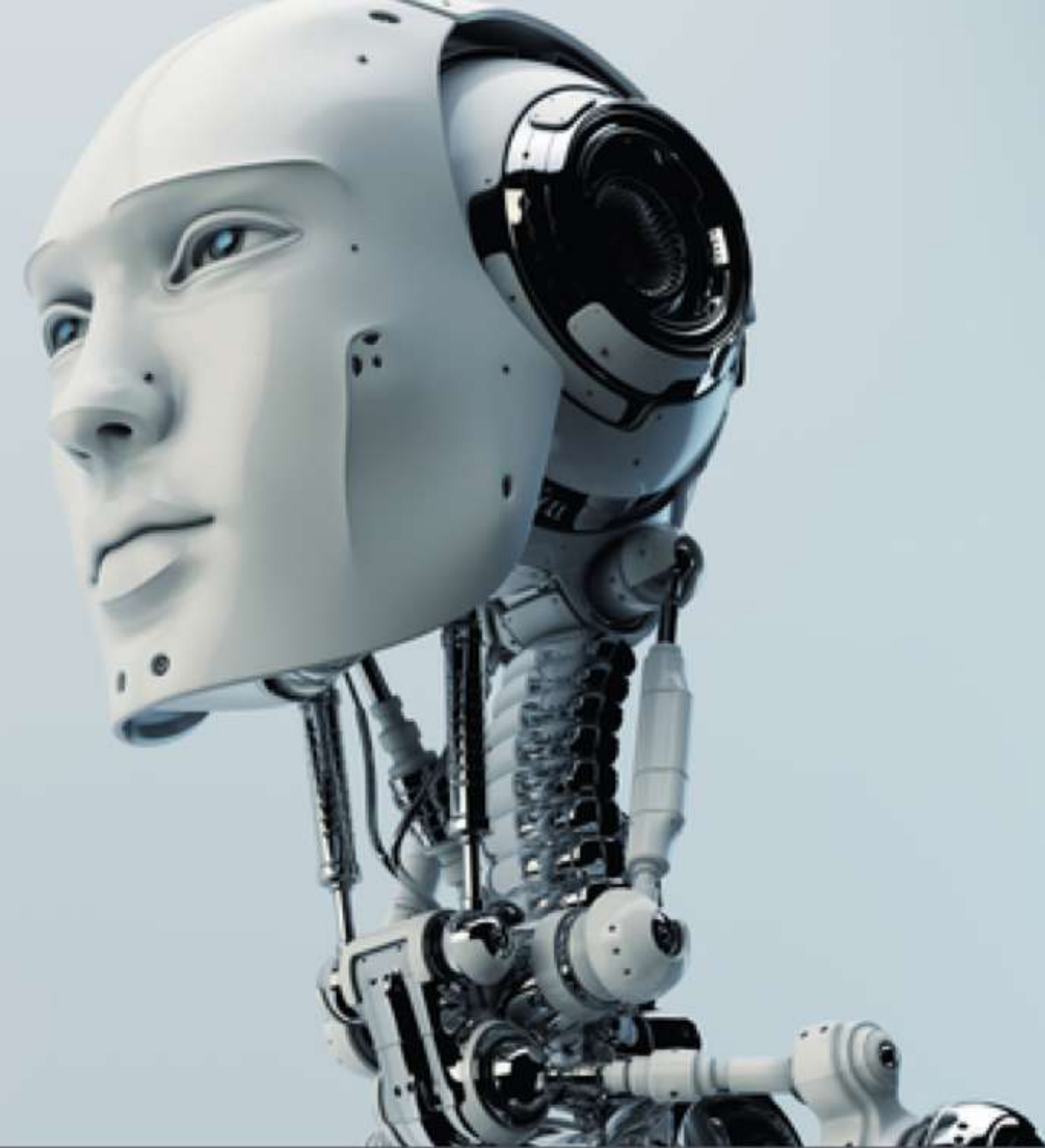


# The Future Of Work & The Work Of The Future

Arturo Pelayo

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ArturoPelayo.com

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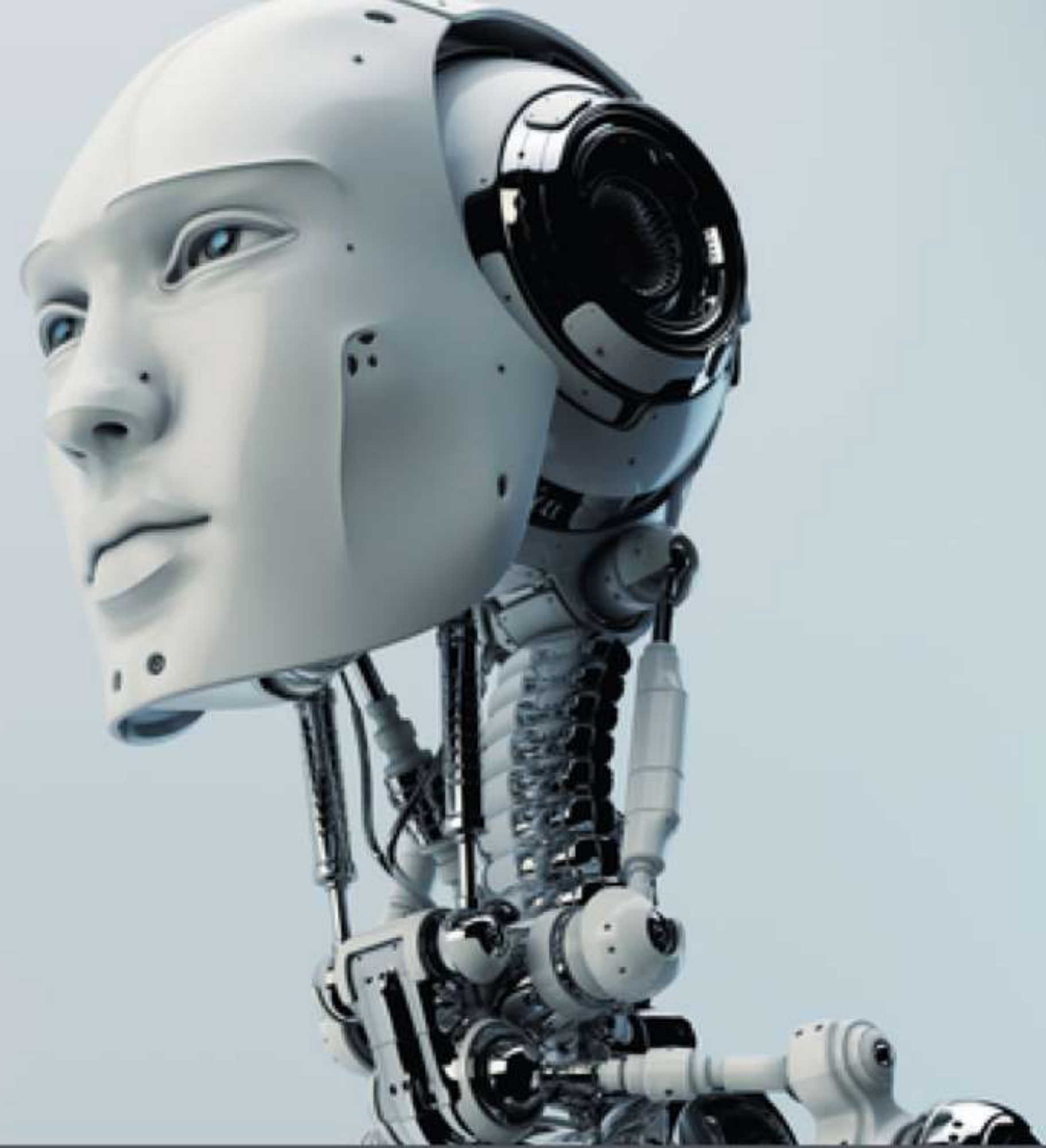




# Content:

This presentation is for informational purposes only.

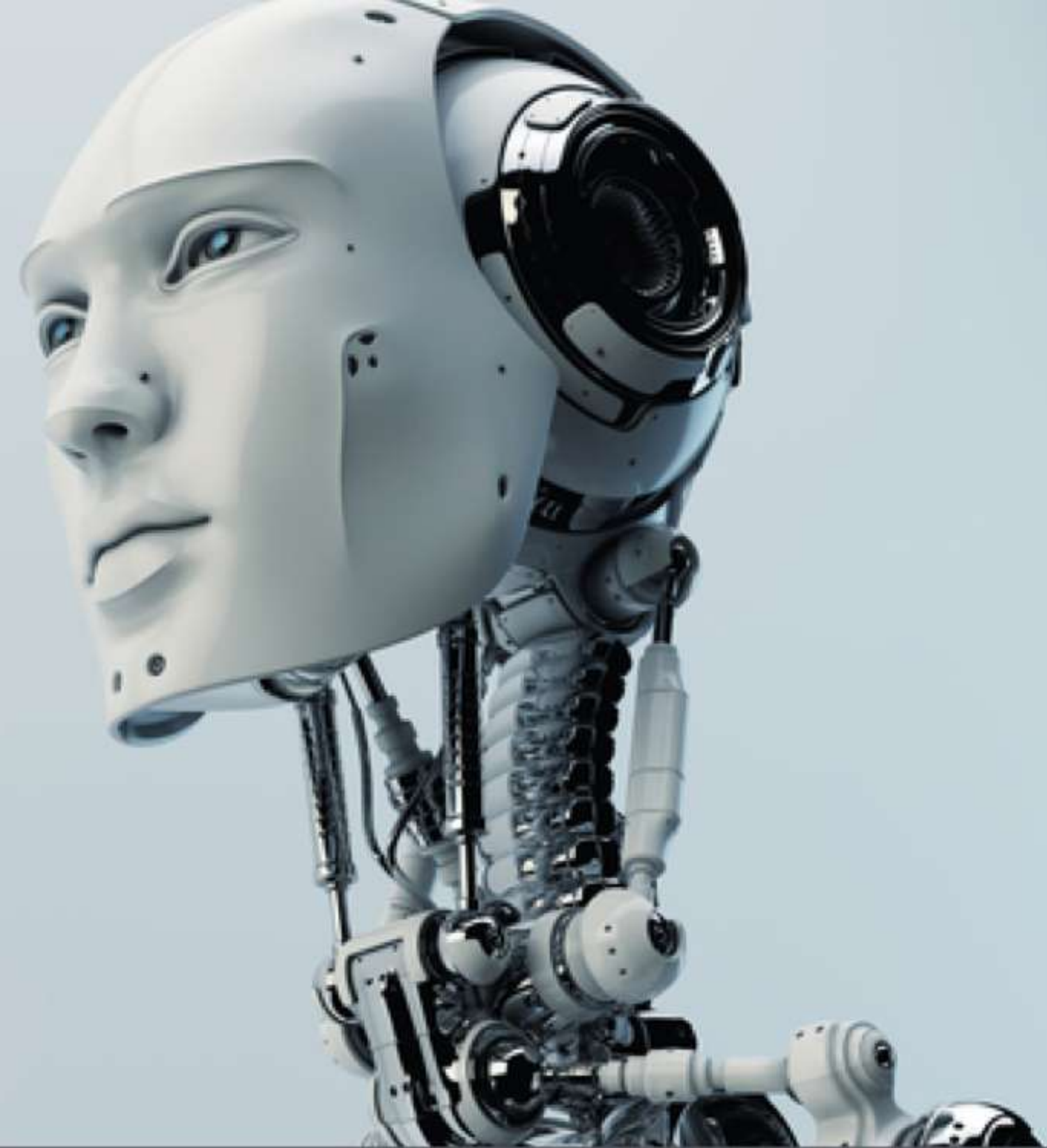
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Everything in the next slides was captured  
ONLY from news from February 2016.



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We are living in very exciting times.

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This is your present.

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This is your present.  
Not your children's.

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This is your present.  
Not your children's.  
Not your children's children's.

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These slides are not meant to scare you.

It is intended to make you aware of the context we live in.  
Awareness is the best antidote for ignorance.

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Are you ready?

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We are entering the next wave of tech change.

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1981



1994



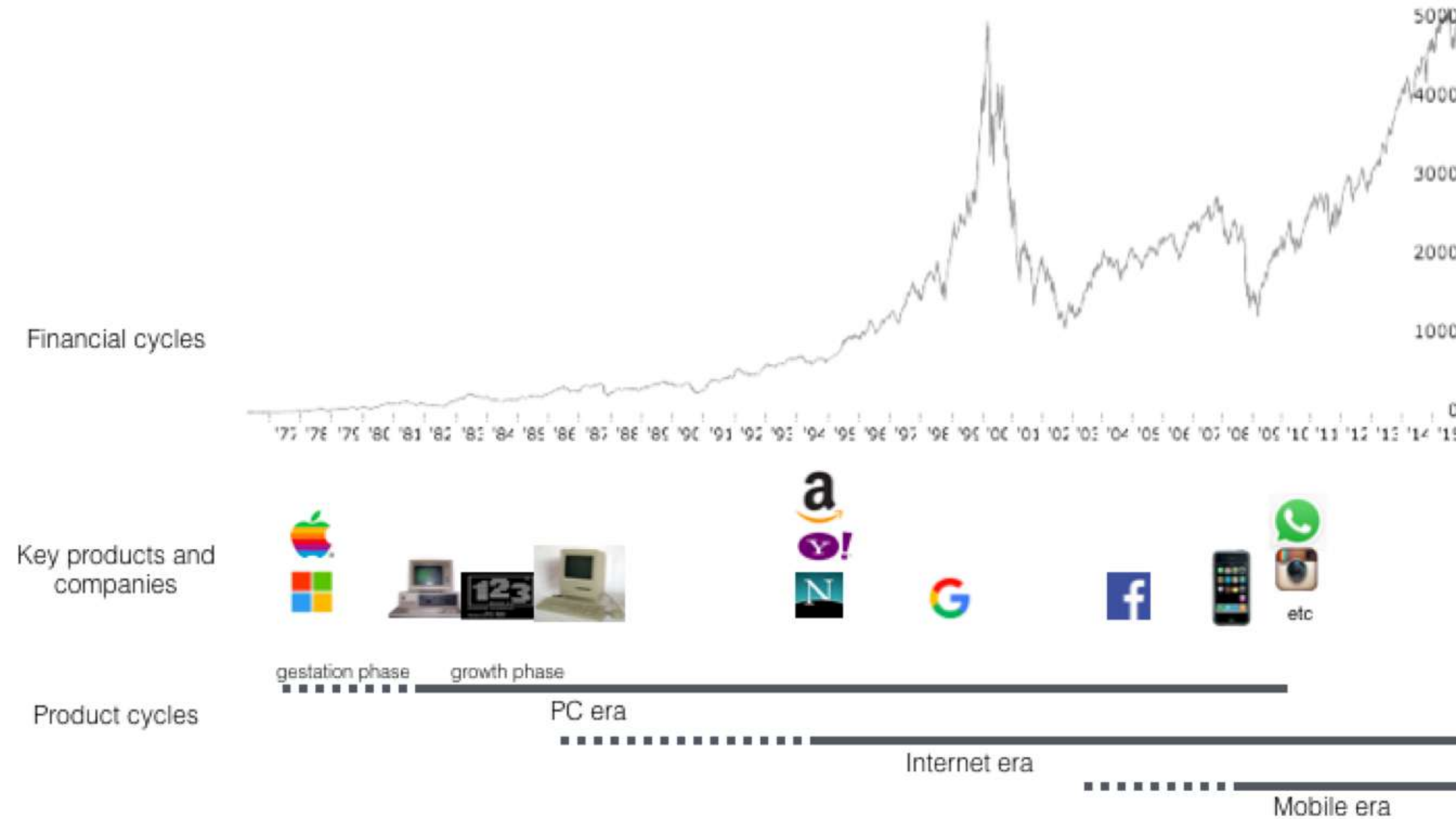
2007

@CDIXON on MEDIUM

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10-15 year cycles

Independent of \$

attribution: <https://medium.com/@cdixon/>

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But... this change is *not* linear.

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We are entering Augmented & Virtual Reality.

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# 400

HOURS  
PER MIN

At one gigabyte per hour this results in a petabyte (PB) of new storage every day.  
The trend for video uploading is increasing exponentially by about 10X every 5 years.

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# Who remembers the Babel Fish?

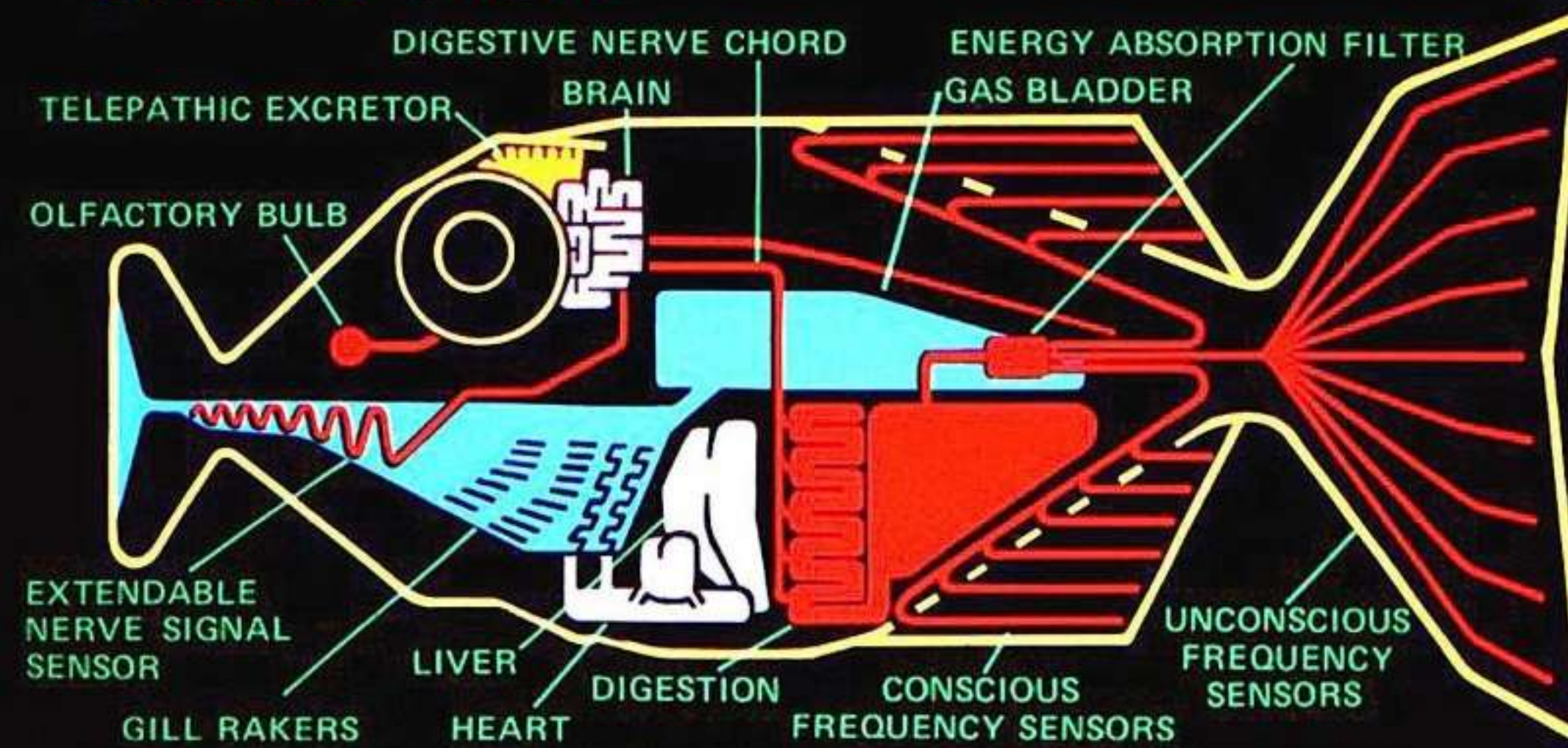
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## BABEL FISH



THE BABEL FISH IS SMALL, YELLOW, LEECHLIKE,  
AND PROBABLY THE ODDEST THING IN THE UNIVERSE.  
IT FEEDS ON BRAIN WAVE ENERGY, ABSORBING ALL

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Surprise!

It's within reach in less than a decade.

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90+

LANGUAGES  
ONLINE TODAY

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1,000,000,000

DAILY  
TRANSLATIONS

200'000,000

DAILY  
USERS

Whenever the machine translations get it wrong, users can flag the error—and that data, too, will be incorporated into future attempts.

ALEC ROSS - WSJ

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This is *not even* the warm-up.

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# 4,000,000,000

PEOPLE COMING ONLINE BY 2025



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**Bloomberg  
Business**





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Autonomous vehicles were approved  
in New Zealand on 29 February 2016.

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autonomous cars = no more kiwi road rage

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autonomous cars = new meaning to self-care &  
drink driving (you aren't!)

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autonomous cars = insurance company  
business model collapse.

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no steering wheel = no more 'wrong side' of the road

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# 4,000,000,000

PEOPLE COMING ONLINE BY 2025



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1,300,000,000

PEOPLE W/O  
ELECTRICITY



2,400,000,000

PEOPLE W/O  
TOILETS

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7,600,000,000

ACTIVE GLOBAL  
CELLPHONES



1,600,000,000

PEOPLE ON  
FACEBOOK

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Cheaper.



Order of magnitude  
cost drop.

Better.



Near-immediate new  
features & improvements.

Faster.



Technology leapfrog.



Power dynamics  
fundamentally change.

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OLD POWER

NEW POWER

NEW POWER  
VALUES

# Power dynamics fundamentally change.

*Jeremy Heimans' framework for  
Old vs New Power.*

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OLD POWER	NEW POWER	NEW POWER VALUES
Currency	Current	Speed

Power dynamics  
fundamentally change.

*Jeremy Heimans' framework for  
Old vs New Power.*

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# Power dynamics fundamentally change.

OLD POWER	NEW POWER	NEW POWER VALUES
Currency	Current	Speed
Held by few	Made by many	Networked governance

*Jeremy Heimans' framework for  
Old vs New Power.*

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# Power dynamics fundamentally change.

OLD POWER	NEW POWER	NEW POWER VALUES
Currency	Current	Speed
Held by few	Made by many	Networked governance
Downloads (hierarchical)	Uploads (grassroots)	Do-it-ourselves

*Jeremy Heimans' framework for  
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Commands	Shares	Collaboration

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Commands	Shares	Collaboration
Leader-driven	Peer-driven	Participation

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OLD POWER	NEW POWER	NEW POWER VALUES
Currency	Current	Speed
Held by few	Made by many	Networked governance
Downloads (hierarchical)	Uploads (grassroots)	Do-it-ourselves
Commands	Shares	Collaboration
Leader-driven	Peer-driven	Participation
Closed	Open	Transparency

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# WE ARE ON THE BRINK OF THE LARGEST JOB CREATION PERIOD IN HUMANITY



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Hang on a minute...

Wasn't this talk about how robots where going to take over my job?

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Ehhhmmm.... no.

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This is what happened since the 1980s

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# The Great Prosperity: 1947-79

## Pay Rose With Productivity ...

Wages and overall compensation, for production and non-supervisory workers (now about 82 percent of the private sector work force), tracked steadily upward alongside gains in productivity.

The rising value of goods and services per worker meant rising pay. But that relationship ended in the 1970s.

BASELINE IS 1947

'50 '60 '70 '80 '90 '00

# The Great Regression: 1980-Now

## ... And Then It Didn't

PRODUCTIVITY

AVG. HOURLY  
COMPENSATION

AVG. HOURLY  
WAGE

CHANGE,  
1979-2009

**+80%**

CHANGE,  
1979-2009

**+8%**

**+7%**

CHANGE,  
1947-79  
**+119%**

**+100%**

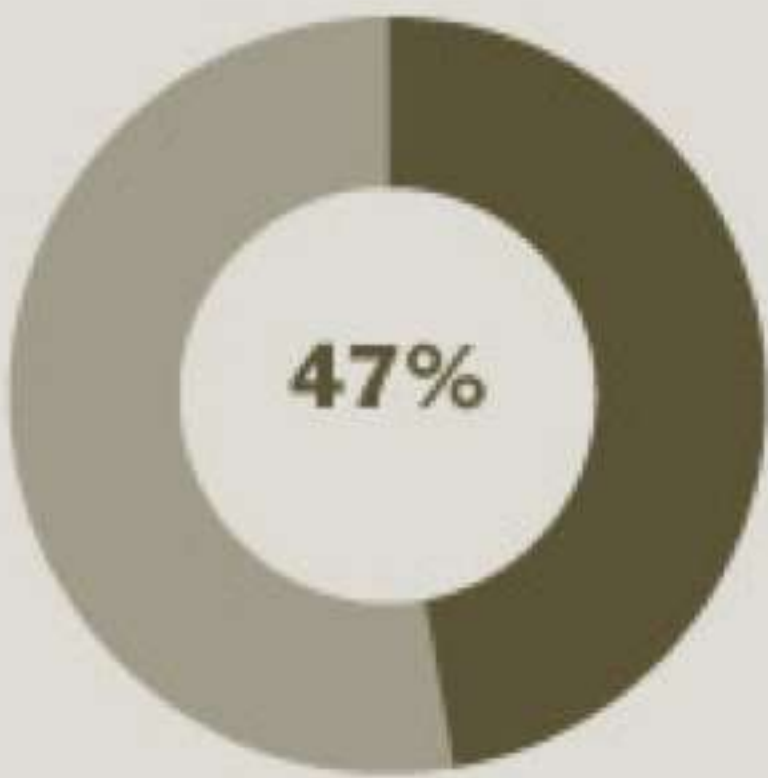
**+72%**



'13   '20   '30   '40   '50   '60   '70   '80   '90   '00

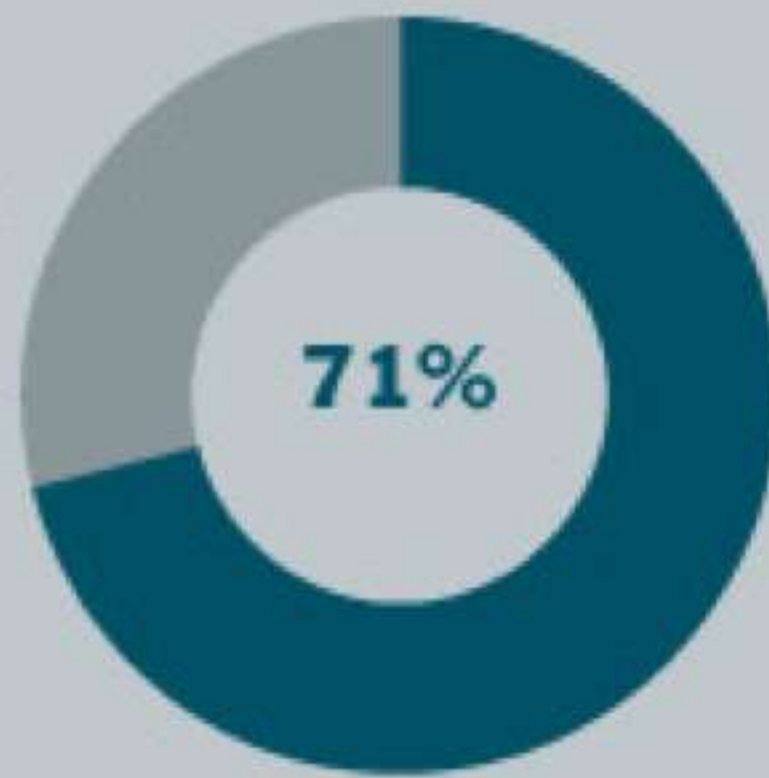
**To Sustain Household Spending ...**

**1975:**  
Percentage of  
women with  
children under  
age 18 who  
also worked



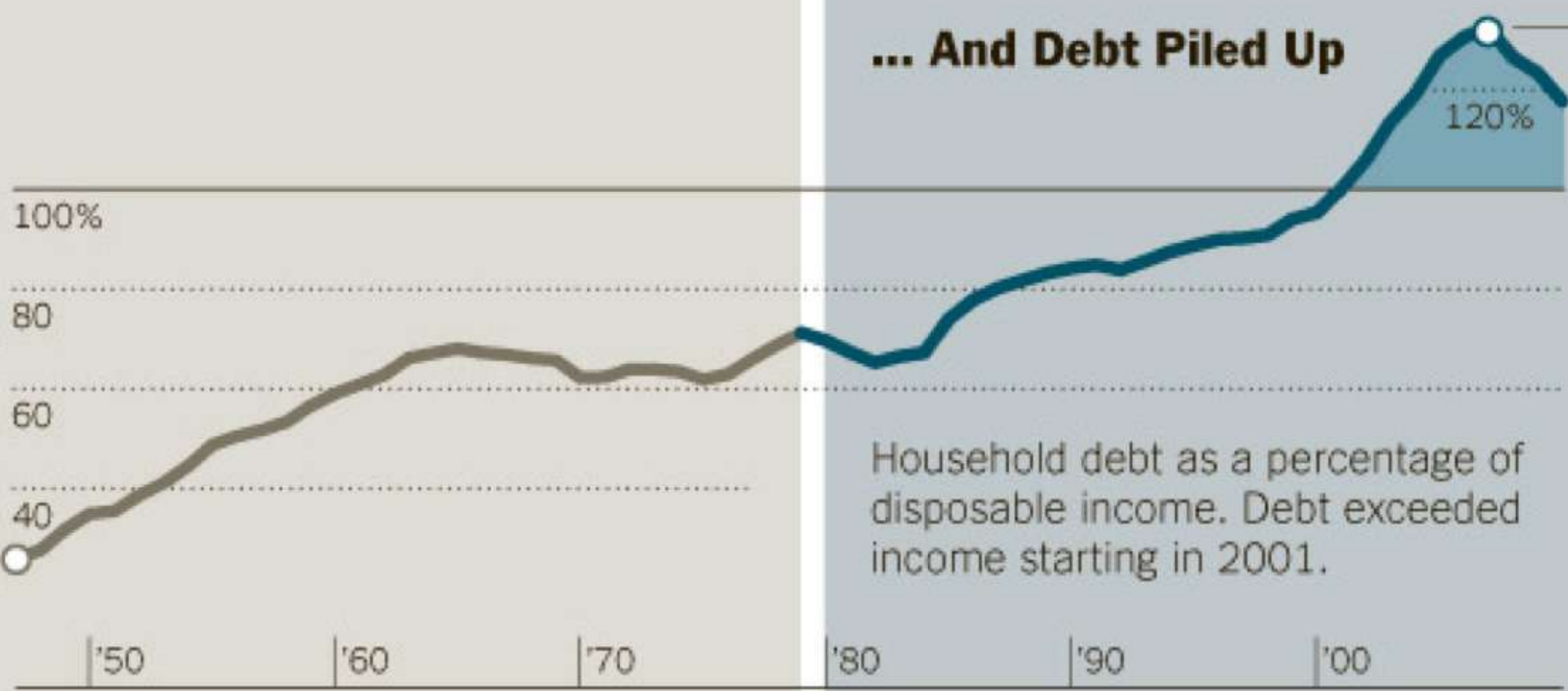
**... More Women Worked ...**

**2008:**  
Percentage of  
women with  
children under  
age 18 who  
also worked



**... And Debt Piled Up**

1947: **26%**



Household debt as a percentage of  
disposable income. Debt exceeded  
income starting in 2001.



Don't blame our Robot Overlords.  
It's been human greed all along.

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I remain optimistic.

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Humans decide.

Humans code the algorithms (for now).

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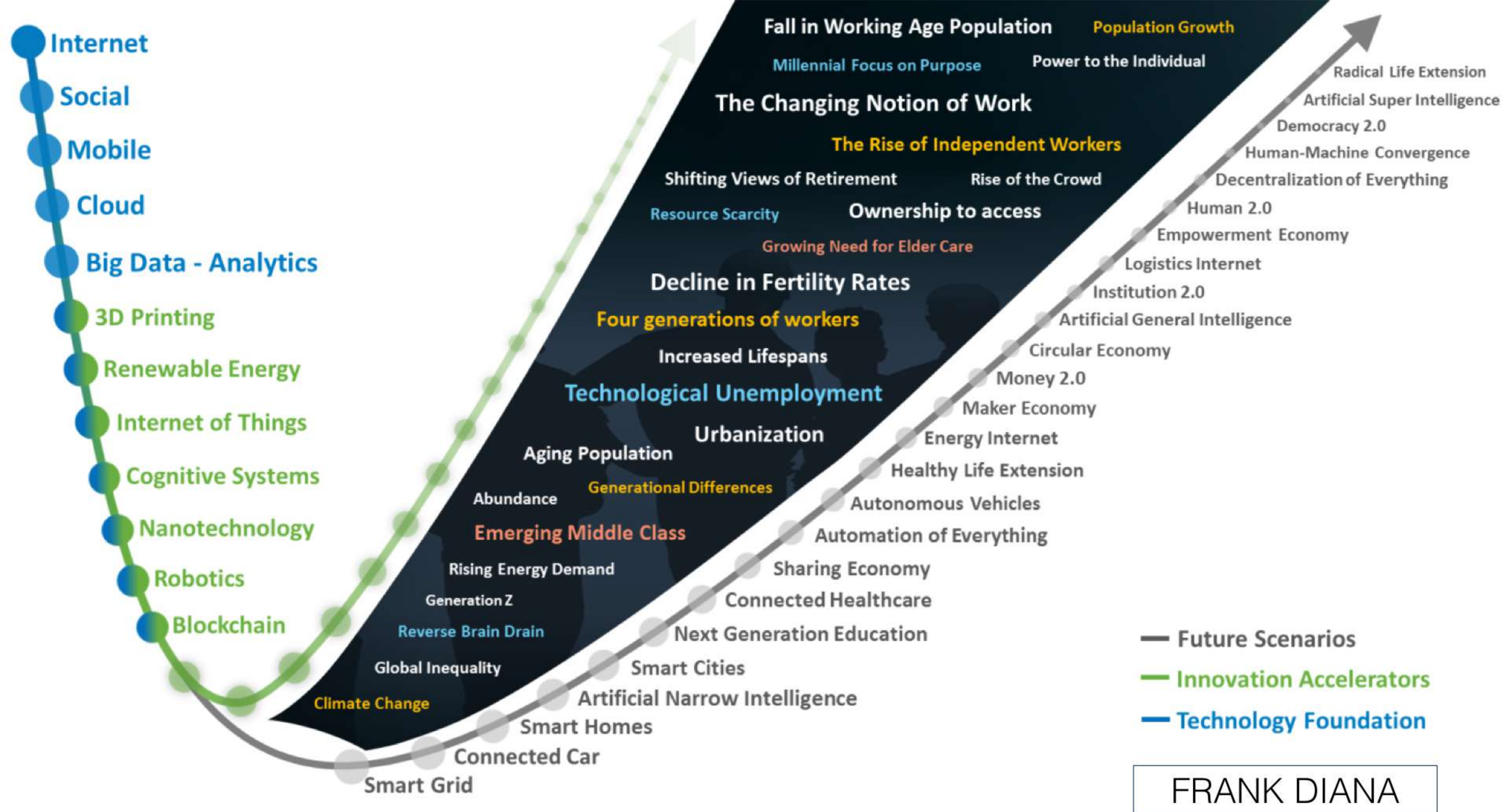
We are about to hit the hockey puck.

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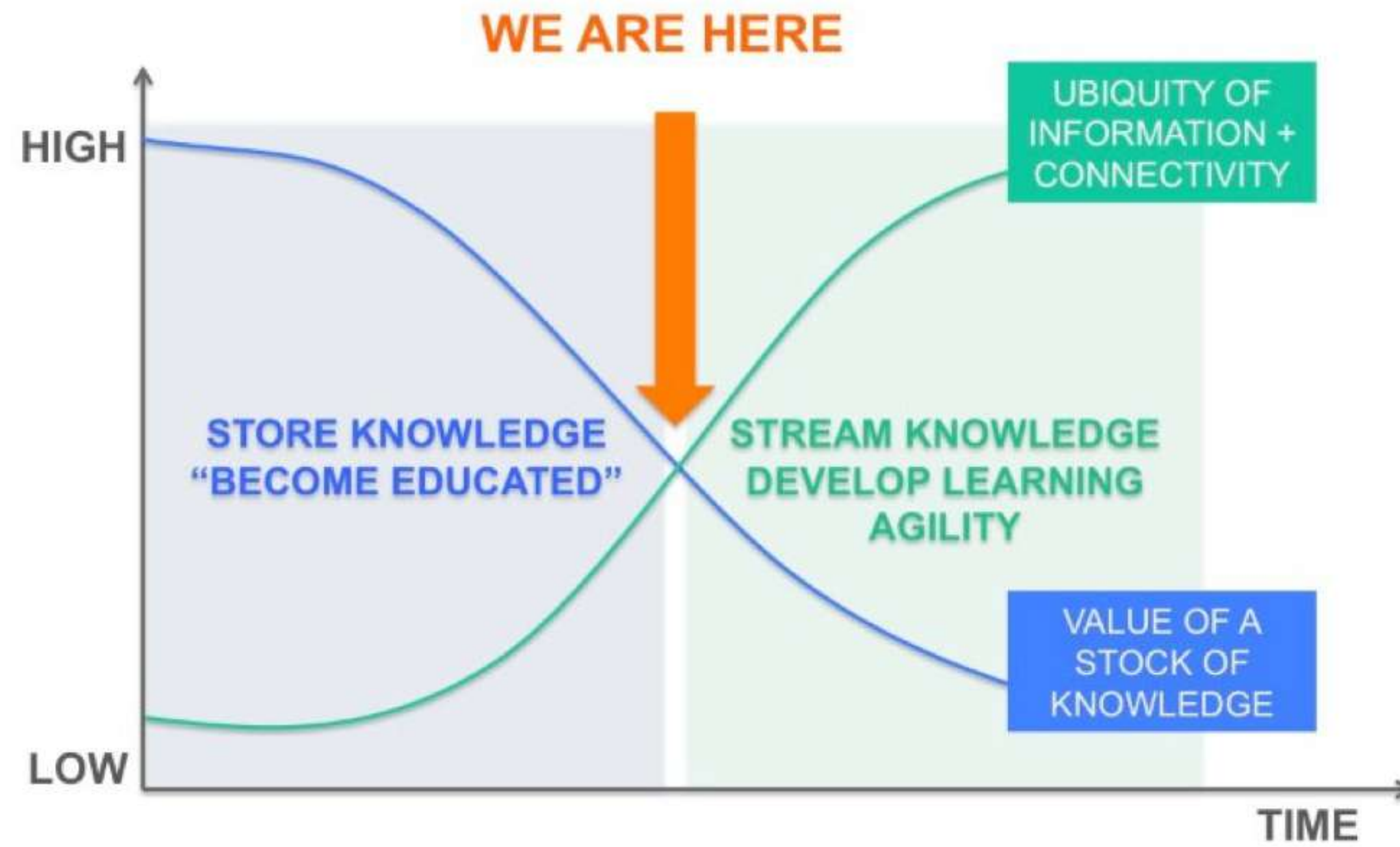
*But I work in blended learning...*  
*How does this relate to me?*

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Credits: John Hagel @Jhagel for Stocks of Knowledge Concept and Laurence Van Elegen for the Stream Knowledge Concept

@heathermcgowan

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It is now possible to reach millions of people  
with relevant, personalized learning experiences  
with have rich analytics.

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one last thing...

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# Synthetic learning.

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# 49 VIDEO GAMES

They didn't teach it "how to play video games," but *how to learn to play* the games.  
They encouraged Deep Mind to improve using Unsupervised Learning.

KEVIN KELLY

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"By the end of hundreds of rounds, the neural network could play the game as well as human players, sometimes better.

In every sense of the word, it learned how to play the games."

KEVIN KELLY

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"Once learning can be synthesized it can be distributed into all kinds of ordinary devices and functions.

It can be used to enable self-driving cars to get better, or for medical diagnosing programs to improve with use."

Kevin Kelly  
January 2016

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# DeepMind Health

LAUNCHED ON 24 FEBRUARY 2016

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Everything is going to be OK\*

\* As long as we respect one another with dignity and humanity.

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Thanks for listening.

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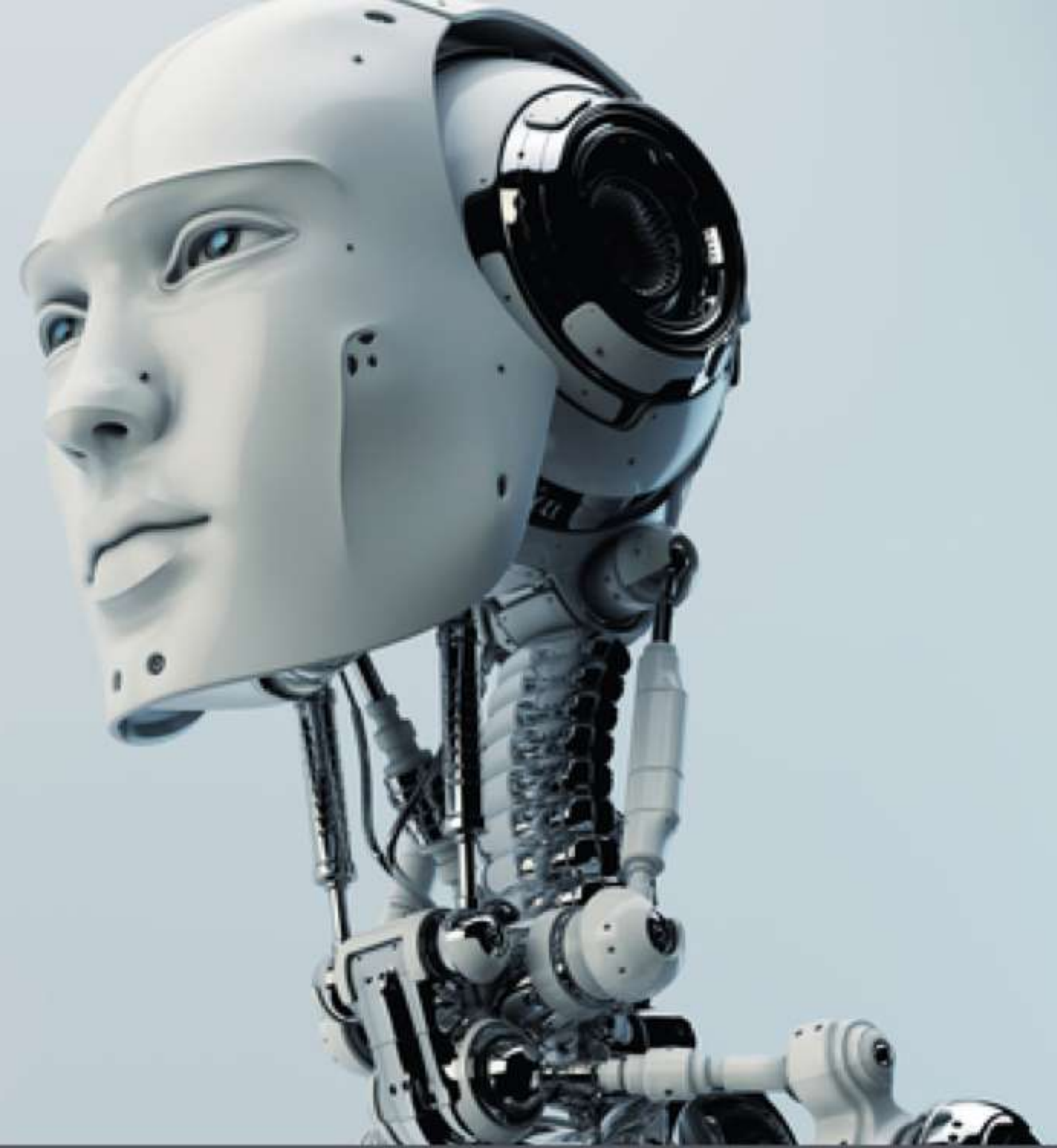
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