Future Automation: Future Workforce

Challenges and approaches

Billion Dollar CEO Roundtable October 12, 2017



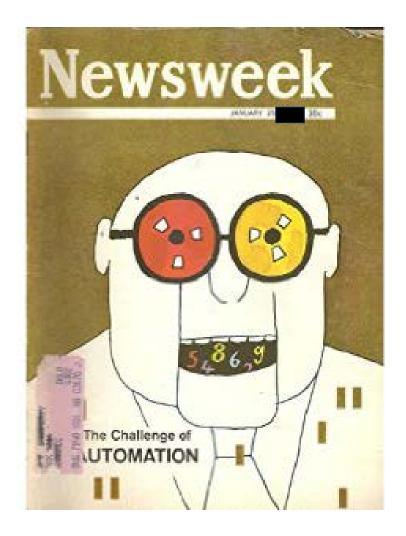


Agenda

- Trends in automation technology
- Making an automated workforce work



Trends in automation technology Some historical perspective...



Guess what year this cover story is from...

A new chapter in automation: the post-Kiva ecosystem

2012







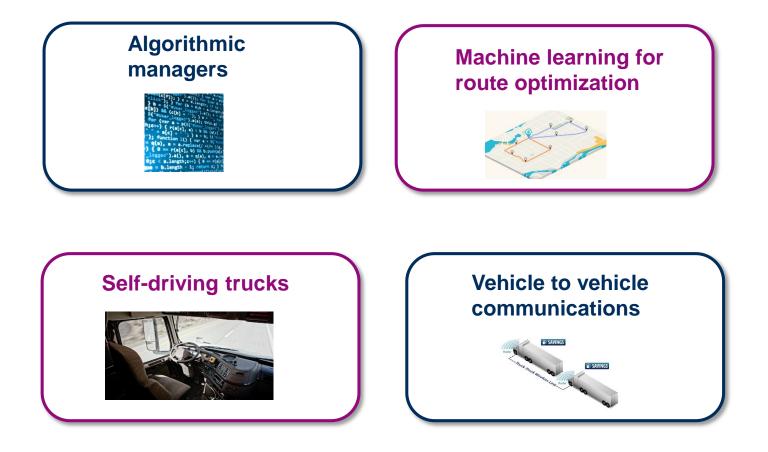
- Rest of market lost access to Kiva technology
- ✓ Added 80K warehouse employees post Kiva
- ✓ \$22 million in savings per warehouse (data from Deutsche Bank)

- Robotics start-up ecosystem has grown to fill the void left by Kiva
- Major venture from within wholesale world: Symbotic, owned by C&S

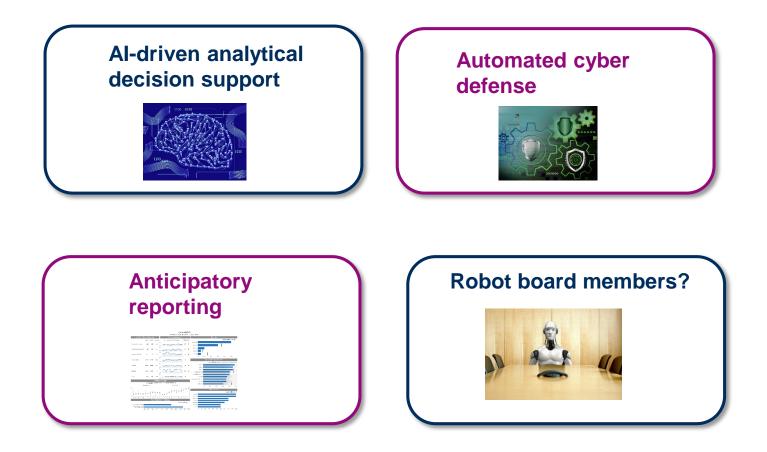
Progress in automation – in the warehouse



Progress in automation – on the road

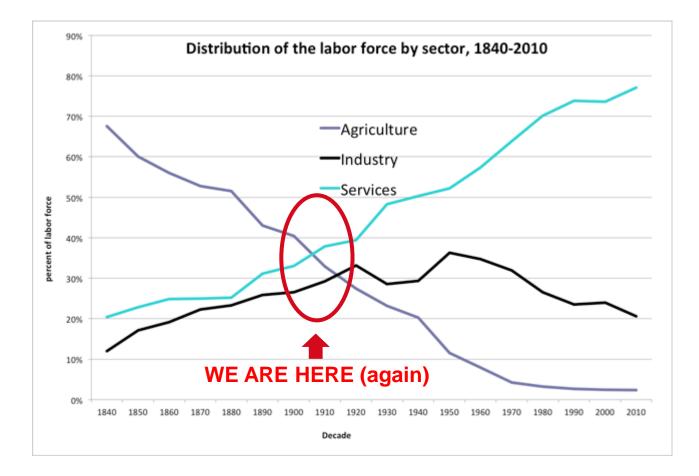


Progress in automation – in the boardroom



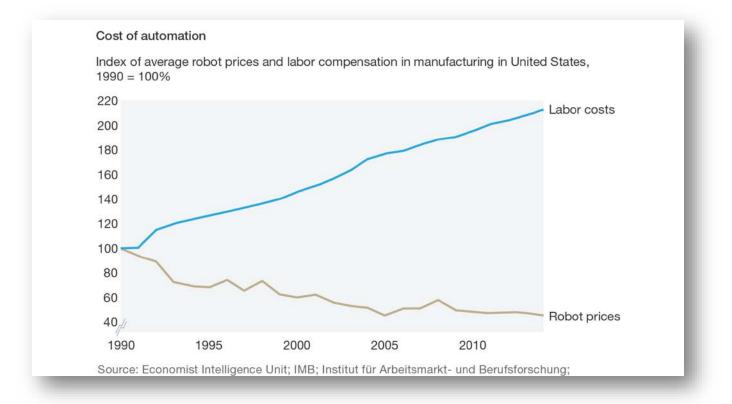
Making an automated workforce work

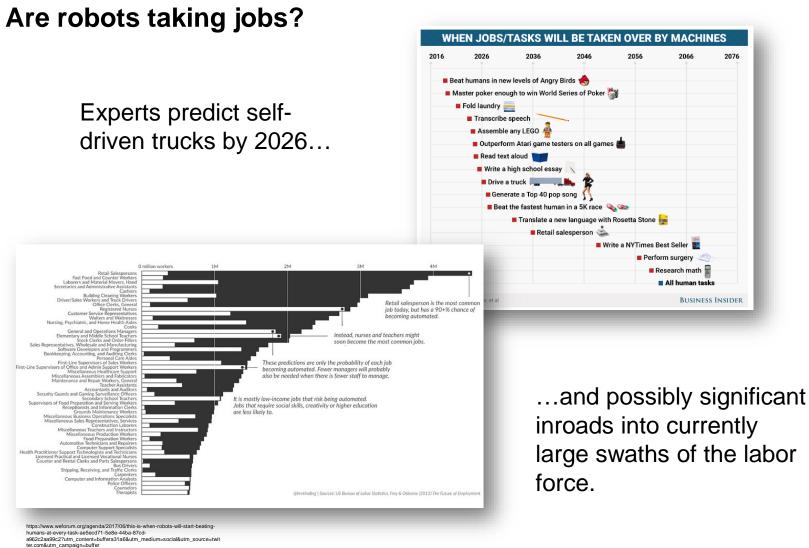
Some more historical perspective...





The economics of automation certainly have improved

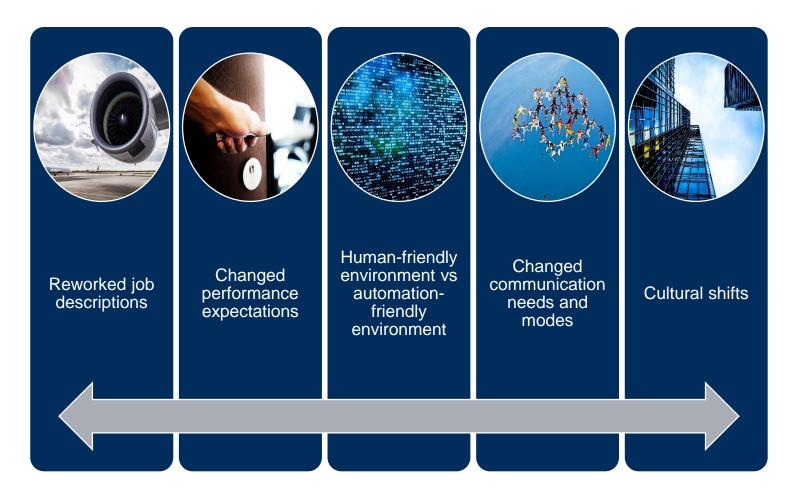




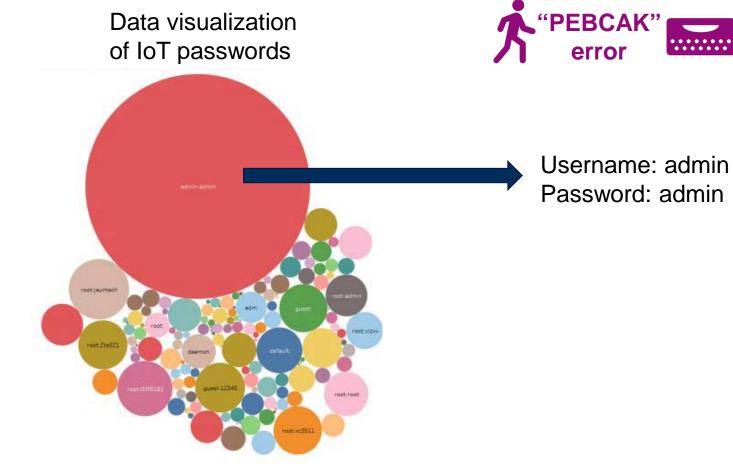
Robots taking jobs: myth and reality

	Myth	Each robot deployed = 1 job lost
İİİ	Reality	Deployment of automation increases capacity to operate, thus increasing hiring
Ť	Reality	Deployment of automation means different workers can be hired
0	Reality	Deployment of automation enables services shift or even business model change to anticipate disruptive competition, preserving jobs
	Reality	Robots will take on undesirable or dangerous jobs.
*	Reality	Jobs will be created to invent, deploy, and service automation technology ("the ATM effect")

Impacts to humans who work side by side with automated workers



One elephant in the automation room: cybersecurity



https://flipboard.com/@flipboard/-the-internet-of-thingsmassive-security/f-19978d3338%2Ffastcodesign.com Five key questions to consider...

What do my customers really need that only a human can provide...and what can be done on an automated basis with no loss of customer satisfaction?

What have we always wanted to do that the natural constraints of human beings have never allowed us to do?

What added value could we provide to customers if we could put current skills aside, and redeploy 20%-40% of our workforce?

How are we going to identify the part of our workforce that agnostic of scenario, we keenly want to retain?

What is our purpose as an organization, and how will we mobilize our human workforce against it?

...and five immediate actions to take

Conduct a listening tour of your own workers' experience of automation.

Visit the most disruptive company in your ecosystem and really take stock of the working environment and culture.

Take a thoughtful inventory of your current workforce composition and talent landscape – and scenario-plan for different disruptive futures.

Audit your employer brand.

Define and communicate your vision for an automated future.