

José Luis Cordeiro

**The Millennium Project
Director, Venezuela Node**

**Singularity University
NASA Ames, California, USA**

IDE – JETRO, Tokyo, Japan (past 3 years)

Yonsei University, Seoul, Korea (next 3 years)

Natal, June 15, 2012



The Millennium Project



Global futurist think-tank with 40 nodes around the world



The Millennium Project

2011

STATE OF THE
FUTURE

JEROME C. GLENN, THEODORE J. GORDON
AND ELIZABETH FLORESCU

**Specially recommended
by Ban Ki-moon**

**The Millennium Project's
15th Anniversary
Annual Report Card
on the Future**

- Global Challenges
- State of the Future Index
- Egypt 2020
- Future Arts/Media 2020
- **Latin America 2030**
- Environmental Security
- Other Futures Research

Plus 8,000-page CD

Education and Learning 2030

1. National programs for improving collective intelligence
2. Just in time knowledge and learning
3. Individualized education
4. Use of simulations
5. Continuous evaluation to prevent instability and/or becoming mentally ill.
6. Improved individual nutrition
7. Genetically increased intelligence
8. Use of global on-line simulations as a primary social science research
9. Use of public communications to reinforce pursuit of knowledge
10. Portable artificial intelligence
11. Complete mapping of human synapses to discover how learning occurs
12. Means for keeping adult brains healthier for longer
13. Chemistry for brain enhancement
14. Web 17.0
15. Integrated life-long learning systems
16. Programs aimed at eliminating prejudice and hate
17. e-Teaching
18. Smarter than human
19. Artificial microbes enhance intelligence

2111

BRIDGESTONE

Samsung SMART TV

FedEx
Express

EL SHOW VIDEOS IMÁGENES BIOGRAFÍAS INTERACTIVOS SECCIÓN EXCLUSIVA

ACERCA DEL SHOW



2111 es una serie histórica que permitirá descubrir cómo será Latinoamérica dentro de 100 años. A lo largo de 6 programas, encontrará las respuestas a los grandes interrogantes acerca del futuro: ¿Cómo serán nuestras ciudades dentro de 100 años? ¿Cómo nos transportaremos? ¿Cómo será la vida cotidiana del hombre del mañana?

Con 2111 develaremos el futuro a partir de pistas que ya existen en el presente. Conoceremos los proyectos más vanguardistas y sorprendentes del mundo, y los relacionaremos con nuestra región. También contaremos con el testimonio de renombrados expertos de la ciencia, la tecnología y la cultura. Todos ellos son los hacedores del futuro, y se ocuparán de acercarlo a la actualidad.

En cada episodio el Host viajará por Latinoamérica y el mundo. Al presentar e interactuar con los distintos desarrollos, será el hilo conductor de la historia y también quien le dará unidad y continuidad al relato, que por momentos transcurrirá en el futuro, y por momentos en el presente.

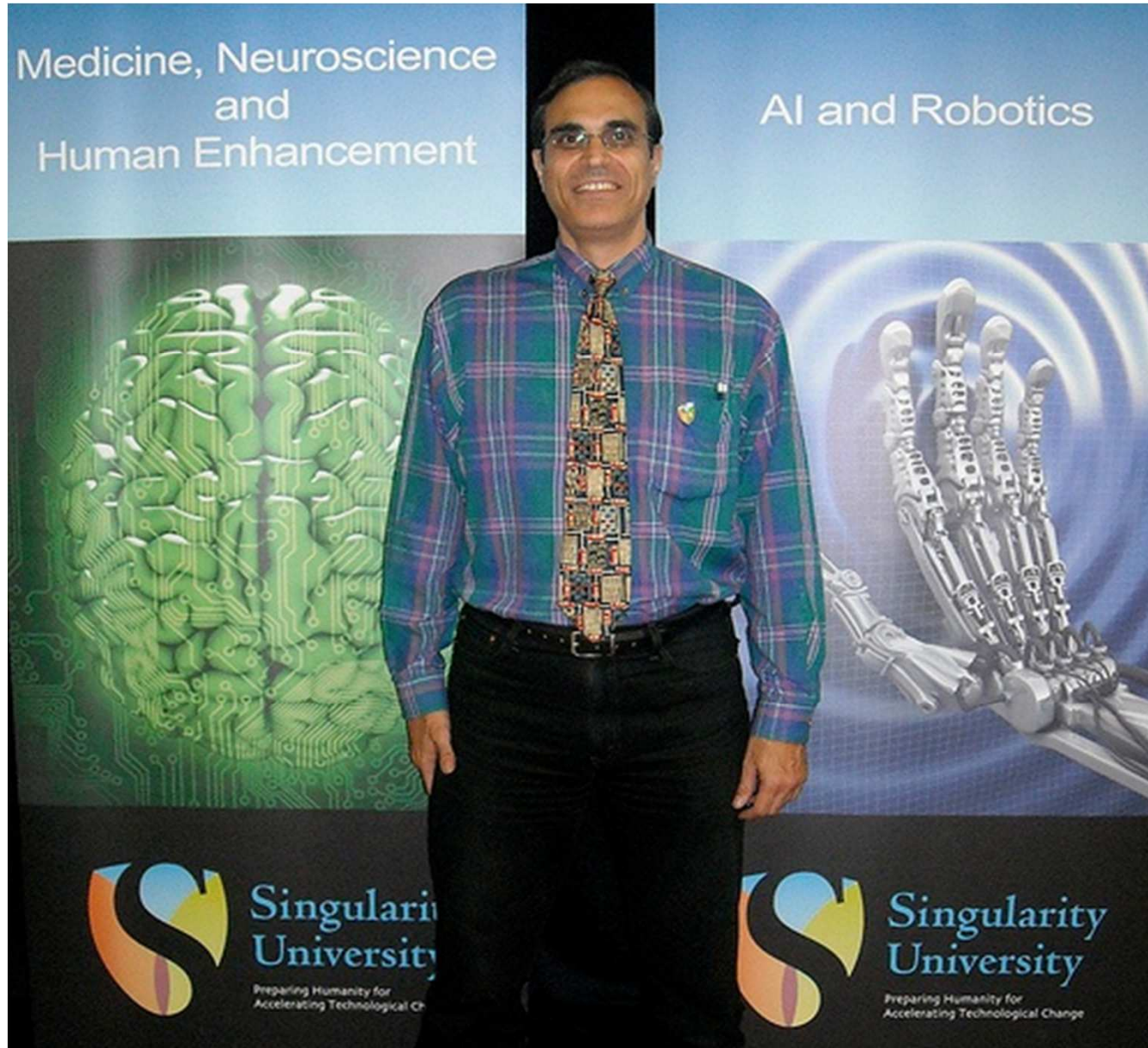
La inclusión de las más avanzadas técnicas de animación computada para construir ciudades en 3D, casas, espacios públicos, objetos o medios de transporte del futuro, será un recurso que estará presente a lo largo de todos los capítulos

Las temáticas que abordará la miniserie serán:

- Arquitectura y Desarrollo urbano
- Vida cotidiana
- Transporte y Energía
- Entretenimiento
- Salud y Bienestar
- Trabajo y Educación



Singularity University



¿Qué es el futuro?

- *¡ El futuro ya no es lo que era antes!*



Mafalda

Attitudes towards the future

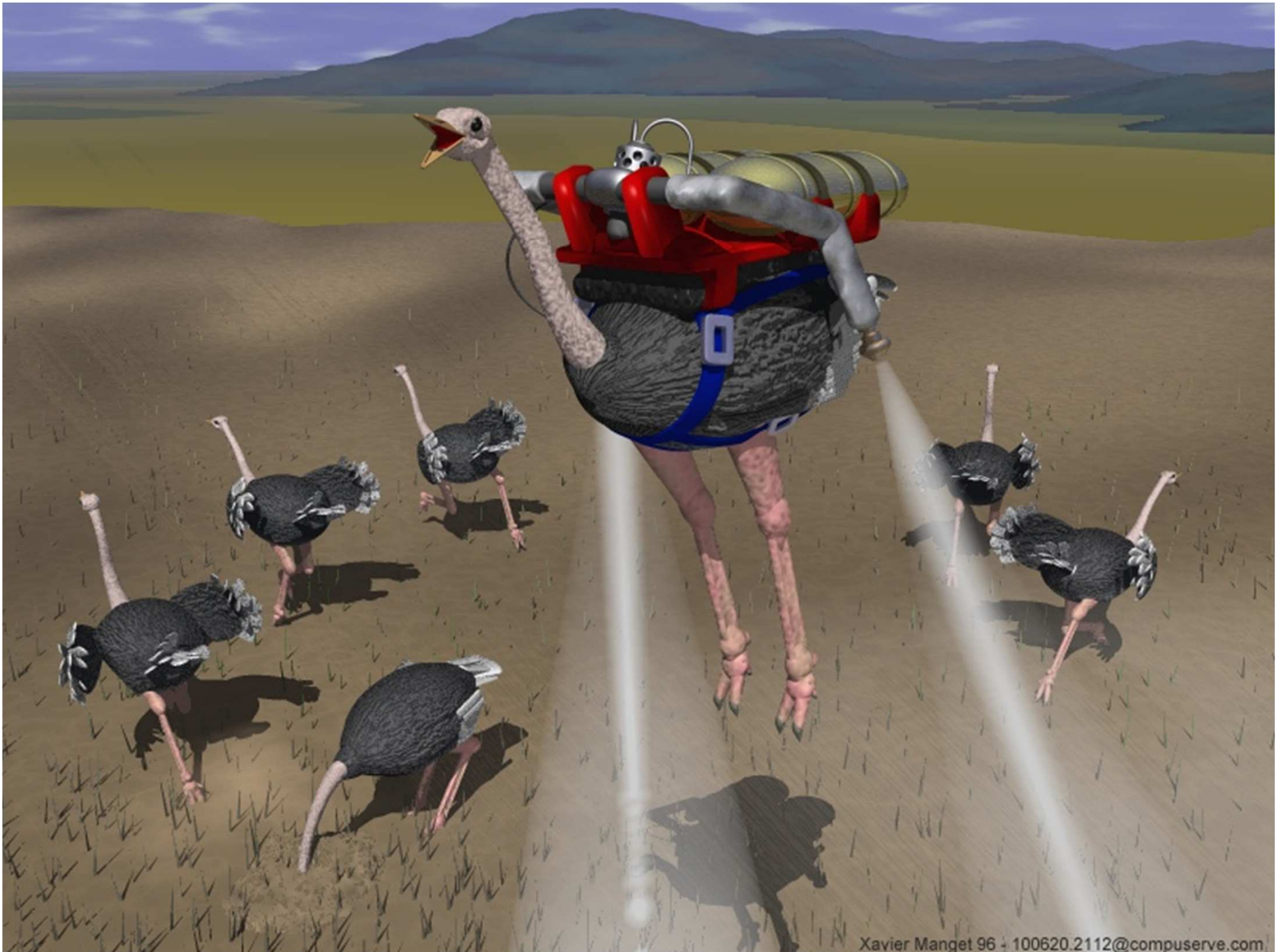


•Passive (**ostrich**) Suffer the future

•Reactive (**fire fighter**) Respond

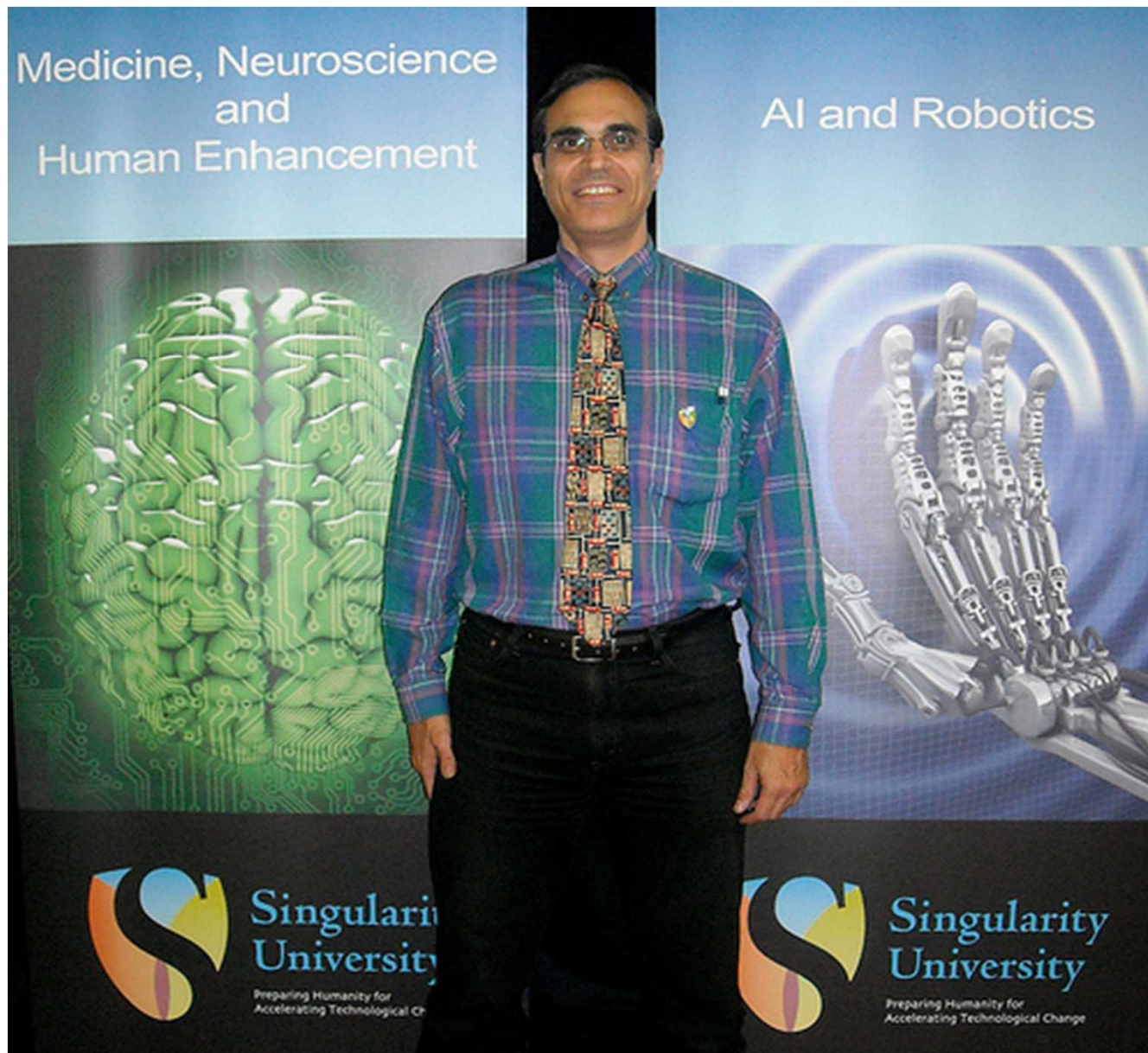
•Preactive (**insurer**) Prepare

•Proactive (**builder**) Create

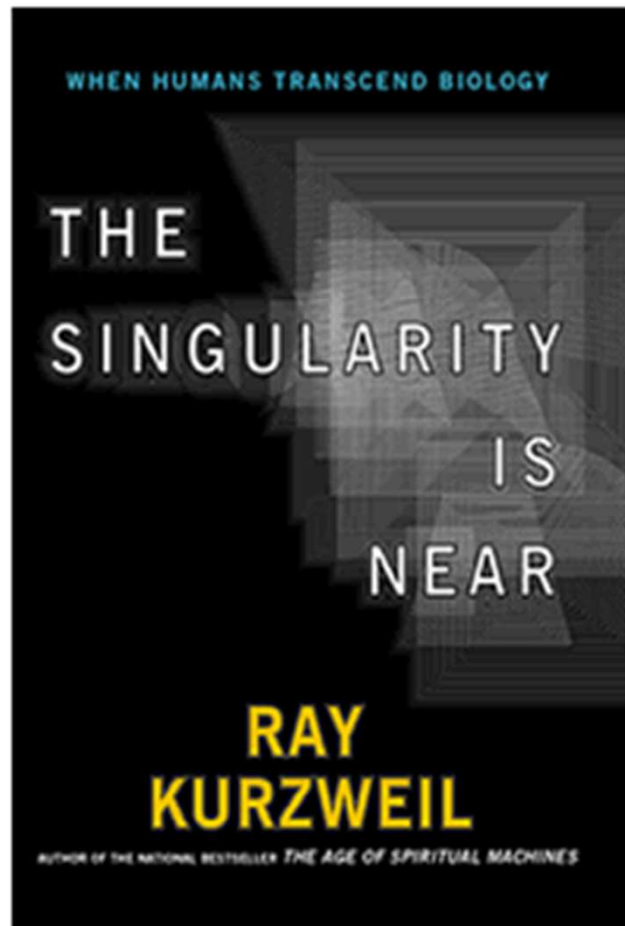




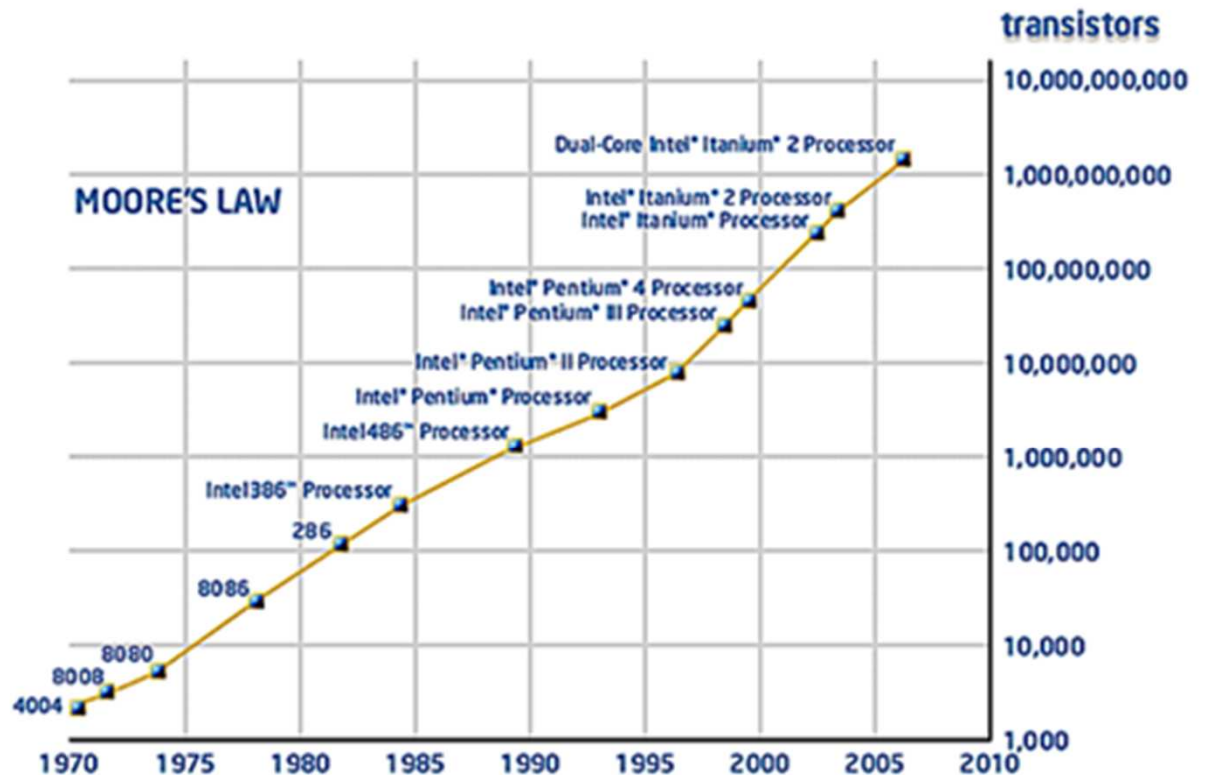
Singularity University



Ray Kurzweil (MIT): *The Singularity is Near*



- www.singularity.com
- Bill Gates



FEBRUARY 21, 2011

Revolution
in Egypt

Joe Klein: What the U.S. should do
On the Street: Hope meets anxiety
Muslim Brotherhood: What it wants

Oscars:
Portraits of
star power

TIME

2045

The Year Man Becomes Immortal*

BY LEV GROSSMAN

*if you believe
humans and
machines will
become one.
Welcome to
the Singularity
movement

www.time.com

[my home](#)

health and traits

- Clinical Reports
- Research Reports

ancestry

- Maternal Line
- Paternal Line
- Ancestry Painting
- Global Similarity

genome sharing

- Manage Sharing
- Compare Genes
- Family Inheritance

23andWe

- My Surveys (24)
- Our Research Mission
- Featured Research

community

- 23andMe Community
- Parkinson's Disease
- Pregnancy

account

health and traits

These tables list those [clinical reports](#) we consider most notable based on your genetic information.








Move your mouse over the colored bars or icons for a glance at your data. Click the name of any disease or trait for your full report.

Clinical Reports

Research Reports (86)

Show data for:

Disease Risks ?

	Age-related Macular Degeneration
	Celiac Disease
	Psoriasis
	Type 2 Diabetes
	Prostate Cancer 
	1 locked report

[See all 10 risk reports...](#)

Carrier Status ?

Alpha-1 Antitrypsin Deficiency	Variant Absent
Bloom's Syndrome	Variant Absent
Cystic Fibrosis (Delta F508 mutation)	Variant Absent
G6PD Deficiency	Variant Absent
Glycogen Storage Disease Type 1a	Variant Absent
	1 locked report

[See all 8 carrier status...](#)

Traits ?

Alcohol Flush Reaction	Does Not Flush
Bitter Taste Perception	Can Taste
Earwax Type	Wet
Eye Color	Likely Brown
Lactose Intolerance	Likely Tolerant

Drug Response ?

Warfarin (Coumadin®) Sensitivity	Increased
Clopidogrel (Plavix®) Efficacy	Typical


[Home](#) [my home](#)

health and traits

[Clinical Reports](#)
[Research Reports](#)

ancestry

[Maternal Line](#)
[Paternal Line](#)
[Ancestry Painting](#)
[Global Similarity](#)

genome sharing

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23andMe

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[23andMe Community](#)
[Parkinson's Disease](#)
[Pregnancy](#)

account

[Inbox](#)

paternal line

Your Y chromosome DNA determines your paternal haplogroup. [What is a haplogroup?](#)

[Map](#)
[History](#)
[Haplogroup Tree](#)

Your paternal haplogroup may have changed. This is due to a recent update to our paternal haplogroup tree. Find out more about this feature improvement at the [Spittoon](#).

Paternal Haplogroup: R1b1b2a1a2

R1b1b2a1a2 is a subgroup of R1b1b2, which is described below.

Locations of haplogroup R1b1b2 circa 500 years ago, before the era of intercontinental travel.



R1b1b2 is the most common haplogroup in western Europe, where its branches are clustered in various national populations. R1b1b2a1a2b is characteristic of the Basque, while R1b1b2a1a2f2 reaches its peak in Ireland and R1b1b2a1a1 is most commonly found on the fringes of the North Sea.

Human Prehistory Video

Haplogroup: R1b1b2, a subgroup of [R1b1b](#)

Age: 17,000 years

Region: Europe

Populations: Irish, Basques, British, French

Highlight: R1b1b2 is the most common haplogroup in western Europe, with distinct branches in specific regions.

Your Family and Friends

[D2a1](#) Japanese Person

[E1b1a8a..](#) Nigerian Person

[N](#) Chinese Person

[R1b1b2a..](#) Jose Cordeiro

Famous People

[C3](#) Genghis Khan



🏠 [my home](#)

health and traits

Clinical Reports

Research Reports

ancestry

▶ [Maternal Line](#)

[Paternal Line](#)

[Ancestry Painting](#)

[Global Similarity](#)

genome sharing

[Manage Sharing](#)

[Compare Genes](#)

[Family Inheritance](#)

23andMe

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[Featured Research](#)

community

[23andMe Community](#)

[Parkinson's Disease](#)

[Pregnancy](#)

maternal line

Your mitochondrial DNA determines your maternal haplogroup. [What is a haplogroup?](#)

Map

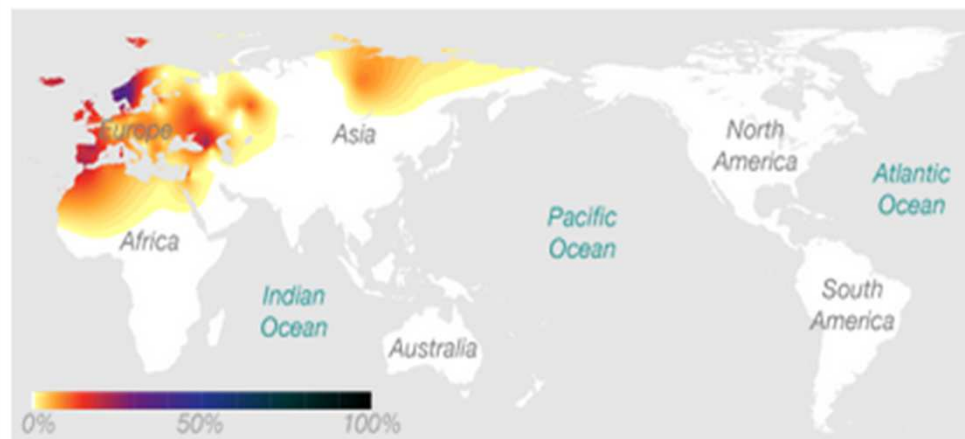
[History](#)

[Haplogroup Tree](#)

Maternal Haplogroup: H1*

H1* is a subgroup of H1, which is described below.

Locations of haplogroup H1 circa 500 years ago, before the era of intercontinental travel.



Haplogroup H1 is widespread in Europe, especially the western part of the continent. It originated about 13,000 years ago, not long after the Ice Age ended.

Human Prehistory Video



[Human Prehistory: Prologue](#)

Haplogroup: H1, a subgroup of [H](#)

Age: 13,000 years

Region: Europe, Near East, Central Asia, Northwestern Africa

Populations:

Spanish, Berbers, Lebanese

Highlight: H1 appears to have been common in Doggerland, an ancient land now flooded by the North Sea.

Your Family and Friends

[D4e2](#) Japanese Person

[D5a2](#) Chinese Person

[H1*](#) Jose Cordeiro

[L3e](#) Nigerian Person

Famous People

[H](#) Marie Antoinette



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family inheritance

health and traits

Clinical Reports

Research Reports

ancestry

Maternal Line

Paternal Line

Ancestry Painting

Global Similarity

genome sharing

Manage Sharing

Compare Genes

Family Inheritance

23andMe

My Surveys (27)

Our Research Mission

Featured Research

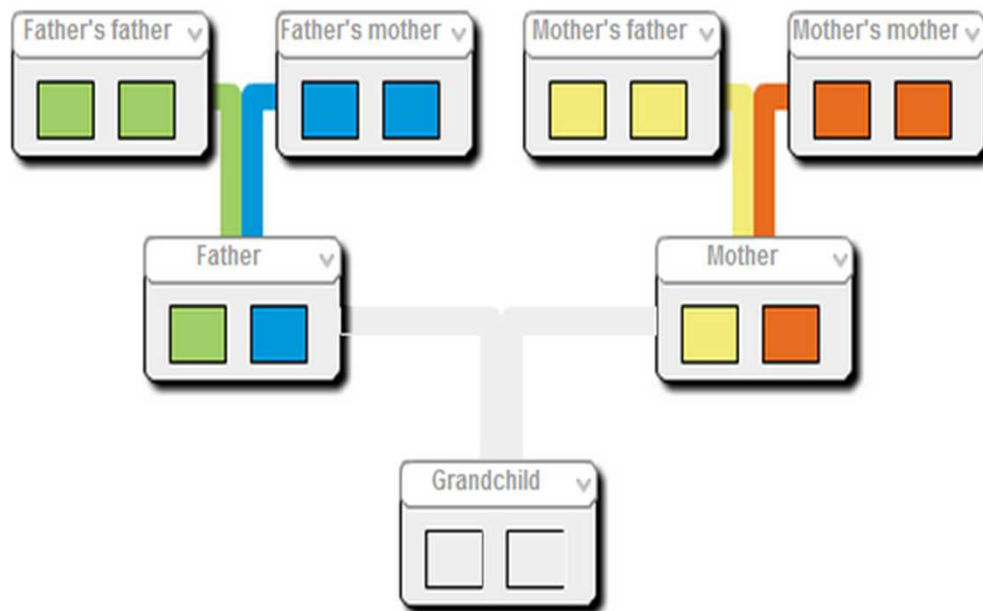
Genome View

GrandTree

Inheritance Calculator

Tell me how to use this feature...

Please select a grandchild for comparison.
Click on the down-arrow labeled "Grandchild" in the bottom box of the family tree.



Click on a trait for comparison:

- Genome-Wide Comparison**
Comparison across all of the genome data
- Bitter Tasting**
Genes related to bitter tasting
- Circadian Rhythm**
Genes related to regulating your internal clock
- Endurance**
Genes related to physical endurance
- Female Fertility**
Genes related to fertility in women
- Immune System Compatibility**

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health and traits

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▶ Family Inheritance

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[Parkinson's Disease](#)
[Pregnancy](#)
[Senior Games](#)

account

[Inbox \(1\)](#)
[My Profile](#)
[Settings](#)
[Browse Raw Data](#)

family inheritance

[Genome View](#)
[GrandTree](#)
[Inheritance Calculator](#)

Find out what traits ([phenotypes](#)) and [genotypes](#) a child might have based on the selected pair of parents.



Jose Cordeiro



Bj Price


Offspring's Possible Traits
[How are these calculated?](#)
Alcohol Flush Reaction
[View Your Alcohol Flush Reaction Report](#)

GG

GG

100% 😊 Little or no flush (GG)

0% 😐 Moderate flush

0% 😞 Extreme flush

Bitter Taste Perception
[View Your Bitter Taste Perception Report](#)

GG

CG

100% 😞 Bitter taster (GG, CG)

0% 😊 Non-bitter taster

Earwax
[View Your Earwax Report](#)

CC

CC

100% 🖌️ Wet earwax (CC)

0% 🖌️ Dry earwax

Eye Color
[View Your Eye Color Report](#)

AA

AG

71% 👁️ Brown/Black eyes (AA, AG)

26% 👁️ Green/Hazel eyes (AA, AG)

4% 👁️ Blue/Gray eyes (AA, AG)

Sequencing the genome: cost and time

Year	Cost (US\$)	Time
2003	1,000,000.000	13 years
2007	100,000,000	4 years
2008	1,000,000	2 months
2010	10,000	4 weeks
2015	100	5 days
2020	10	1 hour

“Android” Google Phone (gPhone)





Fly To Local Search Directions

e.g. 37 25.818' N, 122 05.36' W

kuwait

kuwait

Clear

Places

- Yosemite National Park
- default
Google Earth default view
- Temporary Places

Layers

- Secondary School Districts
- Unified School Districts
- Churches/Cemeteries
- Airports/Transportation
- roads
- Transit -- Local Rail
- Transit -- Commuter Rail
- Railroads
- borders
- City Boundaries
- Postal Code Boundaries
- Crime Stats
- Census
- US Congressional Districts
- Populated Places
- Geographic Features
- 3D Buildings
- Water
- Earthquakes
- Volcanoes
- DG Coverage - 2005
- DG Coverage - 2004
- DG Coverage - 2003
- DG Coverage - 2002

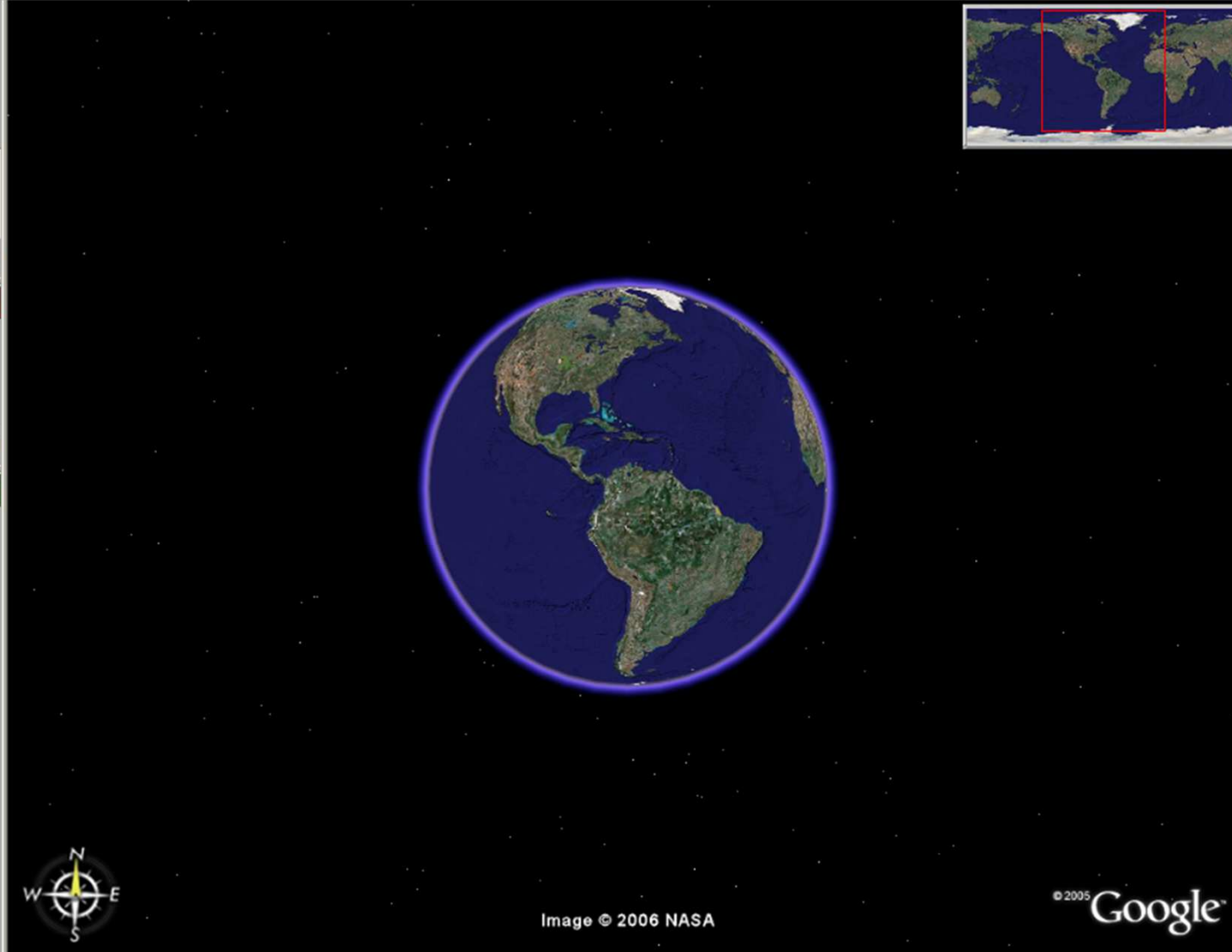


Image © 2006 NASA

© 2005 Google

Pointer 0°00'00.00" N 0°00'00.00" E Streaming 100% Eye alt 17681.31 mi

- Lodging
- Dining
- Roads
- Borders
- Terrain
- Buildings



Fly To Local Search Directions

e.g. 37 25.818° N, 122 05.36° W

kuwait

kuwait

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- 3D Buildings
- Water
- Earthquakes
- Volcanoes
- DG Coverage - 2005
- DG Coverage - 2004
- DG Coverage - 2003
- DG Coverage - 2002

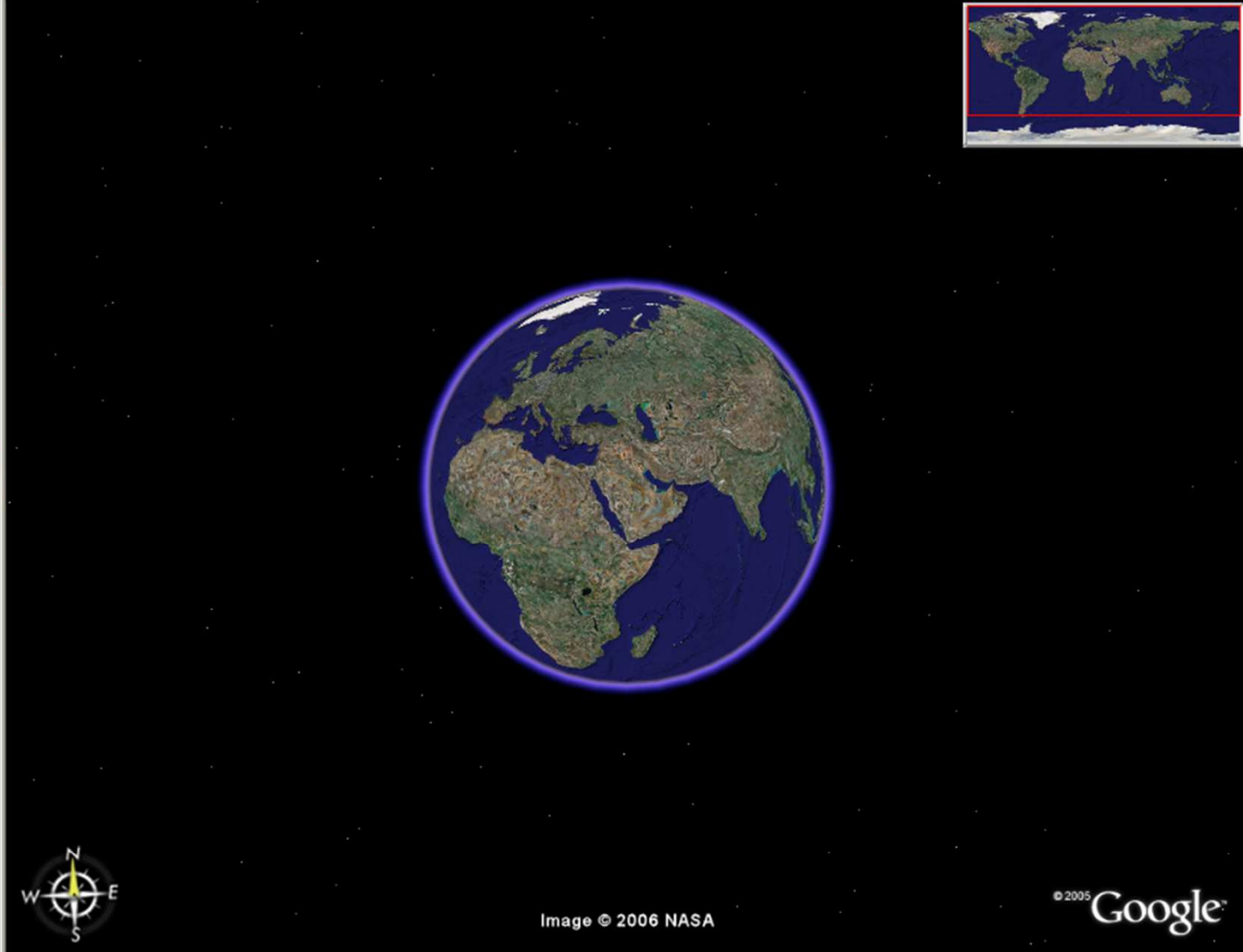


Image © 2006 NASA

© 2005 Google

Pointer 25°21'50.05" N 43°44'42.92" E

Streaming 100%

Eye alt 17853.64 mi

- Lodging
- Dining
- Roads
- Borders
- Terrain
- Buildings



Fly To Local Search Directions

e.g. Hotels near JFK

korea

- korea
- korea
- caracas
- seoul

Clear

Places

- My Places
- Temporary Places

Layers

- Layers
 - terrain
 - National Geographic Magazine
 - Google Earth Community
 - Community Showcase
 - Google Earth Community (Unrank
 - Populated Places
 - Alternative Place Names
 - borders
 - Dining
 - Lodging
 - Banks/ATMs
 - Bars/Clubs
 - Coffee Shops

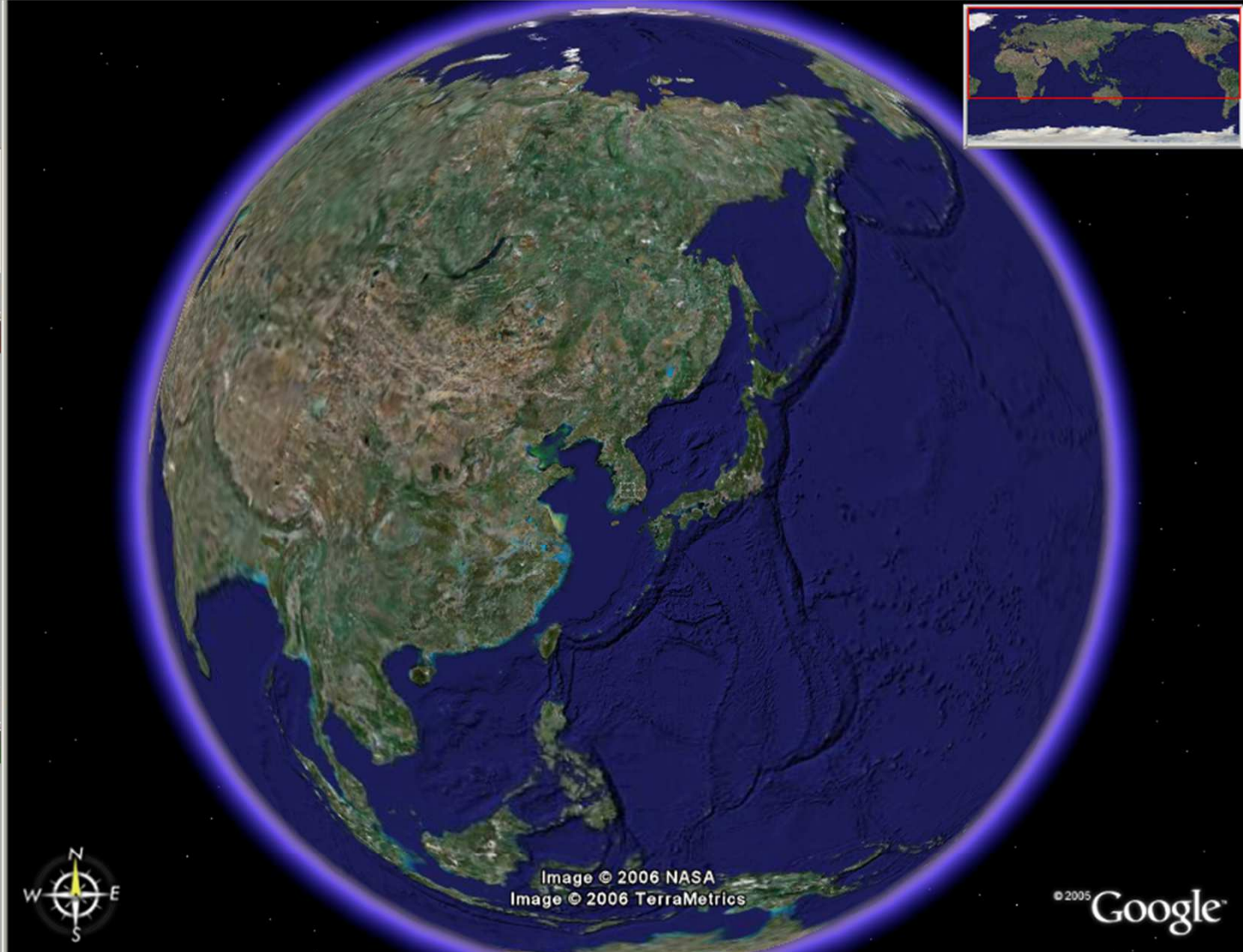


Image © 2006 NASA
Image © 2006 TerraMetrics

© 2005 Google

Pointer 35°50'14.84" N 127°43'44.91" E Streaming 100% Eye alt 5695.24 mi

- Lodging
- Dining
- Roads
- Borders
- Terrain
- Buildings

Navigation controls including zoom in (+), zoom out (-), home, compass, and fly mode buttons.

Fly To Local Search Directions

e.g. Hotels near JFK

korea

- [korea](#)
- [korea](#)
- [caracas](#)
- [seoul](#)

Clear

Places

- My Places
- Temporary Places

Layers

- Layers
 - terrain
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 - Google Earth Community
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 - Google Earth Community (Unrank
 - Populated Places
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 - Lodging
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 - Bars/Clubs
 - Coffee Shops



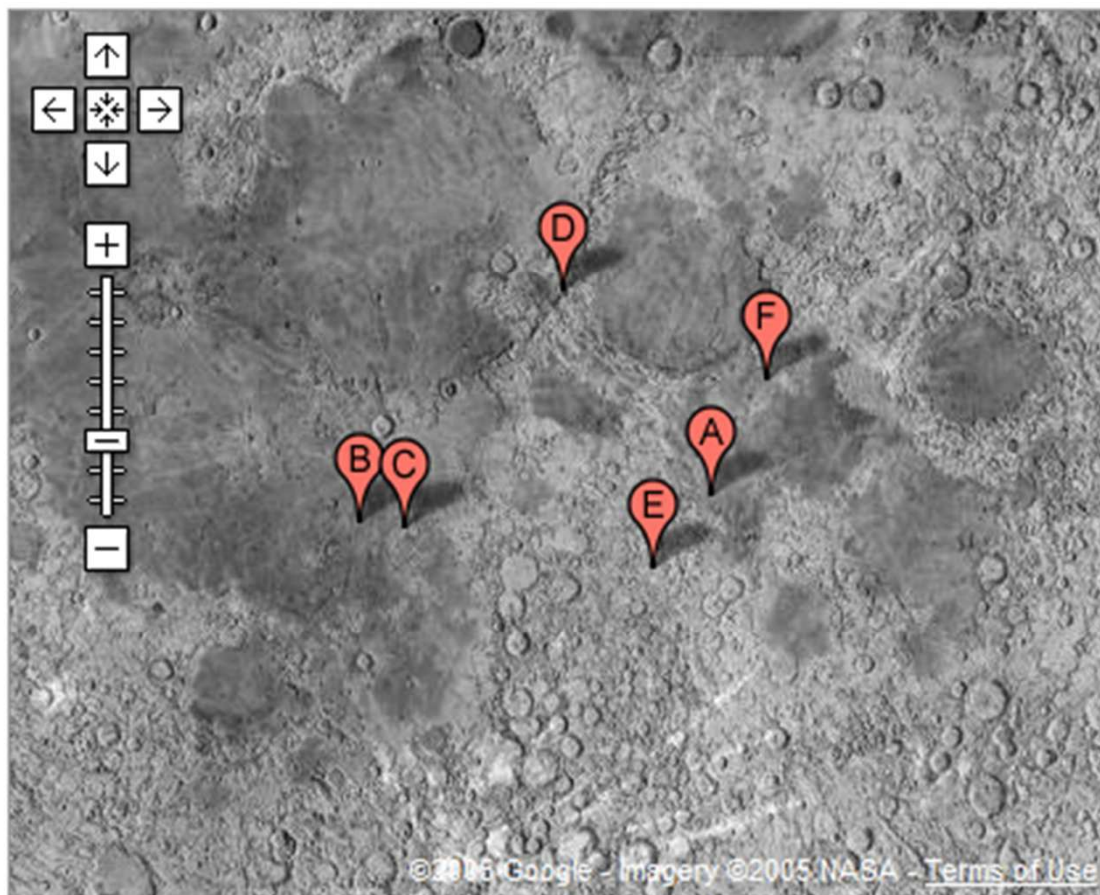
- Lodging
- Dining
- Roads
- Borders
- Terrain
- Buildings

Navigation controls including zoom in (+), zoom out (-), home, and a directional pad.





Moon






©2016 Google - Imagery ©2005 NASA - [Terms of Use](#)

Welcome to Google Moon

In honor of the first manned Moon landing, which took place on July 20, 1969, we've added some NASA imagery to the [Google Maps](#) interface to help you pay your own visit to our celestial neighbor. Happy lunar surfing. [More about Google Moon.](#)

Looking for something on [Planet Earth](#)?

-  [Apollo 11](#)
Jul 20, 1969
-  [Apollo 12](#)
Nov 19, 1969
-  [Apollo 14](#)
Feb 5, 1971
-  [Apollo 15](#)

Google Earth

File Edit View Tools Add Help

Search

Search the Sky Location Search

e.g., Leo, Andromeda Galaxy, NGC 3620

Ramsey Star Maps
 GALEX: Introduction
 NGC 5471
 WMAP: Introduction
 Chandra: Introduction
 VOWentNet Introduction
 Earth & Sky Introduction
 Splineer: Introduction
 IRIS: Introduction
 Welcome to Sky
 NGC 5462
 NGC 5461
 Messier 025
 Messier 031
 NGC 5451
 NGC 5453
 NGC 5455
 NGC 5447
 NGC 5450
 NGC 5455
 Pinwheel Galaxy
 Messier 101
 Our Solar System Introduction
 Backyard Astronomy Introduction
 Introduction

Image NASA/STScI
 Image © 2007 SDSS

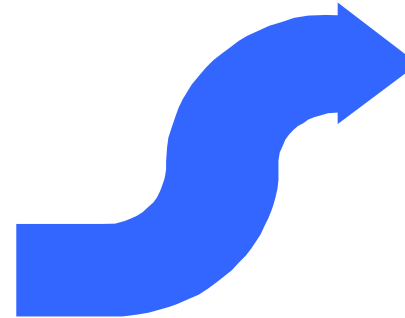
Places Add Content
 Layers

Pointer Dec: 54°21'24.72" RA: 14h03m06.74s Streaming: 100%

The 3 “waves” of Alvin Toffler

Knowledge revolution

Human resources



Industrial revolution

Financial resources



Agricultural revolution

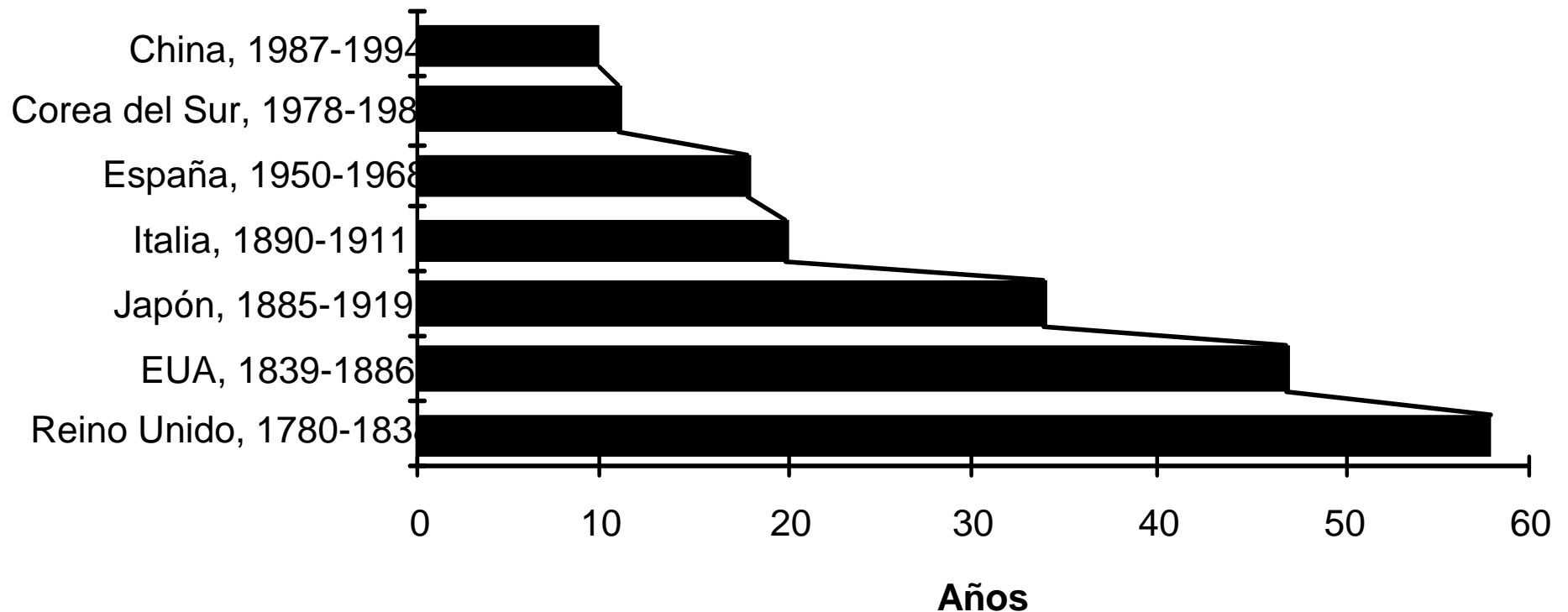
Natural resources

Development is faster and faster

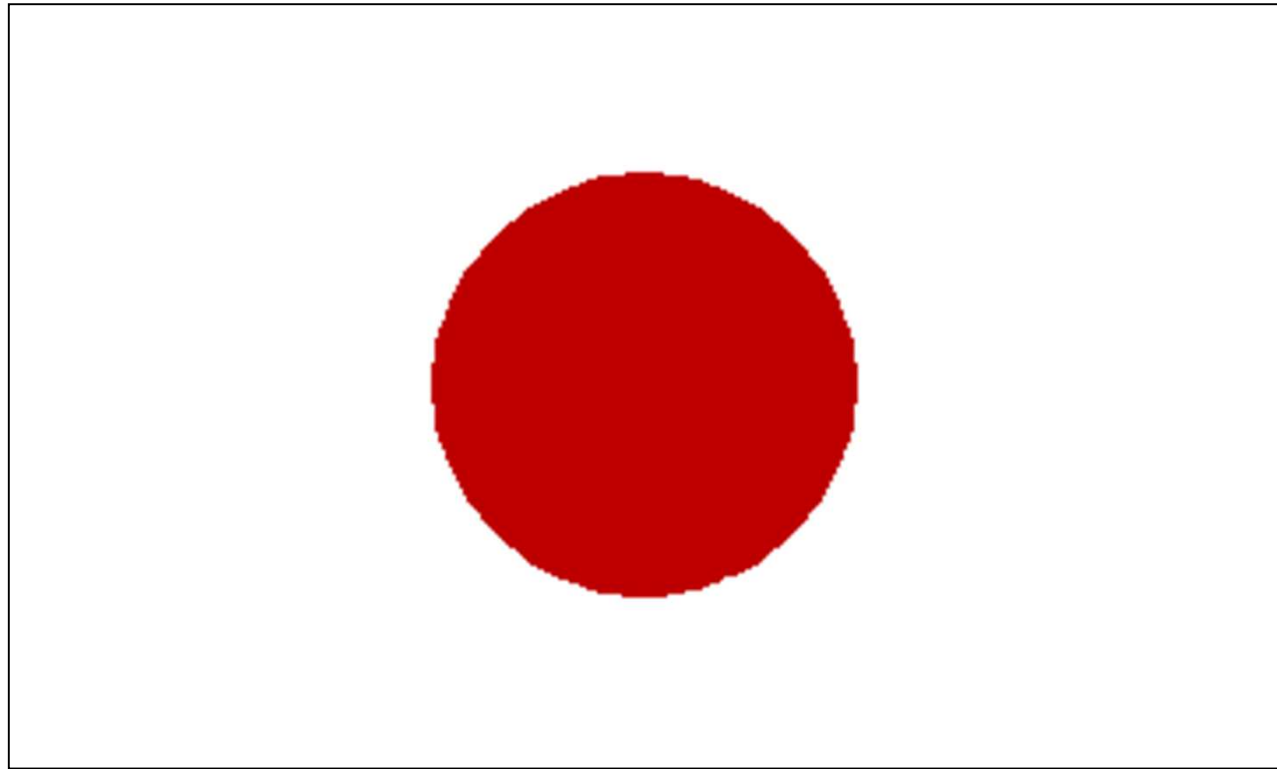
La Escalera del Desarrollo

(Tiempo para duplicar el PIB por habitante)

La Escalera del Desarrollo



**Japón: de juguetes malos a
computadoras buenas en 40 años**



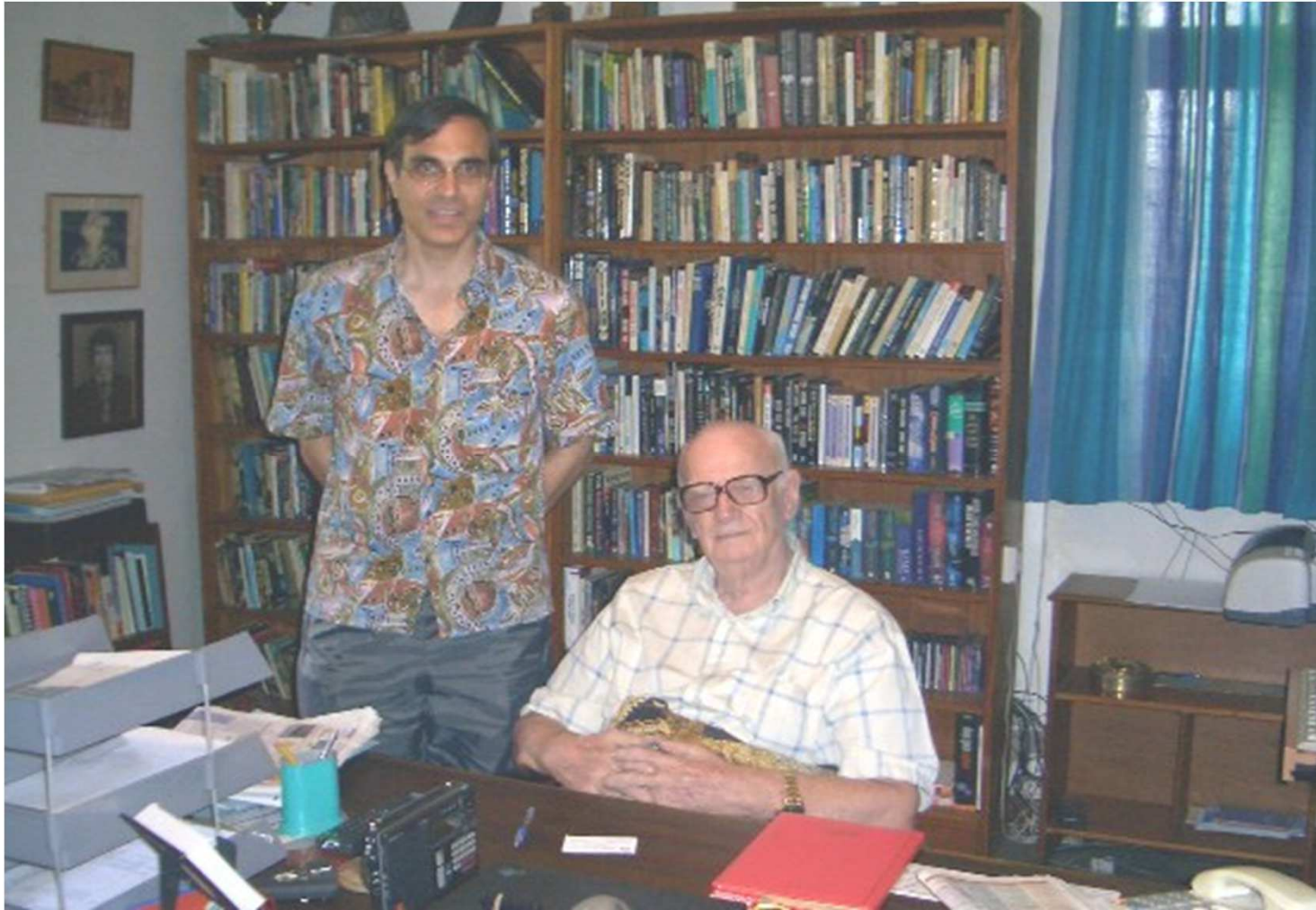
From manufacturing to **mindfacturing**



We need to **add value**



Sir Arthur C. Clarke with Jose Cordeiro



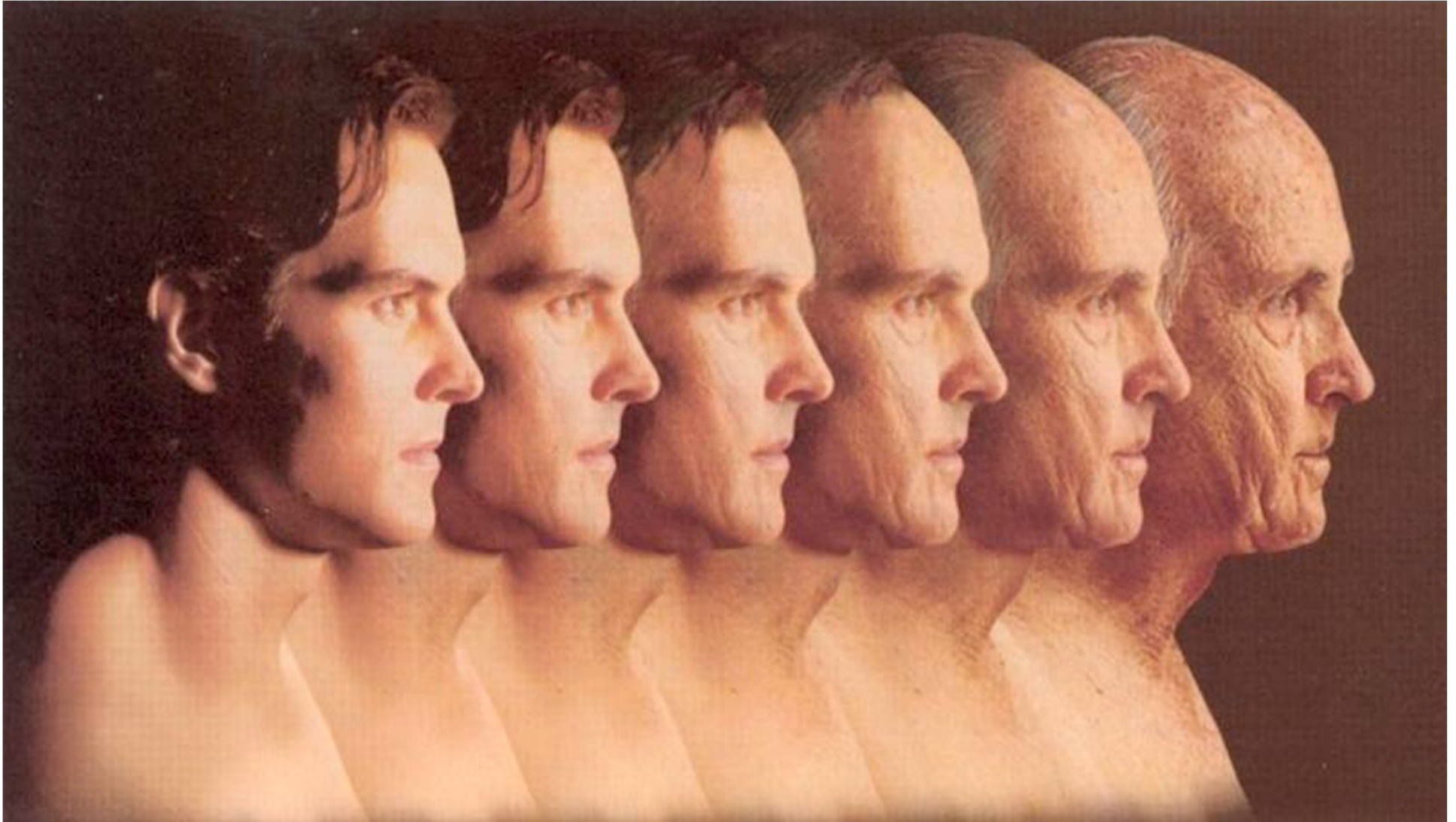
The Three Laws of **Sir Arthur C. Clarke**

- **First Law:** When a distinguished but elderly scientist states that something is possible, he is almost certainly right. When he states that something is impossible, he is very probably wrong.
- **Second Law:** The only way of discovering the limits of the possible is to venture a little way past them into the impossible.
- **Third Law:** Any sufficiently advanced technology is indistinguishable from magic.

Technologies of the “past”

- 30 years ago
Personal computers
- 20 years ago
Cell phones
- 10 years ago
Google
- What will happen in 10 years? In 20 years? In 30 years?
Immortal (ageless) cells!

Aging as a **disease**? And **curable**?





My Bridge 4 Life™

NewOrgan Prize

Mprize

- Overview
- History of Science Prizes
- Current Competitions
- Meet the Competitors
- Latest Mprize Winners
- How to Compete
- Scientific Advisory Board

Investing in the Future



The Mprize, introduced in 2003, is designed to directly accelerate the development of revolutionary new life extension therapies. The prize pot continues to grow through donations; awards are made whenever a research team extends the life of mice. There are two categories of cash prizes:

- **Longevity** - to the research team that breaks the world record for the oldest-ever mouse
- **Rejuvenation** - to the team that develops the most successful late-onset rejuvenation that extends the life of the mice

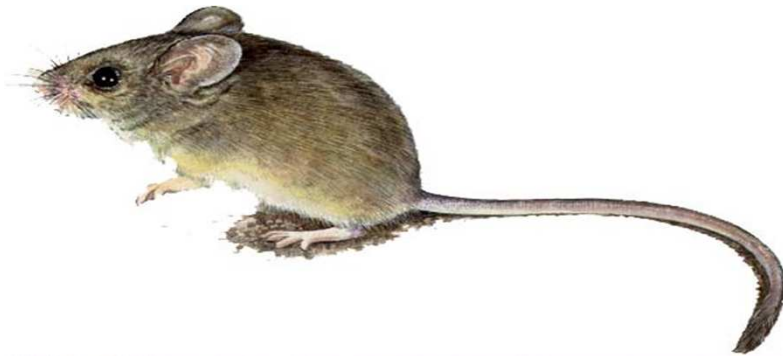
The prize makes it possible to attract scientists from major universities like [Andrzej Bartke](#), Southern Illinois University, who headed the team that holds the world record for longevity and [Dr. Stephen Spindler](#), University of California, the prize holder for rejuvenation. In 2009 the first Special Mprize Achievement Award went to [Dr. Z. David Sharp](#) for the successful healthy life extension of already aged mice using a pharmaceutical rapamycin.

[Meet the Competitors](#)

[Competition Rules and Application](#)

[Scientific Advisory Board](#): Meet the preeminent scientists who share our vision and enhance our ability to change the future of aging.

Life extension results: **today, now!**



x 3 times

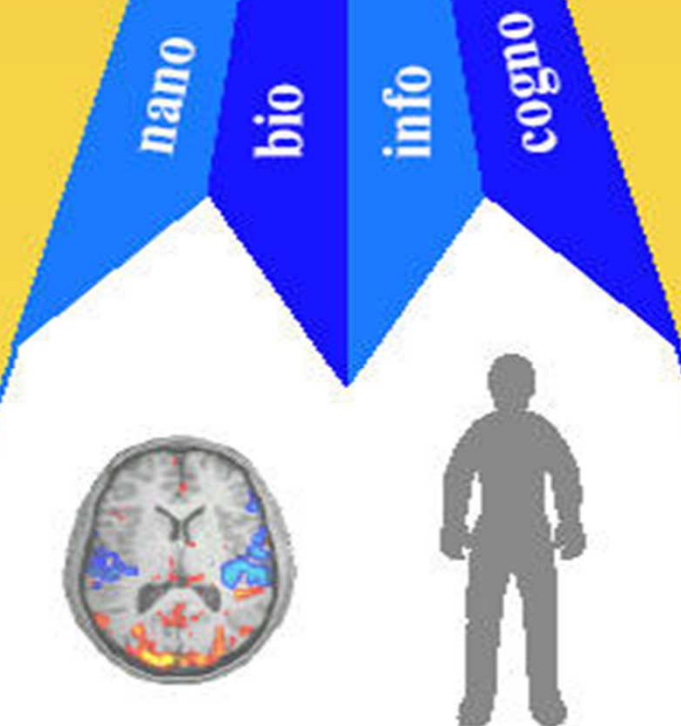


x 4 times

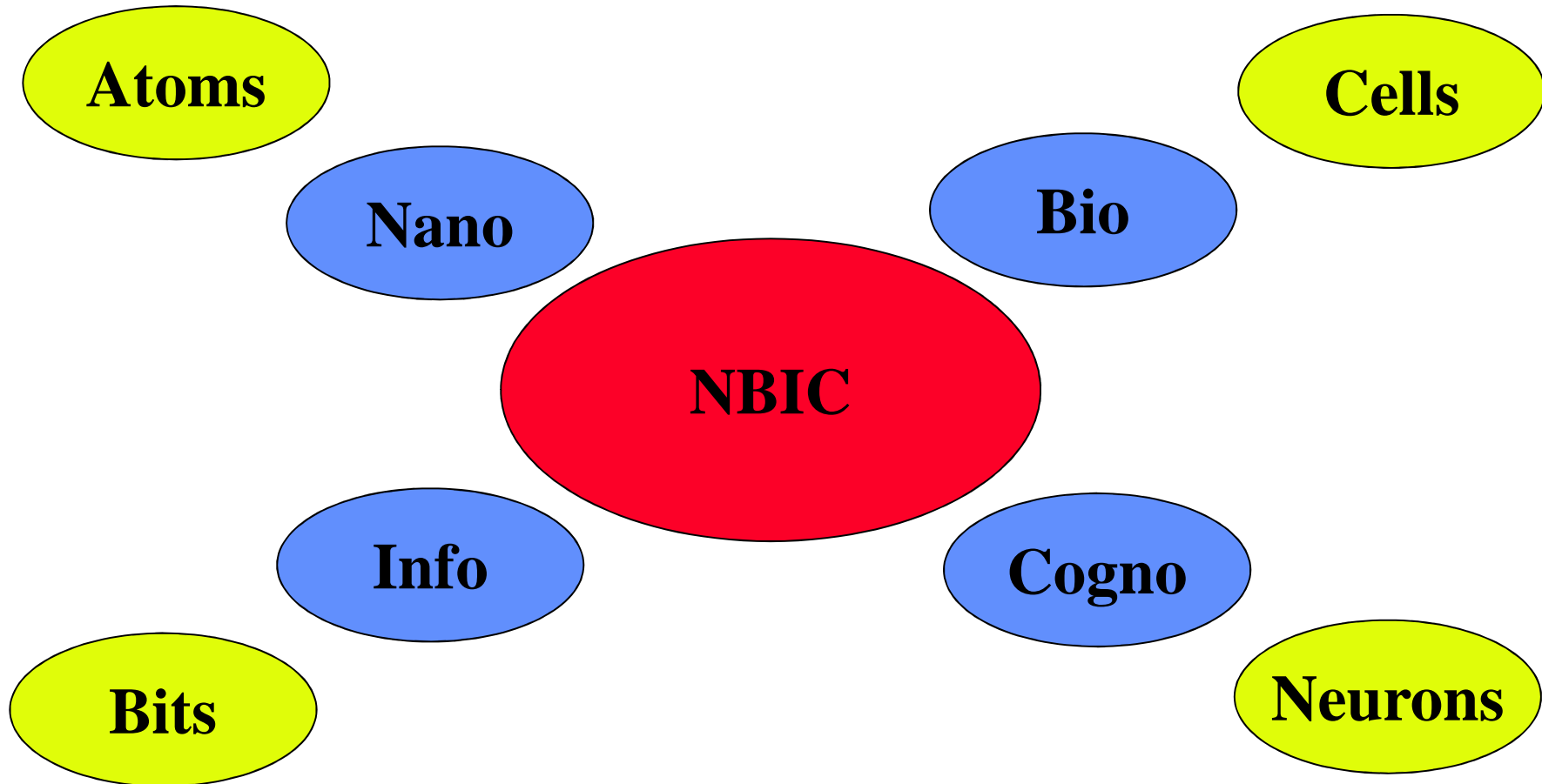


x 6 times

NBIC (Nano-Bio-Info-Cogno)
National Science Foundation
Department of Commerce

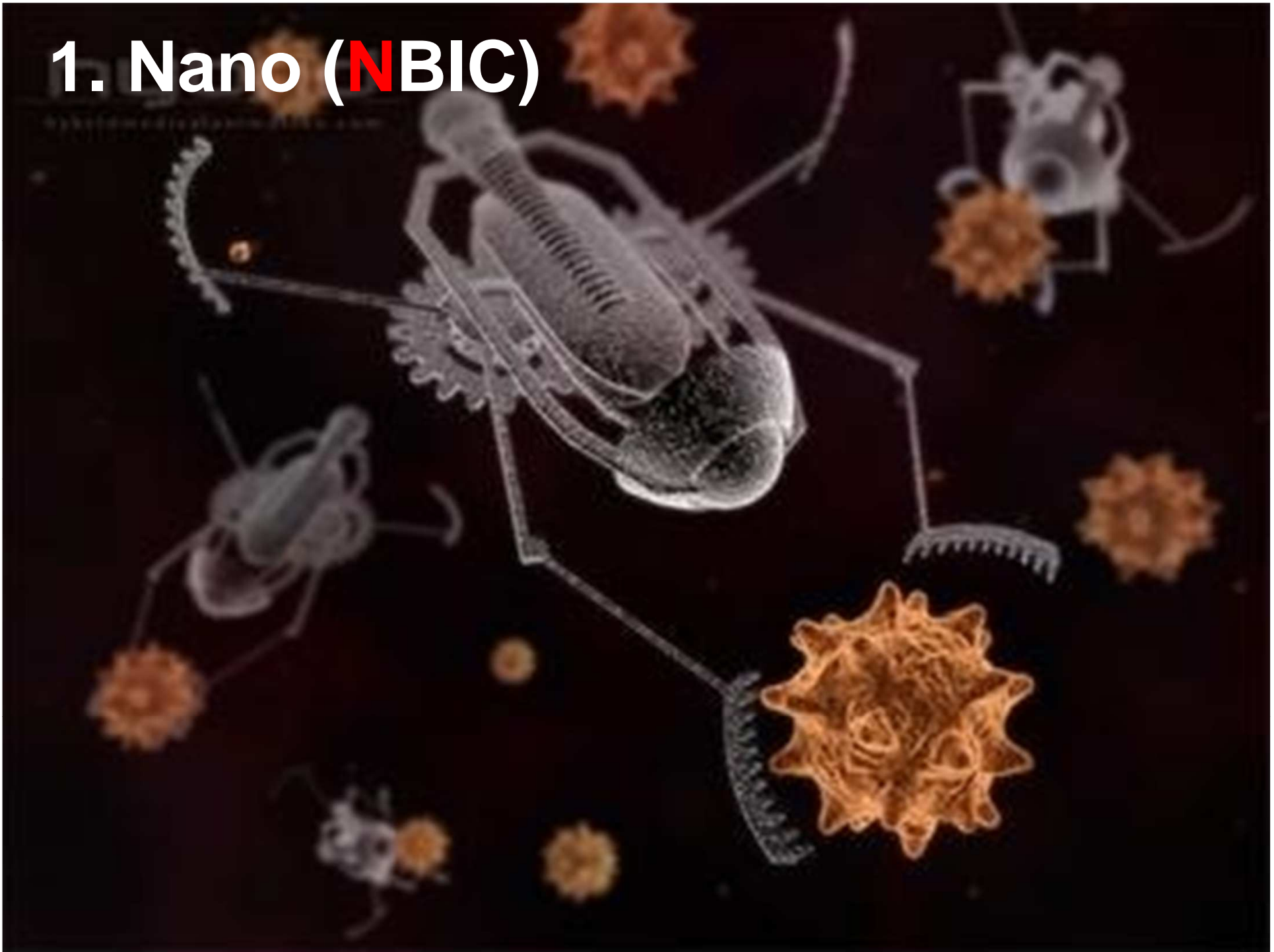


Technological Convergence **NBIC**

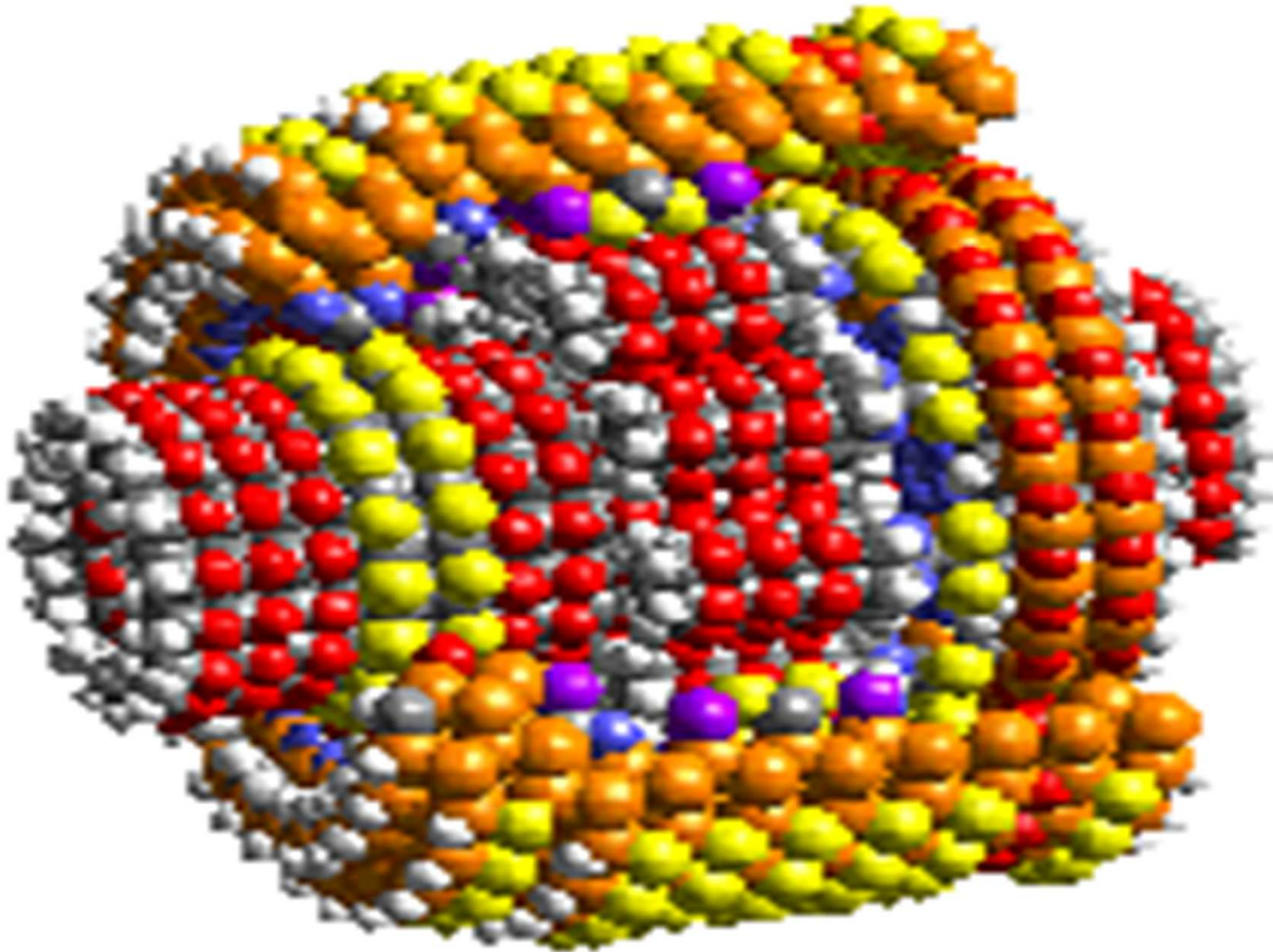




1. Nano (NBIC)

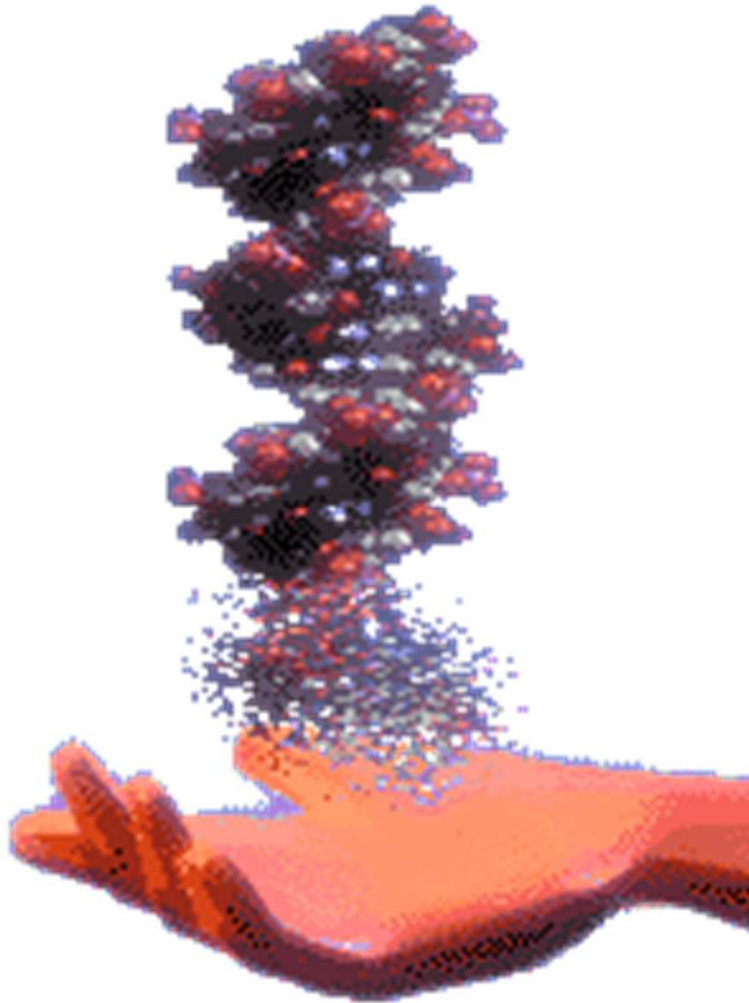


Nanotechnology: www.nano.gov





2. Bio (NBIC)



The **glo**-fish: transgenic fish (Taiwan)



Dolly: the **clone**





**The attack of
the clones?**



Synthetic biology is born

- **Variola virus (smallpox)**

Genes: 197

Base pairs: 185,000

- **Mycoplasma genitalium (bacteria)**

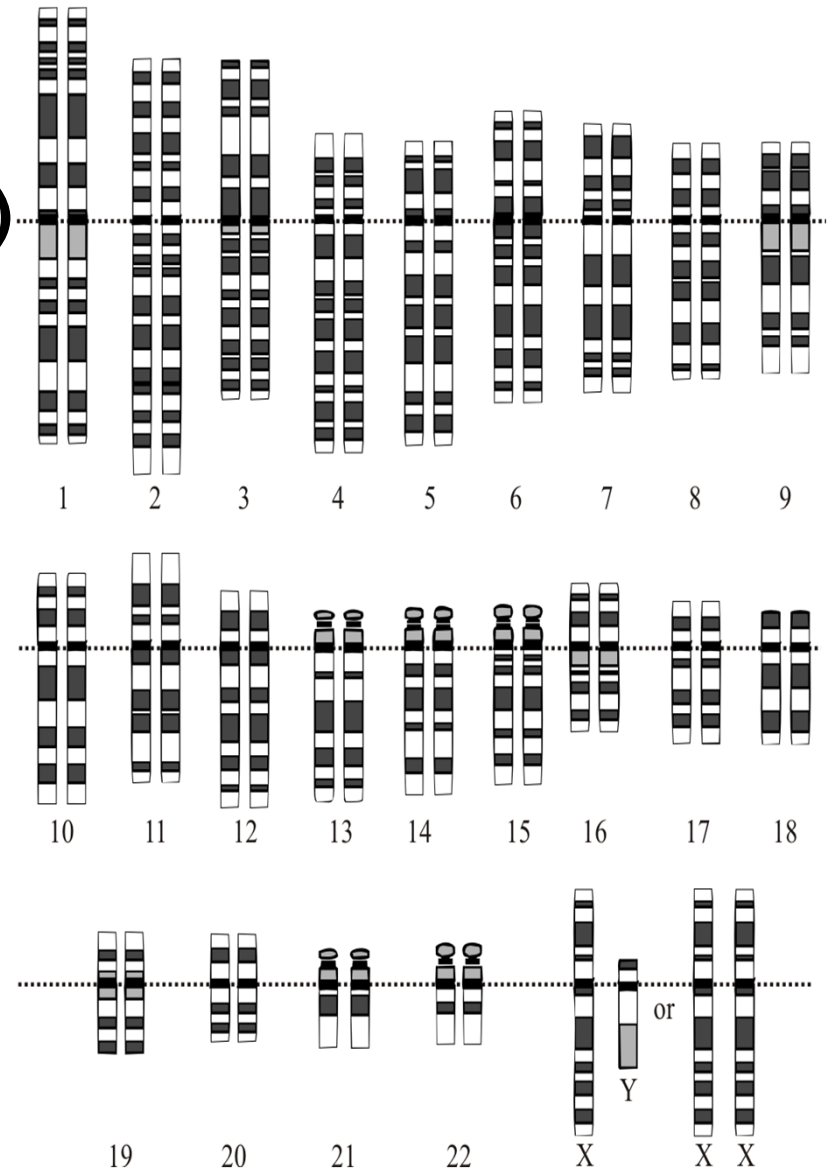
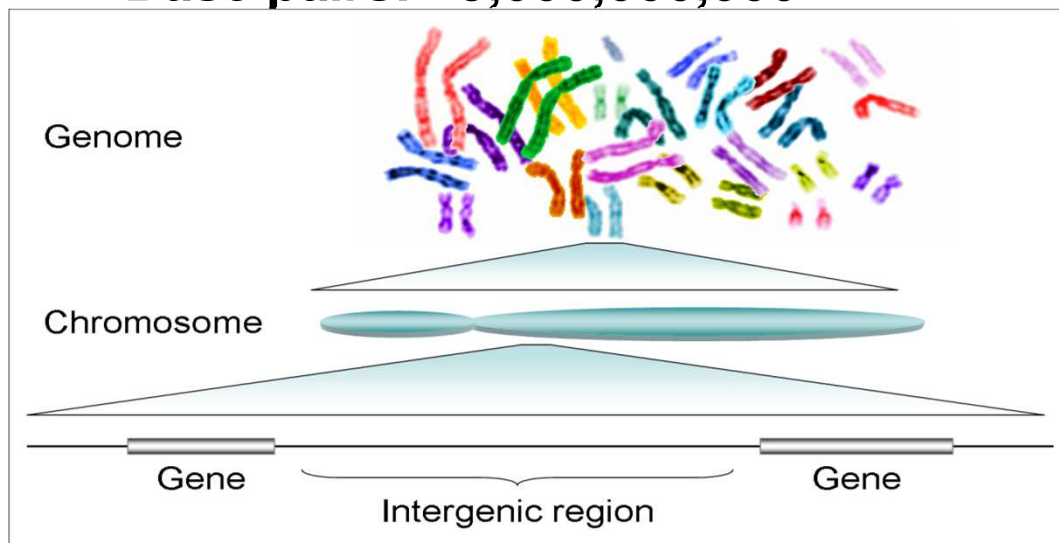
Genes: 485

Base pairs: 580,000

- **Homo sapiens sapiens**

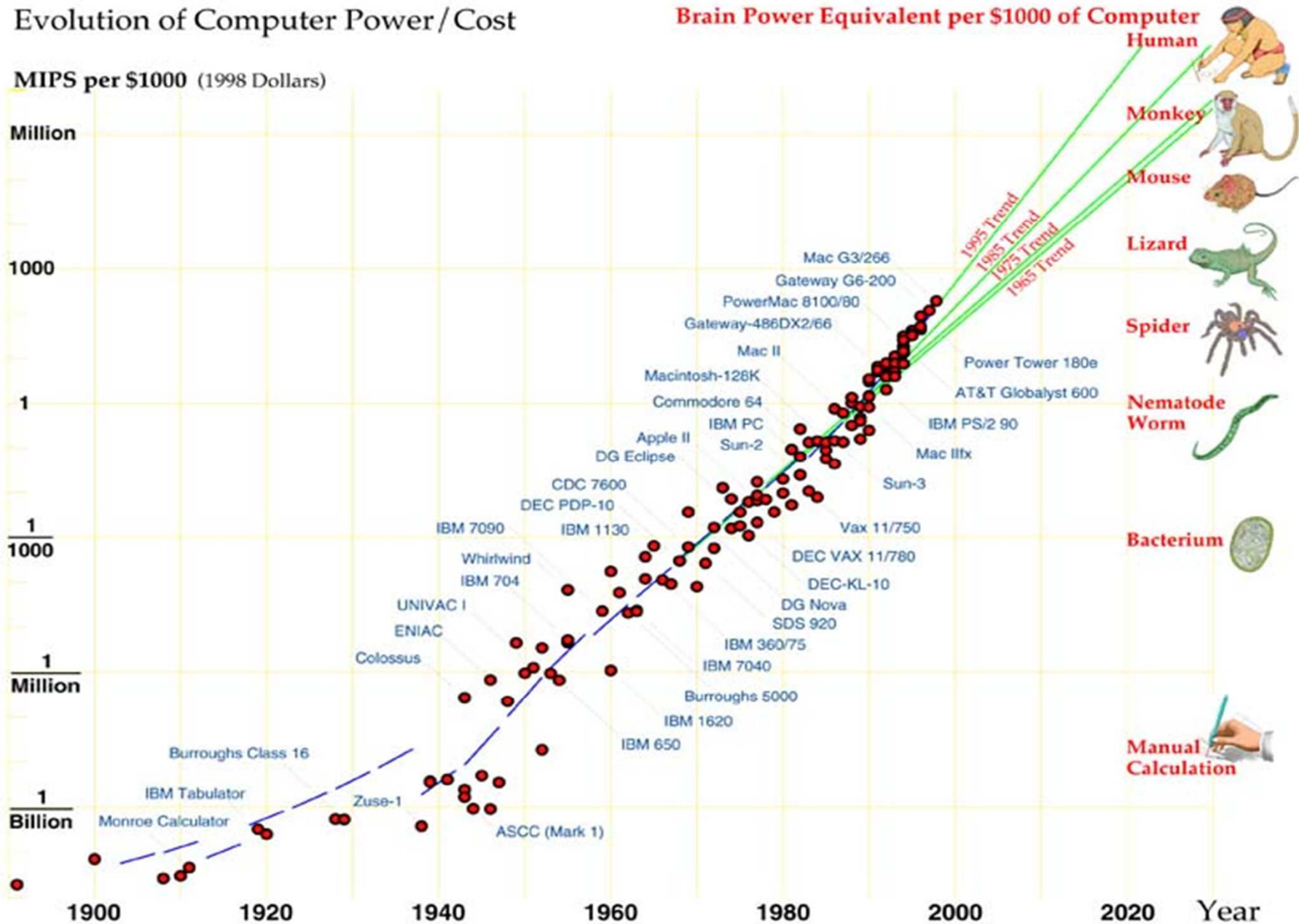
Genes: ~25,000

Base pairs: ~3,000,000,000



3. Info (NBIC)

Evolution of Computer Power/Cost



MIT Media Lab: \$100 laptop





1G
1981



2G
1992



3G
2001



4G
2011



5G
2020

More
Bandwidth...



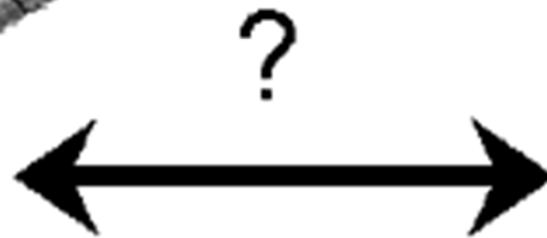
Global brain?



Human Brain



Global Network



IBM's **Watson** won in Jeopardy! February 14-16, 2011



May 11th, 1997

Computer won world champion of chess

(Deep Blue)

(Garry Kasparov)



Fritz (Computer)

Number of games in database: 231

Years covered: 1991 to 2006

Overall record: +67 -73 =49 (48.4%)*

* Overall winning percentage = (wins+draws/2) / total games

Based on games in the database; may be incomplete.

42 exhibition games, odds games, etc. are excluded from this statistic.

MOST PLAYED OPENINGS

With the White pieces:

Sicilian (14)

B80 B30 B64 B22 B90

Caro-Kann (12)

B10 B14 B18 B12 B17

Queen's Pawn Game (10)

A40 A45 D02

King's Indian (10)

E76 E62 E97 E81 E82

French Defense (9)

C01 C03 C05 C07 C16

Ruy Lopez (6)

C67 C92 C70 C65

With the Black pieces:

Sicilian (18)

B90 B21 B33 B20 B81

Uncommon Opening (12)

A00 B00

Queen's Pawn Game (10)

D00 A45 D05 A46

Bird's Opening (9)

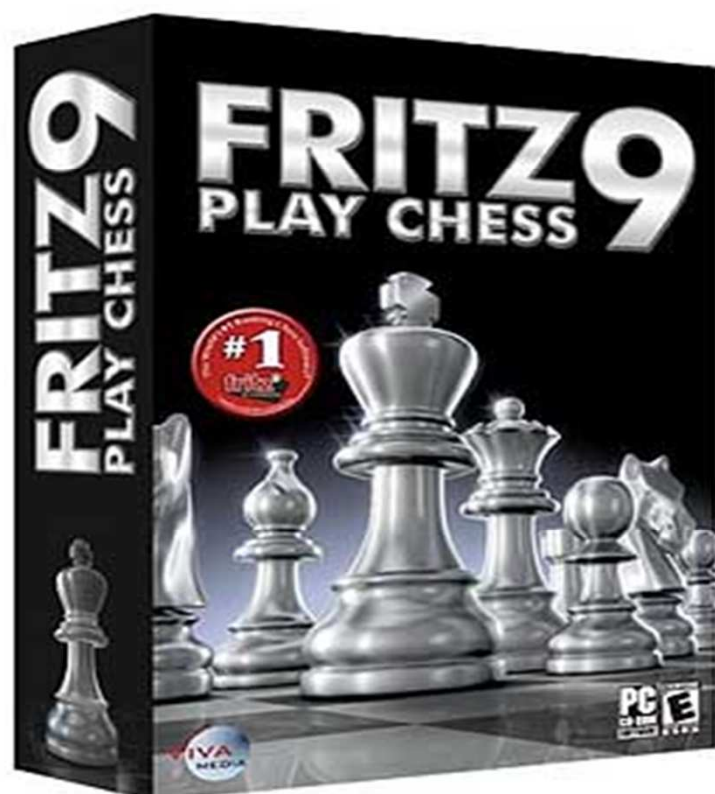
A02 A03

King's Indian Attack (8)

A07 A08

Queen's Indian (6)

E12 E19



REPertoire Explorer



With the
White Pieces



With the
Black Pieces

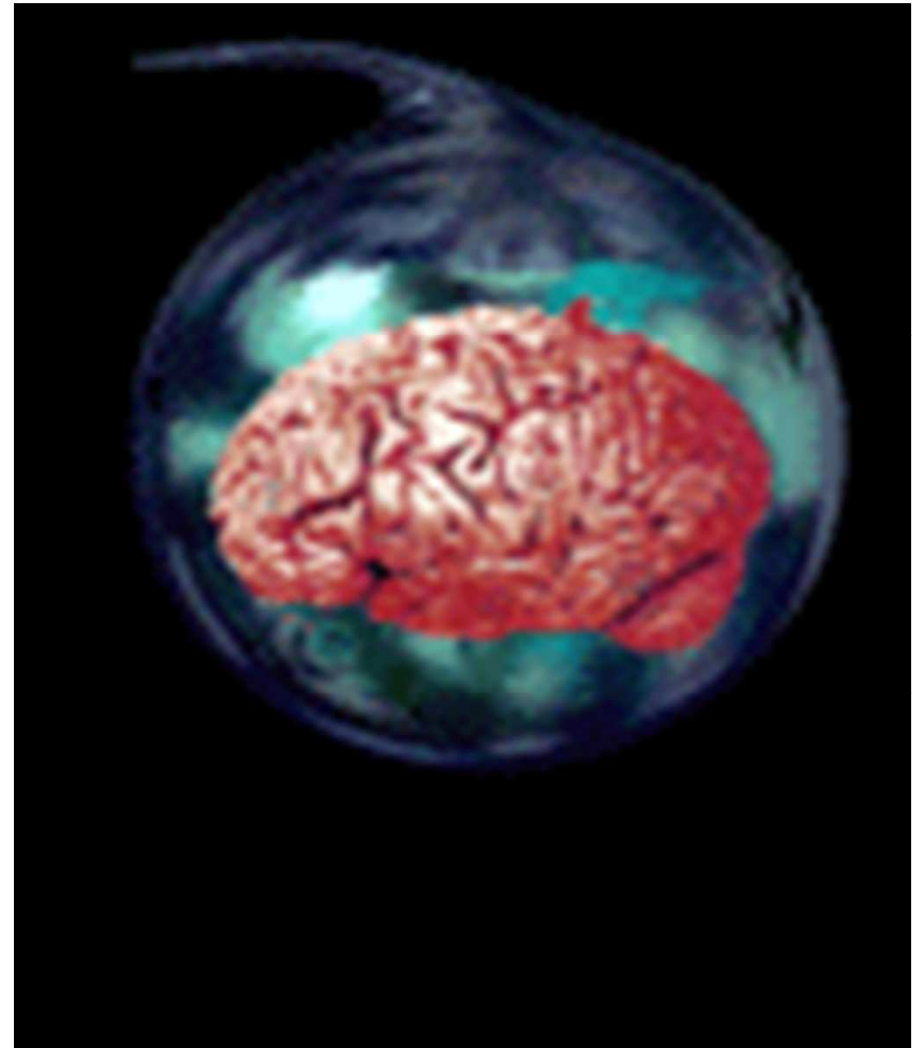
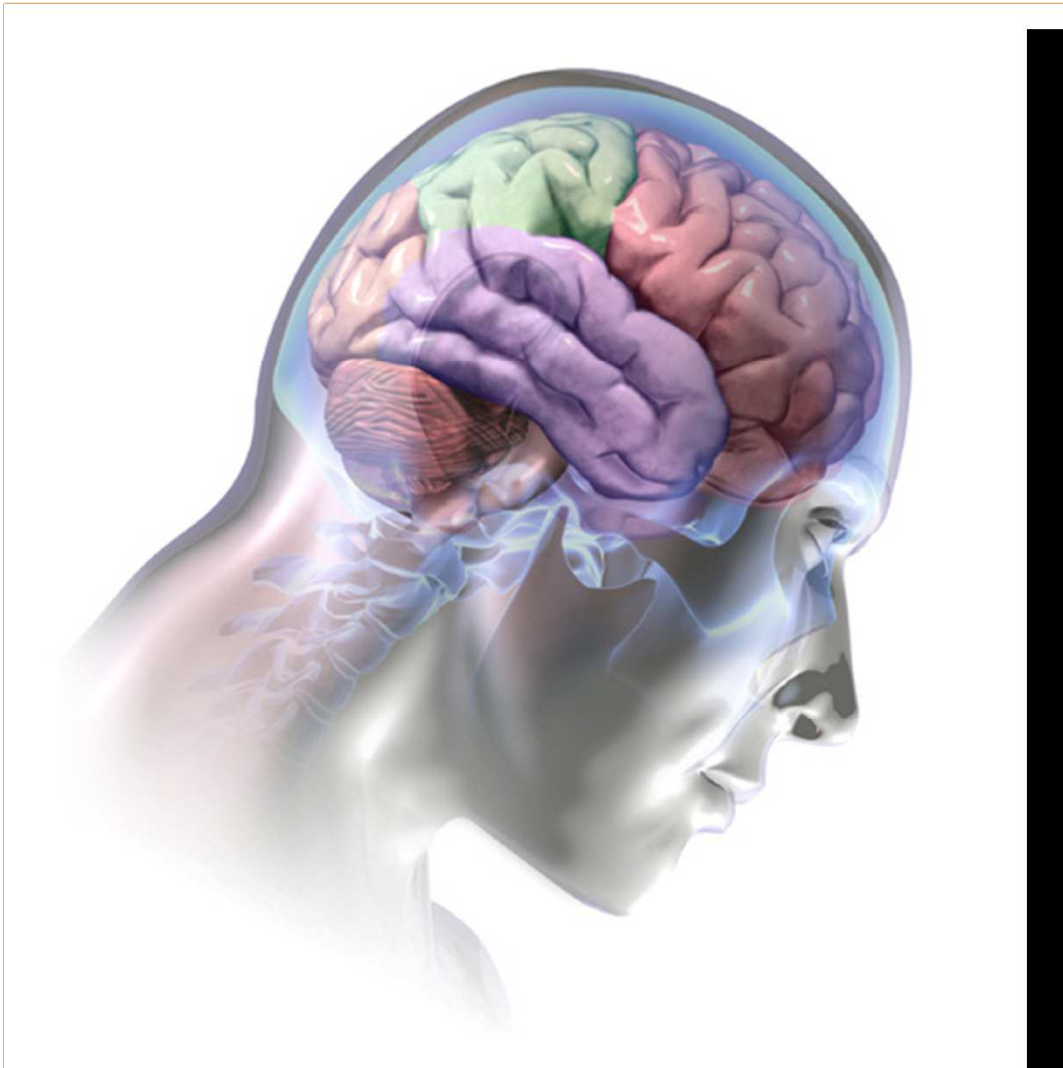


NOTABLE GAMES: [\[what is this?\]](#)

[Anand vs Fritz, 2000 0-1](#)

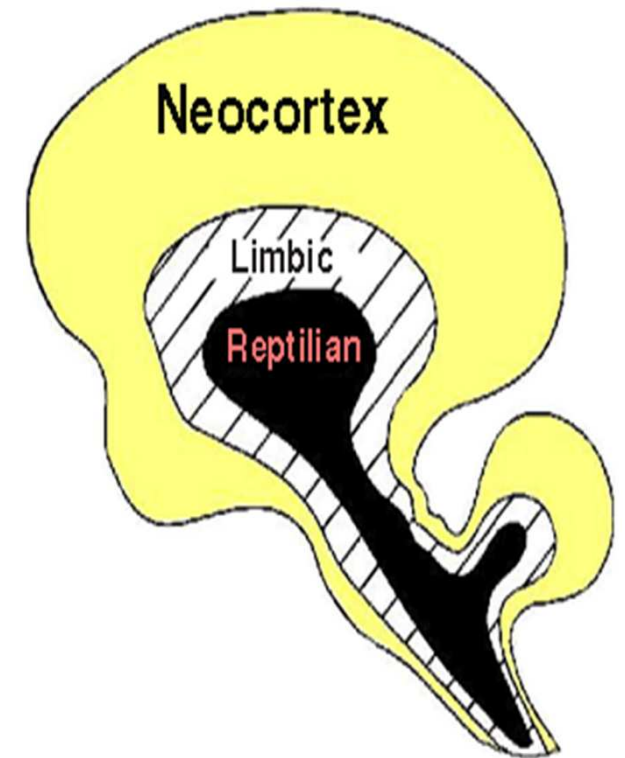
[Fritz vs Kasparov, 1992 1/2-1/2](#)

4. Cogno (NBIC)



The **triune brain**: Paul MacLean, 1973

- **Reptilian (primitive):**
instincts
- **Limbic (paleomammalian):**
emotions
- **Neocortex**
(neomammalian):
intelligence



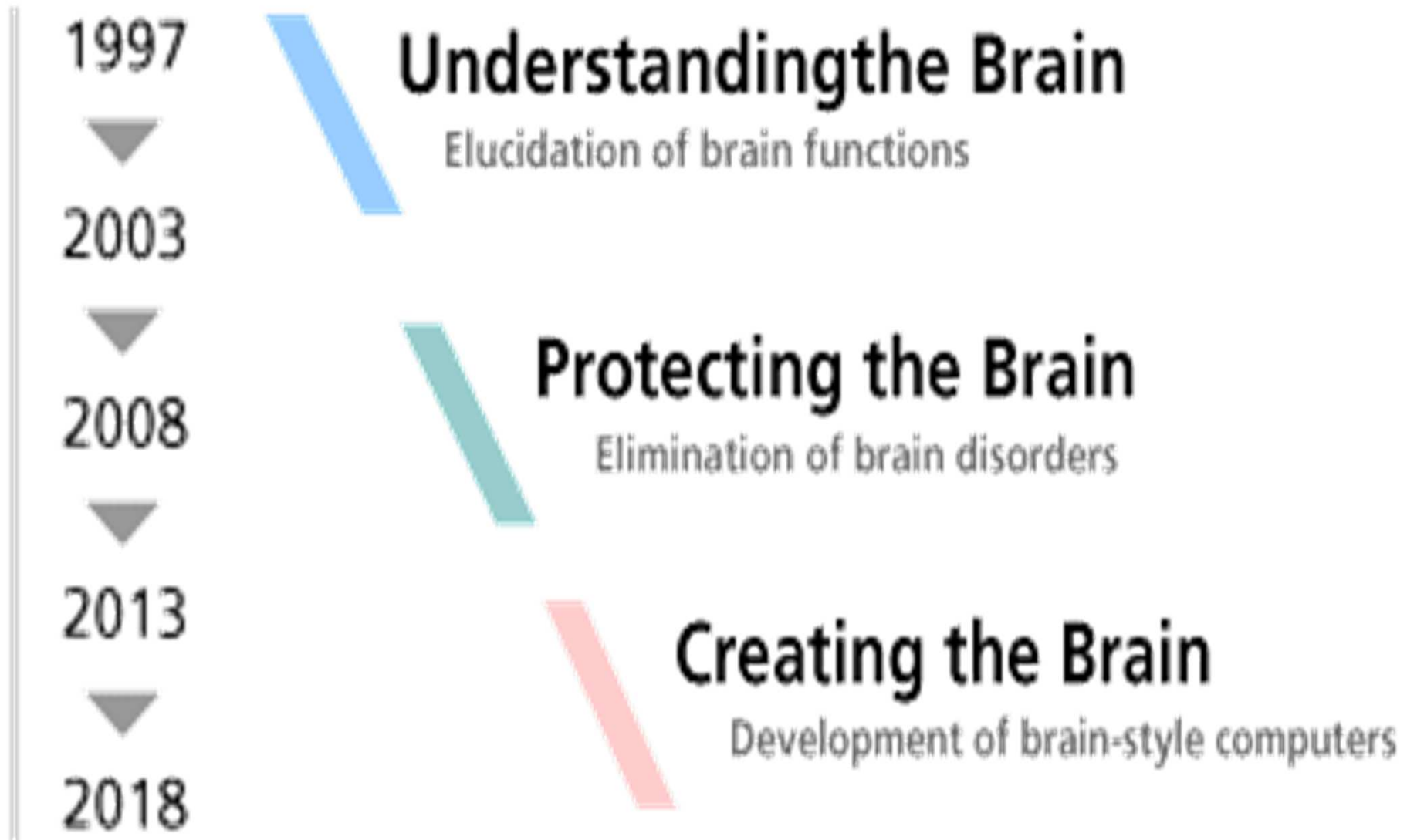
Riken Brain Institute

www.brain.riken.go.jp



Riken Brain Institute

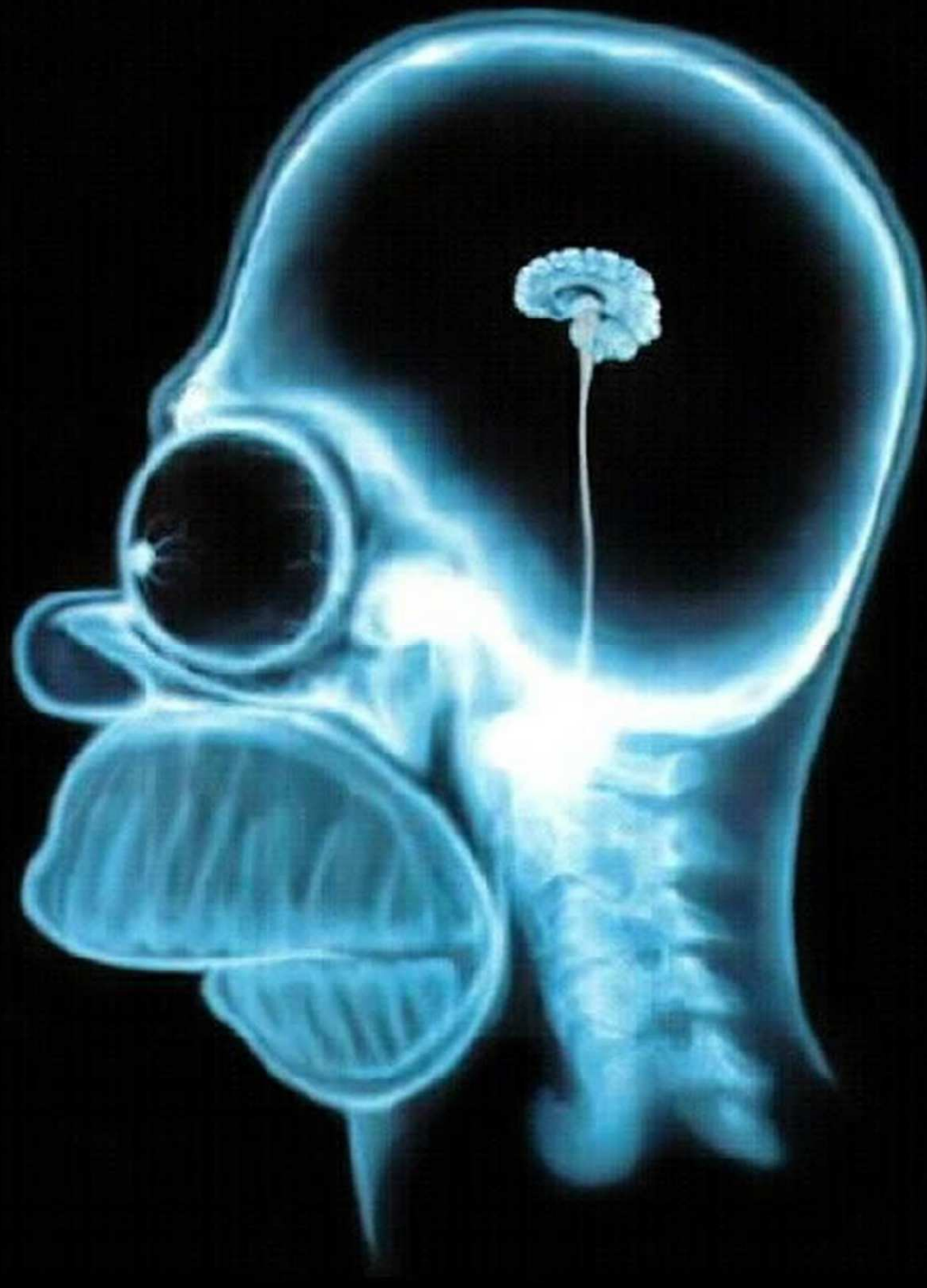
www.brain.riken.go.jp



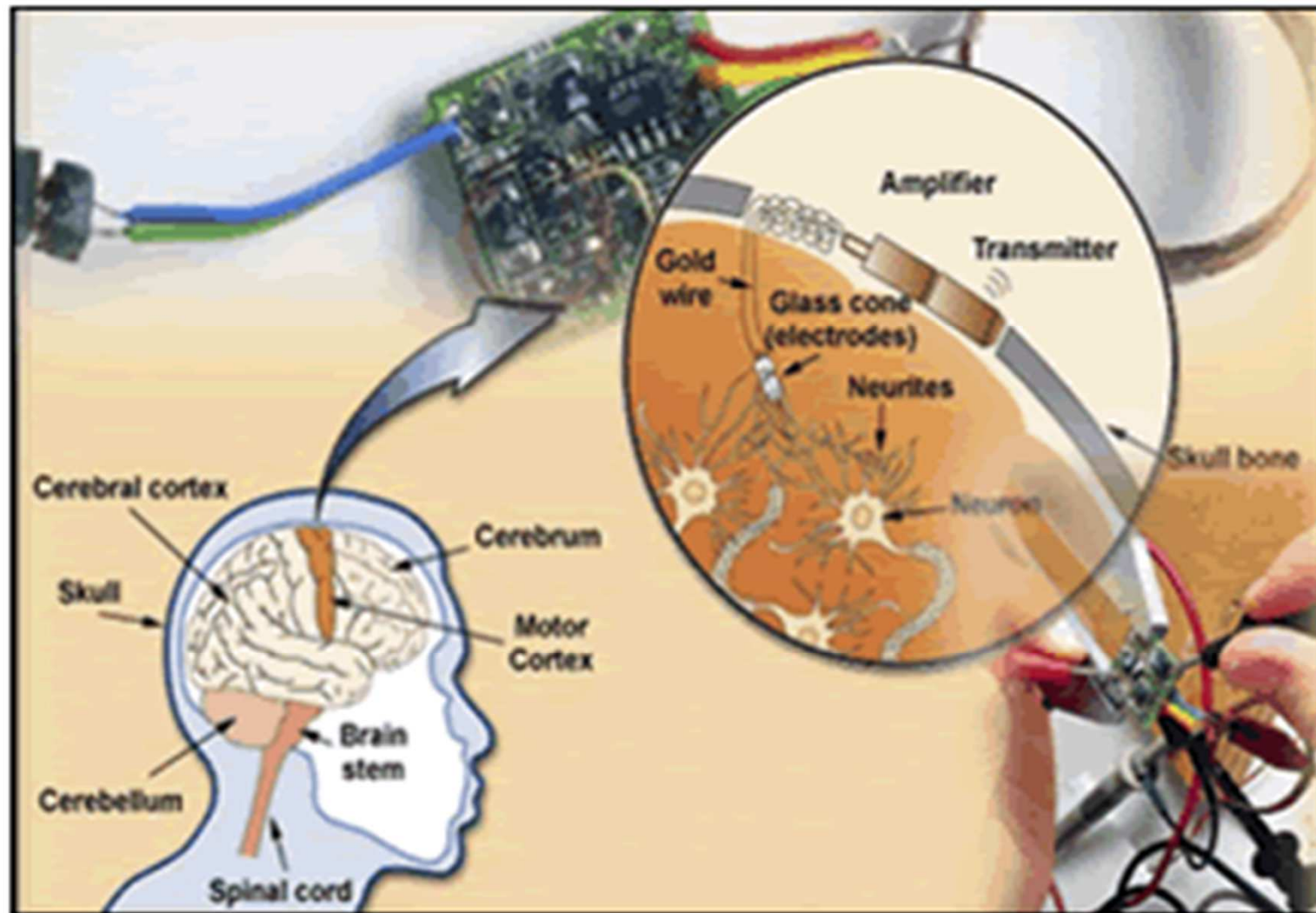
What is a **brain**?



- **1 brain**
- **10^{11} neurones**
- **10^{14} synapsis**
- **10^{17} computations
(per second)**
- **And the mind?**
- **And the spirit?**
- **And the soul?**



Internal brain implants: **Cyberkinetics Inc.**



images courtesy Georgia Tech

External brain implants



emotivo

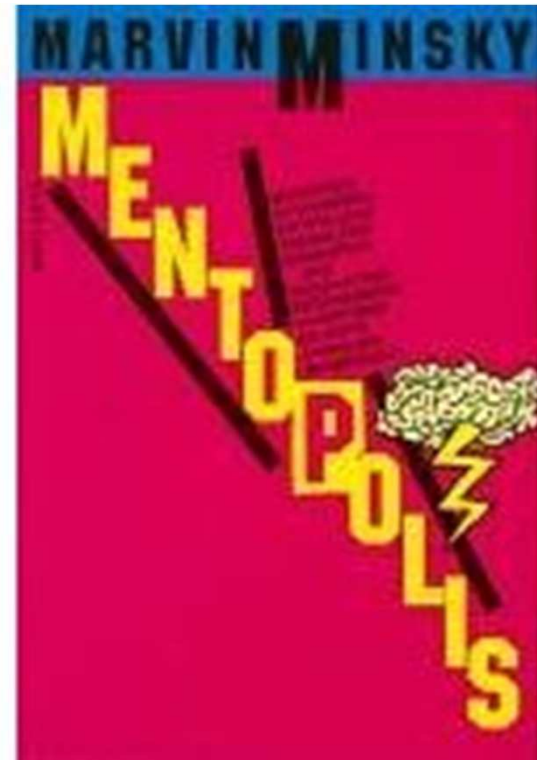
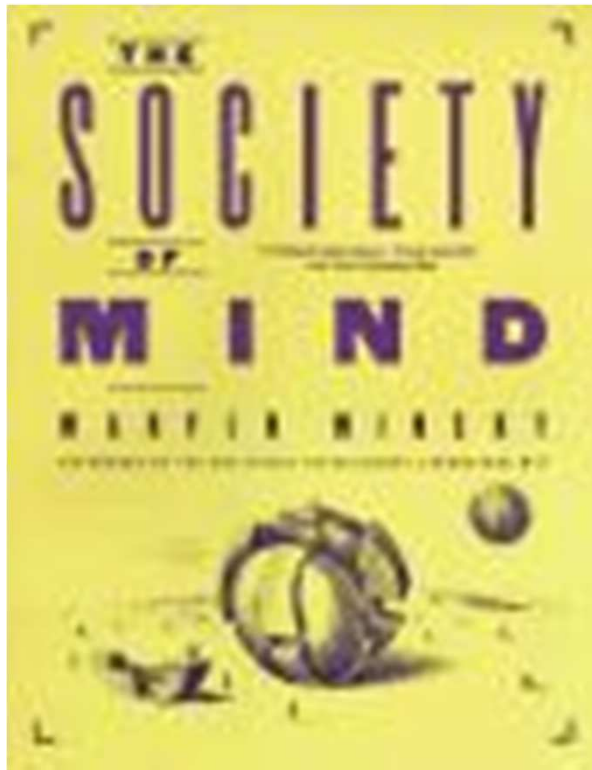
you think, therefore, you can



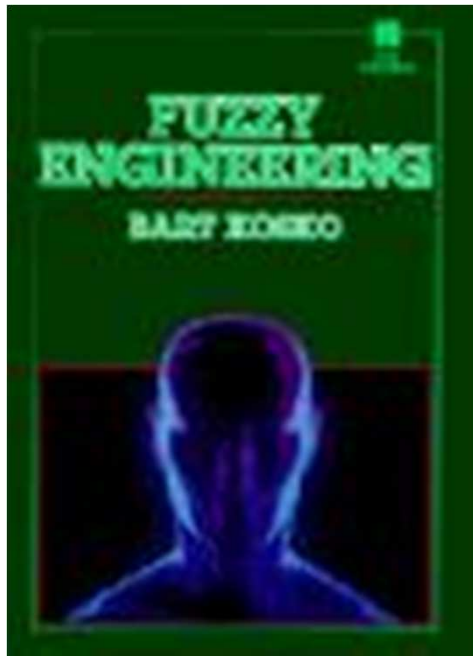
Robots in Japan and Korea



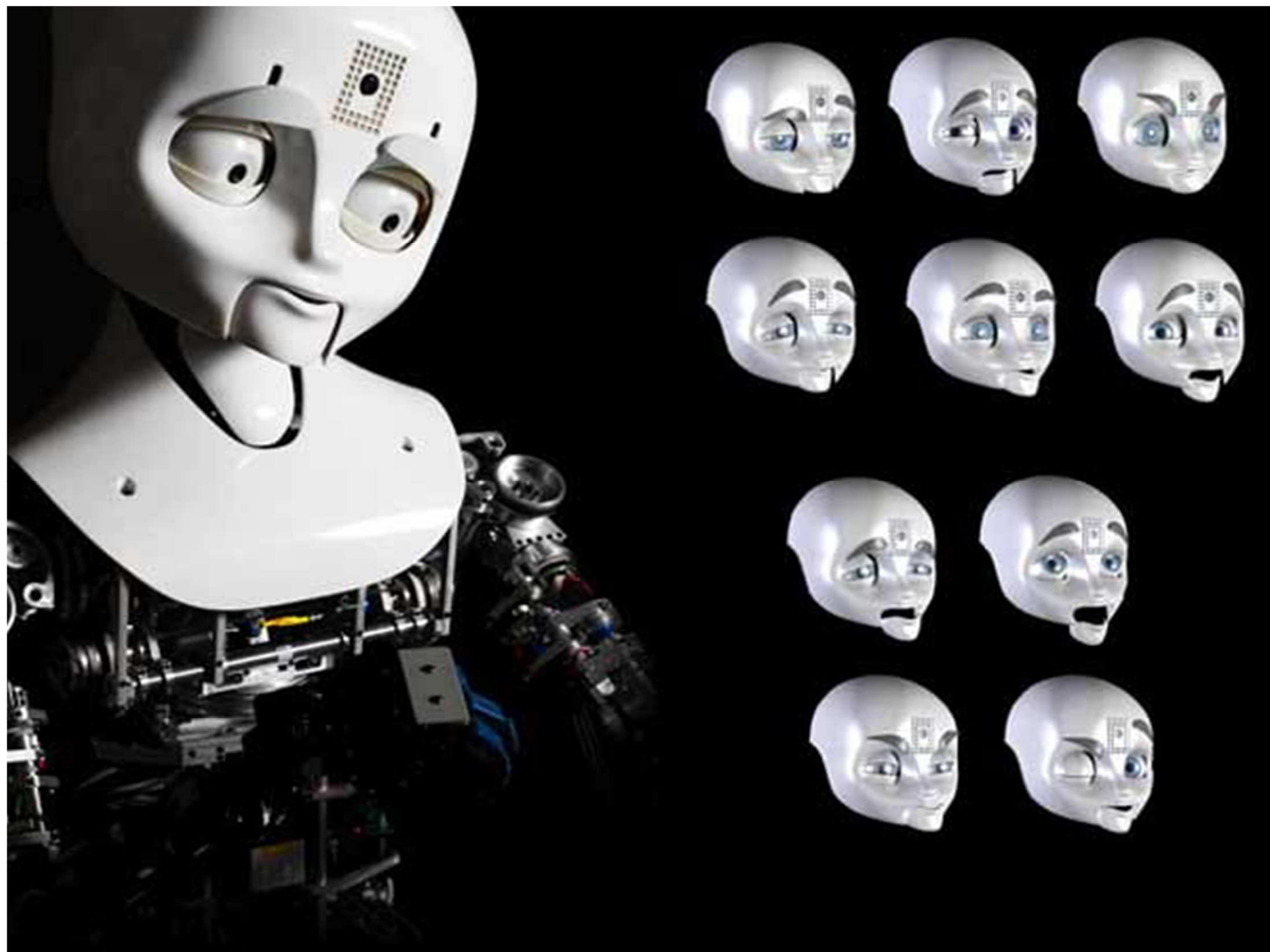
Marvin Minsky (MIT):
Will robots inherit the earth?
Yes, but they will be us!



Bart Kosko, USC: Biology is not destiny.
It was never more than tendency.
Biology was just nature's first quick and
dirty way to compute with meat.
Chips are destiny!

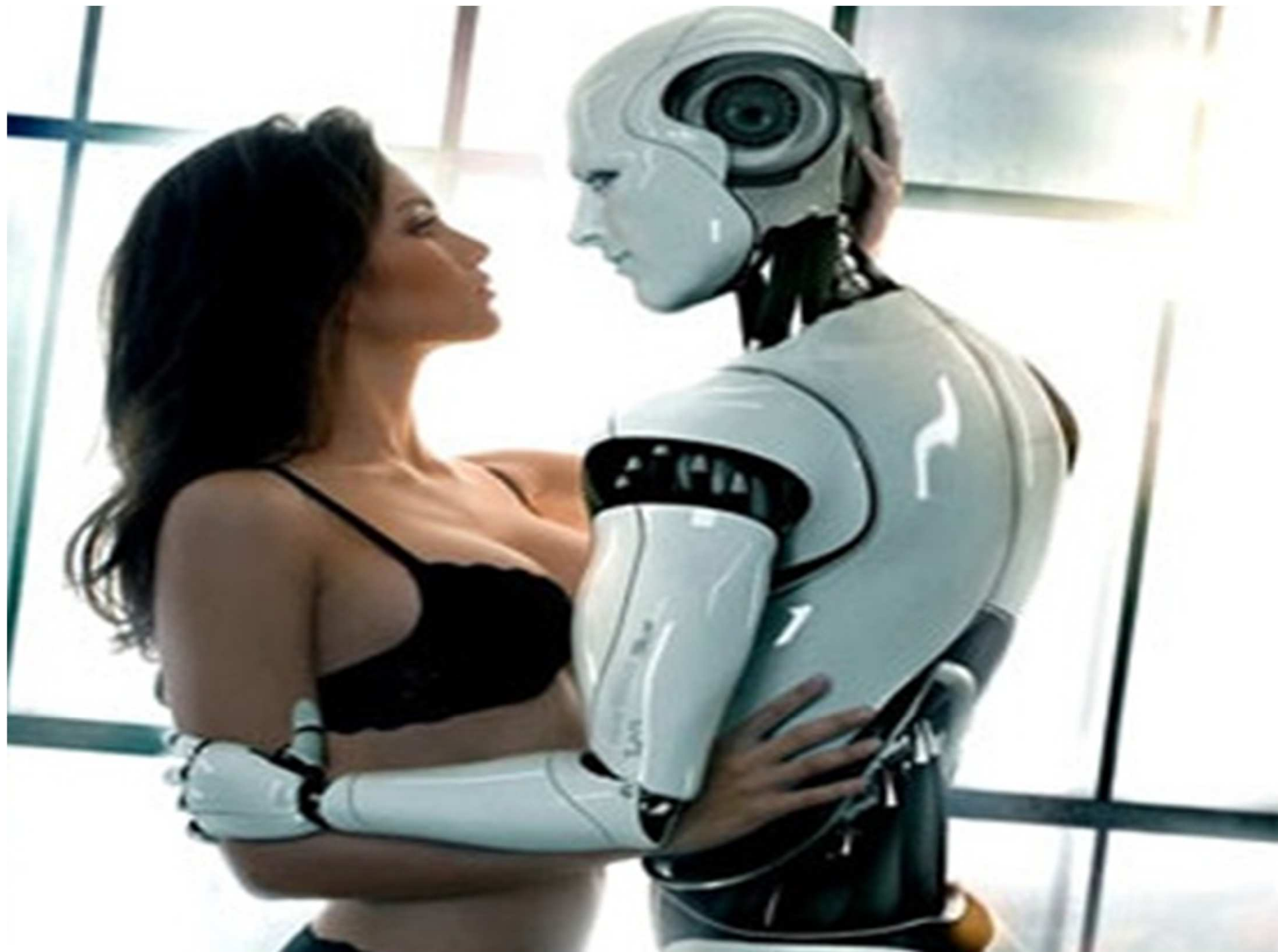


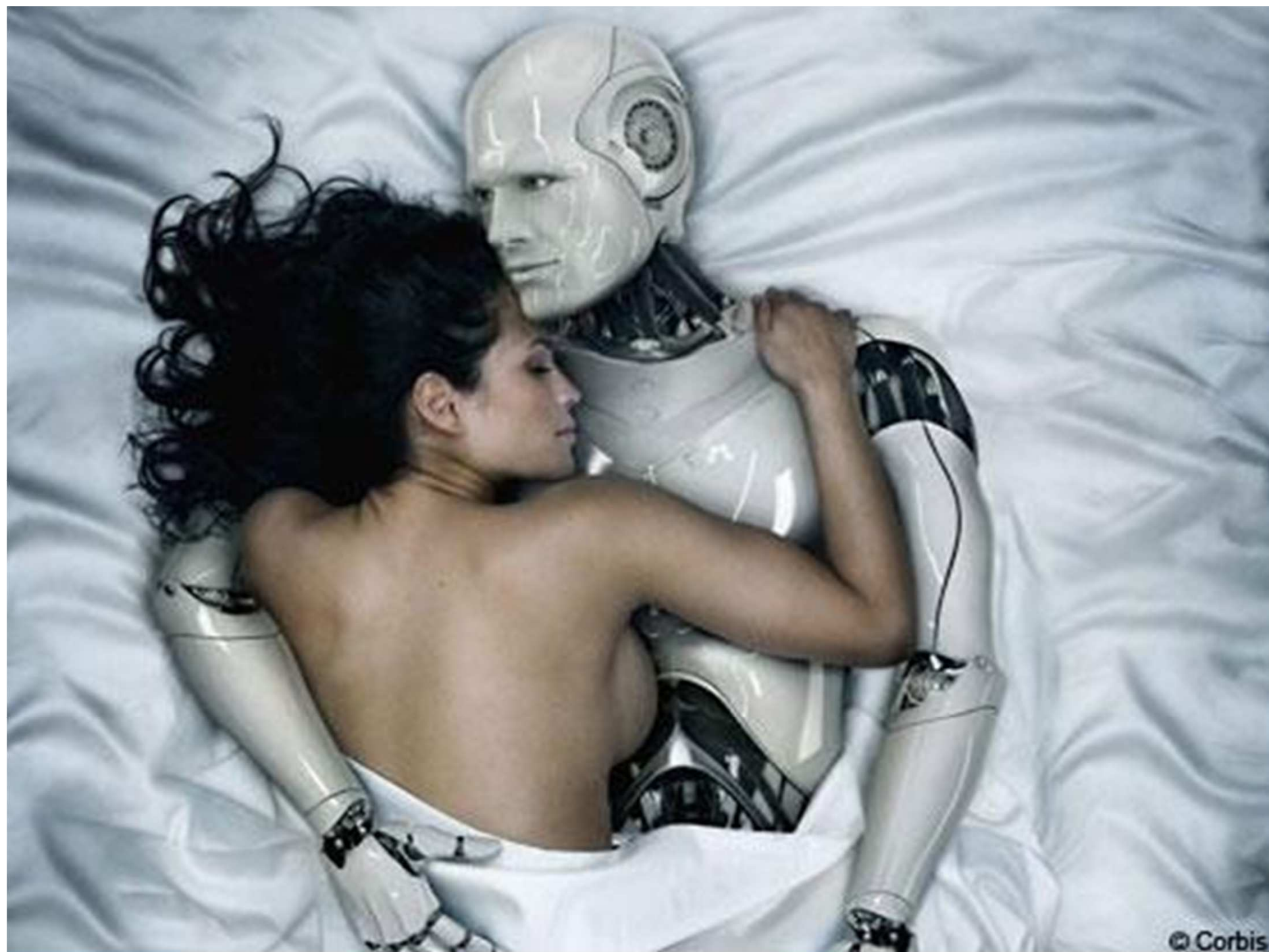


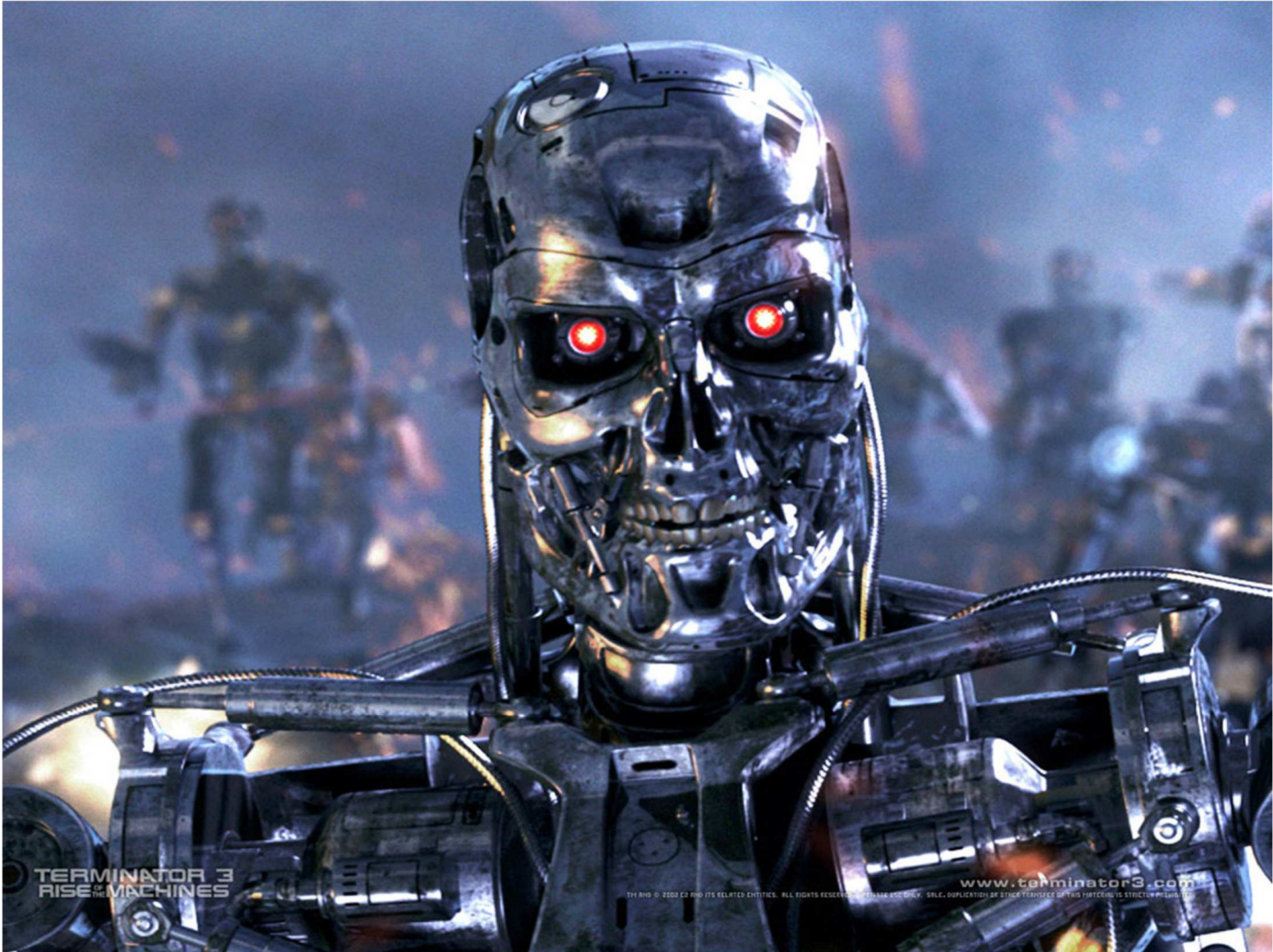




Valiant







TERMINATOR 3
RISE OF THE MACHINES

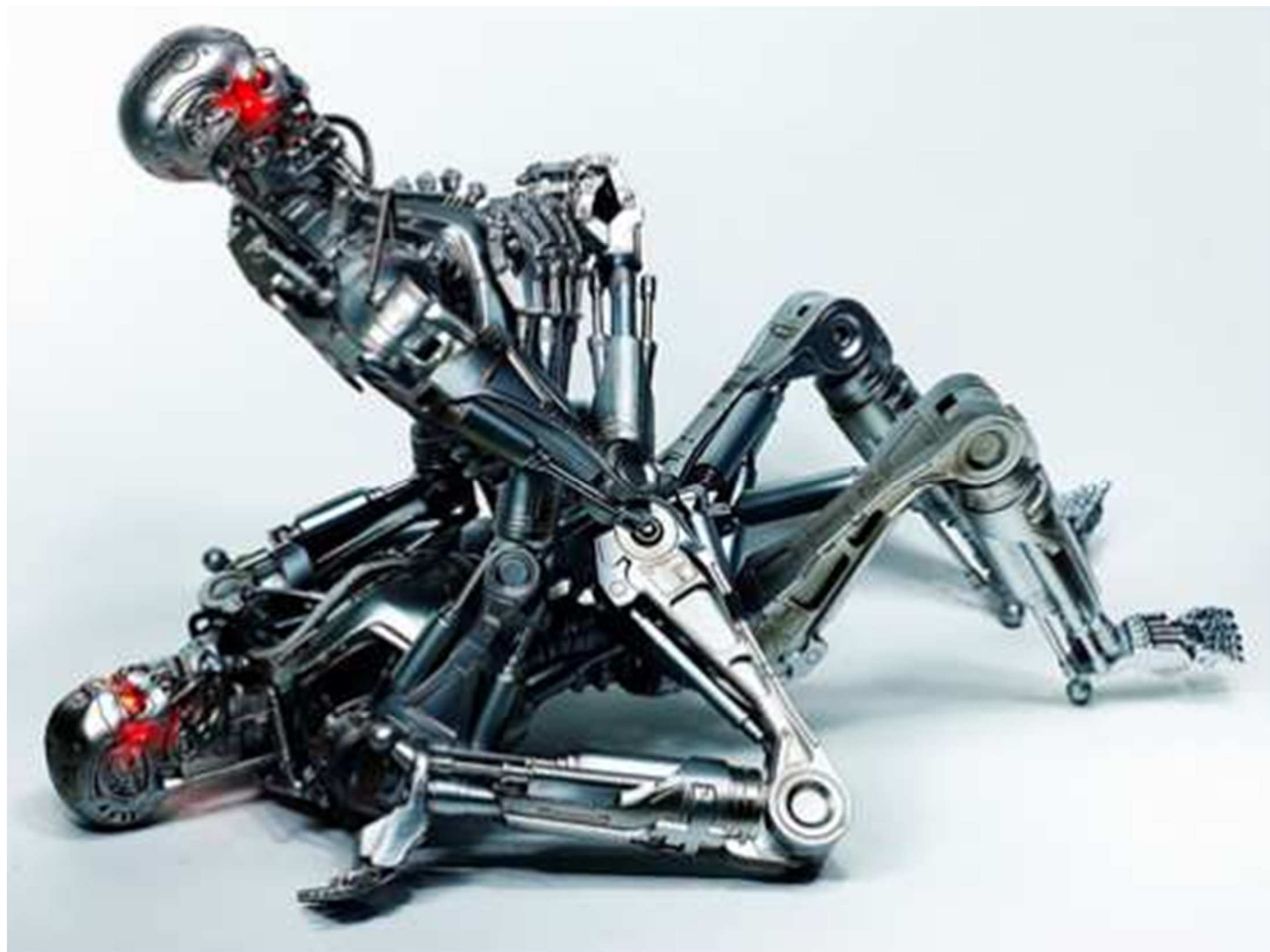
www.terminator3.com

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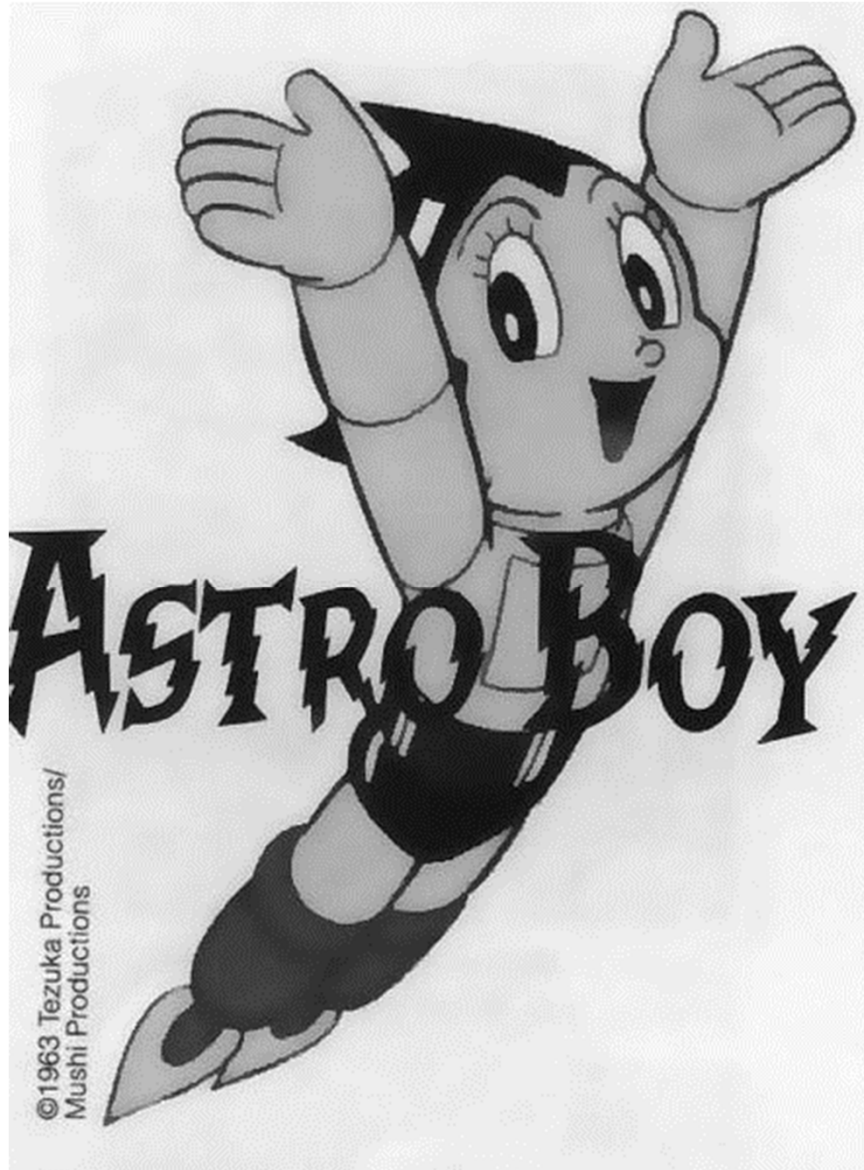


TERMINATOR 3
RISE OF THE MACHINES

THE WAR BEGINS JULY 2



Robots are **good** in Japan

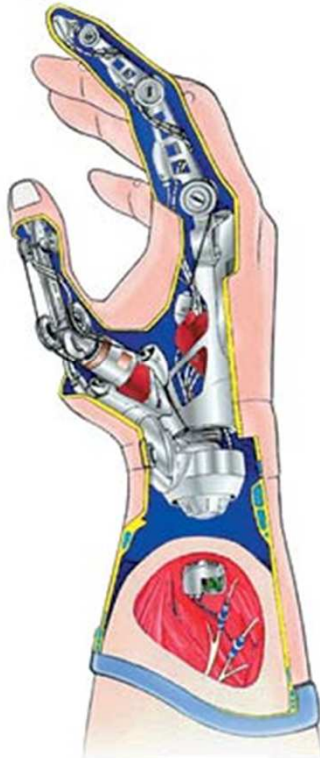
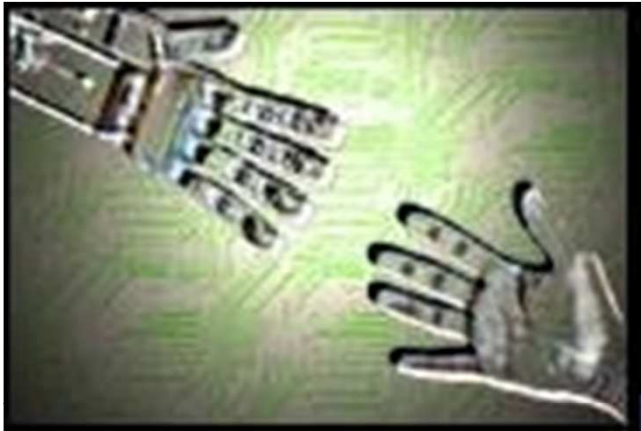


TOYOTA PARTNER ROBOT



Humans **or** machines!

Humans **AND** machines?



Oscar Pistorius: “**Blade runner**” in London 2012 Olympic Games



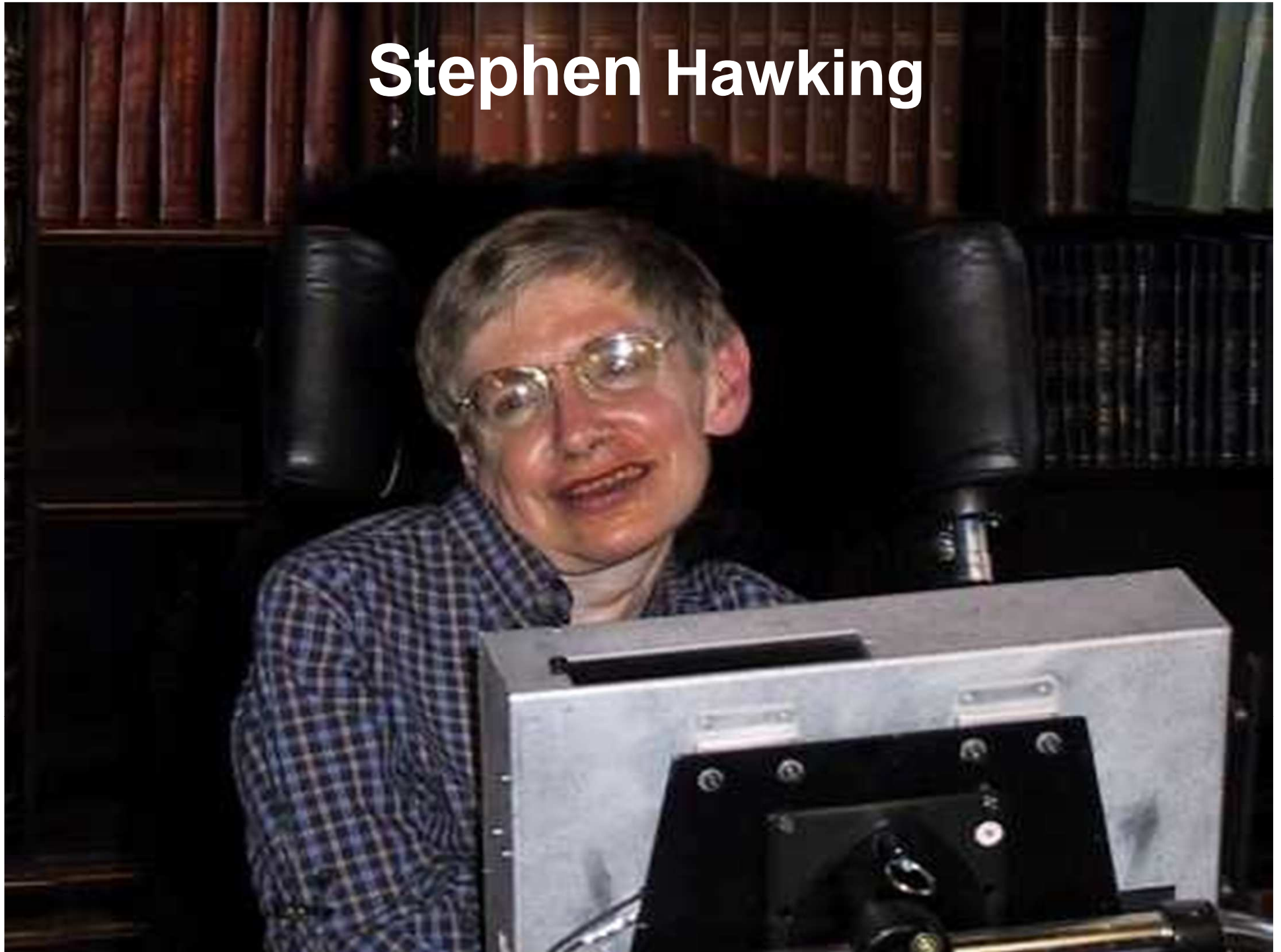


Superman?

**Christopher
Reeve
(paraplegic)**



Stephen Hawking



Michael J. Fox: **Back to the Future**



Ronald Reagan: Alzheimer's

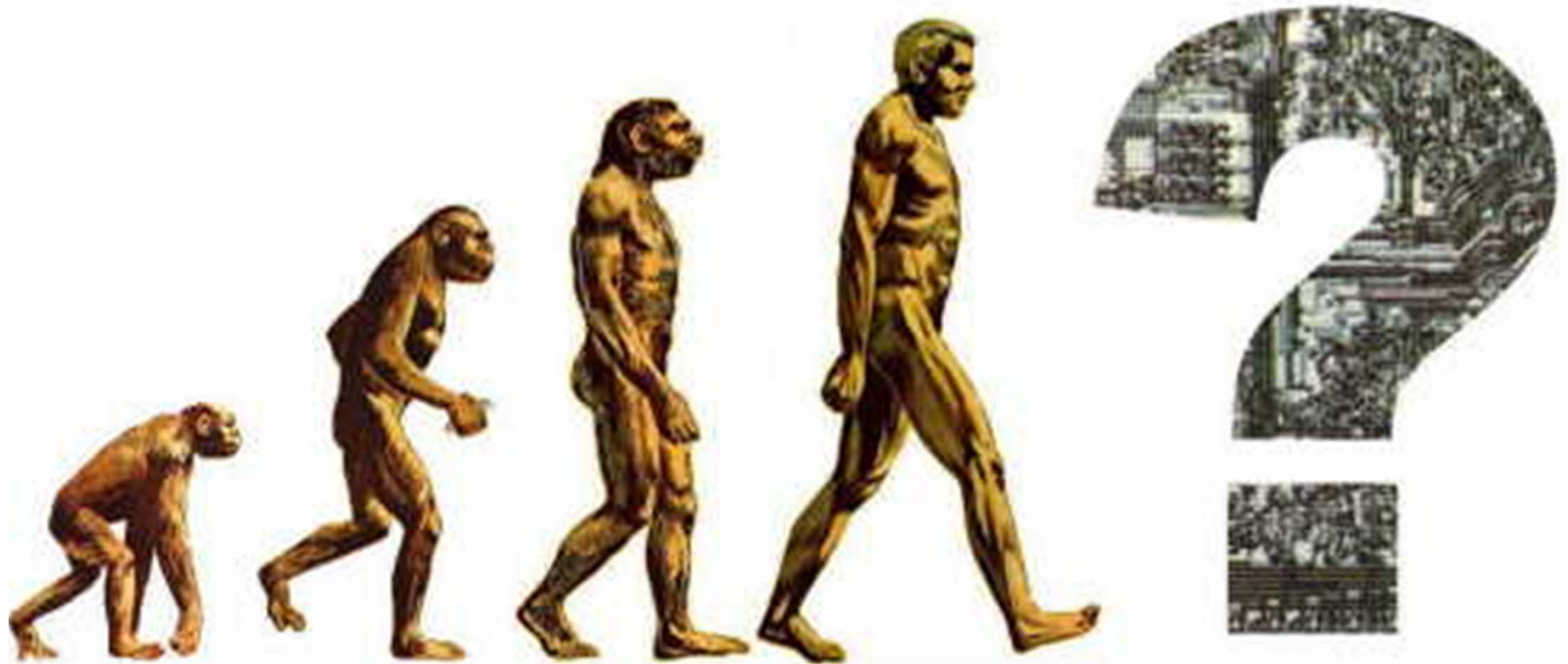


(CNN)



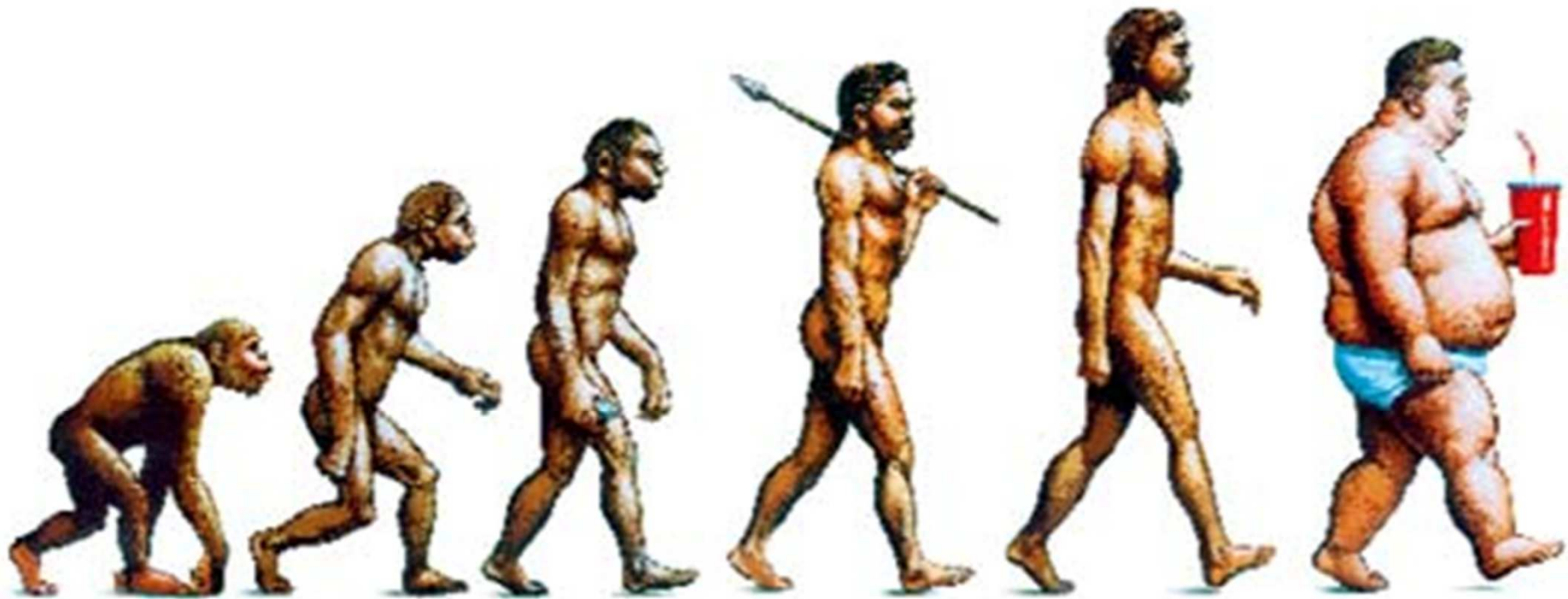
**Transhumanism is S&T for humans:
transcending human limitations**

www.TransHumanism.org



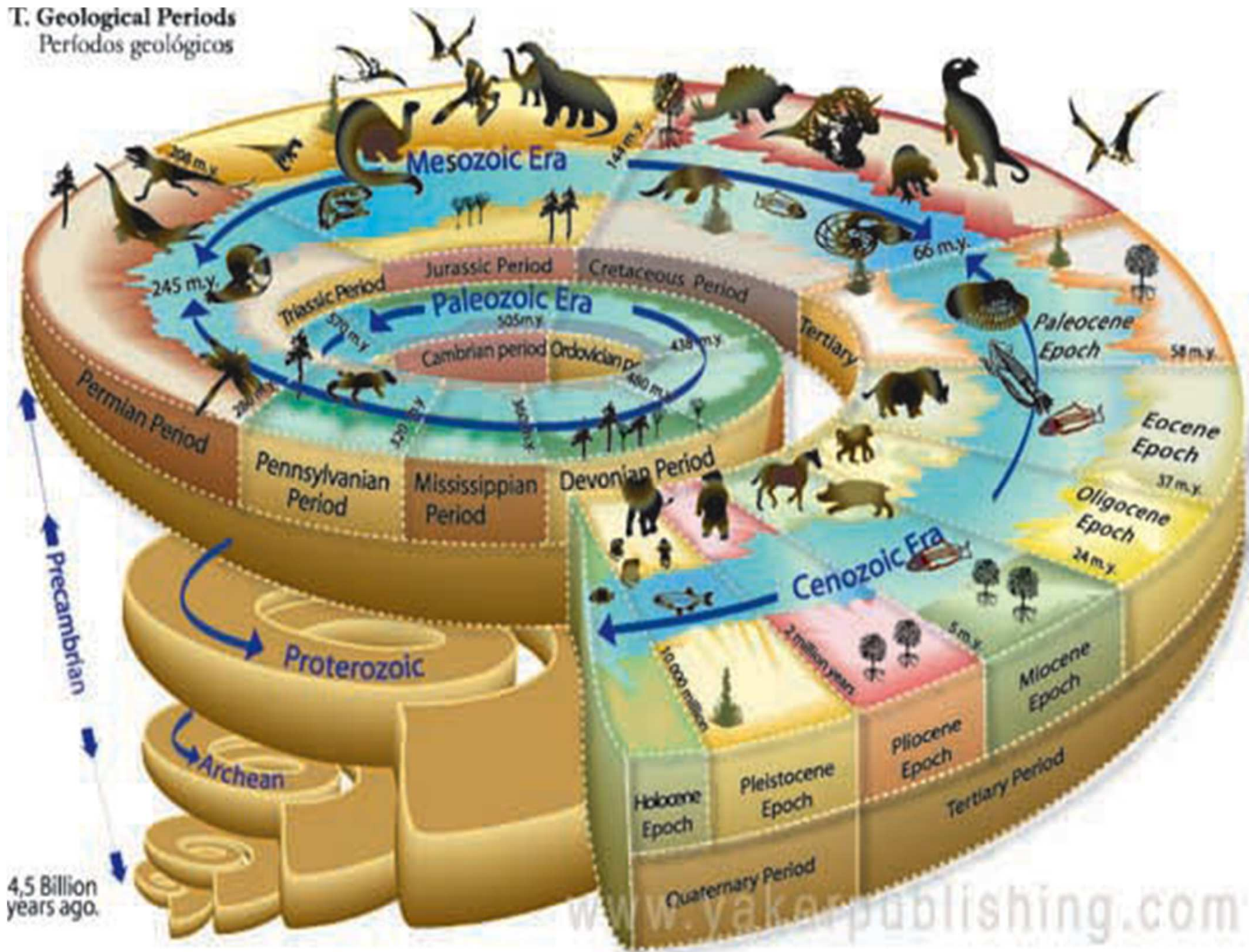
Are humans **trans-monkeys?**

Transhumanism, yes... but **carefully**

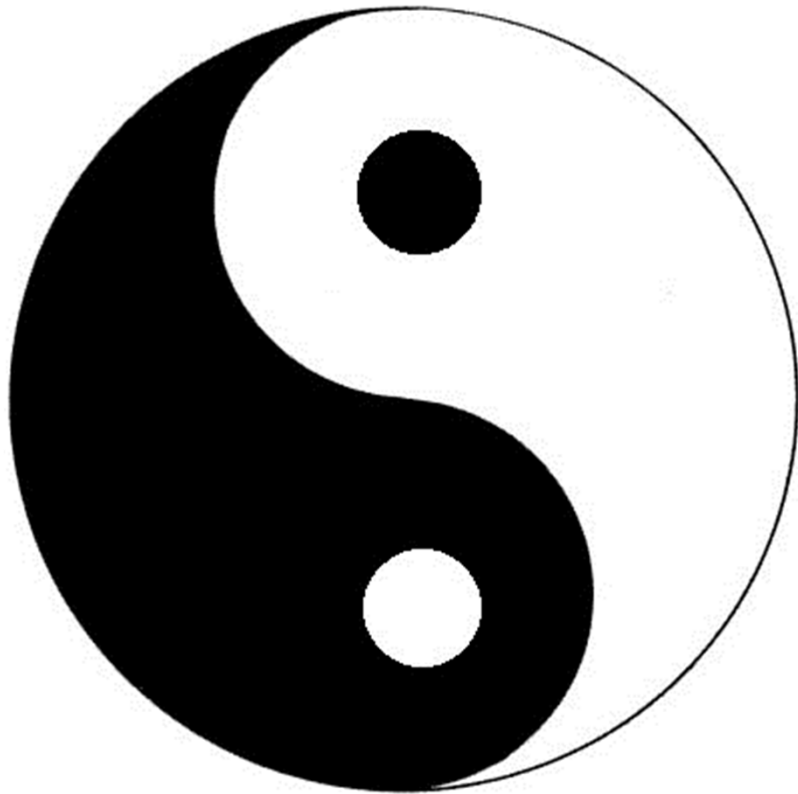


Homo sapiens sapiens

T. Geological Periods
Períodos geológicos



Yin-yang 阴阳 (and more yin-yang)



The world is **one**



Guru Cordeiro meditating in India (Hinduism) and in Japan (Buddhism)



危 櫻

后

木器

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2111

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ACERCA DEL SHOW



2111 es una serie histórica que permitirá descubrir cómo será Latinoamérica dentro de 100 años. A lo largo de 6 programas, encontrará las respuestas a los grandes interrogantes acerca del futuro: ¿Cómo serán nuestras ciudades dentro de 100 años? ¿Cómo nos transportaremos? ¿Cómo será la vida cotidiana del hombre del mañana?

Con 2111 develaremos el futuro a partir de pistas que ya existen en el presente. Conoceremos los proyectos más vanguardistas y sorprendentes del mundo, y los relacionaremos con nuestra región. También contaremos con el testimonio de renombrados expertos de la ciencia, la tecnología y la cultura. Todos ellos son los hacedores del futuro, y se ocuparán de acercarlo a la actualidad.

En cada episodio el Host viajará por Latinoamérica y el mundo. Al presentar e interactuar con los distintos desarrollos, será el hilo conductor de la historia y también quien le dará unidad y continuidad al relato, que por momentos transcurrirá en el futuro, y por momentos en el presente.

La inclusión de las más avanzadas técnicas de animación computada para construir ciudades en 3D, casas, espacios públicos, objetos o medios de transporte del futuro, será un recurso que estará presente a lo largo de todos los capítulos

Las temáticas que abordará la miniserie serán:

- Arquitectura y Desarrollo urbano
- Vida cotidiana
- Transporte y Energía
- Entretenimiento
- Salud y Bienestar
- Trabajo y Educación



¡Muchas gracias!
www.cordeiro.org