

# Artificial Intelligence and Automation: Towards a World Without Jobs?

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**Thomas Malthus**

# Tsunami of automation

## Employment share at risk by industry

	Low Risk (%)	Medium Risk (%)	High Risk (%)
Accommodation & Food Services	2.8%	10.5%	86.7%
Administrative & Support Services	1.6%	36.2%	62.2%
Agriculture, Forestry, Fishing & Hunting	75.6%	12.0%	12.3%
Arts, Entertainment & Recreation	47.9%	12.5%	39.6%
Construction	21.6%	19.8%	58.6%
Educational Services	63.1%	19.7%	17.2%
Finance & Insurance	28.9%	17.3%	53.7%
Government	46.2%	30.6%	23.2%
Health Care & Social Assistance	39.4%	25.0%	35.6%
Information	51.6%	38.3%	10.1%
Management of Companies & Enterprises	82.8%	6.2%	11.0%
Manufacturing	19.9%	18.4%	61.7%
Mining, Quarrying and Oil & Gas Extraction	7.8%	46.3%	45.9%
Other Services (ex Public Admin)	44.9%	24.7%	30.4%
Professional, Scientific & Technical Services	54.0%	10.9%	35.1%
Real Estate and Rental & Leasing	0.7%	32.0%	67.2%
Retail Trade	14.5%	18.9%	66.6%
Self-Employed	60.4%	8.9%	30.7%
Transportation & Warehousing	5.5%	19.4%	75.0%
Utilities	40.3%	27.8%	31.9%
Wholesale Trade	15.9%	18.4%	65.7%

Source: Oxford Martin School

# A jobless future?

**March 1964**

Automation in Germany—  
Entry of the Robots.



**April 1978**

The Computer Revolution—  
How progress leads into  
unemployment.



**September 2016**

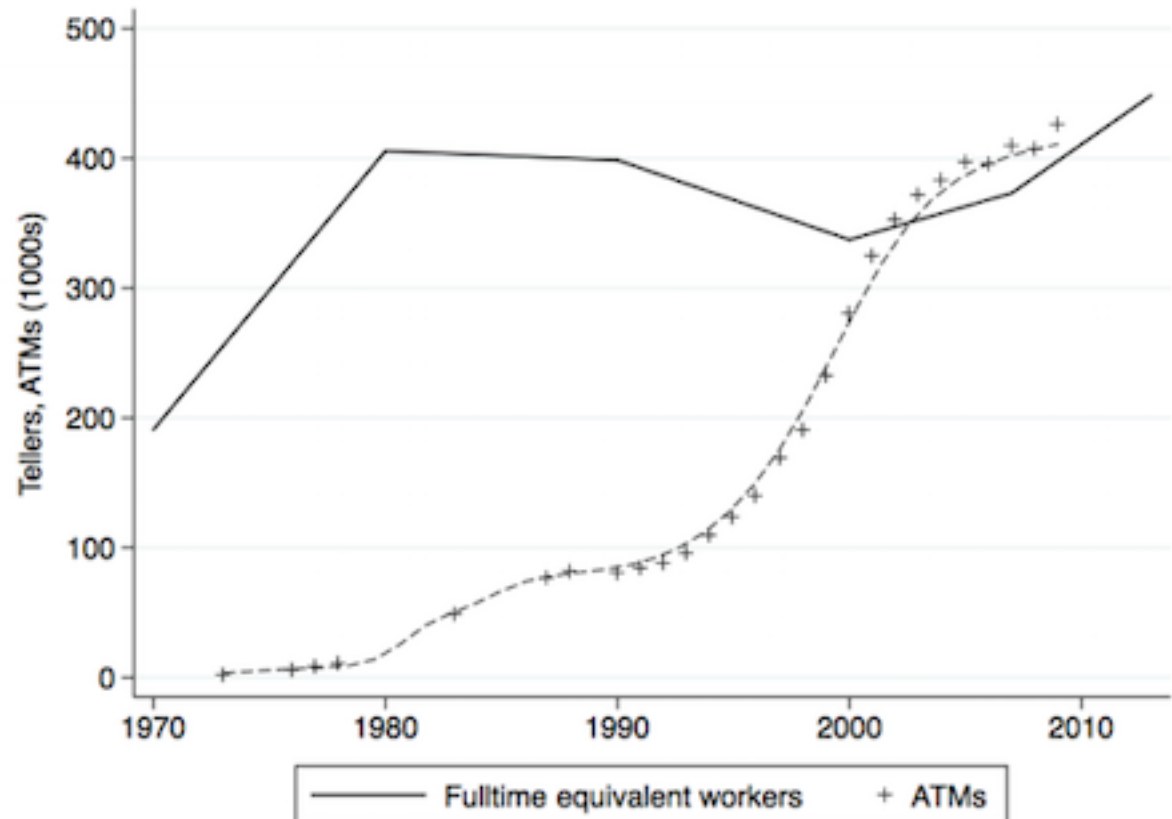
You are fired! How computers  
and robots take away our  
work—and which professions  
are still safe tomorrow.



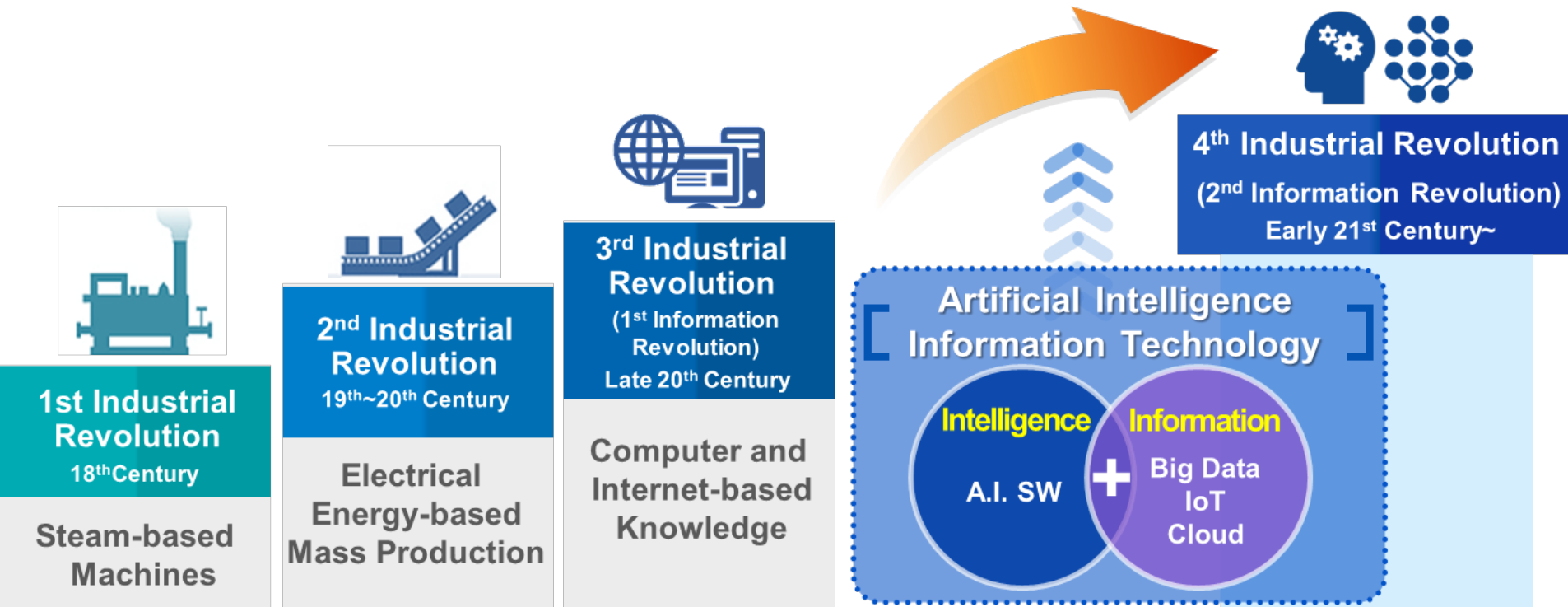
# Automation does not lead to jobs losses but to job creation.



Figure 1. Bank Tellers and Automated Teller Machines

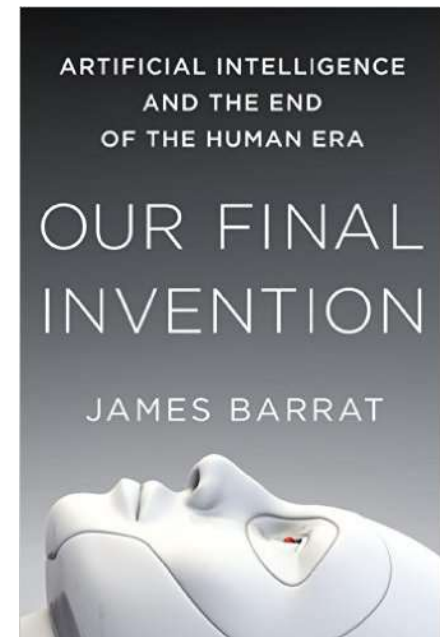
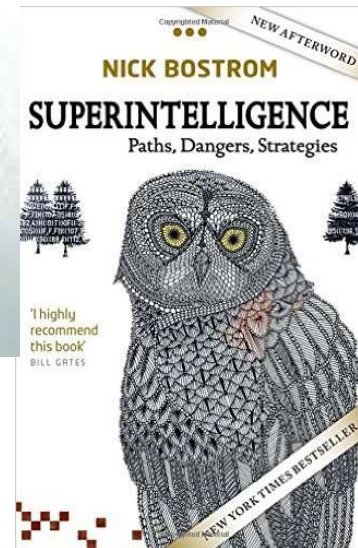
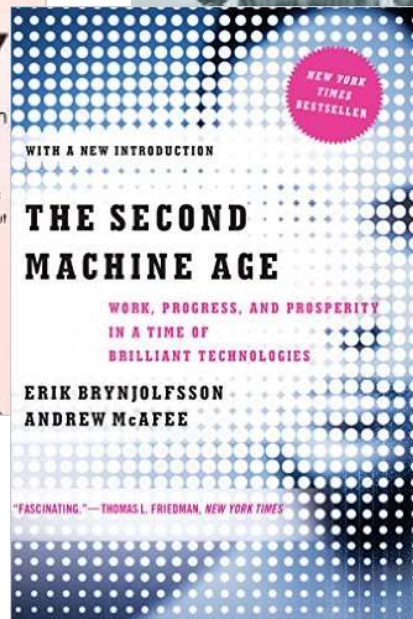
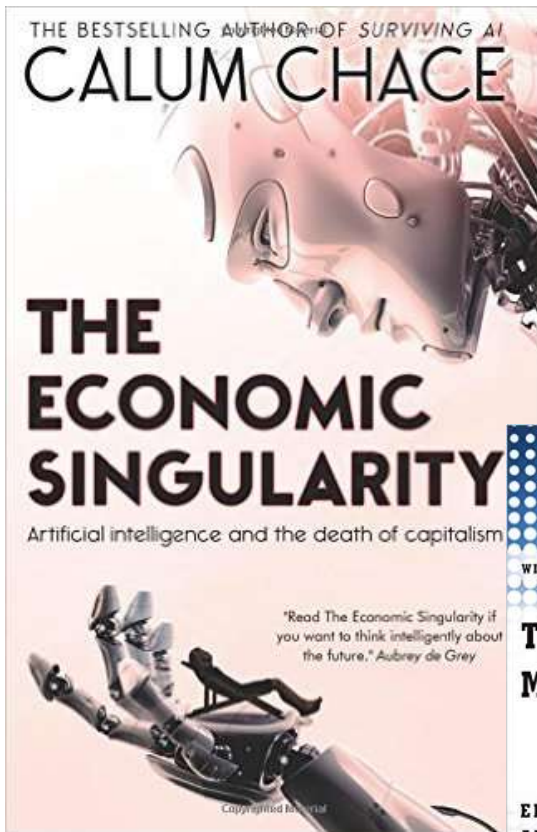


# AI: is this time different?

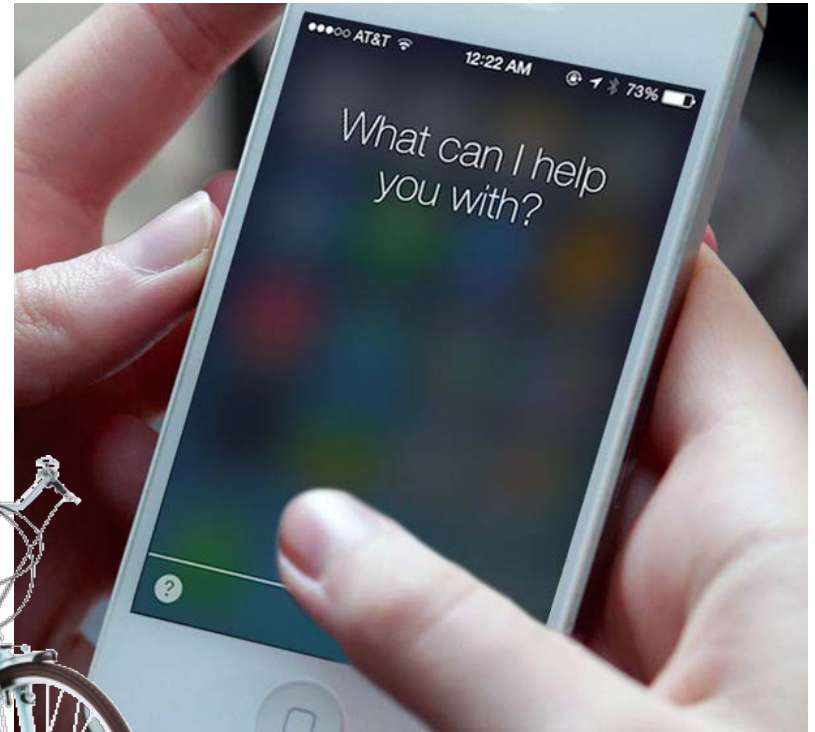
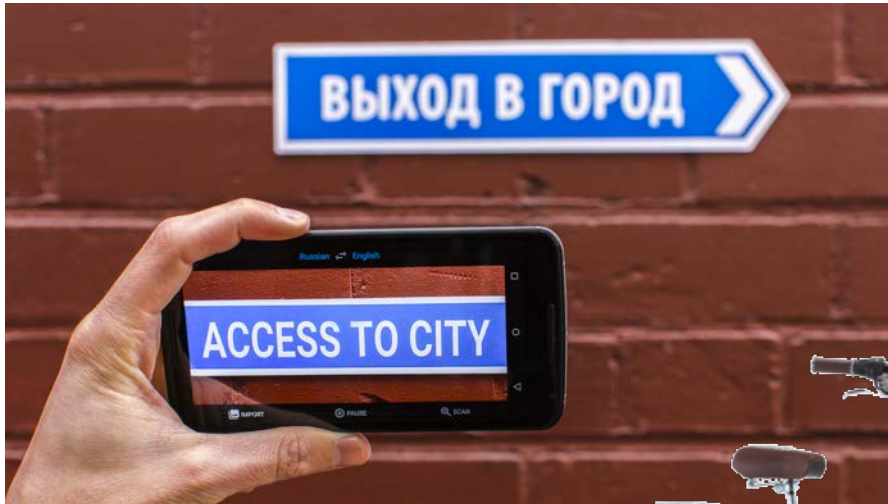


Source: World Bank

# The scare certainly is not different

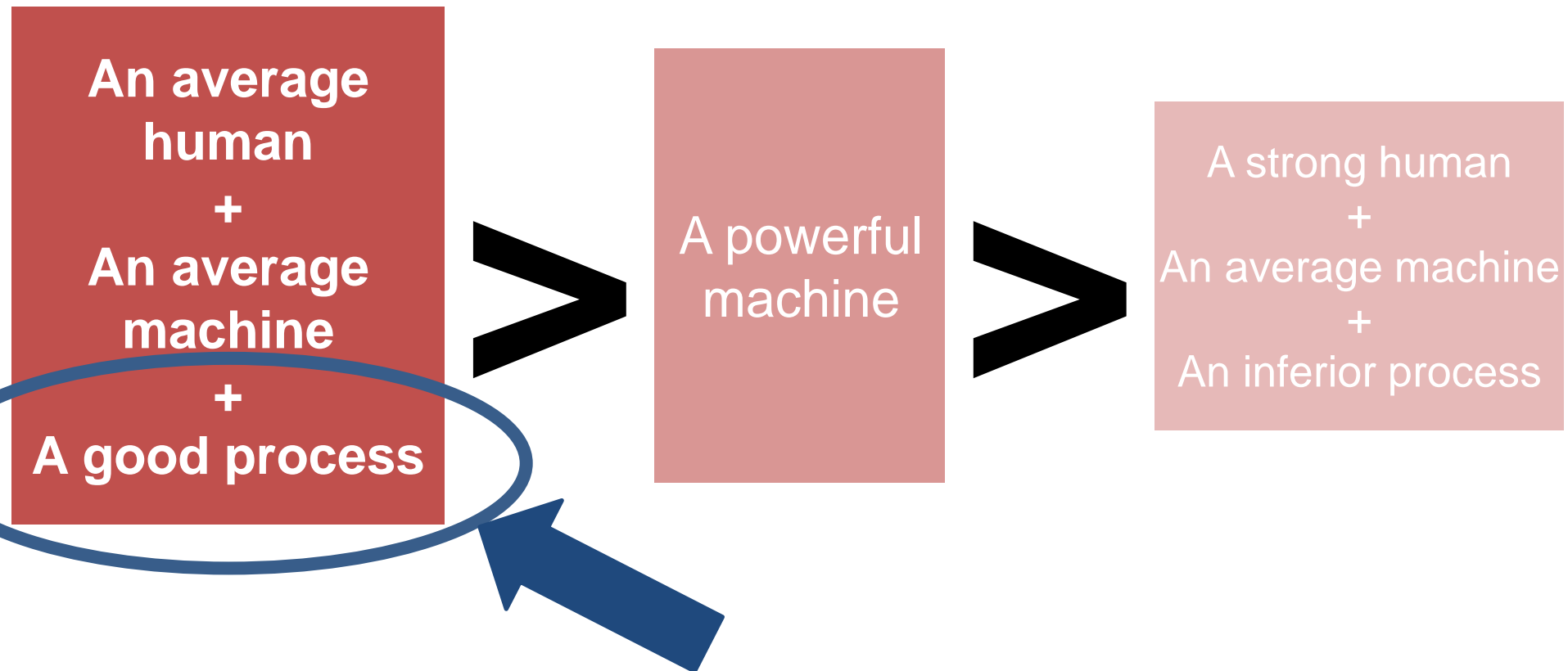


**But... what if every employee can have the world's knowledge in their pocket?**

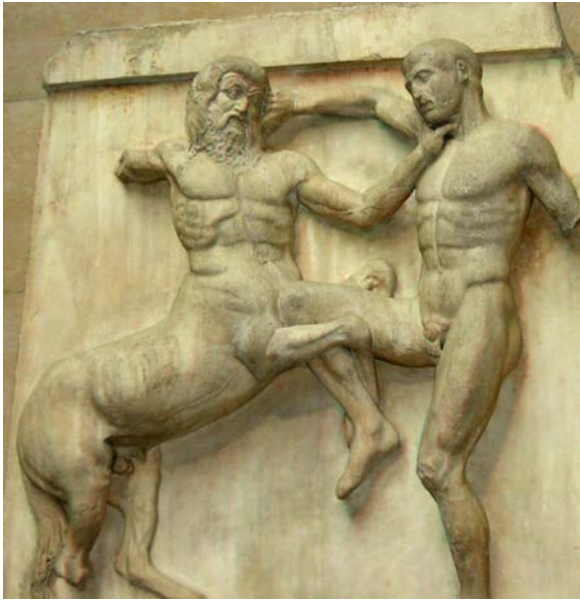




# Artificial intelligence impact for organizations



# Welcome to a world of Centaurs!



**“The ability to staff, manage, and lead increasingly automated organizations will become an important competitive differentiator.”**

**McKinsey, 2015**

Thank you!

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