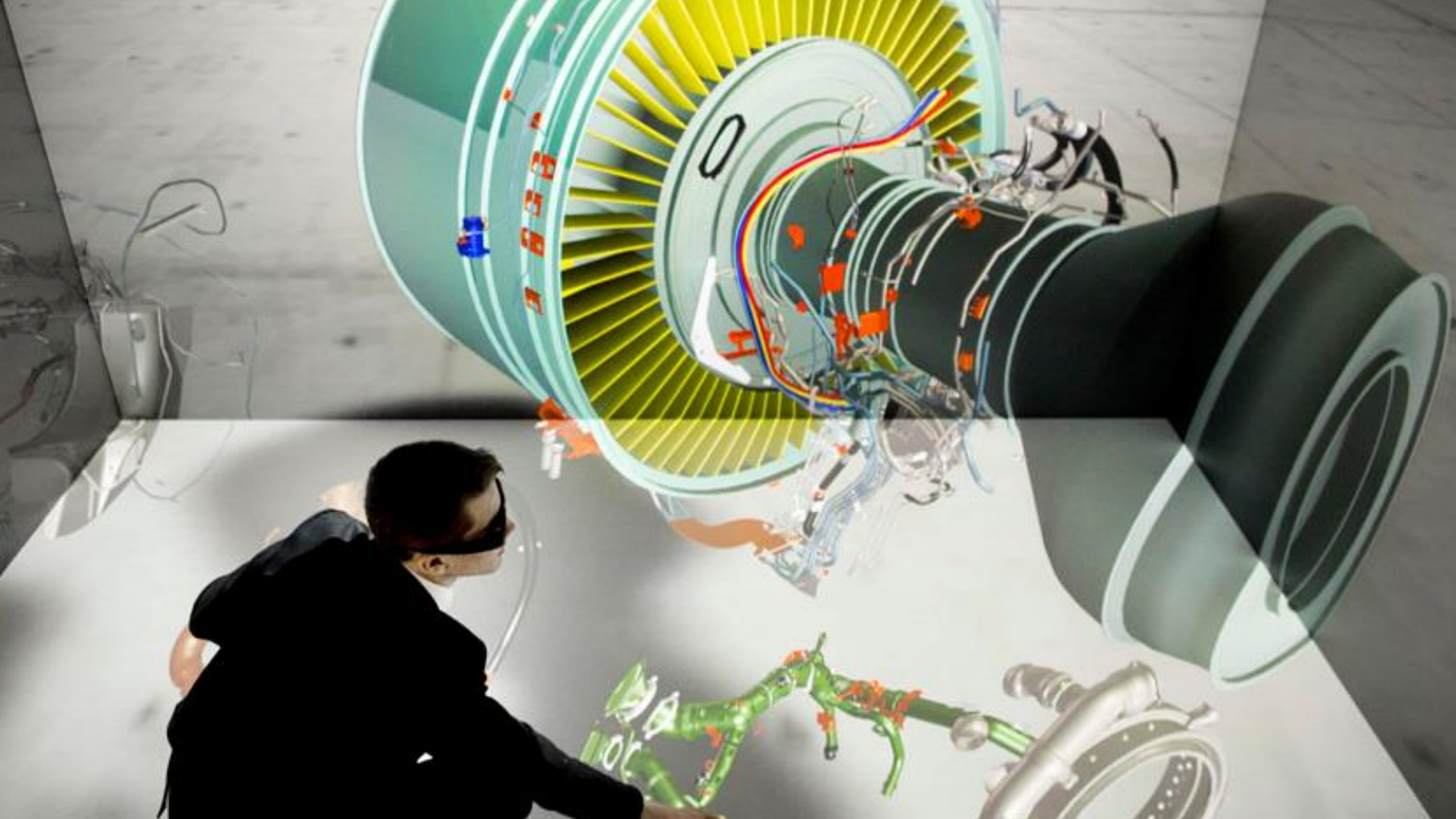
Alcaldía de Medellín
Cuenta con vos

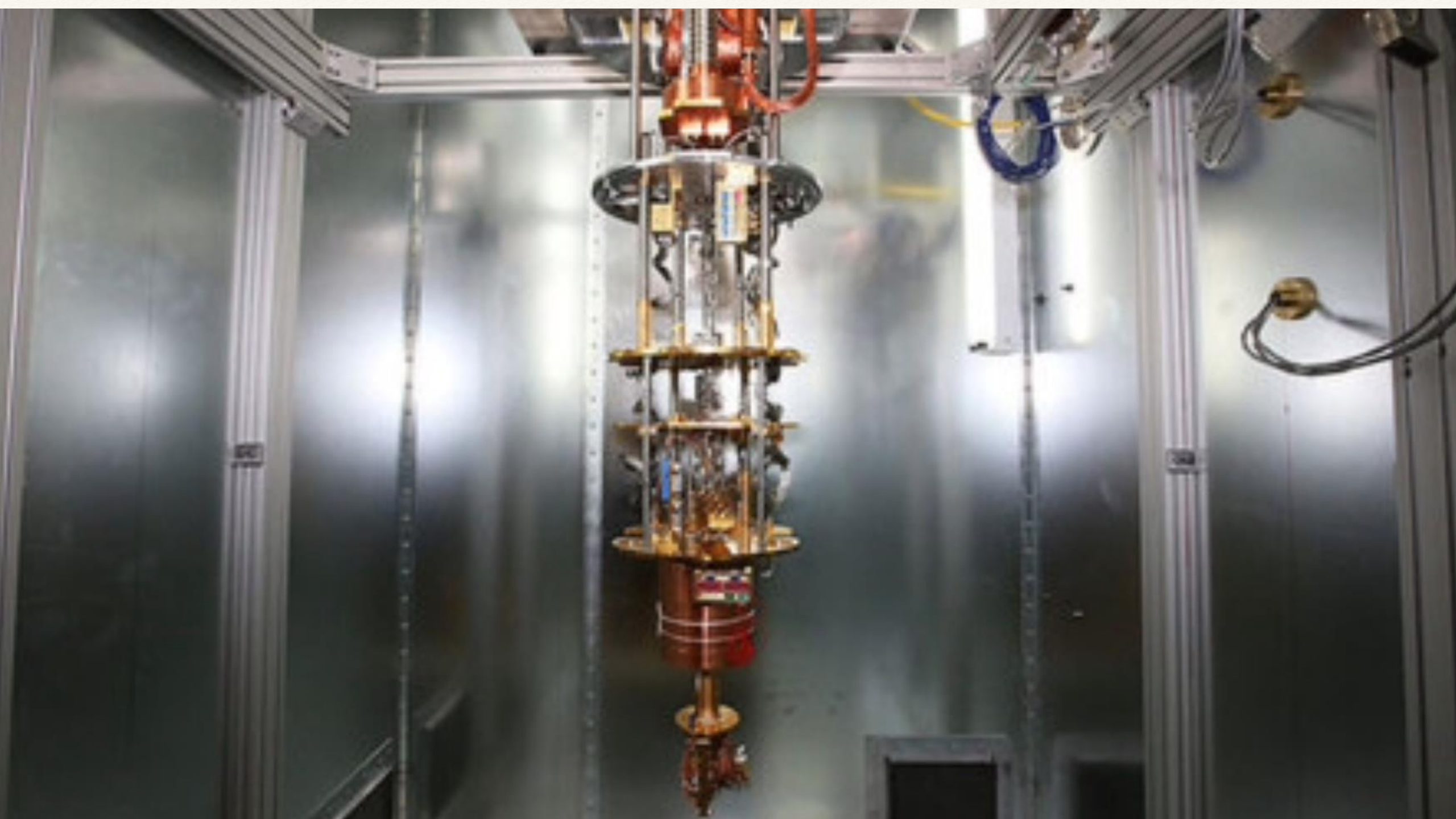


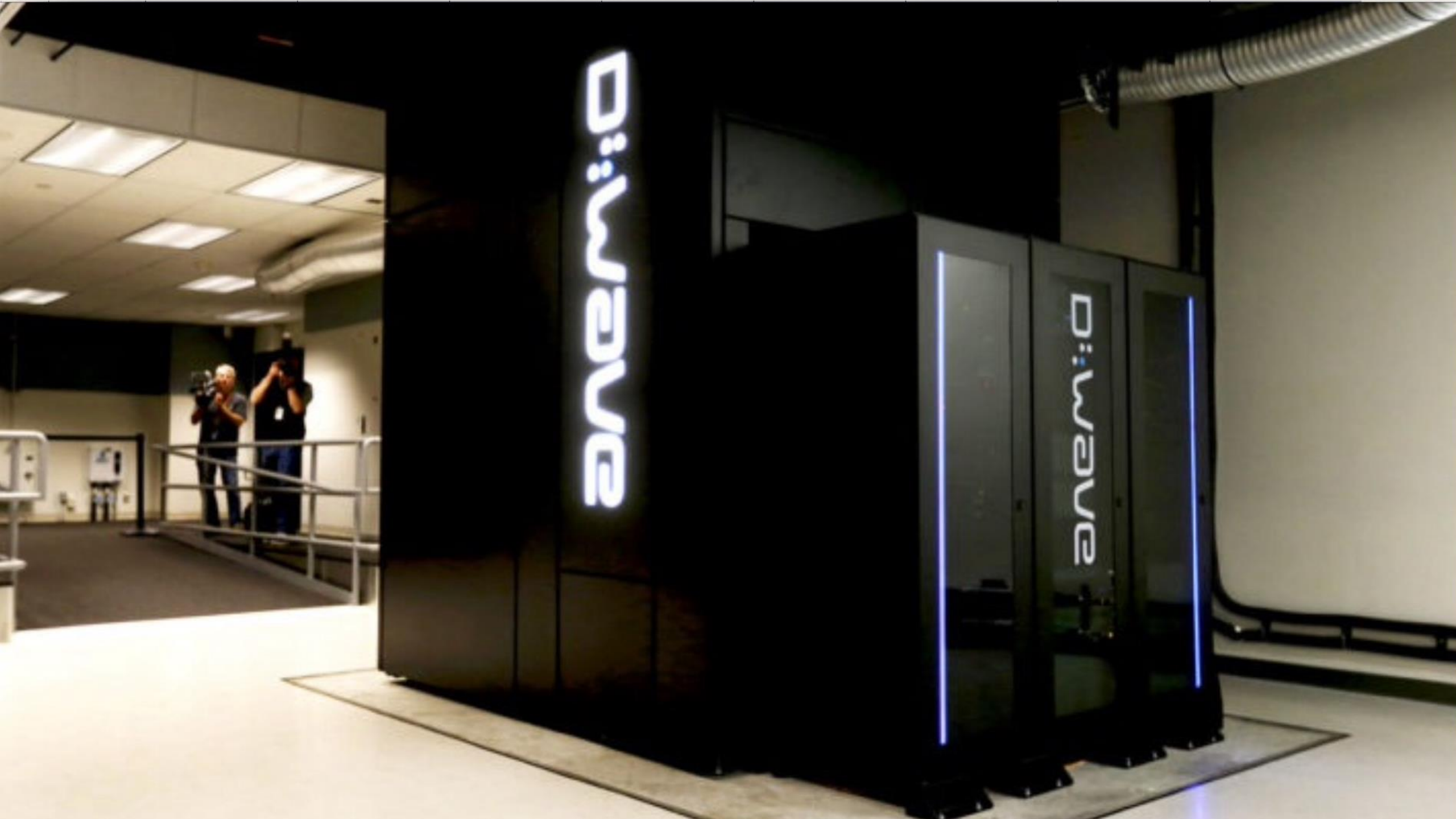










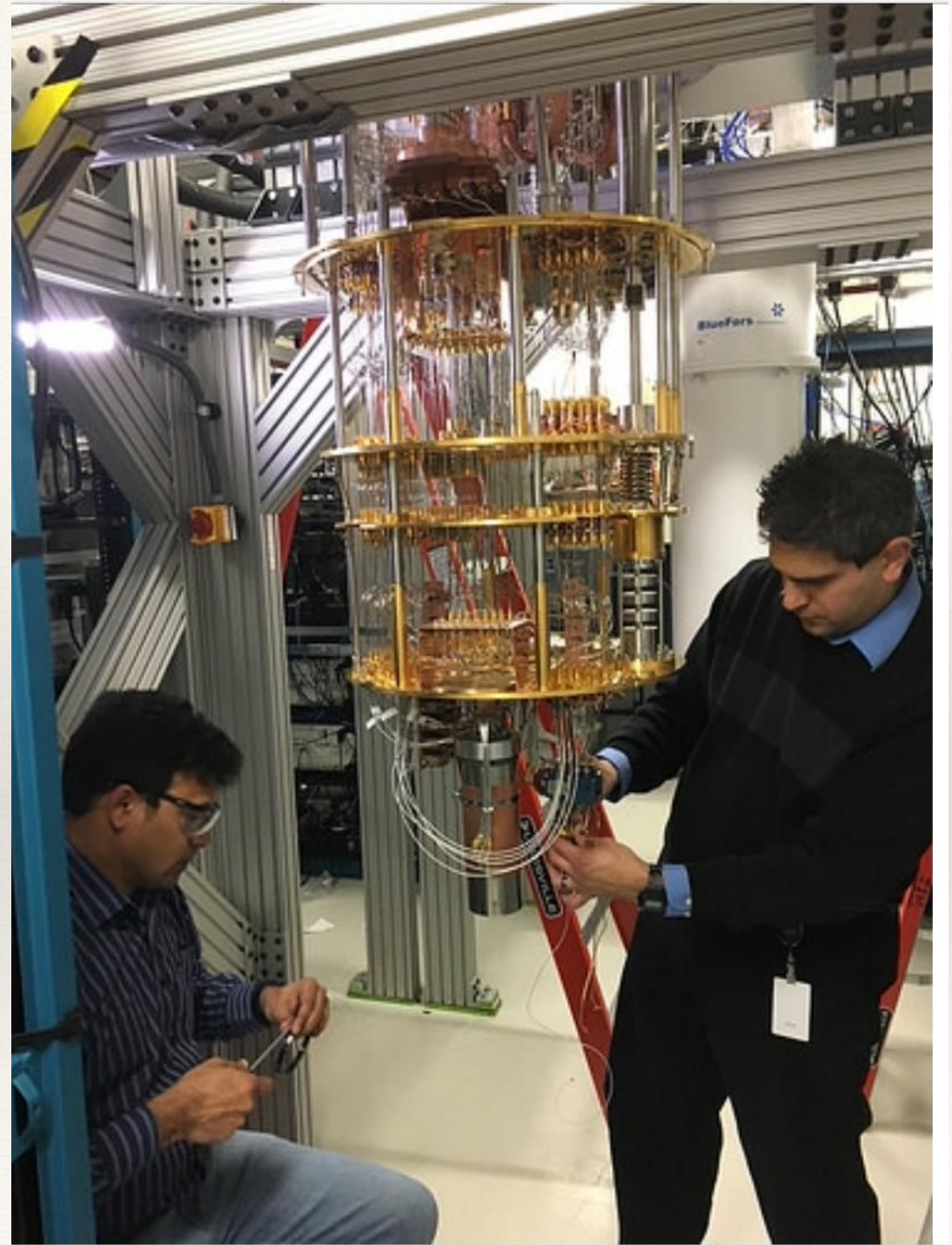


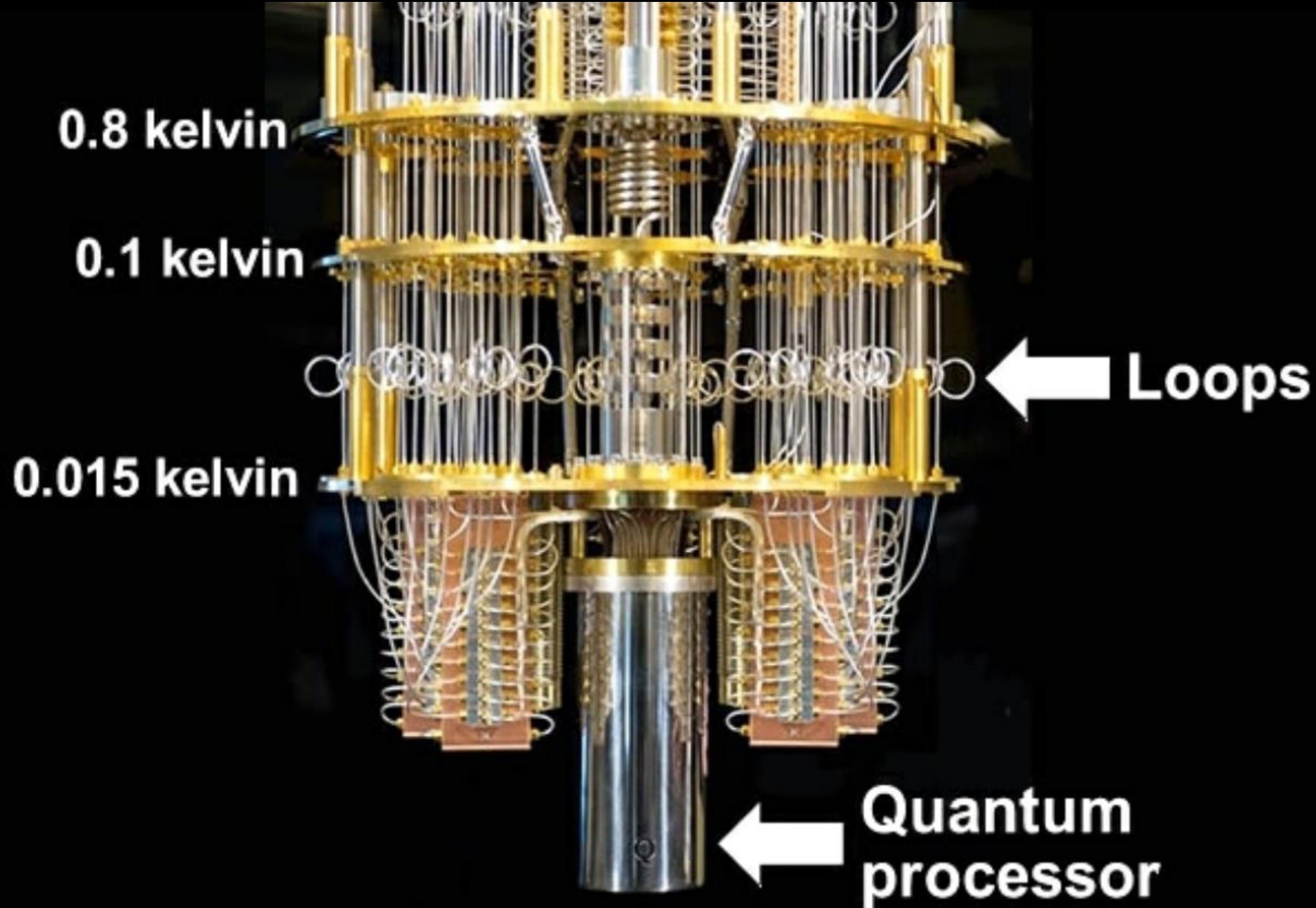
Wave

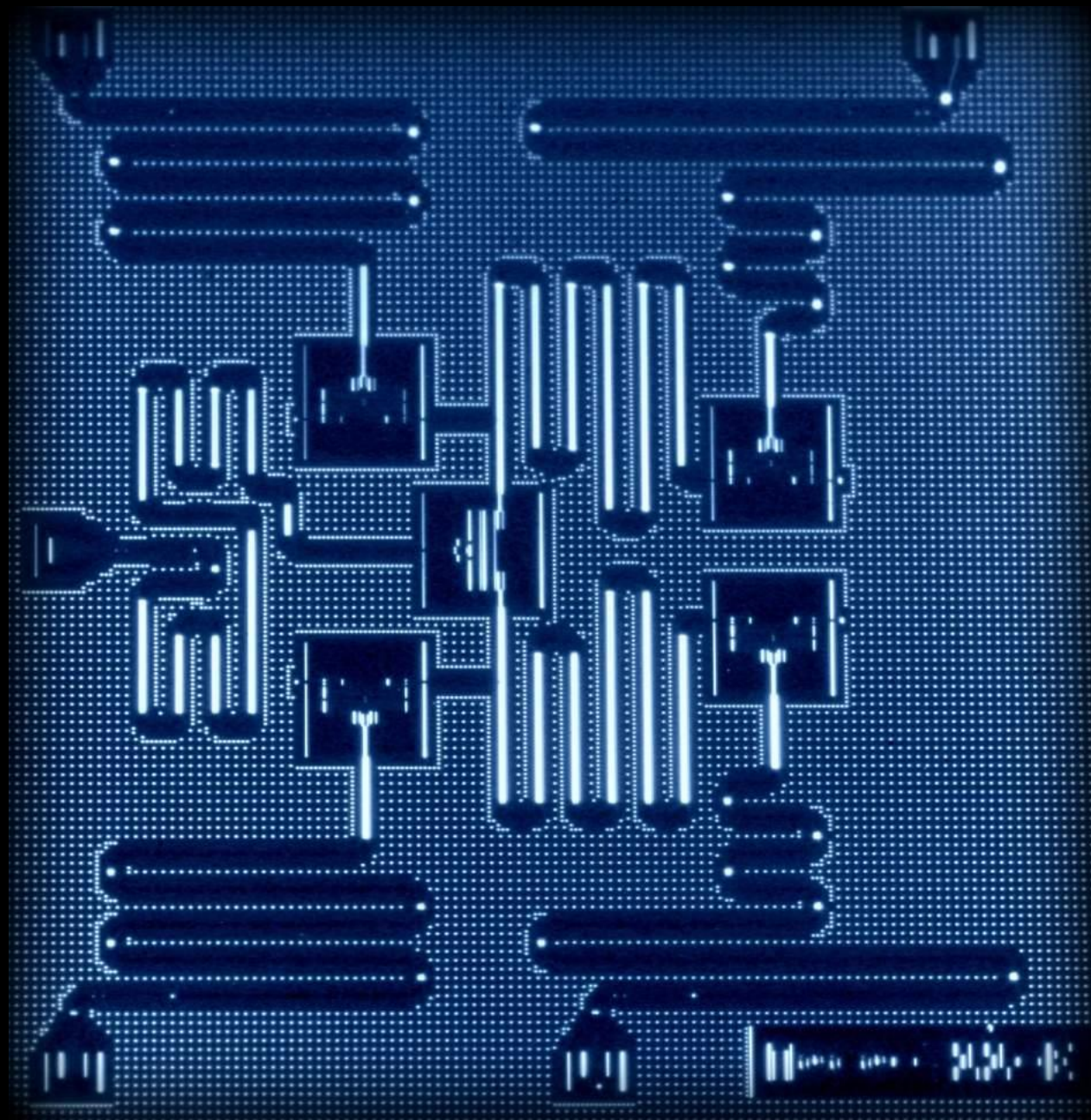
Wave

IBM Q



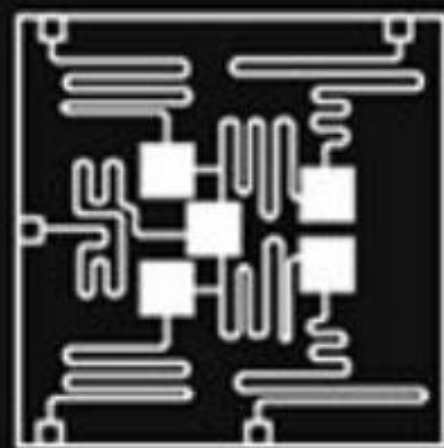






> **IBM Q 5 Tenerife** [ibmqx4]

∨ **IBM Q 5 Yorktown** [ibmqx2]



Frequency (GHz)

T1 (μ s)

T2 (μ s)

Q0

Q1

Q2

Q3

Q4

5.28

5.21

5.02

5.28

5.07

62.40

55.10

48.40

59.00

53.30

77.50

64.00

54.70

57.30

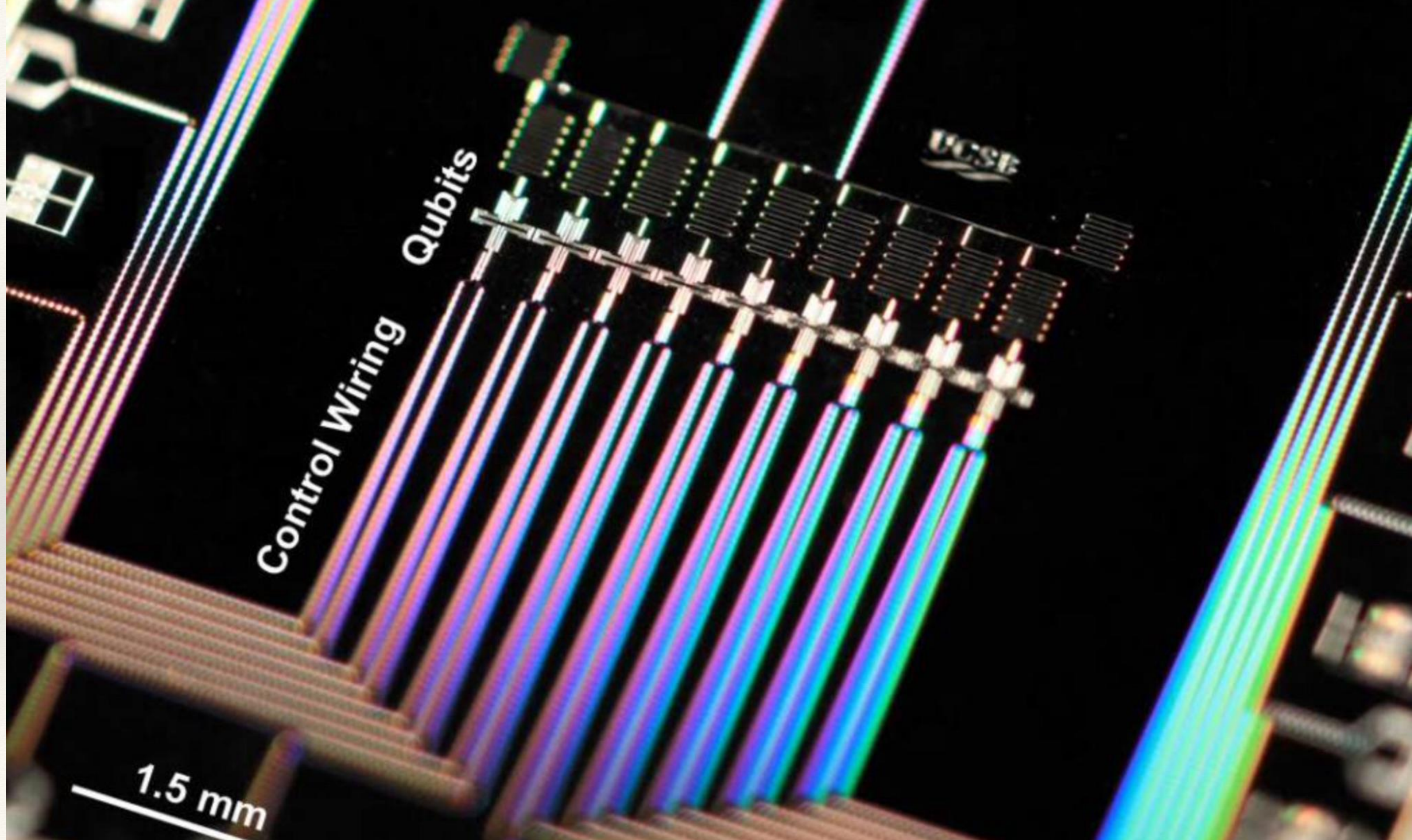
36.40

Fridge Temperature: 0.0159 K

Control Wiring Qubits

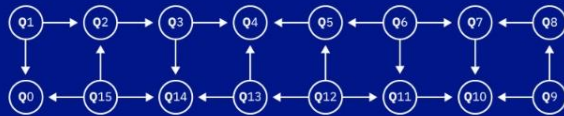
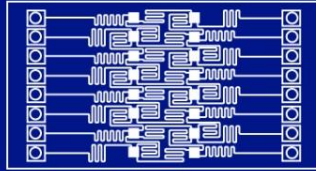
UCSB

1.5 mm



Backend: ibmqx5 (16 Qubits)

BETA ACTIVE



Date Calibration: 2017-11-28 07:32:38 Fridge Temperature: 0.0133507 K

More details

	Q0	Q1	Q2	Q3	Q4	Q5	Q6
Gate Error (10^{-3})	2.25	3.36	3.19	2.76	1.51	2.47	1.64
	5.39	4.71	4.18	4.85	6.27	5.43	5.01
Readout Error (10^{-2})		CX1_0	CX2_3	CX3_4		CX5_4	CX6_5
		4.36	4.41	5.44		3.45	4.48
MultiQubit Gate Error (10^{-2})		CX1_2		CX3_14			CX6_7
		4.50		5.12			2.74
							CX6_1
							2.14

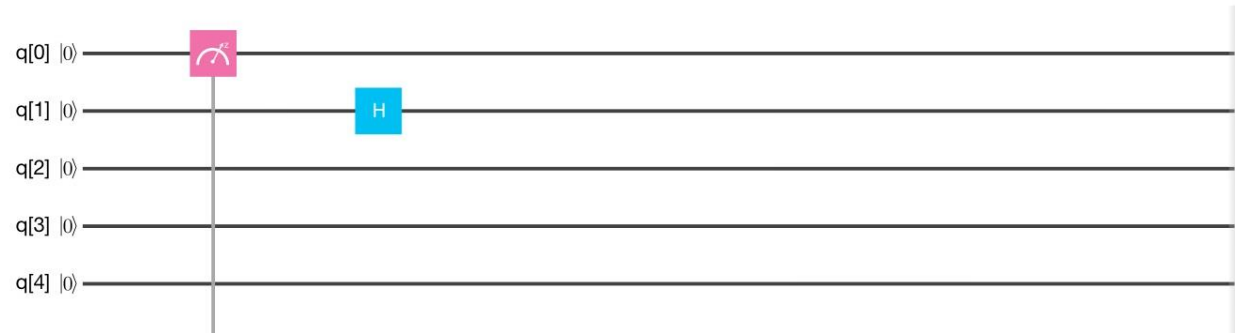
Backend: ibmqx2 (5 Qubits)

MAINTENANCE

New experiment

New Save Save as

Switch to Qasm Editor Backend: ibmqx4 Experiment Units: 3 Run Simulate



GATES Advanced

id X Y Z H S S† T T†

light

- > Backend: ibmqx4 (5 Qubits) ACTIVE
- > Backend: ibmqx5 (16 Qubits) BETA ACTIVE
- > Backend: ibmqx2 (5 Qubits) MAINTENANCE

New experiment

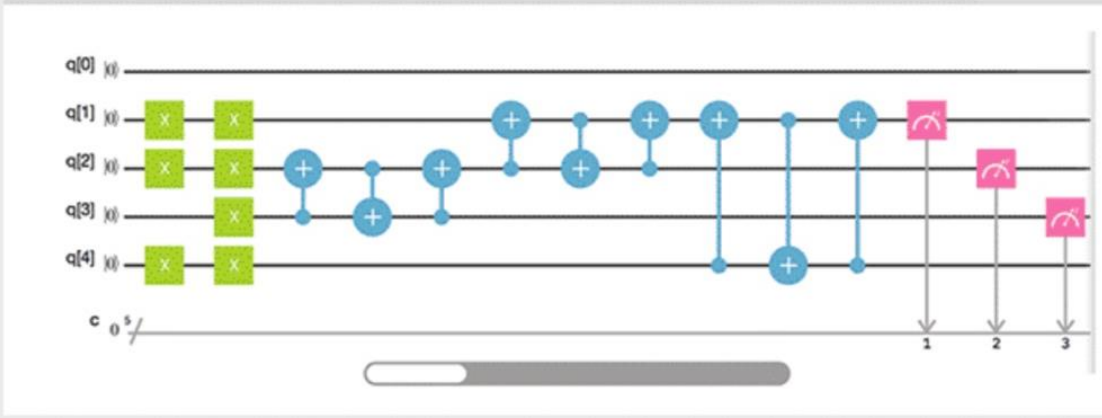
Add a description

New Save Save as

Switch to Qasm Editor

Backend: Custom Topology

Run Simulate



GATES Advanced

- \oplus (CNOT)
- id (Identity)
- X (X gate)
- Y (Y gate)
- Z (Z gate)
- T (T gate)
- T[†] (T-dagger)
- H (Hadamard)
- S (S gate)
- S[†] (S-dagger)

BARRIER

- Barrier icon

OPERATIONS

- Measurement icon

SUBROUTINE

- cZ (Controlled Z)
- cY (Controlled Y)
- ccX (Controlled Controlled X)
- cU1 (Controlled U1)
- cU3 (Controlled U3)



SEP 5, 2017 @ 12:28 AM 22,054

The Little Black Boo

How Quantum Computers Will Revolutionize Artificial Intelligence, Machine Learning And Big Data

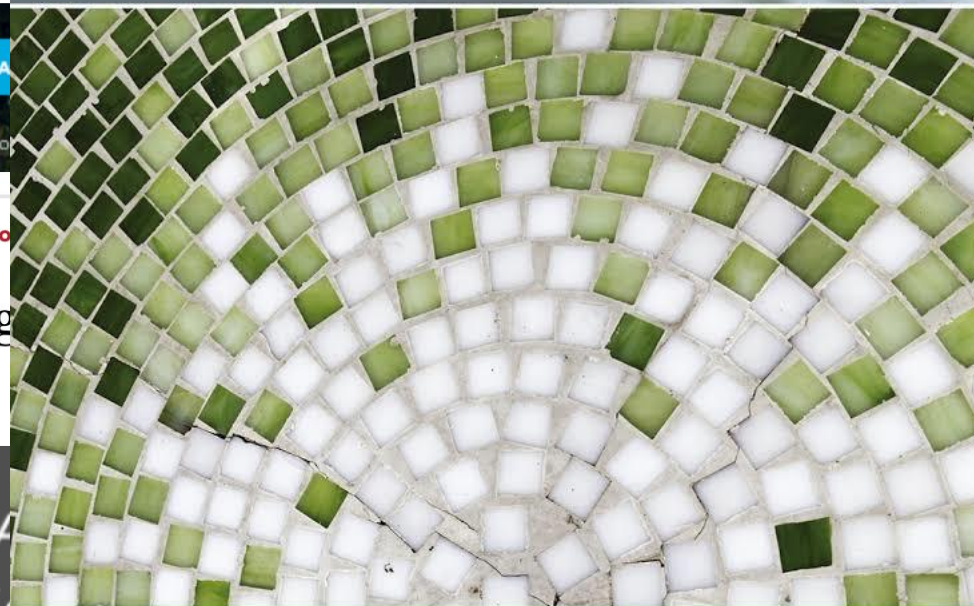
Bernard Marr, CONTRIBUTOR
[FULL BIO](#)

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veeA
Microsoft SQL
FREE TO
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#1 Grant
recover
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WHAT QUANTUM COMPUTING MEANS TO DATA MINING

PETER WITTEK



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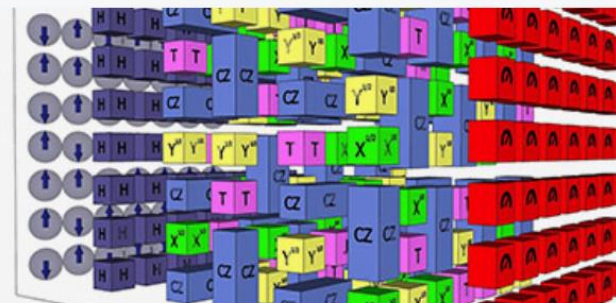


“Quantum Artificial Intelligence will enhance the most consequential of human activities, explaining observations of the world around us.”

Hartmut Neven

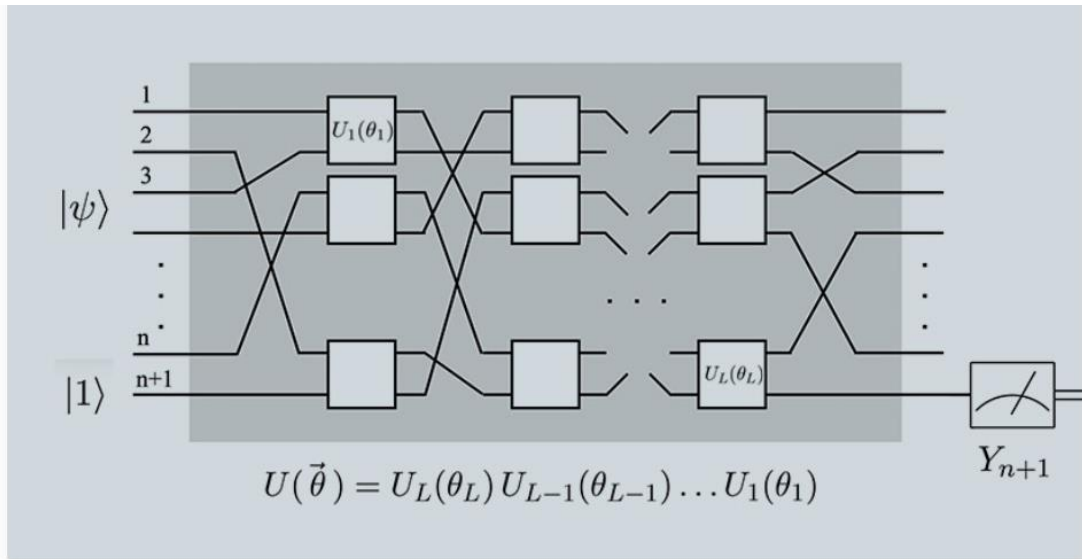
Engineering Director

Our work



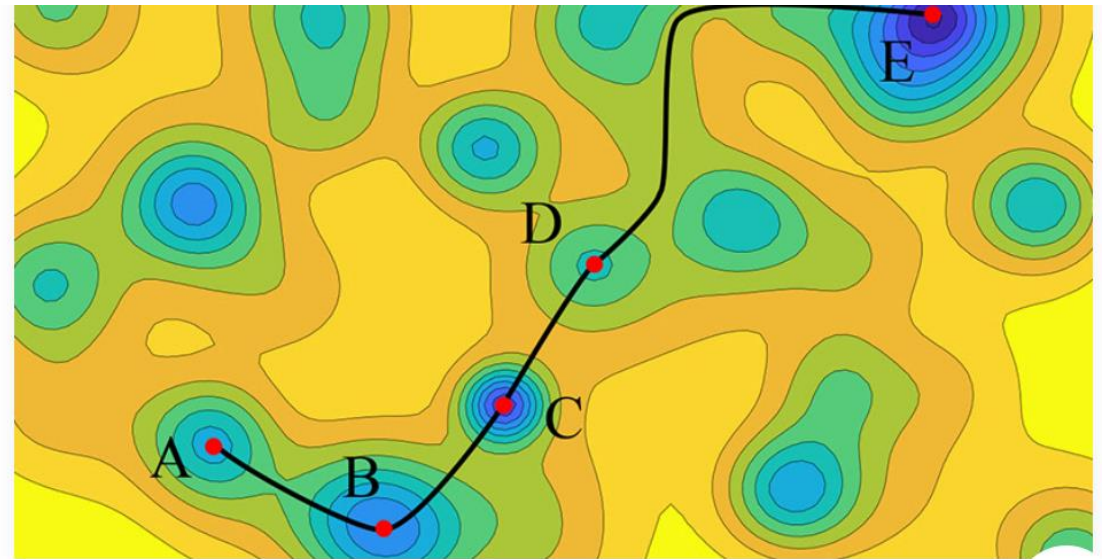
The Question of Quantum Supremacy

Theoretical foundation for our research to demonstrate a computational task that is prohibitively hard for today's classical computers but which can be carried out experimentally with our quantum processors.



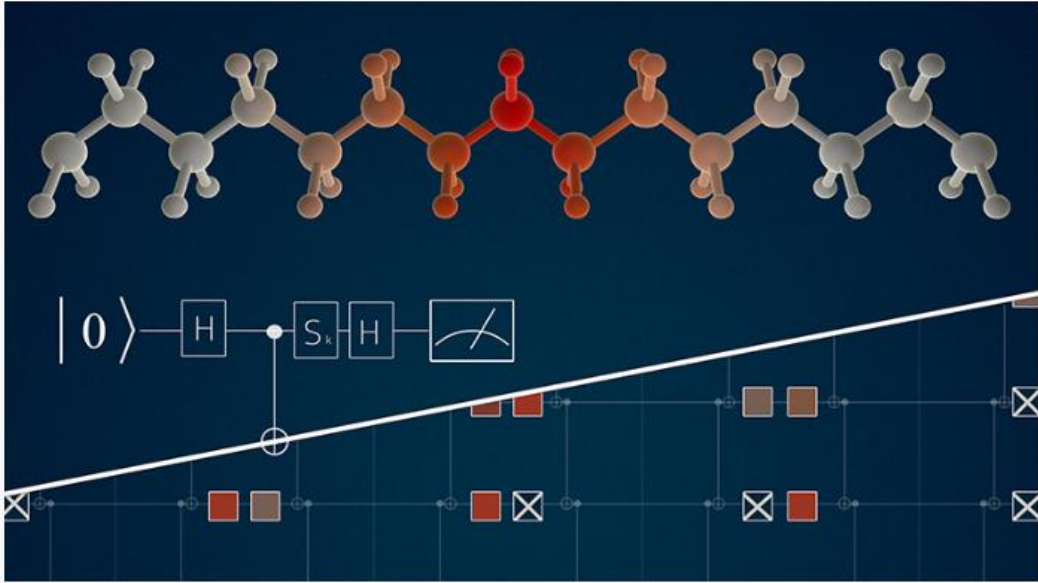
Quantum Machine Learning

We are developing hybrid quantum-classical machine learning techniques on near-term quantum devices. We are studying universal quantum circuit learning for classification and clustering of quantum and classical data. We are also interested in generative and discriminative quantum neural networks, that could be used as quantum repeaters and state purification units within quantum communication networks, or for verification of other quantum circuits.



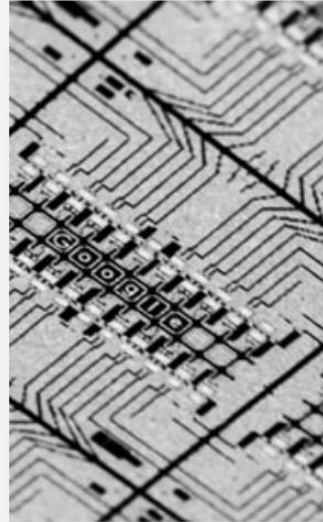
Quantum Optimization

Discrete optimizations in aerospace, automotive, and other industries may benefit from hybrid quantum-classical optimization, for example simulated annealing, quantum assisted optimization algorithm (QAOA) and quantum enhanced population transfer may have utility with today's processors.



Quantum Simulation

design of new materials and elucidation of complex physics through accurate simulations of chemistry and condensed matter models are among the most promising applications of quantum computing.



Reformulating Chemistry for More Efficient Quantum Computation

We show how molecules can be represented on quantum computers to simplify the...





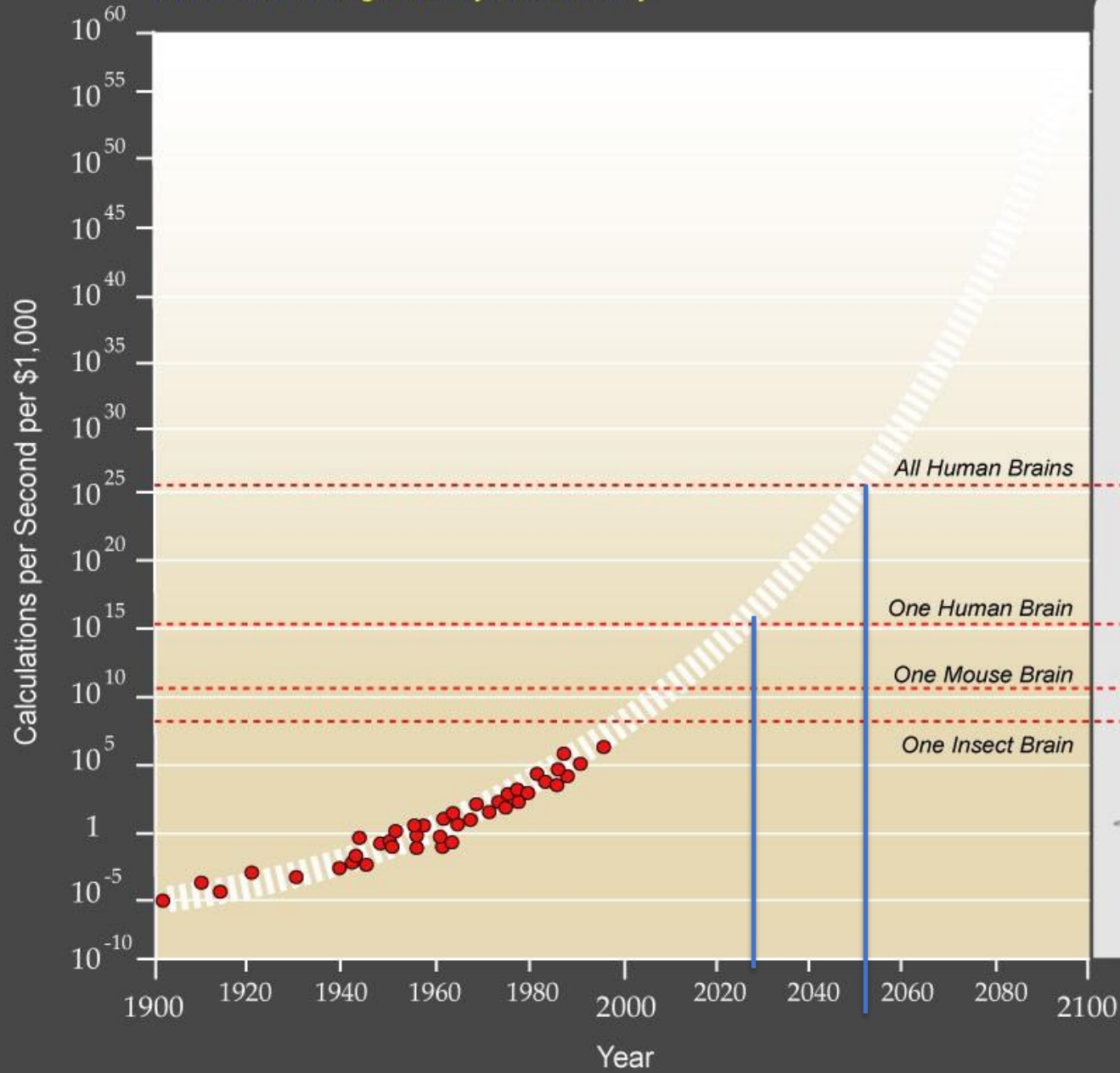


THE TRANSHUMAN CODE

**MANAGING THE FUTURE OF
HUMANITY AND TECHNOLOGY**

Exponential Growth of Computing

Twentieth through twenty first century



Logarithmic Plot



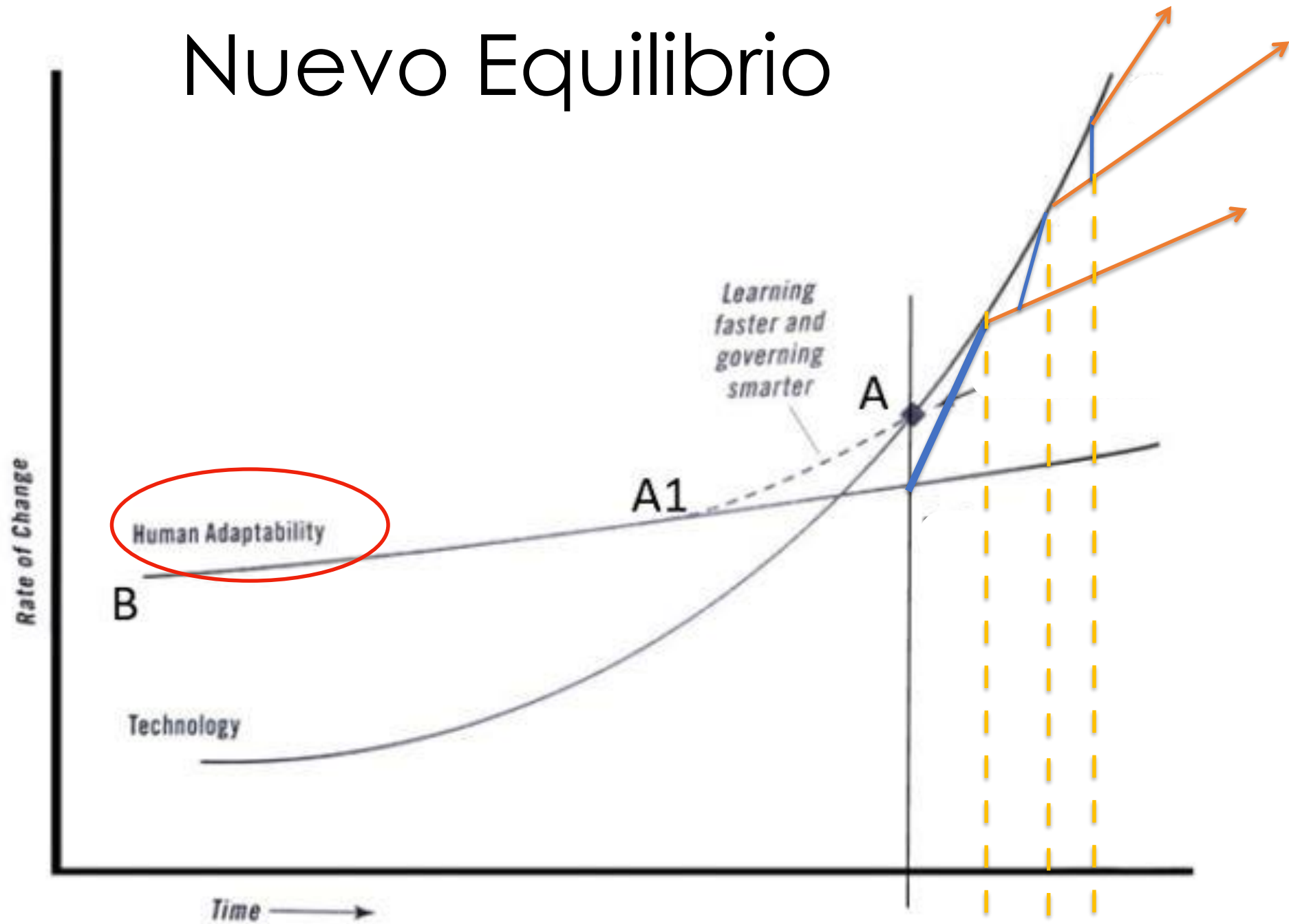
All Human Brains

One Human Brain

One Mouse Brain

One Insect Brain

Nuevo Equilibrio



ARTICULATION



ACCENTURE
ACI
ALGAR TECHNOLOGY
AMERCIAS BPS HP
ARBUSTA
BID
COMFAMA
DEVF
ECOPETROL
EMPIRICUS
FORGES
GENIUS
GLOBANT ONE LINK
GLOT
GRUPO BANCOLOMBIA
GRUPO KONECTA/ ALLUS GLOBAL
BPO
HOLBERTON
HOLCREST
HUGE
INMOBILIARIA MARAVILLA S.A.S
(IBM)
INTERNATIONAL YOUTH
FOUNDATION
INTERSOFTWARE
LENOVO
LINKED IN
MAKAIA
MAEFLORESTA
MICROSOFT
NIPU
OWENS ILLINOIS
PLATZI
PROANTIOQUIA
PROTECCION
RUTA N
SANA COMMERCE
SAPIENCIA
SECRETARIA DE DESARROLLO
ECONOMICO
SECRETARIA DE EDUCACION
SECRETARIA DE JUVENTUD
SCHNEIDER ELECTRIC
SENA
STANLEY BLACK AND DECKER
SURA ASSET MANAGEMENT
TEAM INTERNATIONAL SAS
THE VALLEY
TELECINCO
UPS
YUXI PACIFIC

A woman with dark hair, wearing a dark suit jacket, a light-colored patterned scarf, and a dark tie, is looking down. The background is a grid of numbers in a light color, creating a digital or data-like atmosphere.

HUMAN-CENTERED AI

Building Trust, Democracy, and Human Rights by Design

Andrew Ng 1.177 Tweets

Se unió en noviembre de 2010

399 Siguiendo 382.888 Seguidores

Juan Mateos Garcia, Mauricio Jimenez, Andres Barreto y 6 más siguen a este usuario

- Tweets
- Tweets y respuestas
- Multimedia
- Me gusta

Tweet fijado

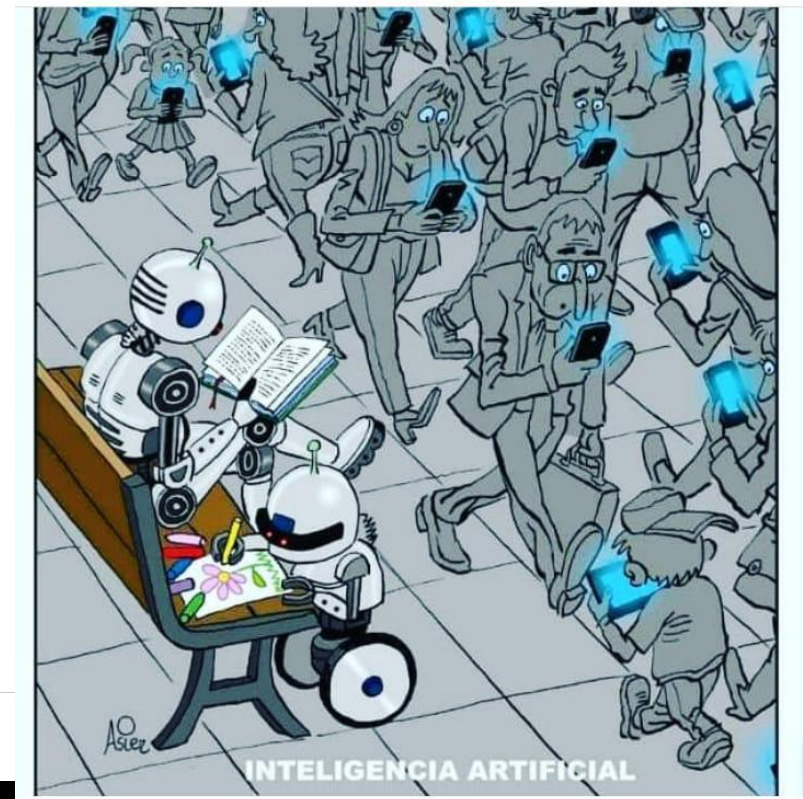


Andrew Ng @AndrewYNg · 6d

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48 947 2.523



'AI IS THE NEW ELECTRICITY'



“Just as electricity transformed almost everything 100 years ago, today I actually have a hard time thinking of an industry that I don't think AI will transform in the next several years.”

Andrew Ng

Former chief scientist at Baidu, Co-founder at Coursera

The background is a dark, textured composition. It features a central area with a dense, multi-colored pattern of fine, wavy lines in shades of blue, purple, and green. This central pattern is surrounded by a field of larger, semi-transparent squares in various colors, including blue, purple, and red, which appear to be scattered across the dark background. The overall effect is a complex, digital, and somewhat ethereal aesthetic.

Google Circa

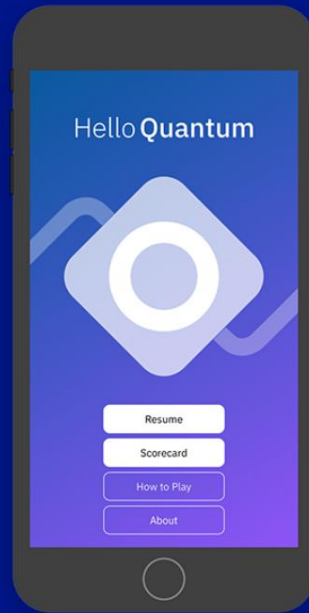


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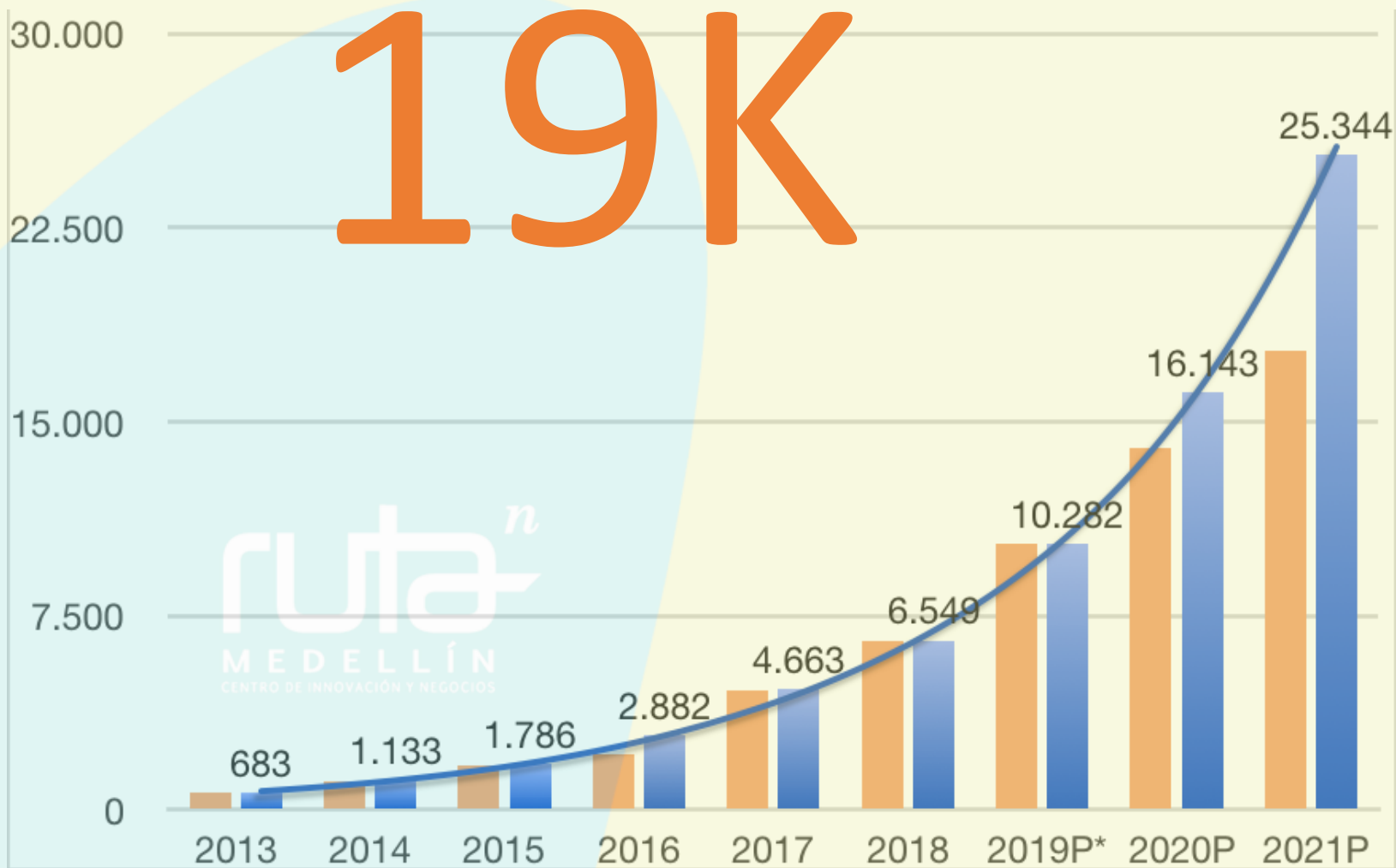


[Start experimenting with a quantum computer](#)



Talent for the 4IR from Medellín

19K



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By Annie Sneed on November 2, 2017



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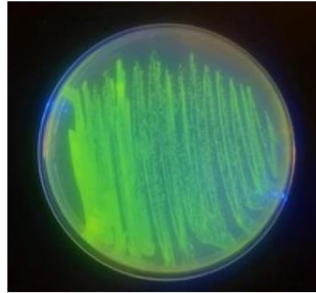


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