

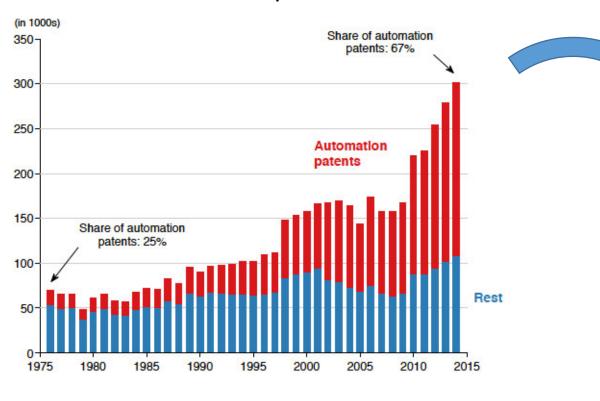


Take-home messages

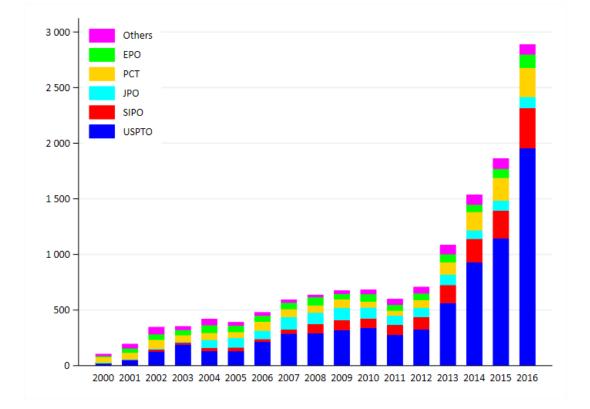
- 1) Solow paradox kicking and well alive
- 2) New technologies (AI) unlikely to lead to massive job losses
- 3) New skills yes, but not necessarily technical ones
- 4) Bullshit jobs, not productive ones are on the rise
- 5) The data economy increases inequality further
- 6) Ecological limits to AI will constrain any changes

Why do we talk about AI now?

Share of automation patents in total

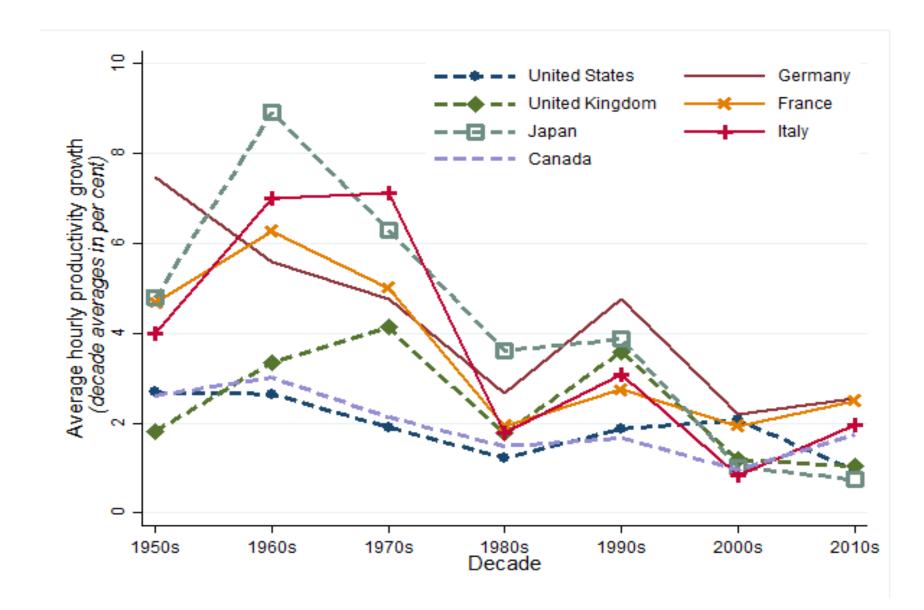


Number of AI patents granted by country



Al does not seem to raise productivity

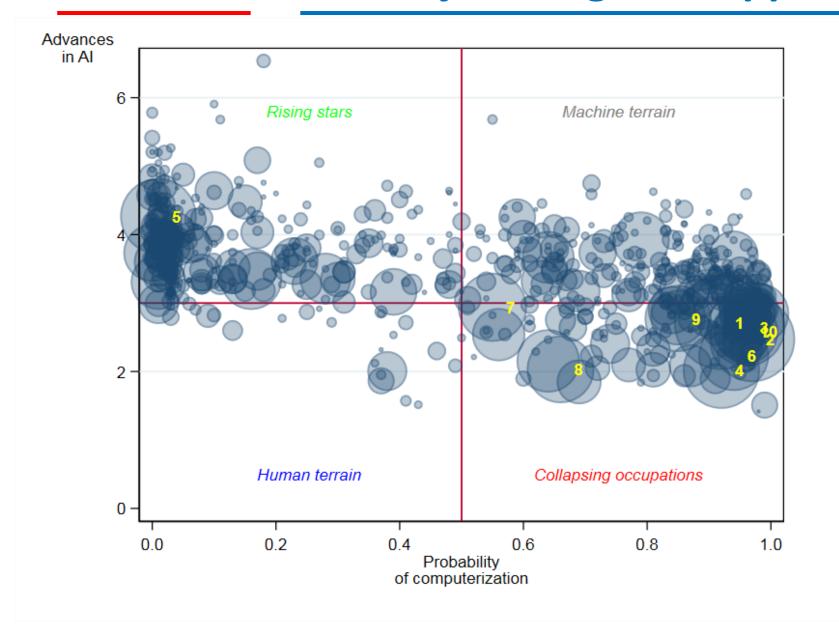
Hourly productivity growth rates in G7 countries (decade averages)



Al is more than automation

		Computerization risk	
		Low	High
Level of transformation	Low	 Needs human presence: Specialized education Trainers, coaches Comedians, musicians 	Strong reduction in employment: • Distribution • Personal assistants • Accountants
	High	 Improved productivity: • Medical personal • Scientists, engineers • Pilots, navigation personal 	Imminent job loss: • Executive assistants • (Lorry) drivers • Maintenance and reparation

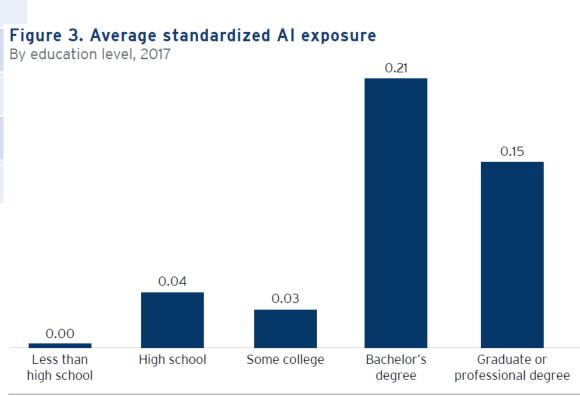
Which jobs might disappear?



USA			
#	Type of occupation/job		
1	Retail salesperson		
2	Cashiers		
3	Office clerks		
4	Cooks and serving personnel		
5	Nurses		
6	Waiters and waitresses		
7	Customer Service Representatives		
8	Janitors and cleaners		
9	Laborers and Freight, Stock, and Material Movers		
10	Secretaries and Administrative Assistants		

Occupational transformation

Verb	Example nouns
recognize	pattern, image, speech, face, voice, automobile, emotion, gesture, disease
predict	quality, time, performance, fault, behavior, traffic, prognosis, treatment
detect	signal, abnormality, defect, object, fraud, event, spammer, human, cancer
identify	object, type, damage, illegality, classification, relationship, importance
determine	state, similarity, relevance, importance, characteristic, strategy, risk
control	process, emission, traffic, engine, robot, turbine, plant, discharging
generate	image, rating, lexicon, warning, description, recommendation
classify	data, object, image, pattern, signal, text, electrogram, speech, motion

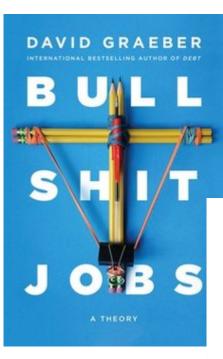


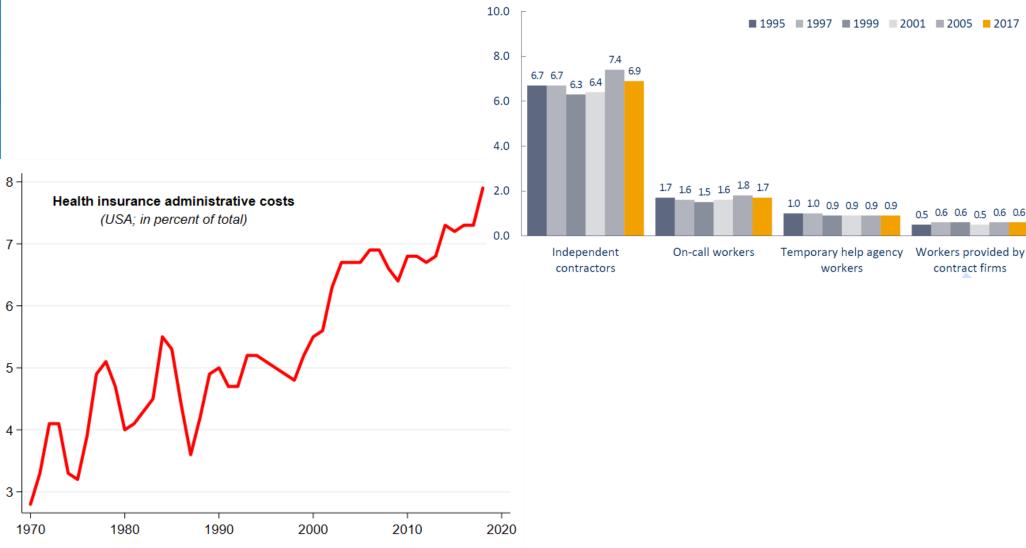
Brave new world ... of bullshit jobs?

Percent

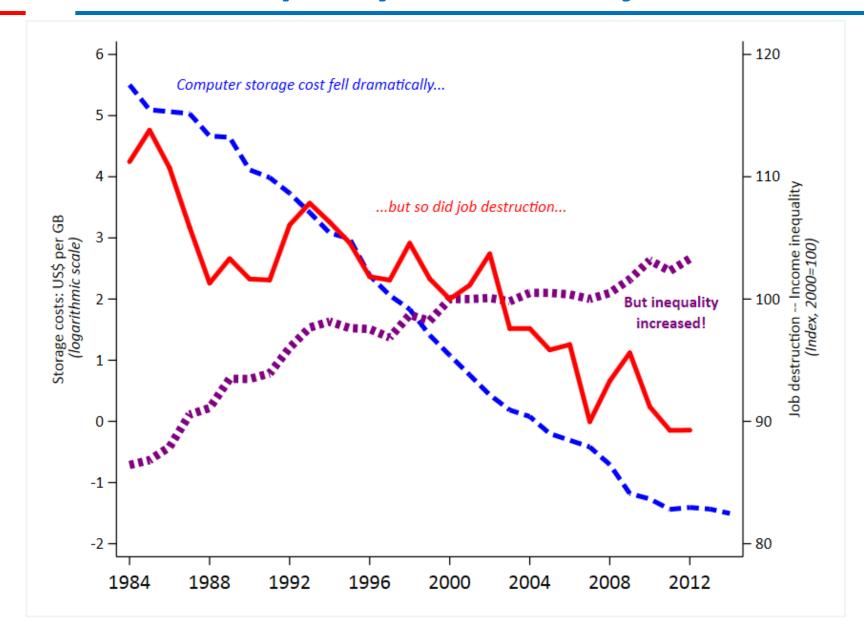
0.5 0.6 0.6 0.5 0.6 0.6

contract firms

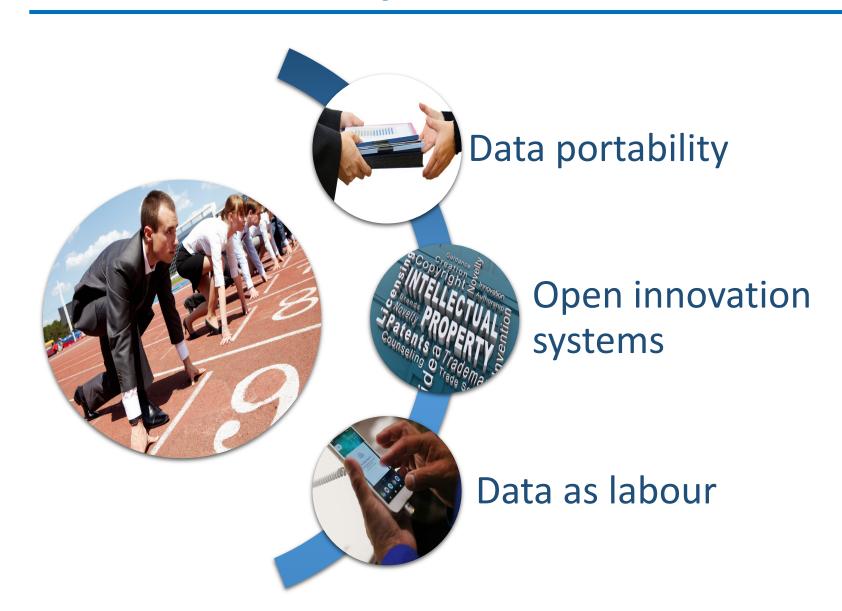




Rise in inequality rather than job loss



The data economy



Ensuring just transitions



Digital taxation



Sovereign data wealth fund

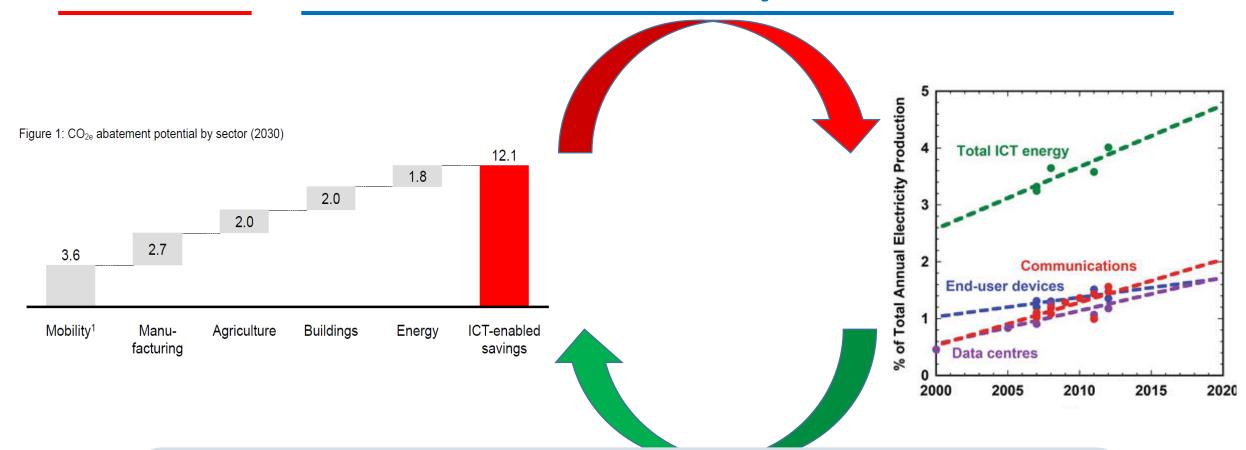


Digital social security



Profit sharing and wage negotiation

Growth beats efficiency



"Large neuronal networks today have a maximum of 1 million nodes but consume the energy of a nuclear power plant. The human brain has 84 billion neurons and runs on a slice of bread."

Chris Boos, AI expert and founder of Arago

Dilbert knows best!



If you want to know more





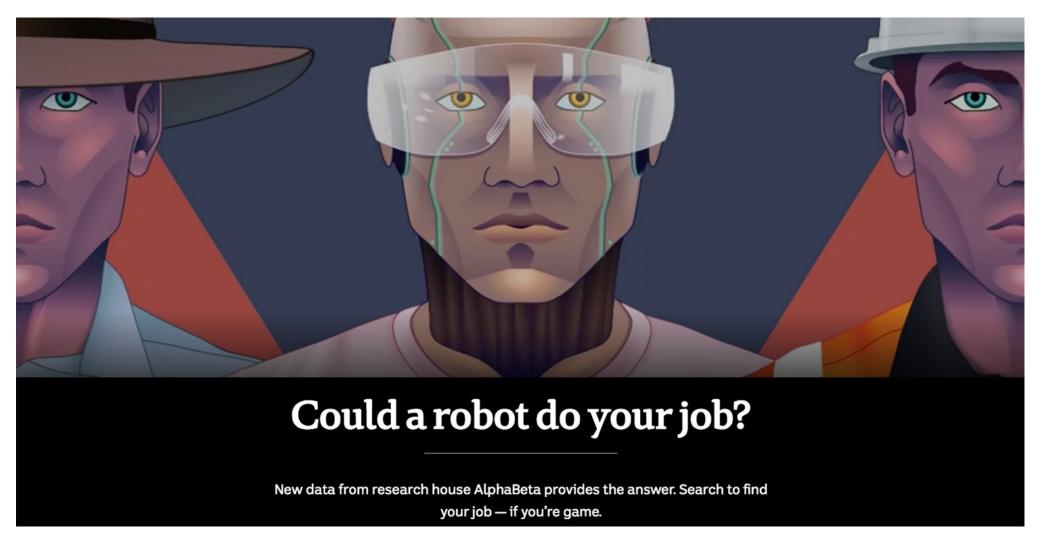
SEPTEMBER 2018







Are you doomed to lose your job?



https://www.abc.net.au/news/2017-08-08/could-a-robot-do-your-job-artificial-intelligence/8782174