

—— 远虑 | 近忧 | 对策 ——

智能技术的伦理风险

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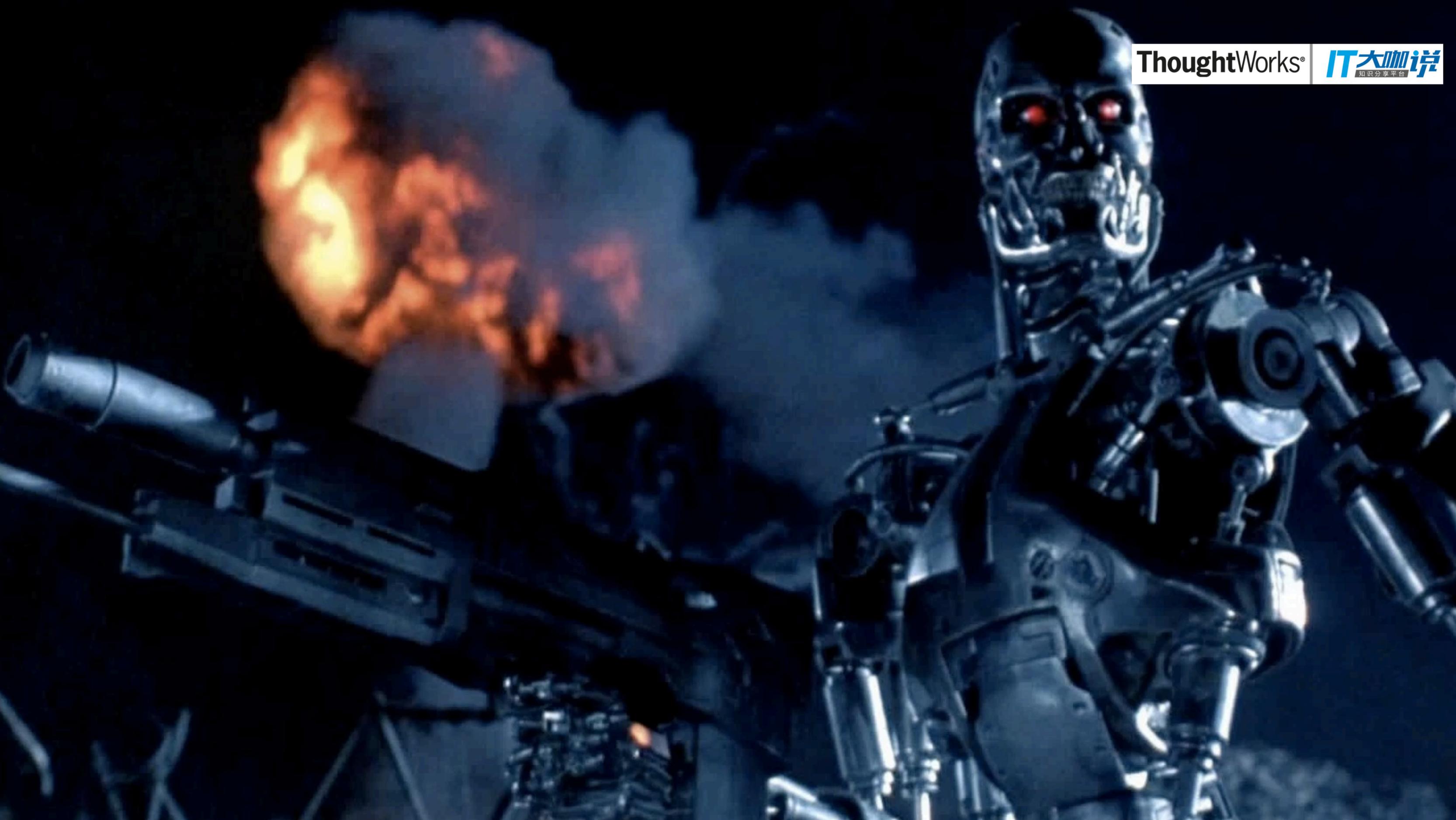
- Robot kills man at plant
- Robot Crushes Contractor to Death at Motor Plant
- Worker Killed By Robot At Plant

- 工厂发生机器人杀人事故
- 一工人被机器人杀死
- 工厂机器人“杀人”了
- 机器人把技术员按倒打死



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机器取代人

EXISTING
JOBS

Jobs today that humans do—but machines will eventually do better.

Current jobs that humans can't do but machines can.

NEW
JOBS

Jobs that only humans will be able to do—at first.

Robot jobs that we can't even imagine yet.

HUMAN

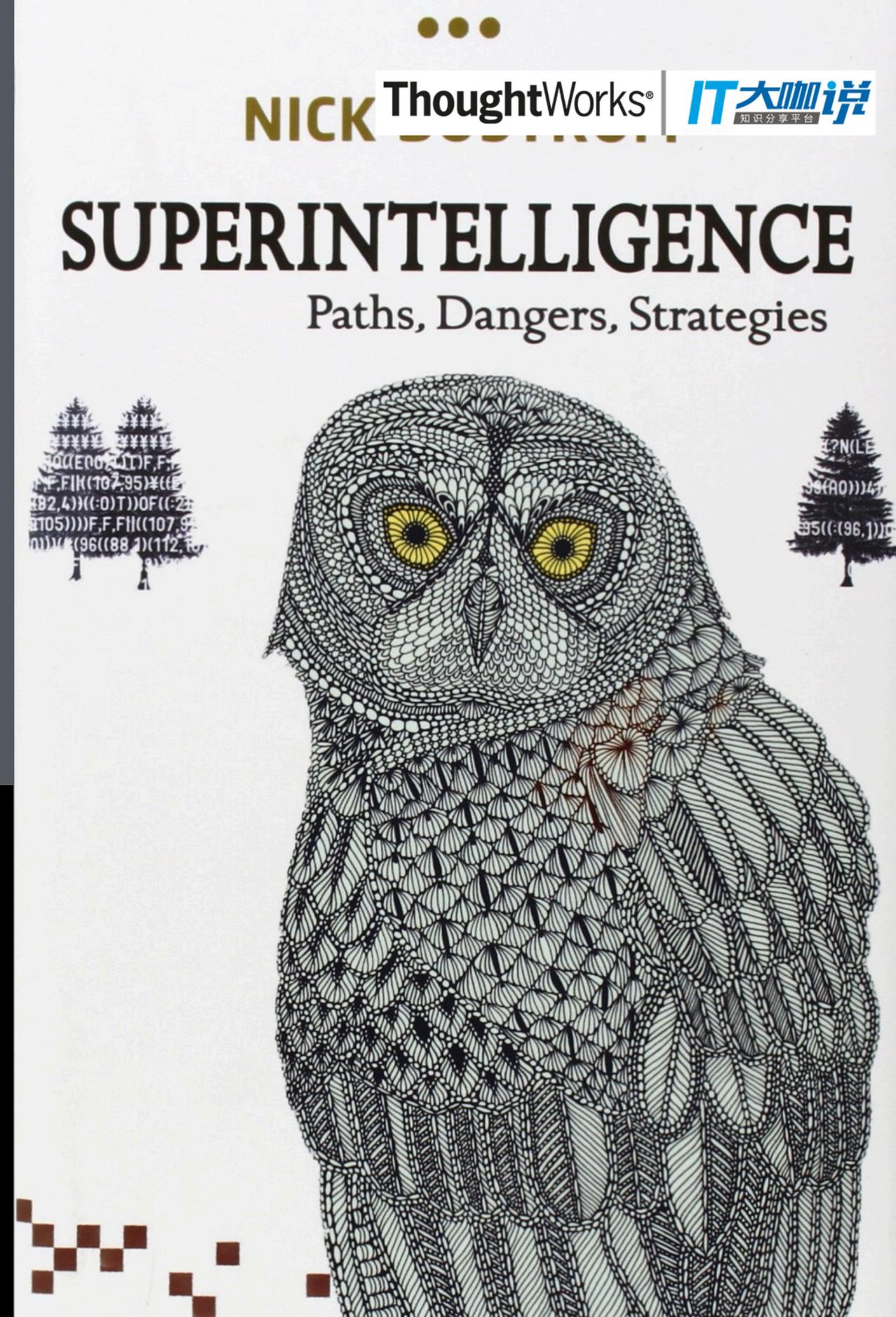
MACHINE



超级智能

如果有一天我们发明了超越人类大脑一般智能的机器大脑.....正如现在大猩猩的命运更多地取决于人类而不是它们自身一样，人类的命运将取决于超级智能机器的行为。

超级智能带来的挑战.....很可能是人类面对的最重要和最可怕的挑战。而且，不管我们成功还是失败，这大概都是我们将要面对的最后一个挑战。

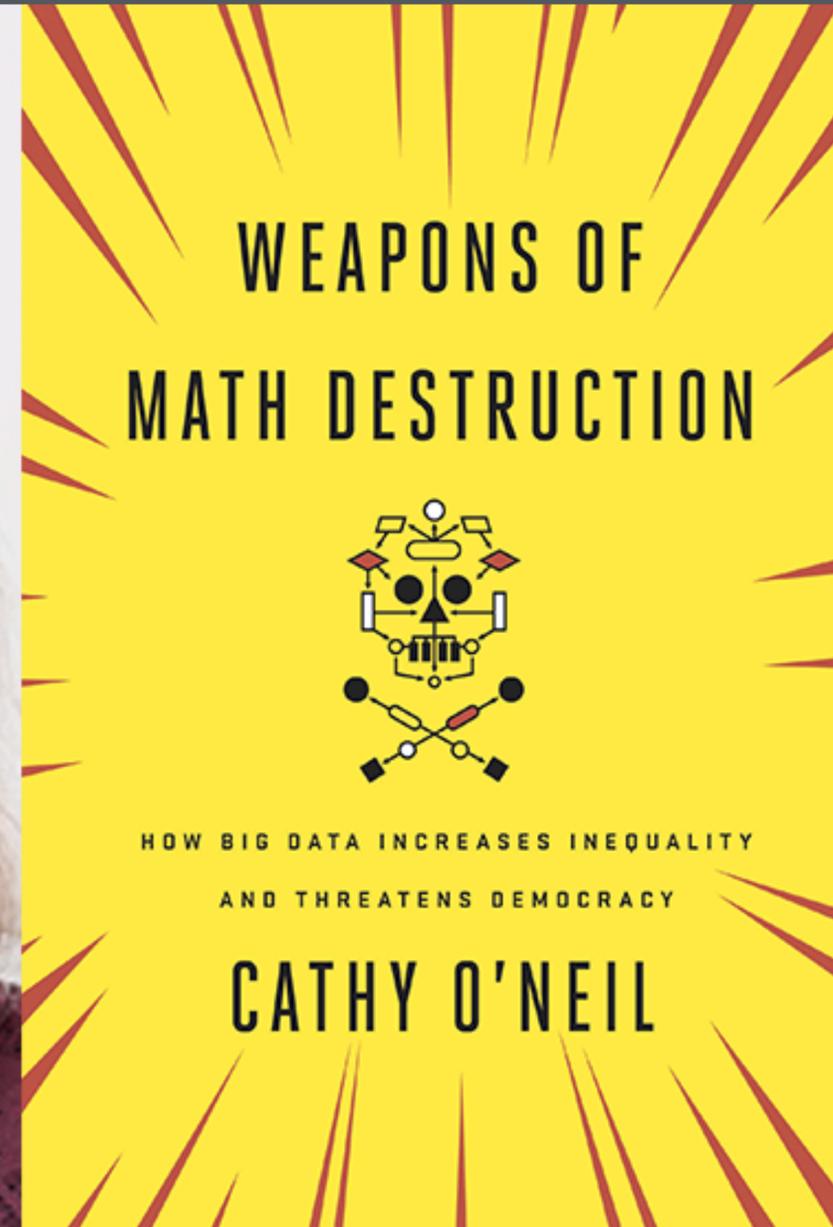




近在眼前的威胁

智能算法工具的危险特征

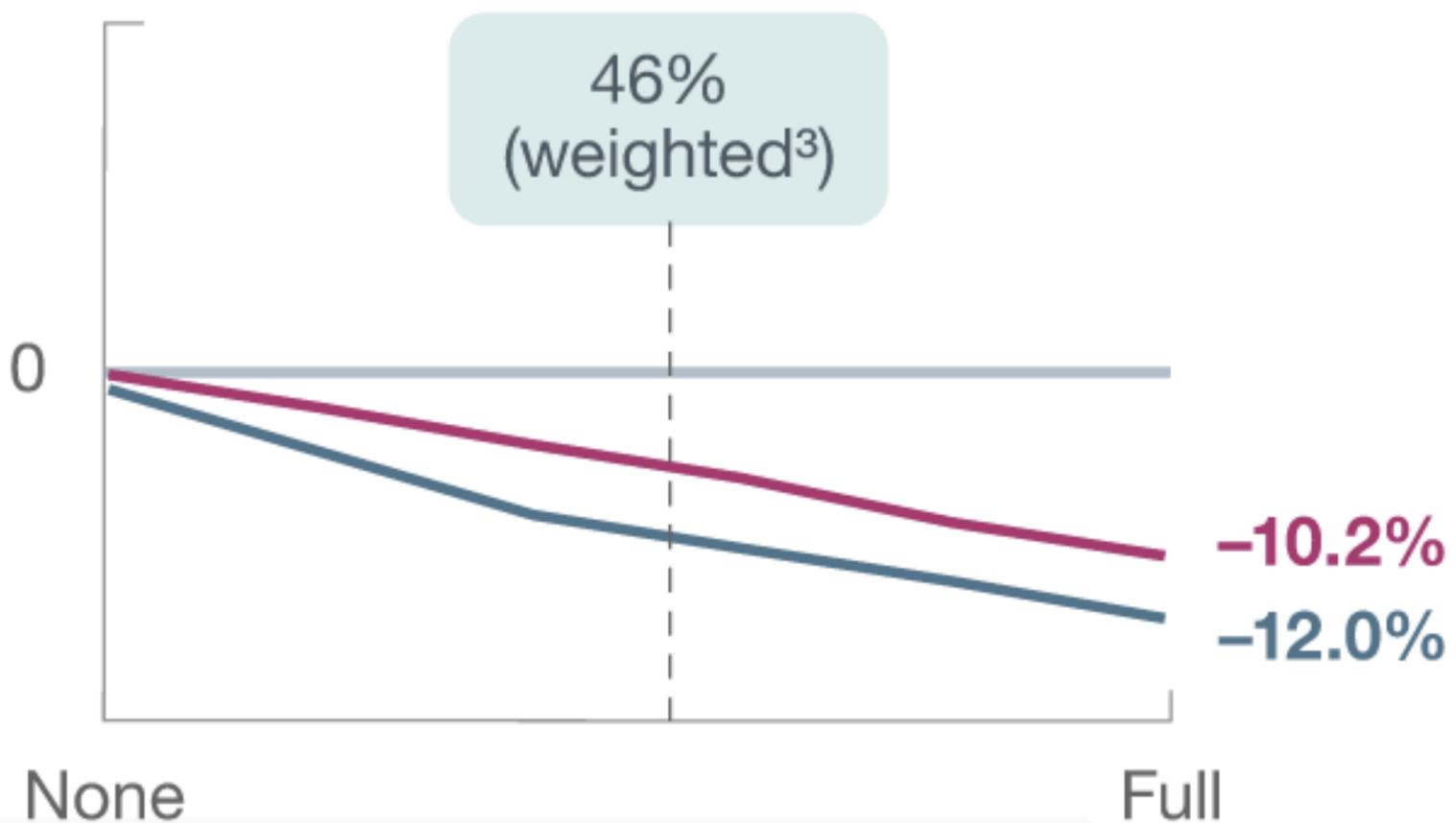
1. 它们是秘密的，经常是某家公司的商业秘密；
2. 它们是不透明的，被它们影响的人群不了解这些算法如何运行；
3. 它们应用的范围很广；
4. 它们对“成功”的定义值得置疑，被它们影响的人们未必赞同；
5. 它们制造了有害的反馈环。



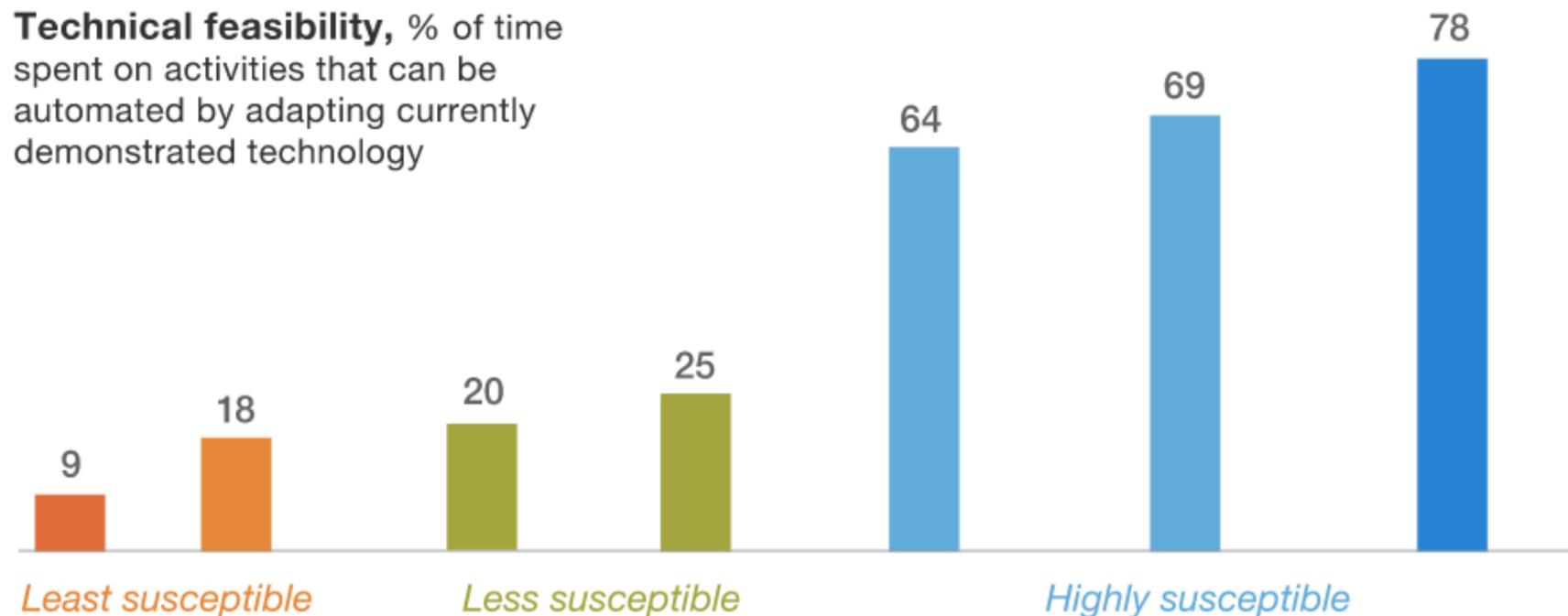


新技术让谁失业

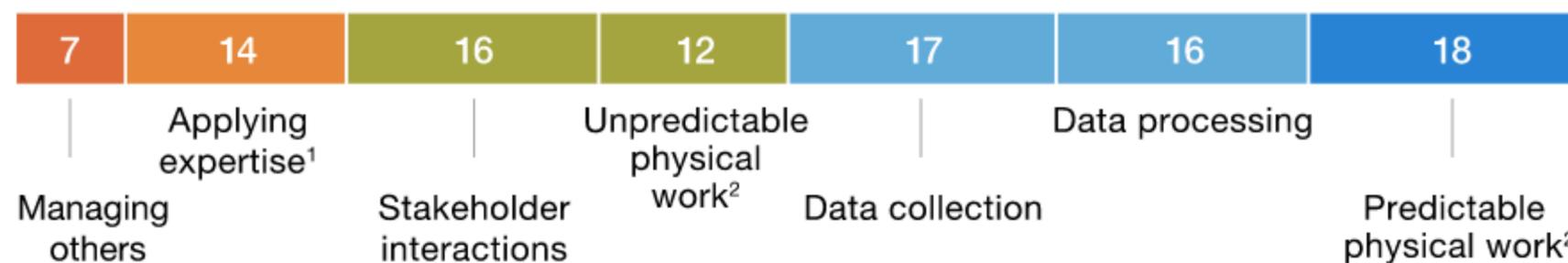
Total digitization



Technical feasibility, % of time spent on activities that can be automated by adapting currently demonstrated technology



Time spent in all US occupations, %



> 16 小时

部分司机劳动时间

> 70 %

半年内司机补贴跌幅

> 50 %

半数以上司机曾参与罢工





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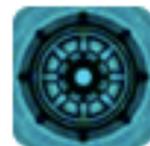
Machine learning is like money laundering for bias

RETWEETS

1,132

LIKES

1,597



11:21 AM - 19 Jun 2016

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“As technology moves forward, it’s eviscerating the already weak reasonable-suspicion standards on the street. It becomes easier for police to justify **stopping people they want to stop, even if what they’re doing isn’t criminal.”**

— ANDREW GUTHRIE FERGUSON, CRIMINAL LAW PROFESSOR

ZIP Lookup

What Your ZIP Code Says About You.



- Tapestry**
- Income
- Age
- Population Density

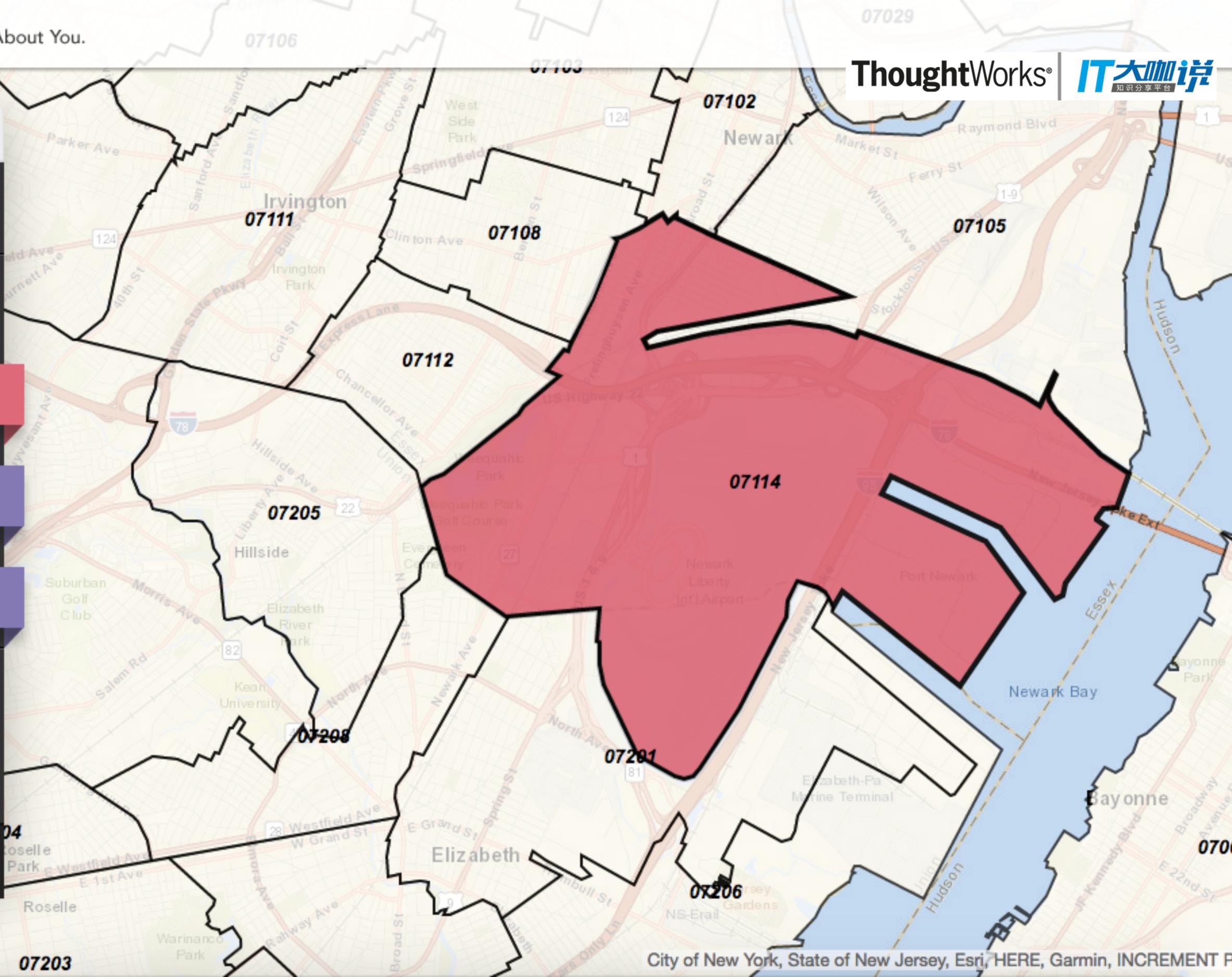
For ZIP Code

Top Tapestry™ Segments

- 31% Social Security Set
- 21% Fresh Ambitions
- 17% International Marketplace

Want to know more? Esri's Tapestry™ Lifestyle Segmentation classifies the US population into 67 market segments and provides comprehensive lifestyle details.

[More about Tapestry](#) [Contact Us](#)



细微处的歧视

☰ stephanie williams 🔍

My Network

Jobs

Interests

2,513 results for **stephanie williams**

Did you mean **stephen williams**?

Some search results have been filtered to improve relevance.

[Show all results](#)

细微处的歧视

The screenshot shows the LinkedIn search interface. At the top, the LinkedIn logo is on the left, and navigation links for Home, Profile, My Network, Jobs, and Interests are in the center. On the right, there are links for Business Services and Try Premium for free. A search bar contains the text "andrea williams" with a search icon and an "Advanced" link. To the right of the search bar are notification icons for messages (14) and a profile picture (29). Below the search bar, the search results section shows "1,628 results for andrea williams". A suggestion box asks "Did you mean **andrew williams**?". Below that, a message states "Some search results have been filtered to improve relevance." with a link to "Show all results". On the left side of the search results, there is a sidebar with a "Search" button, an "Advanced" link, and filter options for "All", "People", and "Jobs".

细微处的歧视

genome.gov
National Human Genome Research Institute
National Institutes of Health

Research Funding | Research at NHGRI | Health | Education | Issues in Genetic

Home > About > Office of the Director > Office of Population Genomics > Staff Biographies > Ebony B. Bookman

OPG: Staff Biographies

- Anastasia L. Wise, Ph.D.
- Ebony B. Bookman, M.S.G.C., Ph.D.**
- Erin M. Ramos, Ph.D., M.P.H.
- Heather Junkins, M.S.
- Lucia A. Hindorff, Ph.D., M.P.H.
- Rongling Li, M.D., Ph.D., M.P.H.

Ebony B. Bookman, M.S.G.C., Ph.D.



Epidemiologist
[Office of Population Genomics](#)

M.S. Howard University, 1999
Ph.D. Howard University, 2001

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[Ebony Bookman Truth](#)
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我们应该做什么？

The Cloud

Data Silo

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Data Warehouse

Data Lake







负责任的算法

有人负责
可以解读
可以排错
可以审计
力求公平

BENEFICIAL

PROGRESSIVE

SUSTAINABLE

RESPECTFUL

FAIR



Do we have a culture of continuous improvement and data minimization?



Have we been transparent and inclusive?



Does our use of data benefit consumers as much as it benefits us?

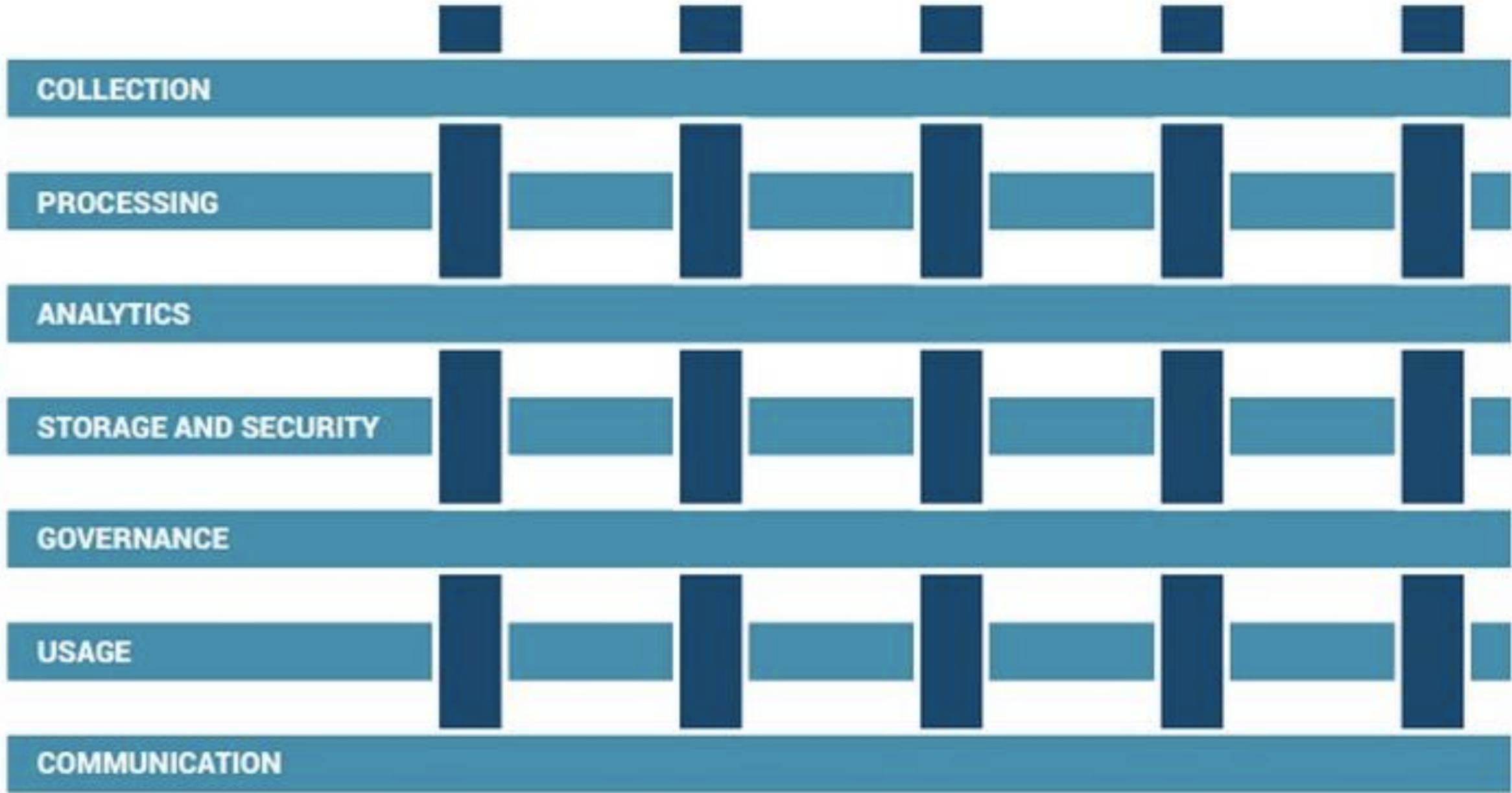


Are the insights we identify with data sustainable over time?



Have we thought through the potential impacts of our data use on all interested parties?

DATA LIFE CYCLE



PRINCIPLES OF ETHICAL DATA USE

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A Market Definition Report

The Trust Imperative: A Framework for Ethical Data Use

June 28, 2019



By Susan Etlinger
with Jessica Groopman

ALTIMETER

The Trust Imperative:
A Framework for
Ethical Data Use

不要收集数据

不要存储数据

不要保留数据



熊节 | 总监咨询师
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