

Understanding The Exponential

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11th Nov 2019



Acknowledgements

DGTAL acknowledges the contribution of these esteemed organizations towards open source tech knowledge sharing for the benefit of the world at large









MIT Technology Review





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FUTURE

OF GOOD



260 Million years ago



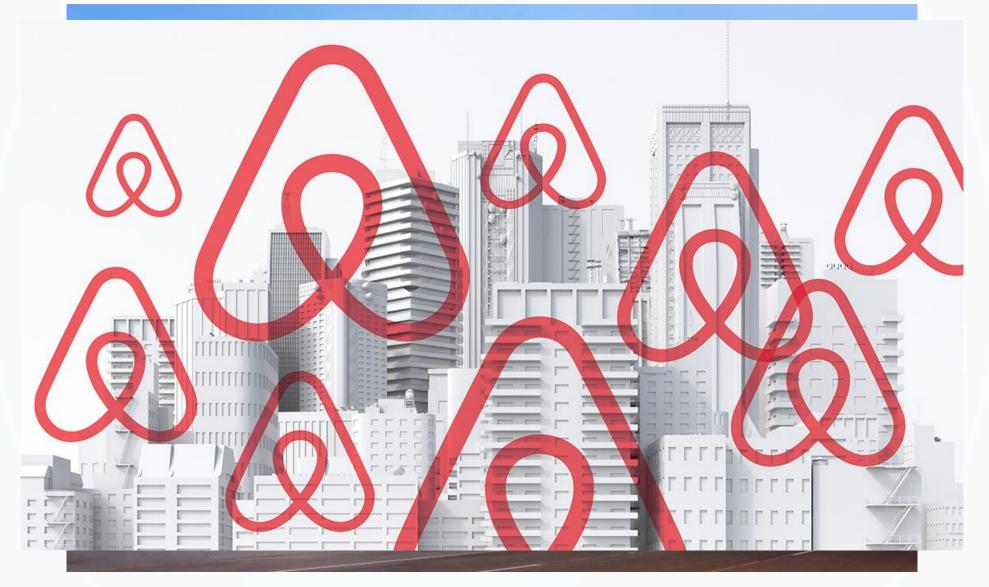


178 vs 23 years





Scarcity vs abundance





Energy is scarce ? All about mindset



Everything is energy, including our thoughts



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Bill Clinton Interviewing Peter Diamandis



If necessity is the mother of invention, exponential change is the mother of reinvention.

Nick Davis,

Vice President,

Enterprise Solutions & Corporate Innovation at Singularity University

Human development over 250,000+ years...

We the Human has got that cognitive bias that linear mindset

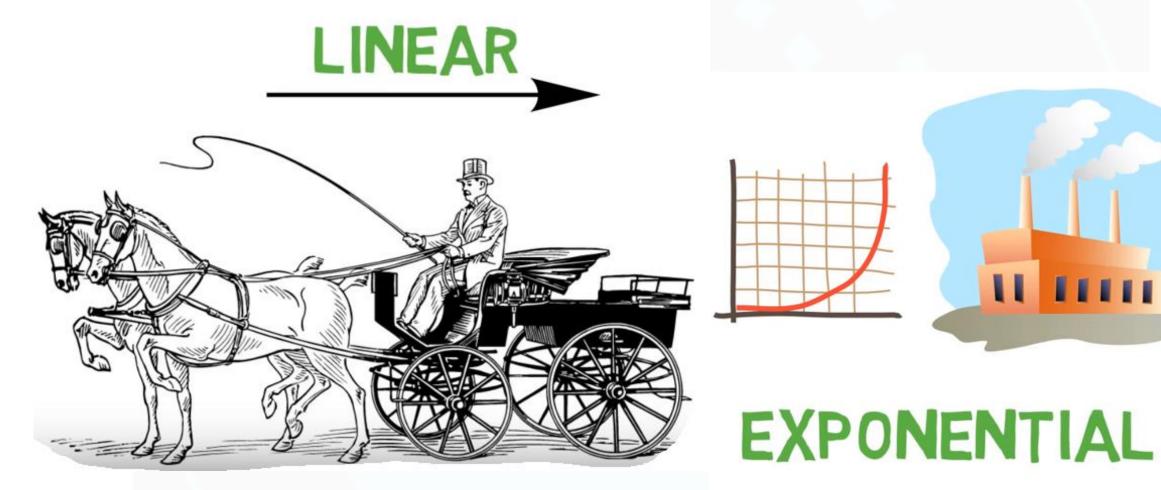
LOCAL + LINEAR

Technology is

EXPONENTIAL + GLOBAL

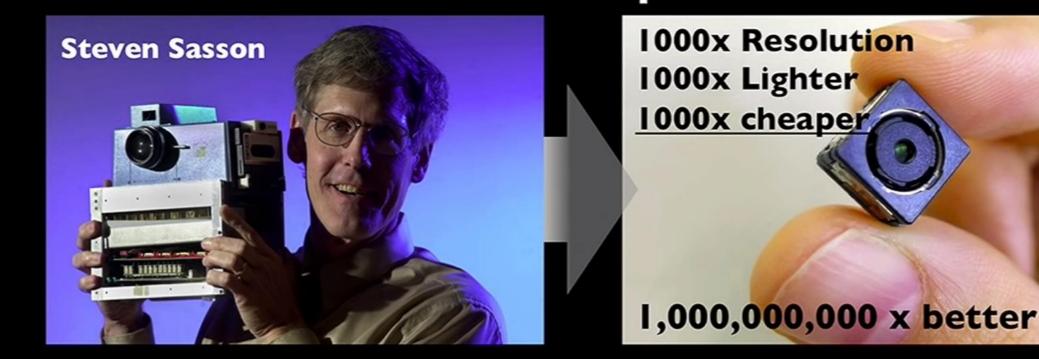


Dirty street vs dirty sky





Sensor Explosion

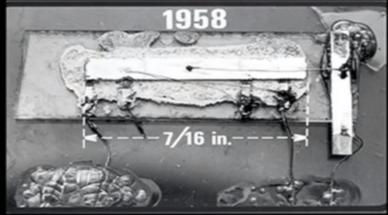


1976 – Ist Digital Camera (Kodak) 2014– Mobile Digital Camera 0.01 MP / 3.75 lbs / \$10,000 >10 MP / 0.03 lbs / \$10

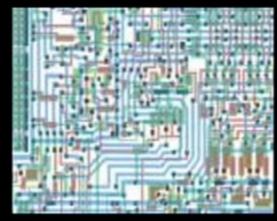
← I,000x Resolution & I,000 lighter & I,000 cheaper →

Integrated Circuits

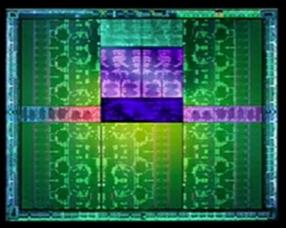
1958: 2 transistors



1971: Intel 4004



2012: Nvidia's GPU



Transistor Count:2Gate process length:1/2 inchSpeed:Cost of a transistor:

2,300 transistors 10,000 nanometers 740 KHz (.00074 GHz) ~ \$1 (1968)

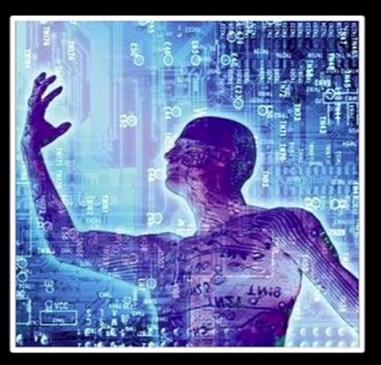
7.1 billion transistors
28 nanometers
7GHz
~ \$.0000001

← IOK (faster) & IOM (cheaper) → IOO Billion-fold improvement (40 yrs)

LINEAR ----- EXPONENTIAL

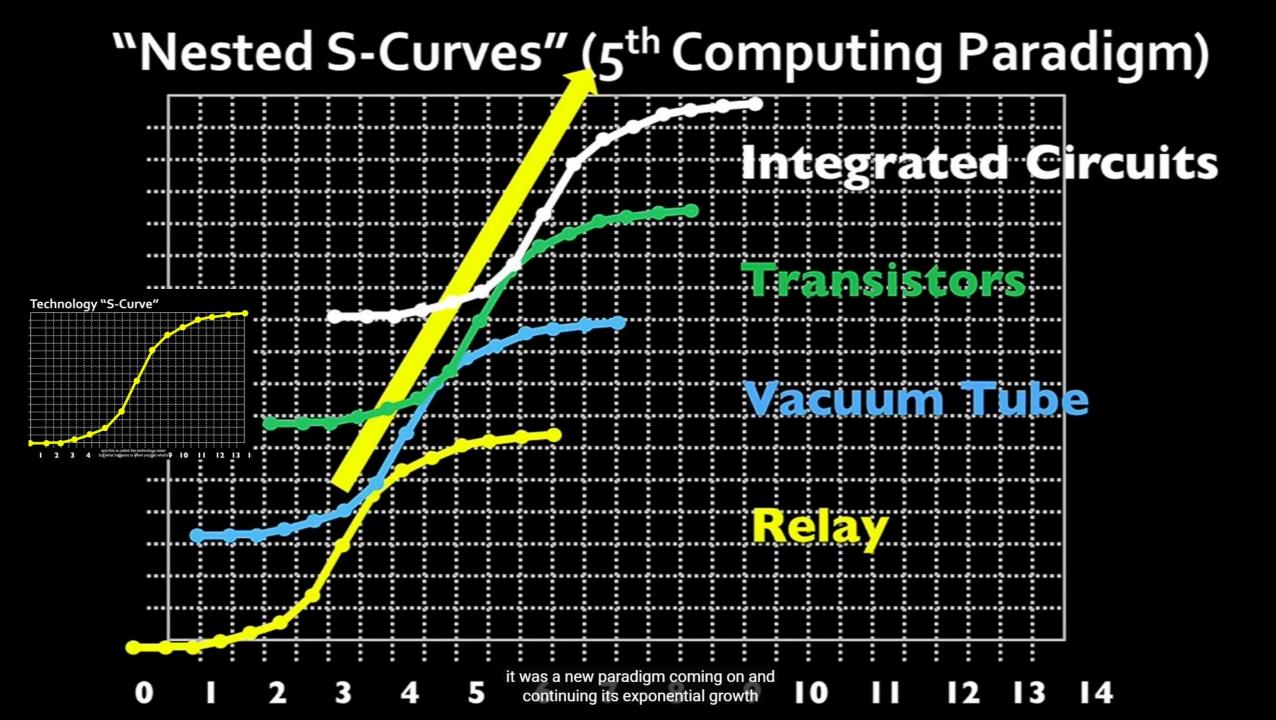
<u>Exponential Technology</u>

- I. Computation/ Networks
- 2. Artificial Intelligence
- 3. Robotics
- 4. 3D Printing
- 5. Synthetic Biology
- 6. Digital Medicine



Crowd/Community Tools

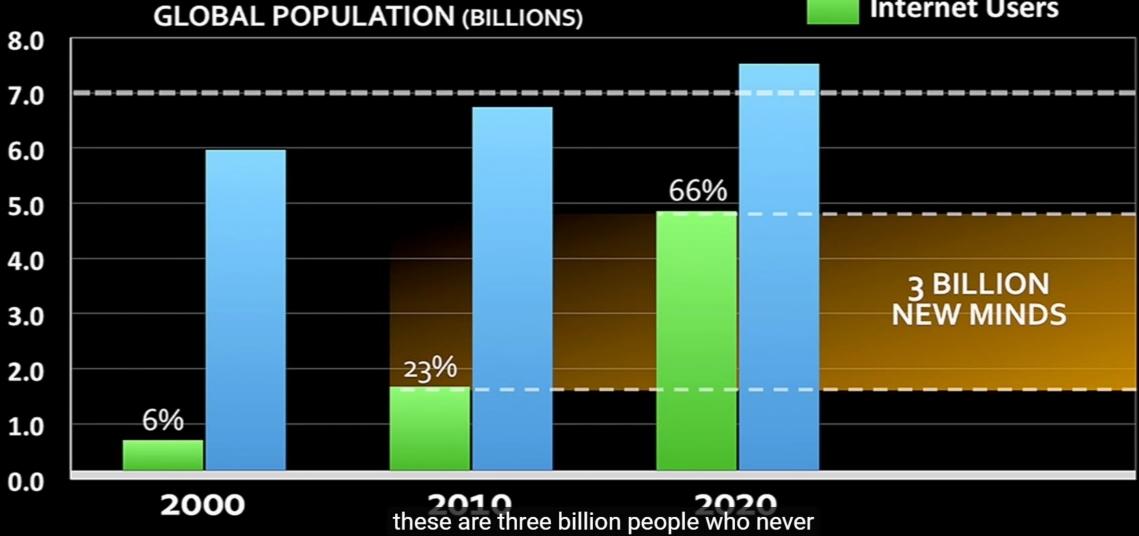
- I. Incentive Competitions
- 2. (Big) Data Mining
- 3. Crowdsourcing
- 4. Crowd Funding
- 5. DIY Communities
- 6. Crowd Creativity



FORCE: Rising Billion

Global Population

Internet Users



bought anything before



The Exponential

Computers are the example of an Exponential Technology we're all familiar with – doubling every 18 months or so (MOORE'S LAW).

An Exponential Technology is two things..., it's exponential. In each period it doubles in capability or performance. and on the flip side, it halves in cost in each period.



Is exponential a choice

Past technological innovations- generally served to reduce labor demands and increase profit margins at different stages of a given production chain.

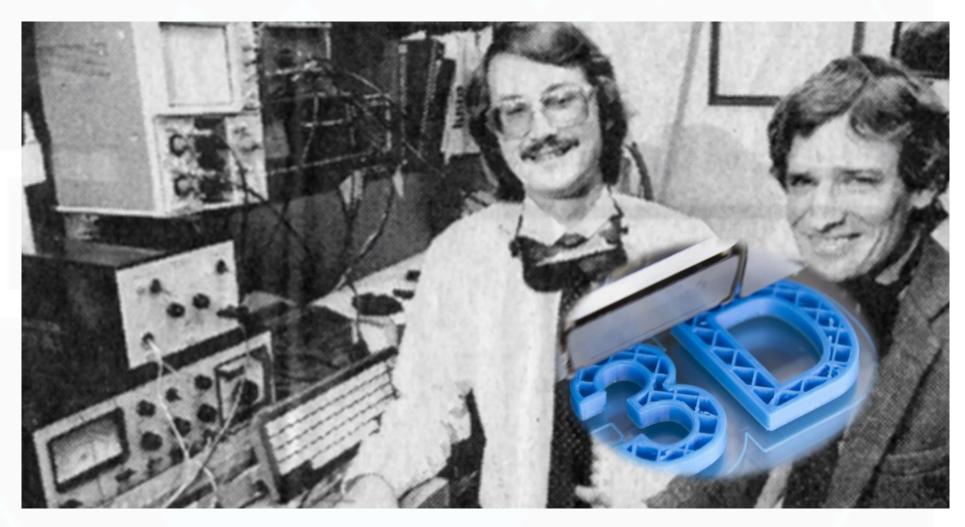
Price-Performance is The Thing in today's world.

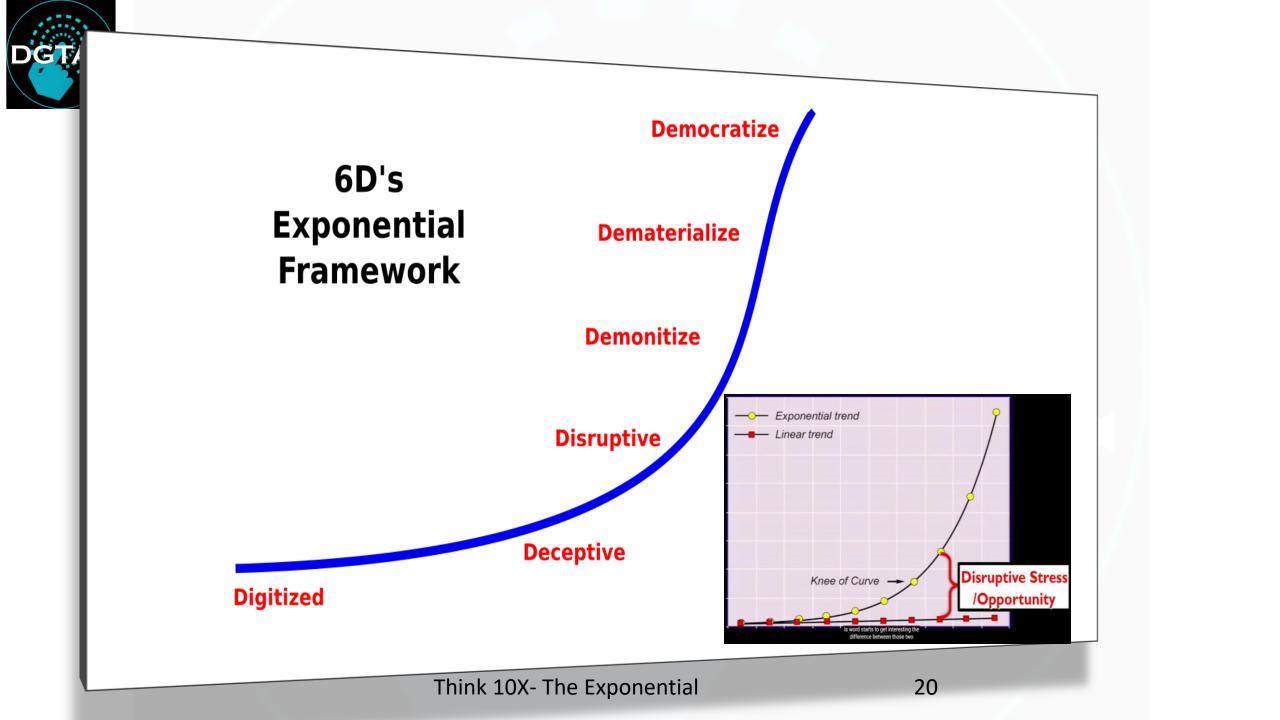
According to Exponential Organizations, the cost of 3D printing has dropped by a factor of 400 in the past seven years. Industrial robots cost 1/23 of what they did just five years ago. Drones are 143-times cheaper than they were in 2010, and sequencing the human genome is 10,000-times less expensive than it was in 2009.

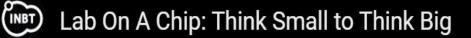
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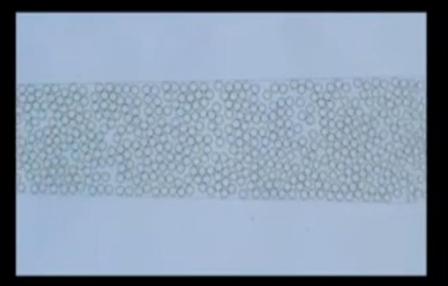
Performight successes" is actually years of hard work

3D Printing invented by Chuck Hull 40 years ago



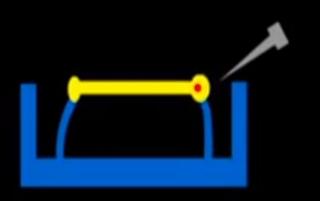




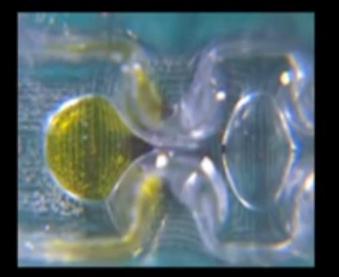


New lab-on-a-chip system quickly identifies health aspects of a person's immune system, Sep 25 2019



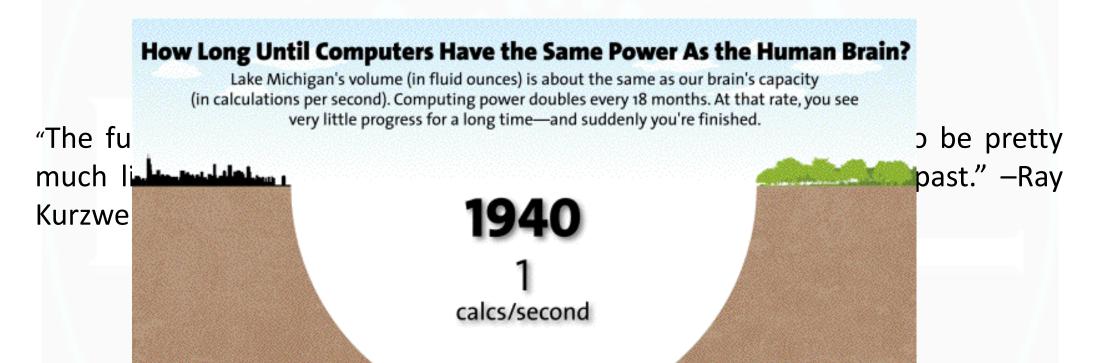


Lab on A Chip Video





singularity Artificial General Intelligence



"Imagine you have a domestic robot. It's at home looking after the kids and the kids have had their dinner and are still hungry. It looks in the fridge and there's not much left to eat. The robot is wondering what to do, then it sees the kitty, you can imagine what might happen next," JONES



Acknowledgements & Further reads

- Exponential Thinking by Peter Diamandis
- John Hopkins University Lab On Chip
- <u>Shanghai allows self-driving cars to carry passengers</u>
- <u>This "Anti-Solar Panel" Could Generate Power From Darkness</u>
- New CRISPR class expands genetic engineering toolbox



























Energy



Environment

12 Global Grand **Challenges**



Disaster Resilience

As per UN convention these grand challenges need to be addressed achieve for Development Sustainable Goals

Global Health

Shelter

Governance

Security







Learning

Space





Food

Prosperity

Water

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3D printing and digital fabrication

Blockchain

Nanotechnology

Digital medicine

Robotics

Autonomous vehicles

Digital biology and biotechnology

Artificial intelligence (AI)

Networks and computing systems

Augmented and virtual reality (AR, VR)

Drone technology

Data Science

Quantum computing

Internet of things

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Growth in the 3D printing market has more than doubled

Global 3D printing revenues among large public companies, US\$ billion, 2014–2020

3D Printing or Additive Manufacturing

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Source: Deloitte analysis of public company filings and analyst estimates.

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Deloitte Insights | deloitte.com/insights

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Dubai creates world's largest 3D printed building

The project stands almost 10 metres tall and requires half as many people to build as conventional construction



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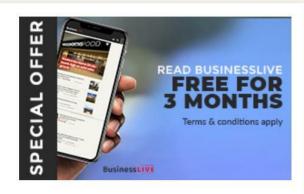
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SA is home to the world's largest 3D printer

With state-of-the-art 3D printer – the largest in the world – the CSIR plans to secure contracts with international aircraft makers

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26 SEPTEMBER 2019 - 05:00 by NAFISA AKABOR





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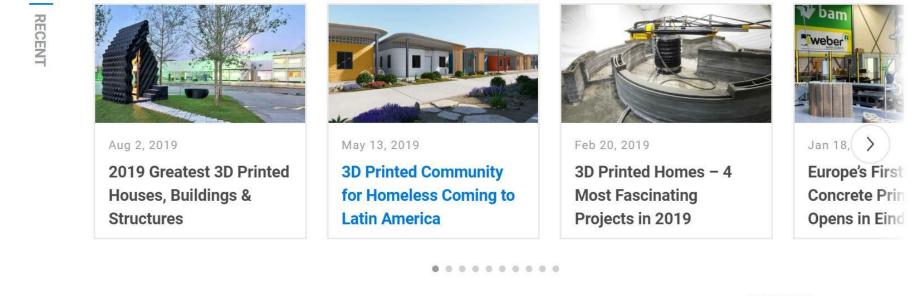
3D Printing



≡ All3DP

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Watch the world's biggest 3D printer make a 25-foot boat

By Darren Allan 21 hours ago Printers And Scanners

5,000-pound boat named '3Dirigo' is the largest object ever printed

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Huge 3D printers could produce Mars-bound rockets soon

By Darren Allan a day ago Printers And Scanners

Machine learning tricks will theoretically mean rockets can be made on Mars, eventually

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3D Printing

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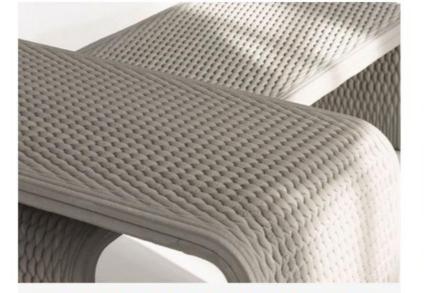




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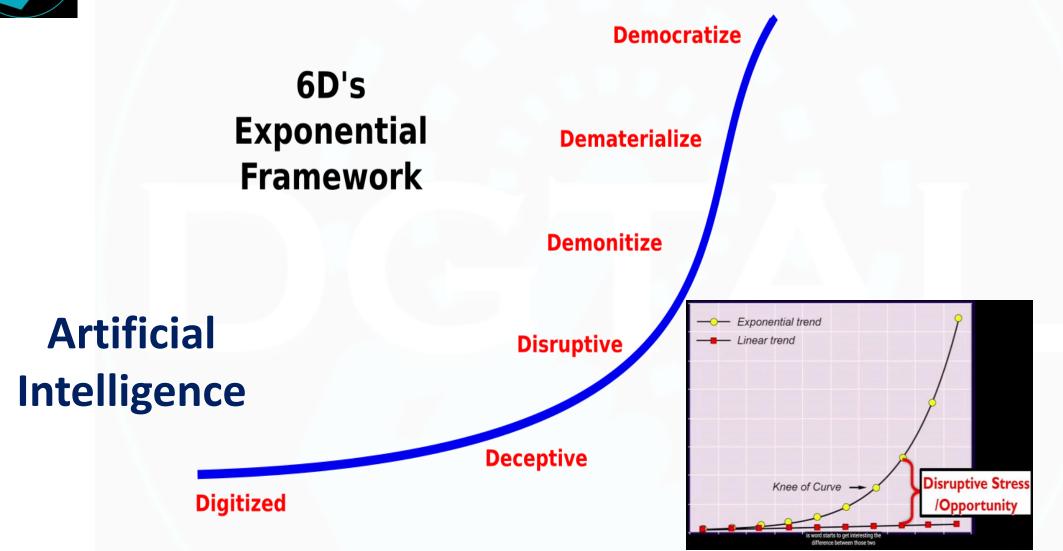
Artificial Intelligence

Peter Diamandis 6D Framework



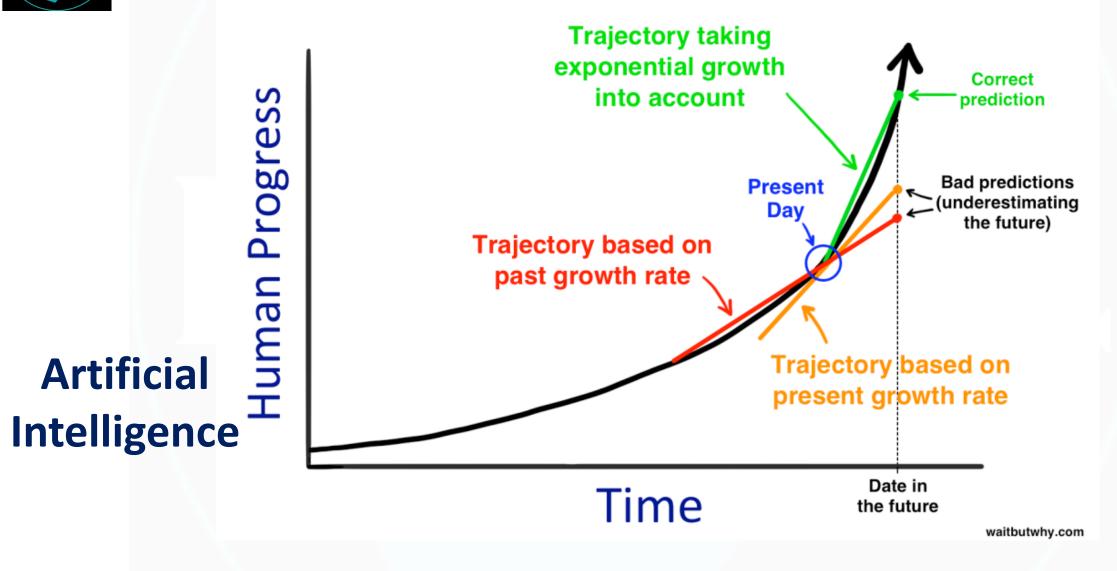
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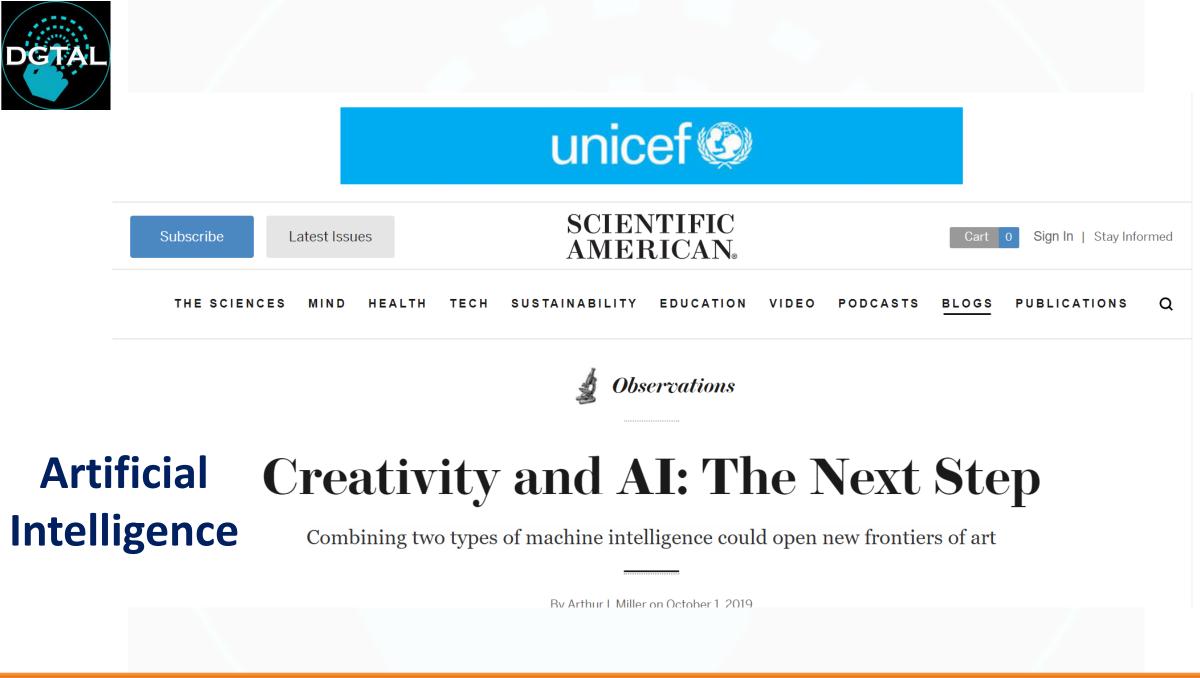


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Artificial Intelligence Could Be a \$14 Trillion Boon to the Global Economy—If It Can Overcome Artificial These Obstacles Intelligence

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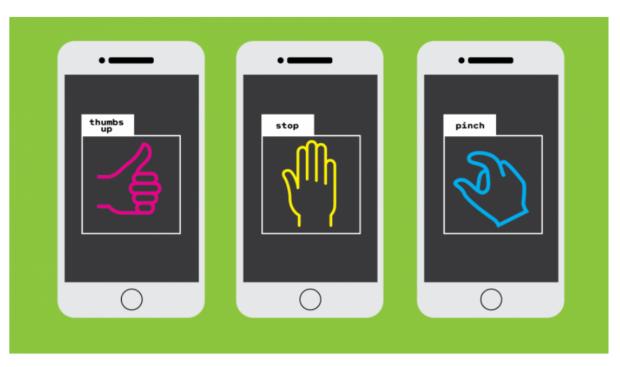
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Artificial Intelligence Oct 11

Powerful computer vision algorithms are now small enough to run on your phone

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Researchers have shrunk state-of-the-art computer vision models to run on low-power devices.

Growing pains: Visual recognition is deep learning's strongest skill. Computer vision

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\equiv [N] Future



World's first artificial intelligence university to open in Abu Dhabi

The Mohamed bin Zayed University of Artificial Intelligence is accepting applications for its first masters and PhD programmes to begin in September 2020



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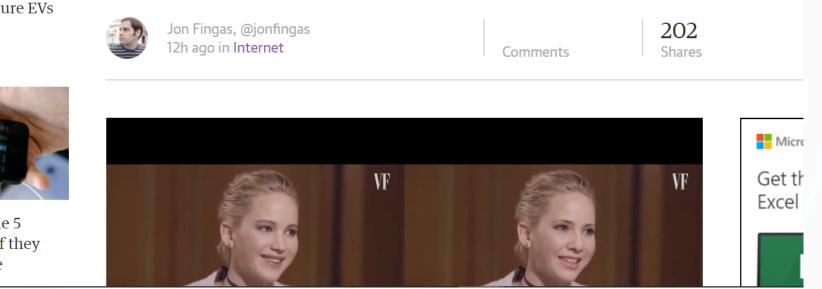


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It could help fight deepfakes and other privacy issues.



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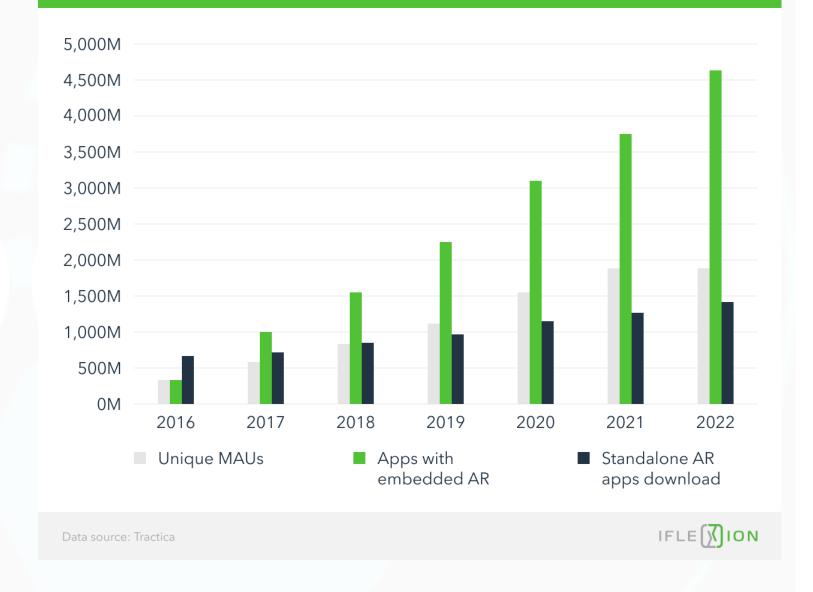
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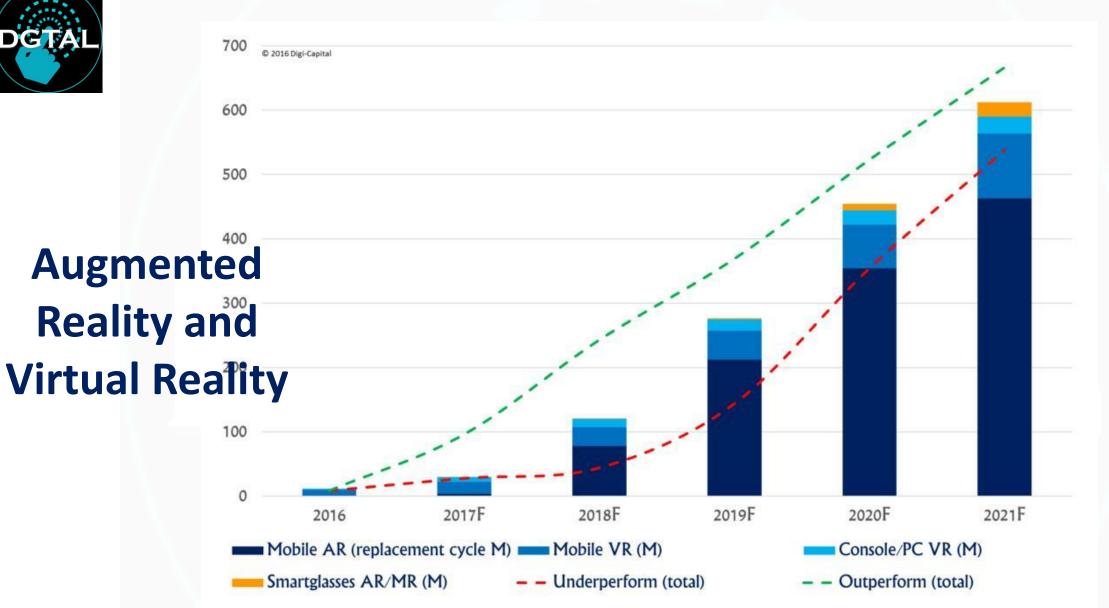
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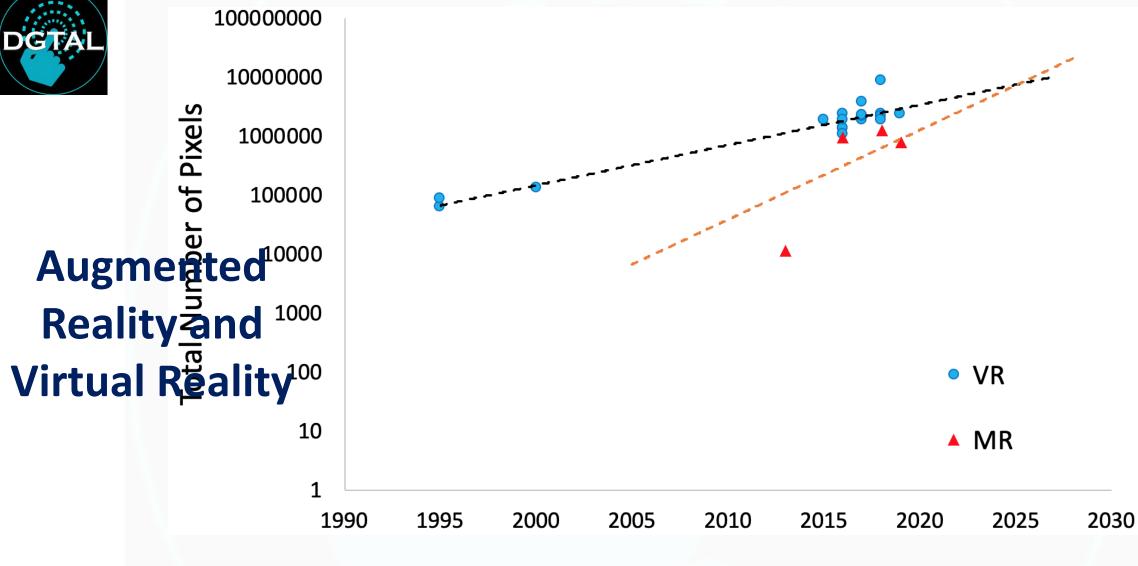


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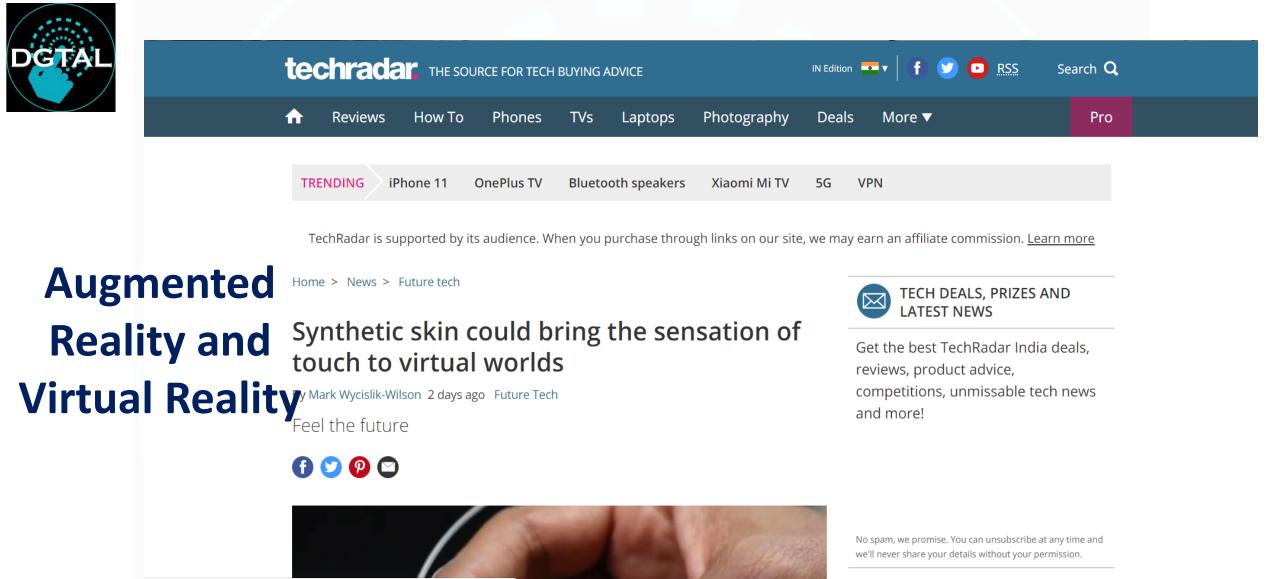
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How Regulators Nearly Killed Off Libra—and Why They Might Yet Have Second Thoughts About the Digital Currency

A Big Supporter of Virtual Reality Content Just Backed Away. Here's Why Consumer VR Still Isn't a Sure Thing

By David Meyer October 17, 2019

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Microsoft's DreamWalker VR turns your daily commute into a totally different one

It guides you through real environs while immersing you in virtual ones.

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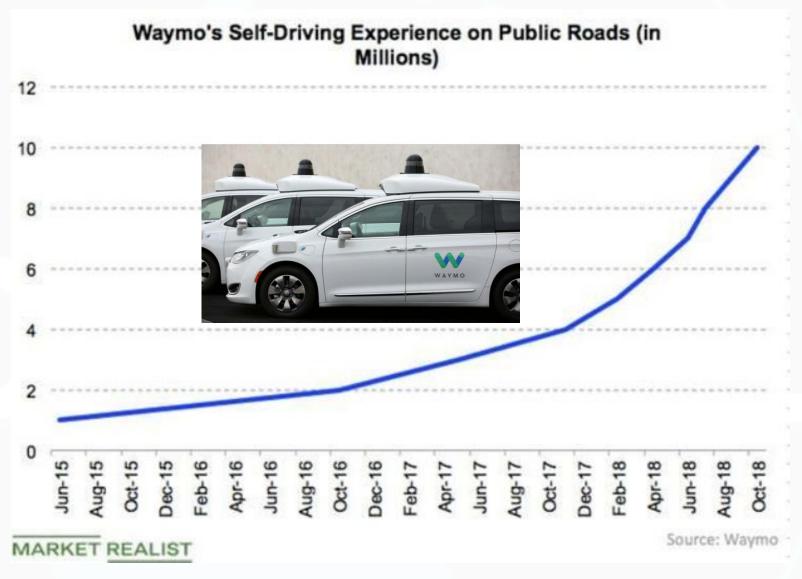


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Autonomous Vehicle



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Cities Are Trying—Again—to Plan for Autonomous Vehicles

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Waymo to customers: 'Completely driverless Waymo cars are on the way'

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Kirsten Korosec @kirstenkorosec / 12:38 am SAST • October 10, 2019



Autonomous Vehicle

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Hyundai is investing \$35 billion in autonomous driving and electric cars



By Julia Horowitz and Sherisse Pham, CNN Business

Updated 1431 GMT (2231 HKT) October 15, 2019



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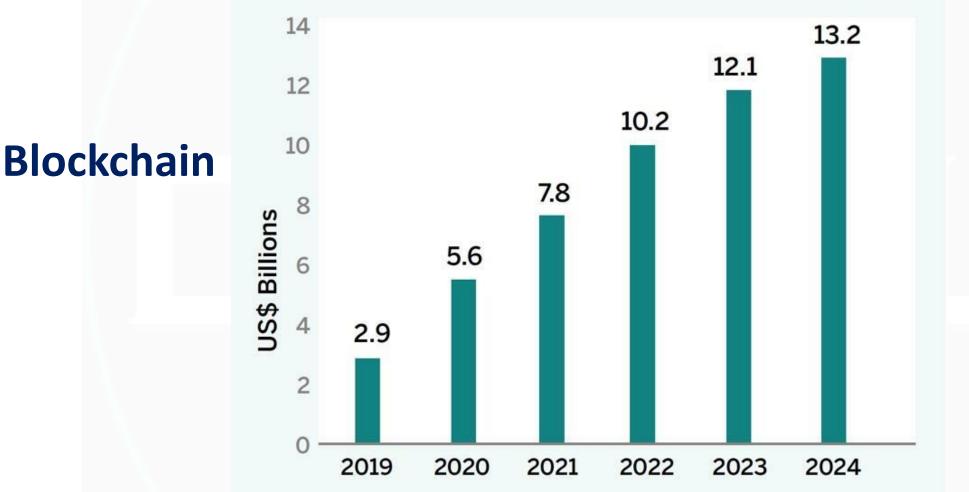
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Blockchain / Cryptocurrency

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T

Should central banks issue digital currency? Suddenly, it's an urgent question.

Stable digital currencies—and particularly Facebook's plans to launch one—have central bankers playing defense.

by Mike Orcutt

Oct 3, 2019

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A Revolutionary Blockchain Solution for Cross-Border Business



Oct 11, 2019, 18:18 ET



MIAMI, Oct. 11, 2019 /PRNewswire/ -- We were fortunate enough to catch up with Salim Ismail, a serial entrepreneur who has helped companies like TD Ameritrade, Black & Decker, HP, and Visa move leadership, culture, and management thinking three years ahead in just ten weeks by implementing his methodology for exponential growth.

In our discussion with Salim, we learned about his blockchain-related venture, OpenExO. <u>OpenExO</u> gives individuals, businesses, and governments the tools they need to succeed in today's world by immersing them in a community of thought-leaders, innovators, futurists, coaches, speakers, and entrepreneurs that help them grow exponentially—just like the companies Salim has assisted.

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Blockchain Oct 11

The wheels may be coming off Facebook's digital currency project Libra



Facebook's digital currency plans took a major hit today as Visa, Mastercard, eBay, and Stripe have followed PayPal's example and <u>backed out</u> of the nonprofit Facebook set up to manage the currency.

Blockchain

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Blockchain Oct 16

Bitcoin surveillance helped feds take down a massive child abuse site

10.00.00

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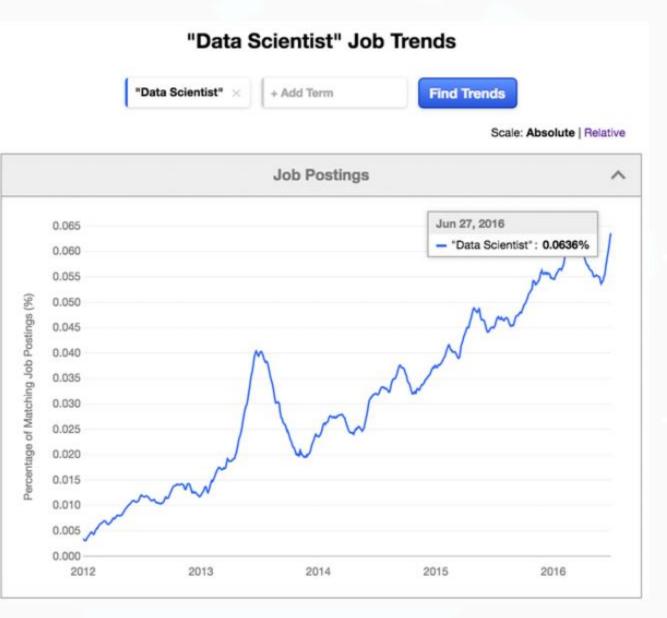
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Data Science

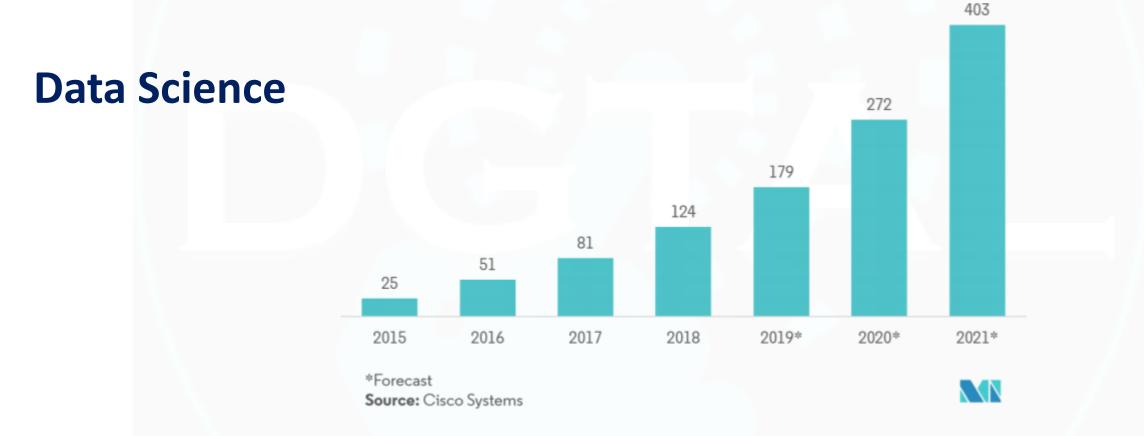


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Volume of Big Data in Data Center Storage, in Exabytes, Global, 2015 – 2021*

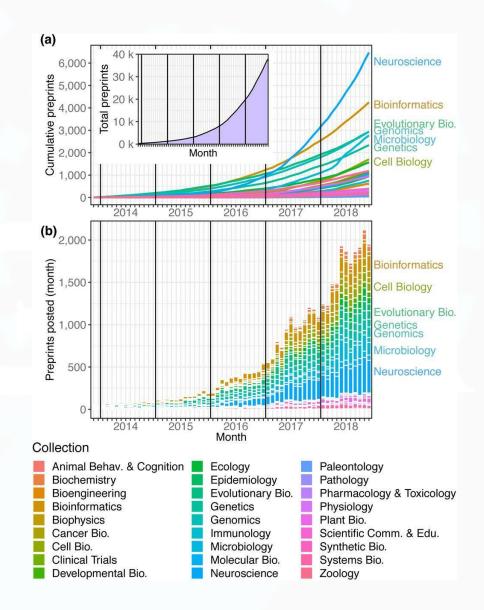


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Digital Biology and Biotechnology



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interrog	gating the human genome to	Sections Figures References
Digital Biology fy drug pathways associated with potentially functional, population-		Abstract
potenti	ally functional, population-	Introduction
and potentially functional, population- differentiated polymorphisms		Materials and methods
		Results
Biotechnology	©GVLee [™]	Discussion
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Paralysed man moves in mind-reading exoskeleton

By James Gallagher Health and science correspondent

() 4 October 2019

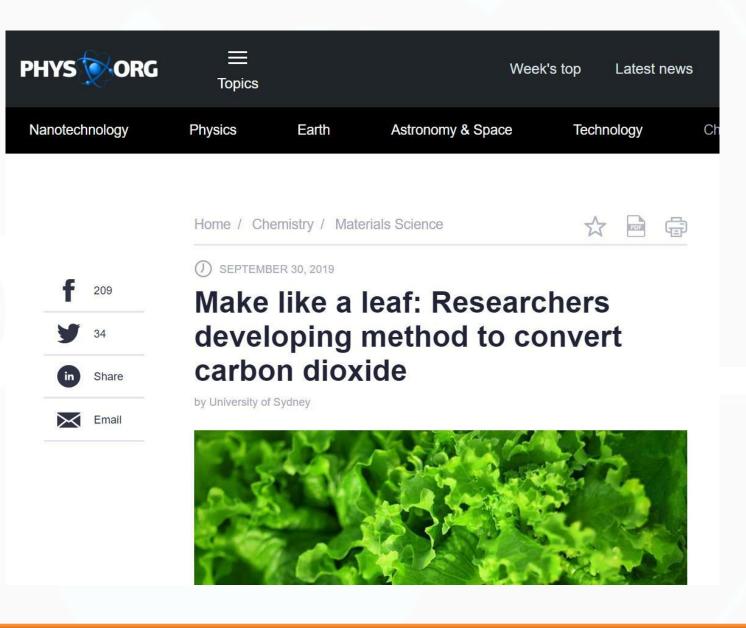


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Digital Biology and Biotechnology







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International Space Station

First meat grown in space lab 248 miles from Earth

Israeli company successfully cultures bovine cells on International Space Station





Bovine cells onboard the International Space Station were grown into small-scale muscle tissue using a 3D Shutterstock

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NEWS • 21 OCTOBER 2019

nature

International journal of science

Super-precise new CRISPR tool could tackle a plethora of genetic diseases

and system allows researchers more control over DNA changes, potentially opening up conditions that have challenged gene-editors. Biotechnology

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Heidi Ledford

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Scientists Are Literally Spinning Up Lab-Grown Meat

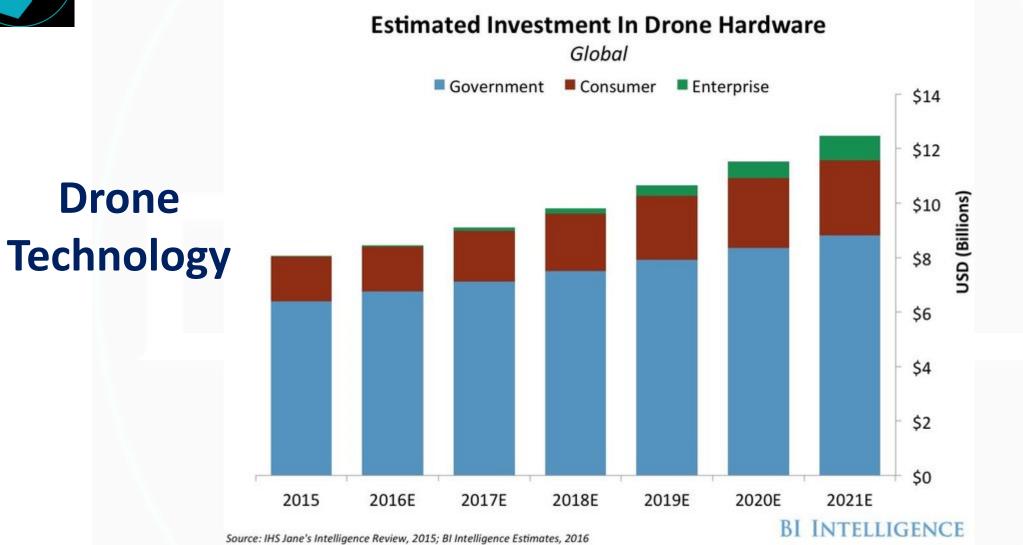
Researchers take inspiration from cotton candy to make a gelatin scaffolding, which could help realize the dream of more sustainable steaks and chicken breasts.



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Smart Cities 1h

UPS has won approval to run the first drone delivery airline in the US

Drone Technology



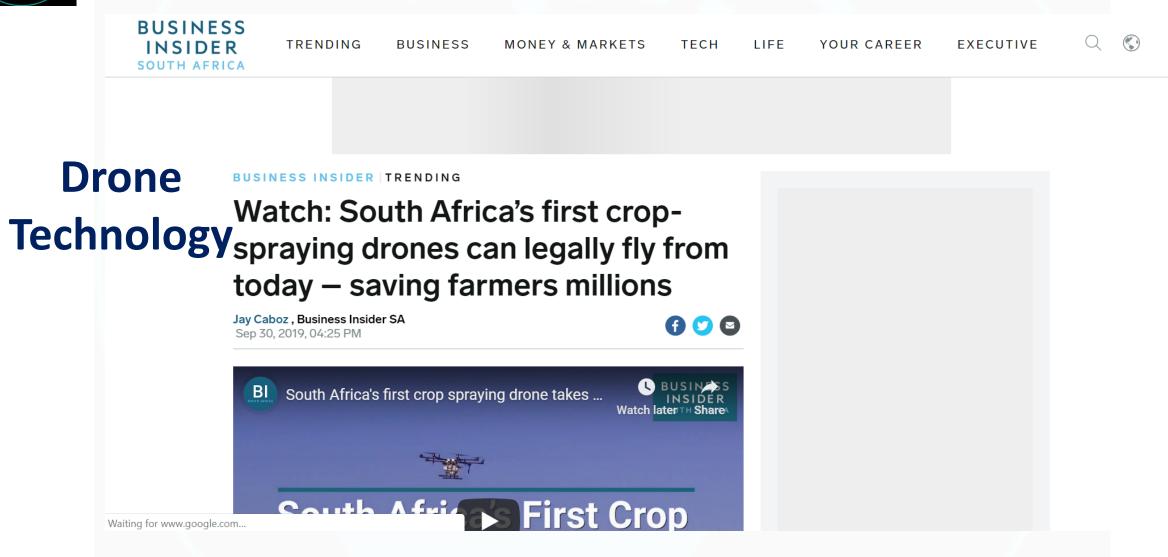
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China's stealth drones and hypersonic missiles surpass – and threaten – the U.S.

Despite starting technologically well behind America, China has developed new systems faster and more cheaply to fend off the U.S. in East Asia.



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Drone Technology

♠ > News

Rogue drones to be targeted by new hi-tech 'detect and destroy' unit set up by Home Office





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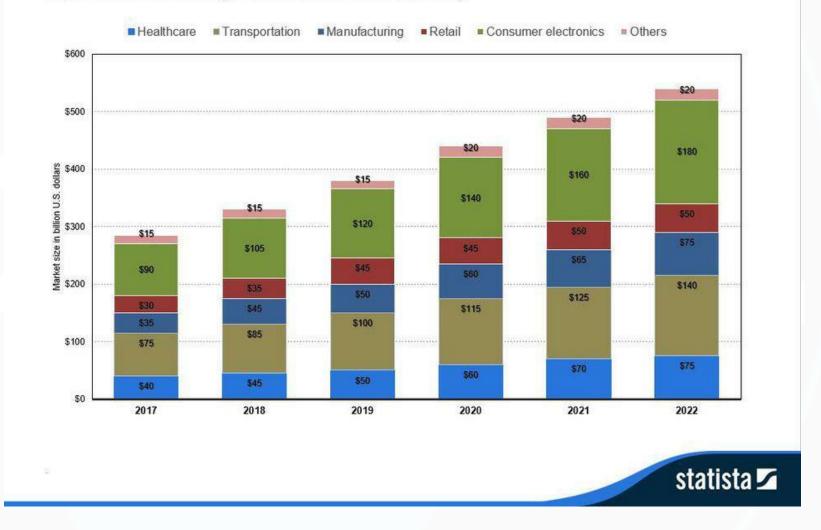


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IoT Market Revenue by Application in North America 2017-2022

Size of the Internet of Things (IoT) Market by Application in North America from 2017 to 2022 (in billions of U.S. dollars)

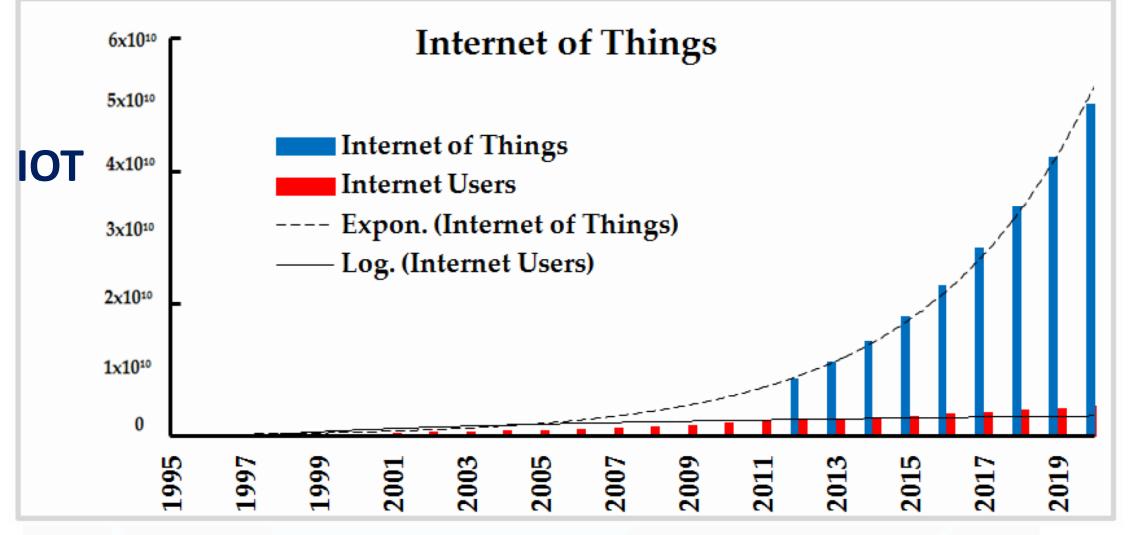


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Photovoltaic-powered sensors for the 'Internet of Things'

Week's top

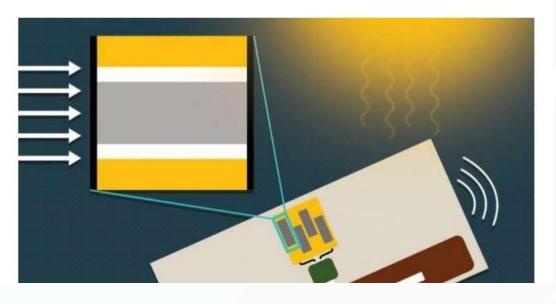
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by Rob Matheson, Massachusetts Institute of Technology



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Business



Will the rise of IoT and slowing of Moore's Law contribute to climate change?

DEAN TAKAHASHI @DEANTAK OCTOBER 19, 2019 8:45 AM

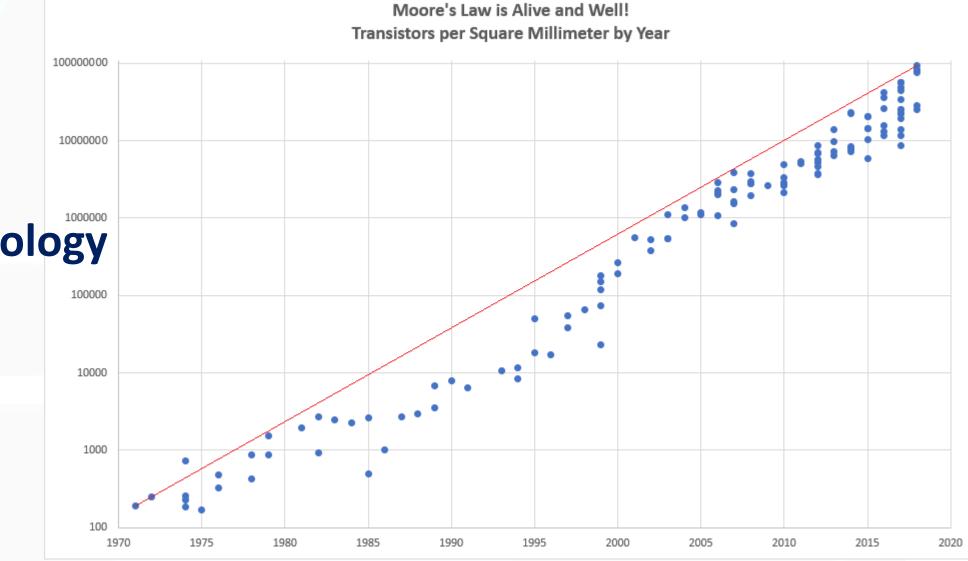


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Quantizing single-molecule

Scattering with DNA origami

surface enhanced Raman

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Fast & Flawless 3D Scanning



Scan Objects in Full Color 5 Minutes or Less with True Portability and Unrivaled Accuracy

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Quantizing single-molecule surface enhanced Raman Scattering with DNA origami metamolecules

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metamolecules by Thamarasee Jeewandara, Phys.org





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1971 - 2,300 transistors at \$1 each

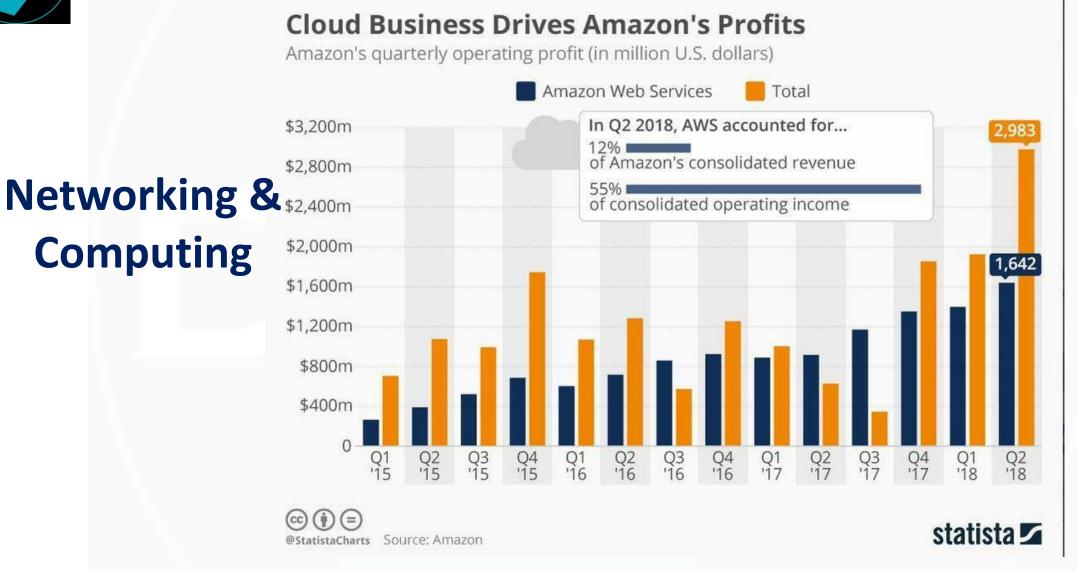
2017 - 4.4 billion transistors at less than a millionth of a penny each

2025 - 72 qubits

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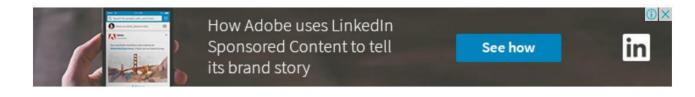
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Computing could be key to speeding up Africa's development

Cloud computing – the delivery of sophisticated information technology capabilities over the internet – could play a crucial role in both innovation and efficiency in Africa.



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US news

Networking & Computing

Agencies Sat 26 Oct 2019 07.12 BST



Pentagon awards \$10bn cloud computing deal to Microsoft, snubbing Amazon

Donald Trump said in August his administration would 'take a very long look' at contract, after public swipes at Amazon



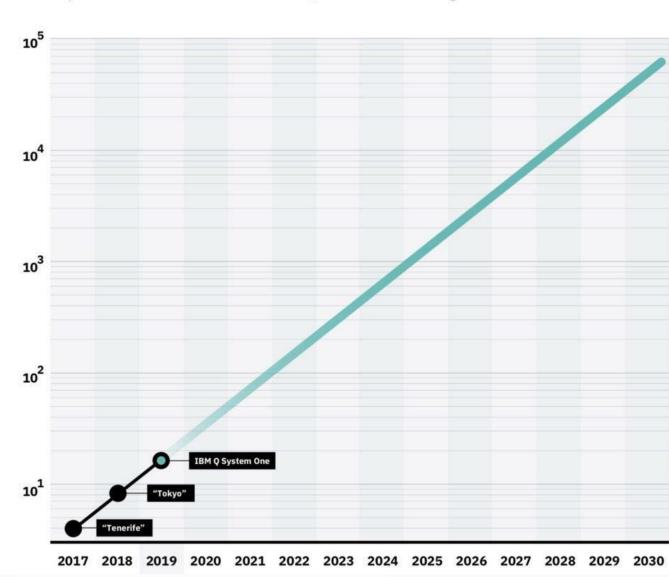
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Quantum Computing

Quantum volume



Exponential Forecast for Growth of Quantum Processing Power

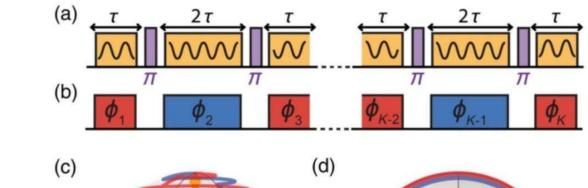
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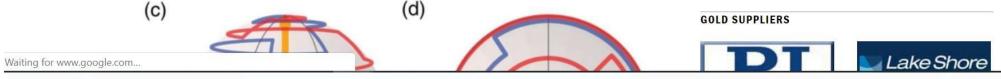


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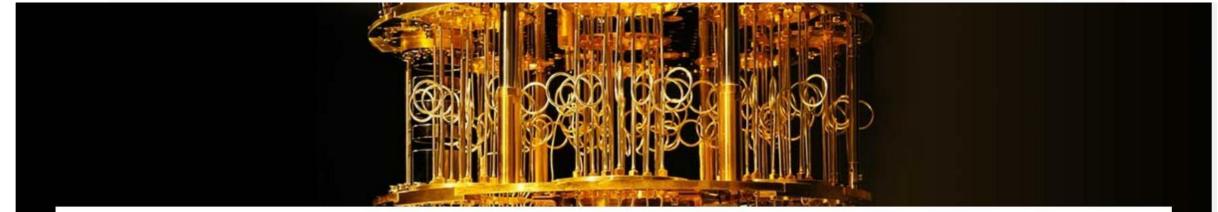




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Barclays demonstrates proof-of-concept quantum clearing algorithm

Barclays and IBM researchers publish paper on a quantum computing algorithm for

Quantum



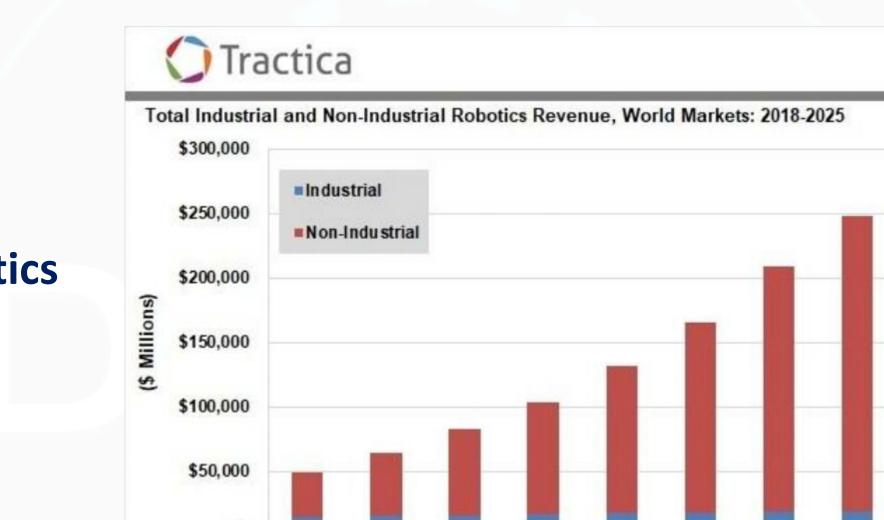
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Computing

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Robotics



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Source: Tractica

2018

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2020

2021

2022

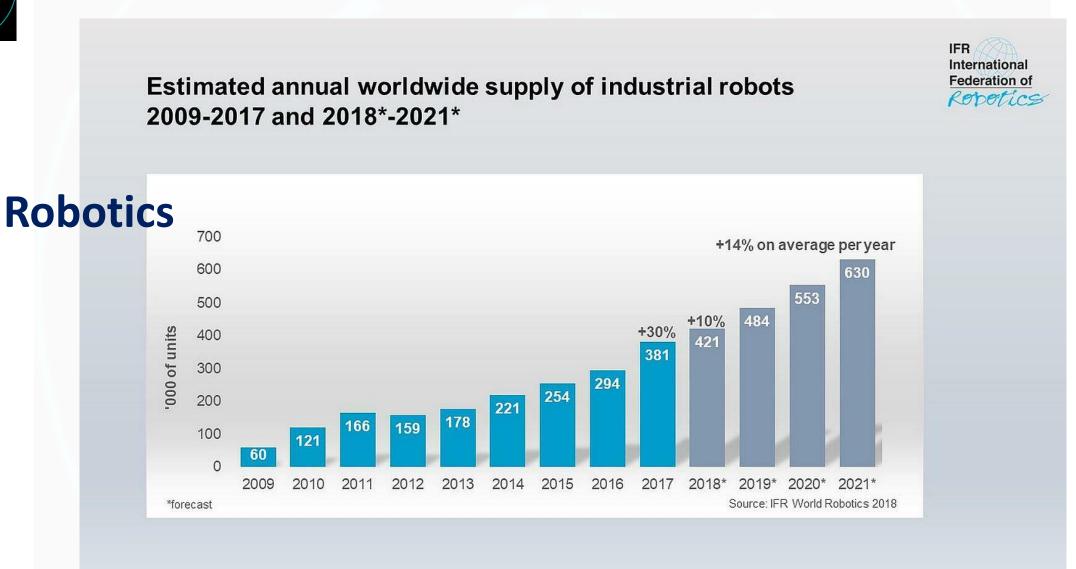
2023

2024

2025

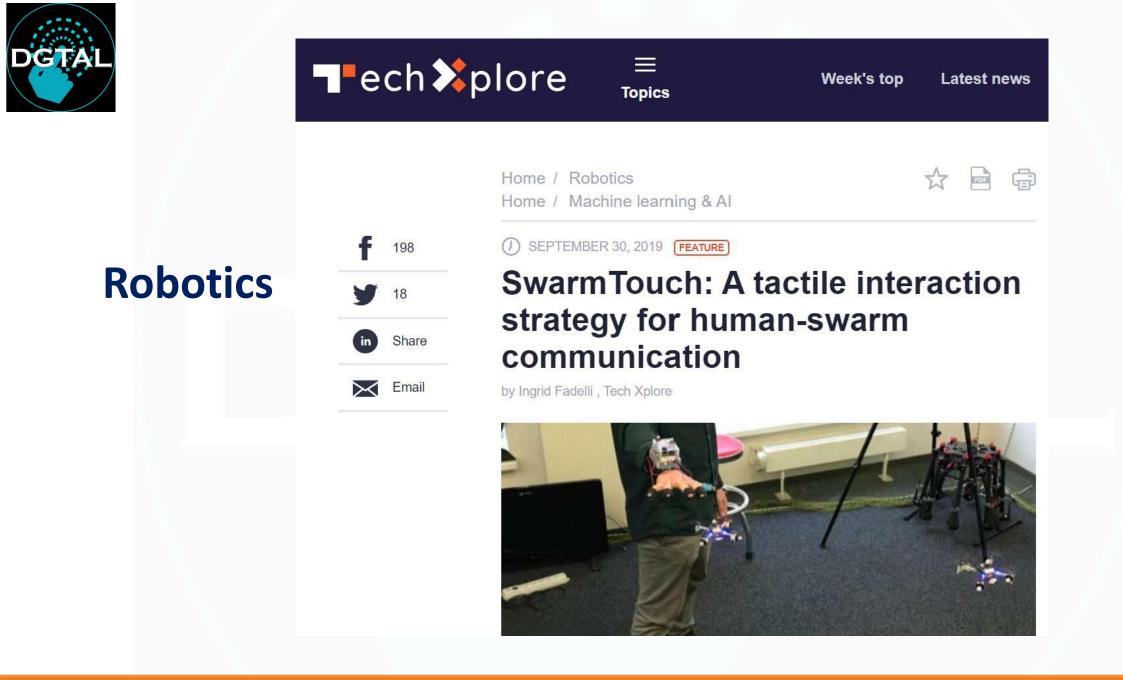
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Robot hand solves Rubik's cube, but not the grand challenge



() 15 October 2019

North America technology reporter

Dave Lee

Robotics



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MIT develops a way for robots to grasp and manipulate objects much faster

Darrell Etherington @etherington / 3 days

Robotics



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Robotics



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SEARCH

by **N.F. Mendoza** in **Artificial Intelligence A** on October 23, 2019, 2:37 PM PST

CloudMinds XR-1 5G humanoid robots perform intricate manual tasks at the Sprint exhibit at MWC19 Los Angeles.

Who needs to use that delicate tiny sewing staple, when there's now a robot that can thread a needle for you? CloudMinds XR-1, 5G Humanoid Robots with vision-controlled grasping tech and intricate manual tasks, interacted with guests at the Sprint exhibit at the Mobile World Congress 2019 Los Angeles (MWC19) in Los Angeles



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