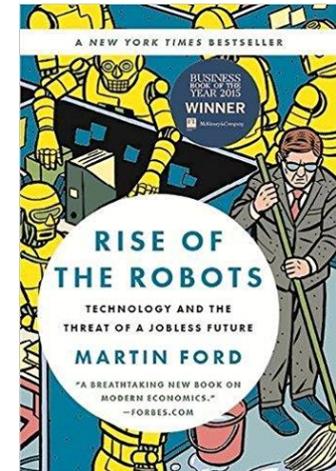
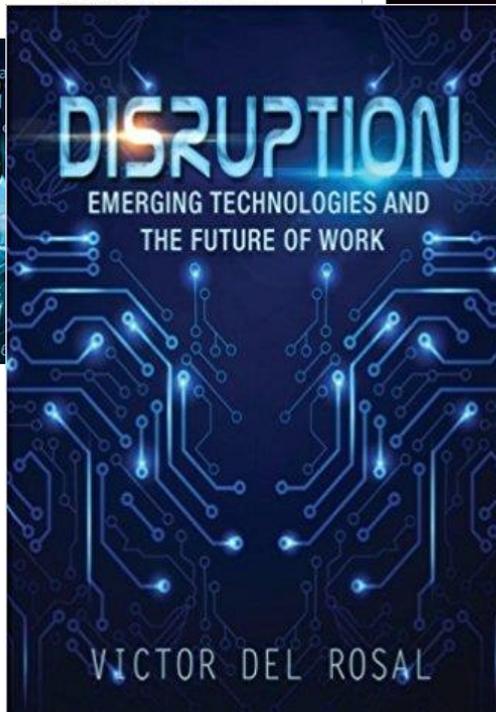
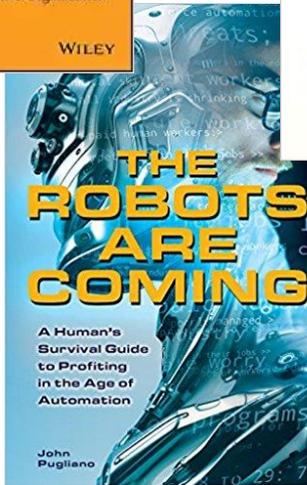
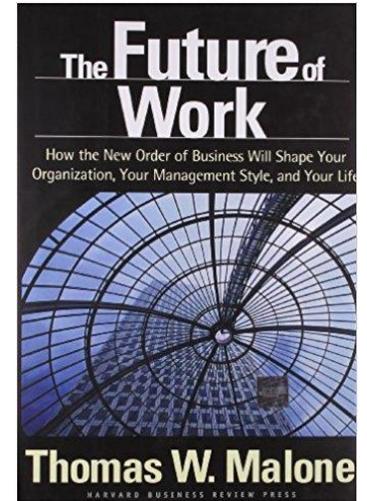
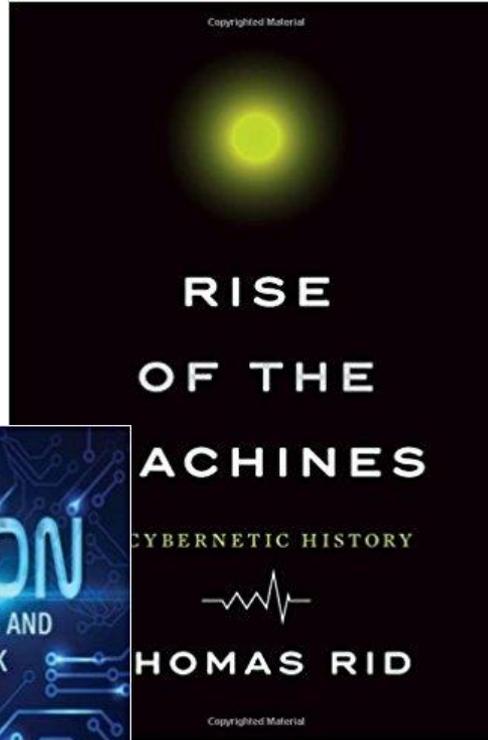
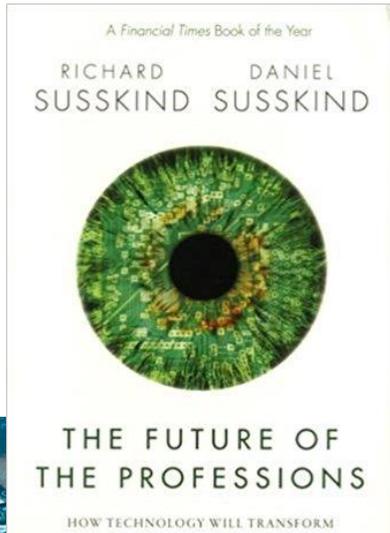
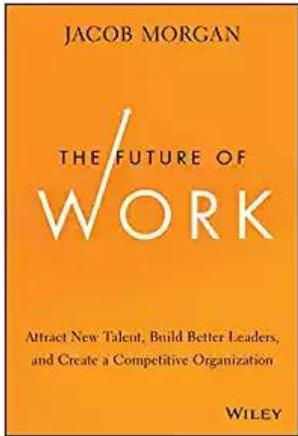


AI and Robotics and The Impact on Public Administration Work Group

NAPA STANDING PANEL ON TECHNOLOGY
LEADERSHIP







Robots 'to take 50% of our jobs by 2050 and outperform humans at almost anything'

Prof Moshe
lack of direct

e of a



06.12.15

This Calculator Will Tell You If A Robot Is Coming For Your Job

The answer is yes. The real question is when.



This Calculator Will Tell You If A Robot Is Coming For Your Job

The answer is yes. The real question is when.

BY ADELE PETERS 3 MINUTE READ



Is a robot coming for your job? Now you can find out via an algorithm, appropriately. A handy calculator from NPR, based on research from

WILL ROBOTS TAKE MY JOB?

ABOUT

Enter your job

or show [random example](#)



1.5%



Toptal matches you with top developers who are guaranteed to succeed.

ADS VIA CARBON

Chief Executives

SOC CODE: 11-1011.00

Determine and formulate policies and provide overall direction of companies or private and public sector organizations within guidelines set up by a board of directors or similar governing body. Plan, direct, or coordinate operational activities at the highest level of management with the help of subordinate executives and staff managers.

AUTOMATION RISK LEVEL

Totally Safe

or 1.5% probability of automation

PROJECTED GROWTH

-1%

by 2024

MEDIAN ANNUAL WAGE

\$181,210

or \$87.12 hourly

PEOPLE EMPLOYED

223,260

as of 2016

66%



Toptal matches you with top developers who are guaranteed to succeed.

ADS VIA CARBON

Janitors and Cleaners, Except Maids and Housekeeping Cleaners

SOC CODE: 37-2011.00

Keep buildings in clean and orderly condition. Perform heavy cleaning duties, such as cleaning floors, shampooing rugs, washing walls and glass, and removing rubbish. Duties may include tending furnace and boiler, performing routine maintenance activities, notifying management of need for repairs, and cleaning snow or debris from sidewalk.

AUTOMATION RISK LEVEL

Robots are watching

or 66% probability of automation

PROJECTED GROWTH

6%

by 2024

MEDIAN ANNUAL WAGE

\$24,190

or \$11.63 hourly

PEOPLE EMPLOYED

2,161,740

as of 2016

Who Will Be Replaced?

- Janitorial
- Security
- Food services
- Receptionists
- Help desk



NEWS
Robots to haul luggage, and fight crime, in train stations

by **Bonnie Burton** Jul 10, 2017, 11:49 AM / [@bonniegrl](#)

Who needs humans when robots are ready to help? East Japan Railways hopes its bots will be the perfect solution to solving travelers' common complaints.

- Sigora Solar**
No Money Down, Low Monthly Payments and You Start Saving from Day 1!
[sigorasolar.com](#)
- Manage Firewall Security**
Analyze firewall configuration to Prevent network security breach
[manageengine.com](#)
- Lyft™ \$1000 Driver Bonus**
Earn Tips & Make Up To \$35/Hour Driving with Lyft. Limited Time Offer - Apply Now!



IMAGE CREDIT: iStock.com/MartialRed

Robots and Autonomous Vehicles are coming!

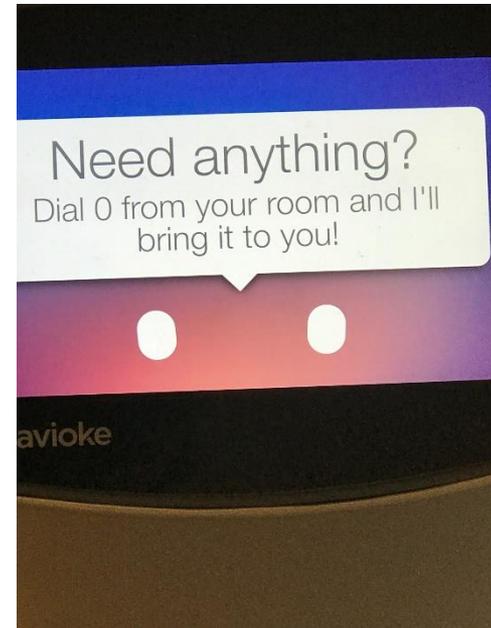
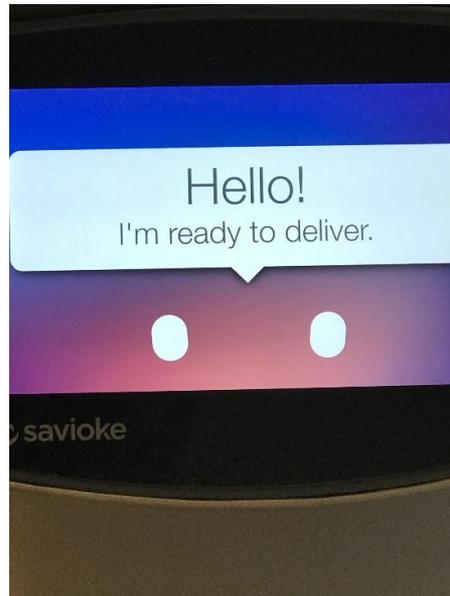










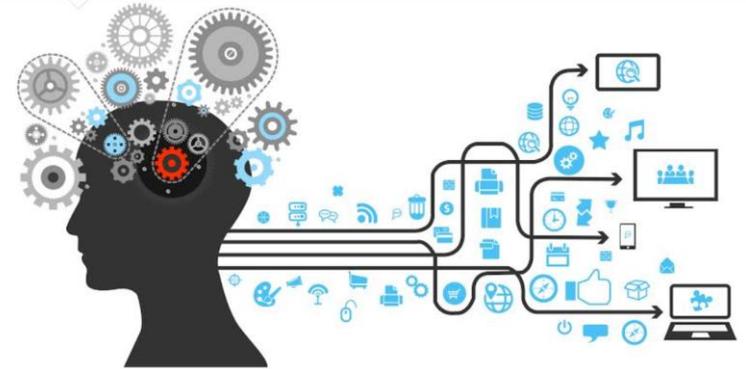


Robots.....

- Don't call in sick
- Do not join unions (yet!)
- Do not need holidays or breaks
- Can work 24/7
- Never complain
- Not bothered by repetition
- Does not put off making decisions!

Robotics and Artificial Intelligence





ar·ti·fi·cial in·tel·li·gence

noun

the theory and development of computer systems able to perform tasks that normally require human intelligence, such as visual perception, speech recognition, decision-making, and translation between languages.



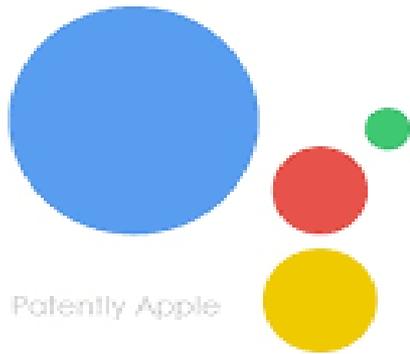
Intelligent Voice Response and Interaction



Hey Siri



amazon alexa



Google Assistant

Patently Apple



Bixby

INTERACTIVE

SELF-SERVICE

HOLOGRAMS



Artificial Intelligence is Coming!



VIRTUAL RECEPTIONIST

The PRSONAS *Virtual Receptionist* greets visitors, presents a searchable staff directory and notifies an employee of a visitor via mobile text message.



PRODUCT SPECIALIST

A hologram *Product Specialist* from PRSONAS delivers self-service applications, show demo videos, texts customers information and coupons and collects analytics.



VIRTUAL CONCIERGE

A *Virtual Concierge* hologram from PRSONAS delivers self-service applications, provides way finding directions, checks visitors in and displays videos.

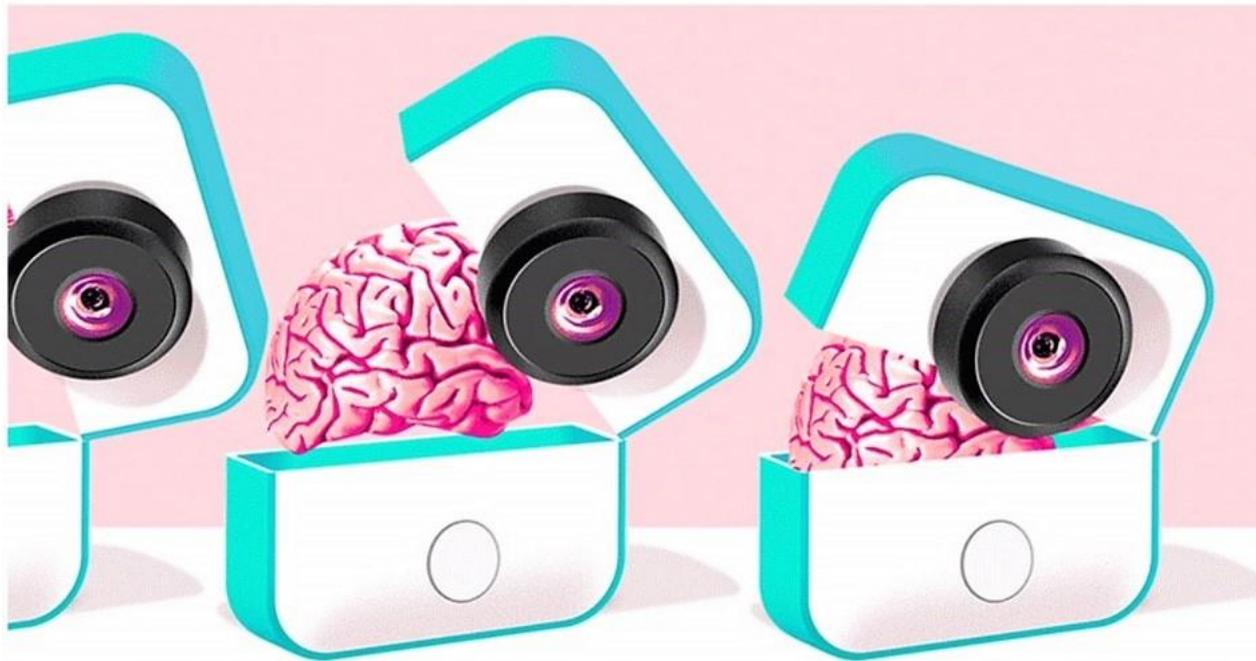
TECHNOLOGY

The Sublime and Scary Future of Cameras With A.I. Brains



Farhad Manjoo

STATE OF THE ART FEB. 27, 2018

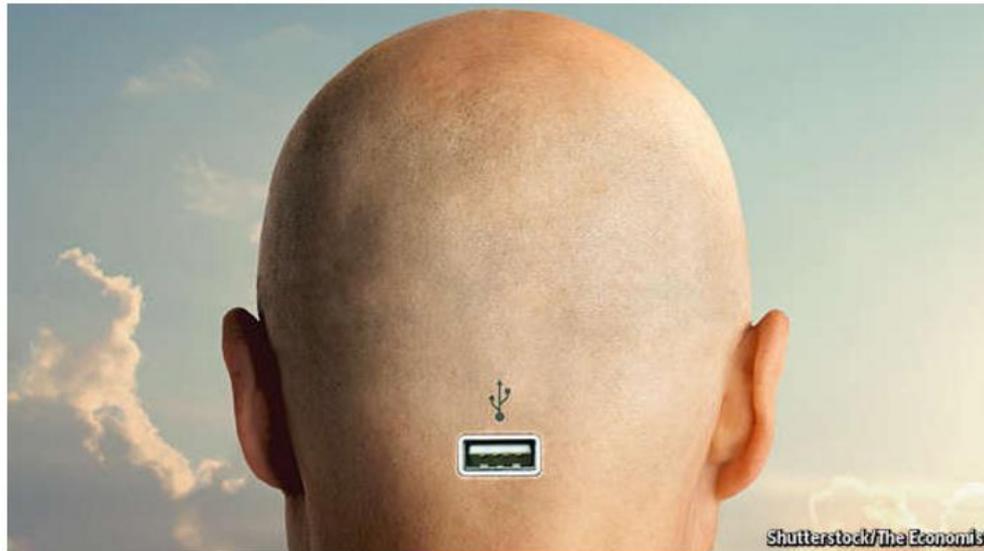


Clever computers

The dawn of artificial intelligence

Powerful computers will reshape humanity's future. How to ensure the promise outweighs the perils

May 9th 2015

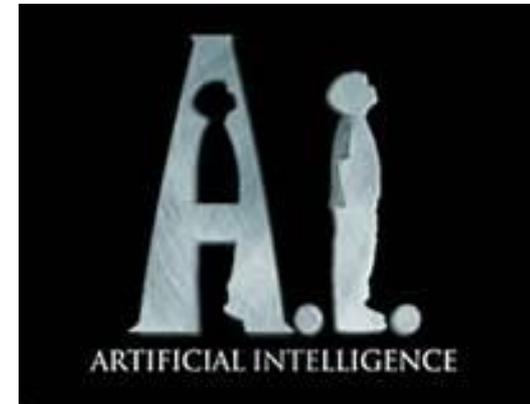


"THE development of full artificial intelligence could spell the end of the human race," Stephen Hawking warns. Elon Musk fears that the development of artificial intelligence, or AI, may be the biggest existential threat humanity faces. Bill Gates urges people to beware of it.

Dread that the abominations people create will become their masters, or their executioners, is hardly new. But voiced by a renowned cosmologist, a Silicon Valley

Artificial Intelligence has grown because of...

1. Advancements in complex algorithms.
2. Dramatic Increase in speed and computing power.
3. Ability to digest data from various sources.
4. Ability to store and retrieve massive amounts of data.



7 State or Local Governments Using Amazon Alexa

Uses range from giving advice on driver's license exams to traffic updates, as the list of municipal government skill sets available on the platform continues to expand.

BY ZACK QUAINANCE / SEPTEMBER 27, 2017



LOCAL FORD DEALERS' PRESIDENTS' DAY SALES EVENT



2018 ESCAPE SE FWD

\$229 A MONTH / 39 MONTH RED CARPET LEASE

\$2,769 CASH DUE AT SIGNING*

CURRENT OFFERS

BUILD & PRICE

MICROSOFT \ APPS \ TECH \

Microsoft's new iPhone app narrates the world for blind people

9

The app uses AI to recognize people, objects, and scenes

By James Vincent | @jjvincent | Jul 12, 2017, 8:41am EDT

f   SHARE





HOME >> SOFTWARE

SOFTWARE

State and Local Governments Tap Chatbots to Slash Staff Workloads

Conversational tools are improving citizen engagement and freeing up personnel to focus on innovation.

by [Kevin Cucuel](#)

Kevin Cucuel is a Sr. Business Development Strategist for State and Local Government at CDW-G. With a passion for aligning CDW's strengths to our customer's needs, Kevin focuses on the insertion of IT solutions into segment sub verticals and leads emerging market discussions.



WIKIPEDIA
The Free Encyclopedia

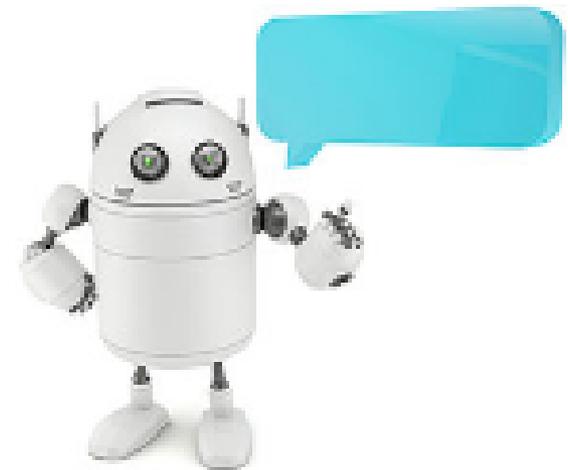
A **chatbot** (also known as a **talkbot**, **chatterbot**, **Bot**, **chatterbox**, **IM bot**, **interactive agent**, or **Artificial Conversational Entity**)





Are Chatbots the Next mHealth Frontier?

BY [LINDY DREYER AND TOREY VANEK](#) | [NOVEMBER 17, 2016](#) | [CONTENT](#),



In April, Facebook made it possible for organizations to use chatbots to send and receive messages from users of Facebook Messenger. That's a big deal. Facebook

Messenger is now used by 900 million people every month. As the name implies, it's a messaging platform that people use to send short messages to each other through [...]

[READ MORE →](#)



(Hanson Rob

World's First AI Citizen in Saudi Arabia Is Now Calling For Women's Rights

It's a little ironic if you think about it.

F DOM GALEON, FUTURISM
15 DEC 2017



NATIONAL ACADEMY OF
PUBLIC ADMINISTRATION®

When the Kingdom of Saudi Arabia granted a citizenship to Hanson Robotics' female-looking robot Sophia, most thought it was just to appeal to the audience of the Future Investment Initiative.



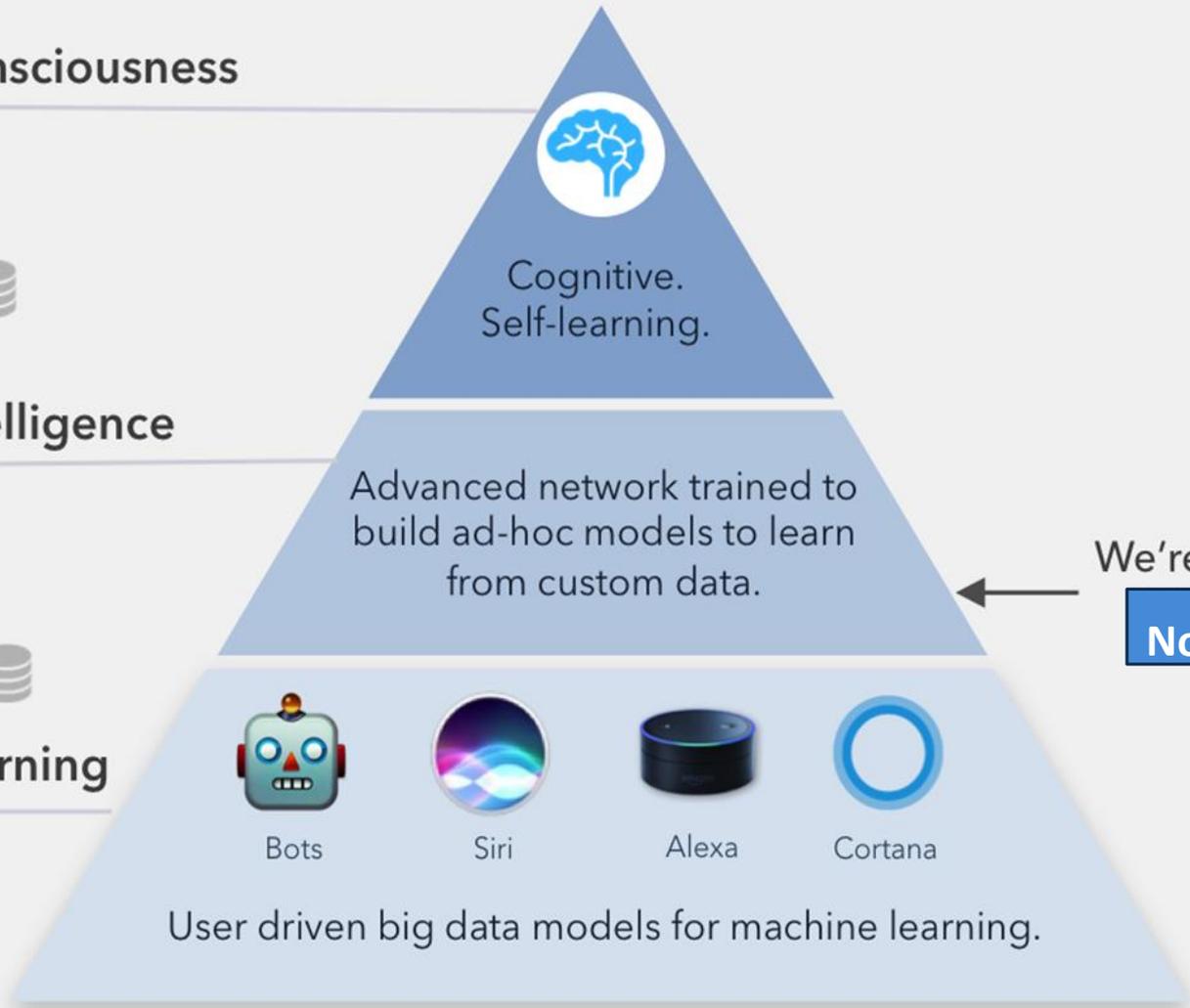
Stage 3: Machine Consciousness



Stage 2: Machine Intelligence



Stage 1: Machine Learning



We're here
Now!

Three Stages of AI



Failed State:
The Sources of
Pakistan's Chaos

The Unseen
Struggle of
Autistic Adults



Summer Arts Preview:
From Harry Potter
To Thomas Pynchon

TIME

The Future Of Work



Throw away the briefcase: you're not going to the office. You can kiss your benefits goodbye too. And your new boss won't look much like your old one. There's no longer a ladder, and you may never get to retire, but there's a world of opportunity if you figure out a new path. Ten lessons for succeeding in the new American workplace.

Will jobs exist in 2050?

Sophisticated machines are fast outpacing jobs. What does this mean for the future of work? And if there are no jobs, what we will do with our time?

Charlotte Seager

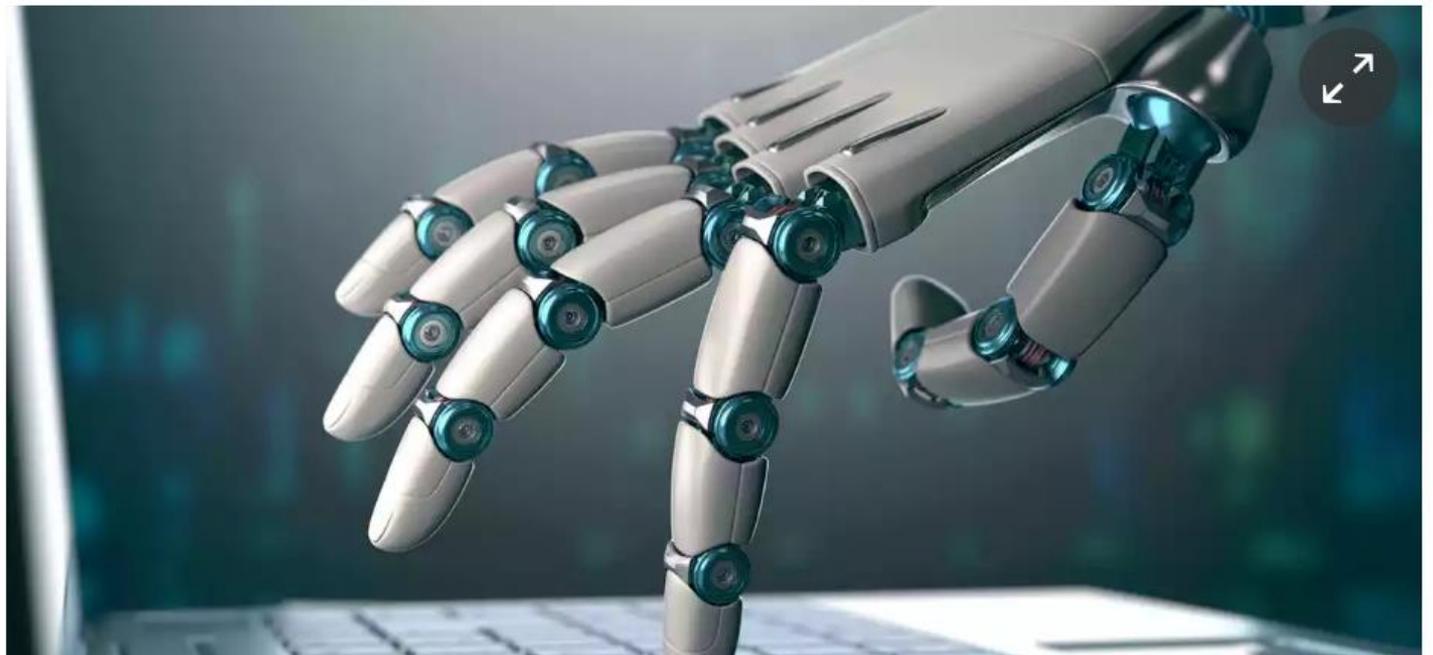
 @CharlotteSeager

 email

Thursday 13 October
2016 02.00 EDT



 855  110



Robotics, AFI - Impact on Government

1

Payroll taxes will decrease as the human work force shrinks.

2

Sales tax revenue declines due to less spending.

3

Real estate taxes will decline as there will be less need for “offices”.

What Can Government Do?

1

Consider taxing robots as humans.

2

Consider training and retraining of workforce.

3

Attract or Expand Community Colleges.

4

Need for new zoning & liability laws and regs for autonomous vehicles.

They Are Already Here...

- Drones
- Cyber security network monitoring
- Automated answering systems
- Robots as greeters
- Policing - predictive crime analytics
- Bomb detection robots
- IoE monitoring devices
- Video surveillance monitoring systems
- Anticipatory engagement
- Voice interaction: Siri, Cortana, Alexa, Google Assistant
- Chatbots
- Autonomous vehicles
- Other?

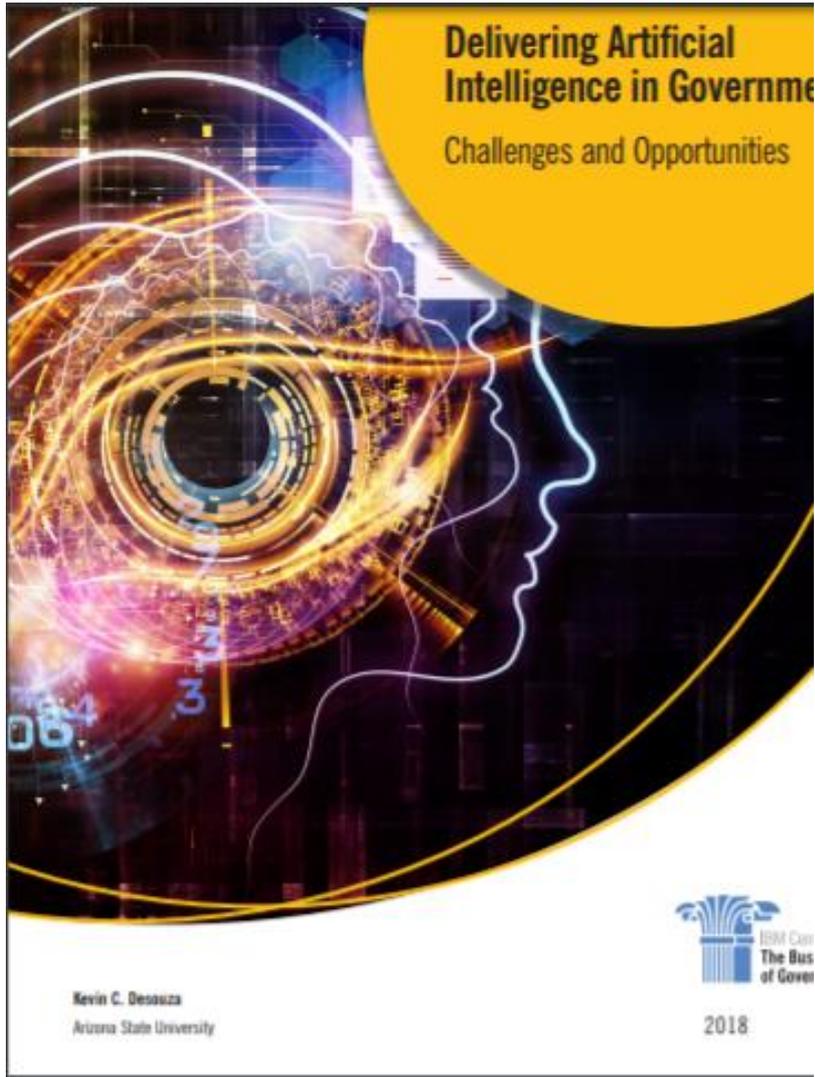
Impact On Society

**Will remove
mundane
repetitive
work.**

**Need to re-
think self-
worth in a
society that
defines us by
what we do.**

**Need to re-think
wealth
redistribution.***

**Need to rethink
the nature of
work, self
actualization,
and self-
respect.**



Issues

- Future of work
- Decision making
- Ethics
- Security
- Citizen engagement
- Planning
- Predicting
- Human override
- Other?

Discussion

