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Department of Management public lecture

Service Automation: robots and the future of work

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Hashtag for Twitter users: #LSErobots

ISE events





Service Automation Robots and the Future of Work



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Service Automation: Robotics & the Future of Work

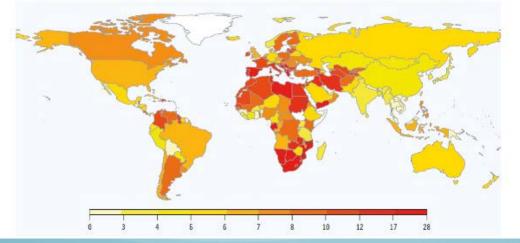
There is plenty of fear and hype in the popular media about service automation...

Two analytical levels



How are businesses using service automation?

Cross-country variations in unemployment rates (percentages)



What are the implications for global employment rates and the future of work?

Research Method

We studied the automation of *business services*, services performed by organizations, either back office support services or customer-facing services.

Surveys:

♠ 148 delegates at OWS in 2015 198 delegates at OWS in 2016

Interviews:

- 16 client adoption stories
- 6 service automation providers 5 advisors
- **Training and demos**

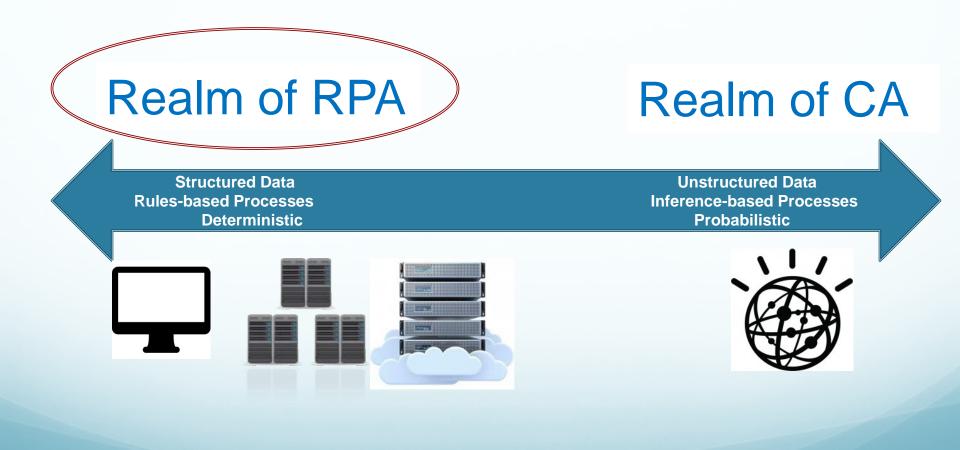








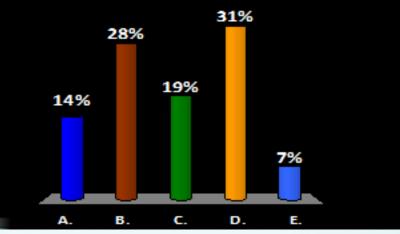
The Service Automation Landscape: SOFTWARE SOLUTIONS



RPA is today's technology...

Which of the following best describes your organization's current RPA adoption level?

- A. Building mature RPA
- B. Launching RPA Proof-ofconcepts
- C. Considering RPA now
- D. Will likely consider RPA soon
- E. Decided against/will not likely consider RPA adoption

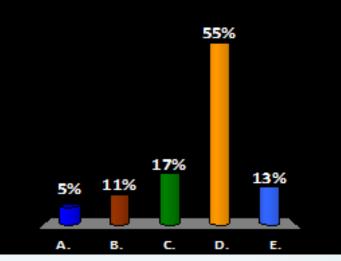


RPA Adoption (n = 188 responses)

For many organizations, CA is tomorrow's technology...

Which of the following best describes your organization's current OWS16 COGNITIVE INTELLIGENCE adoption level?

- A. Building mature CI capabilities
- B. Launching CI Proof-of-concepts
- C. Considering CI now
- D. Will likely consider CI soon
- E. Decided against/will not likely consider CI adoption



CI Adoption (n = 198 responses)

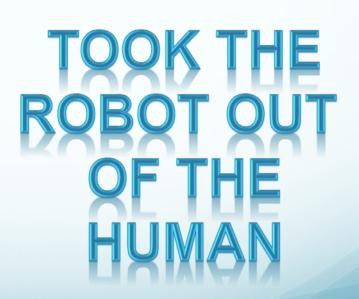
RPA is software that automates a process, acting the way a human does, by logging on and off systems



RPA - Common Business Outcomes



- FTE savings resulting in high ROI
- A Better service quality
- Faster deployment of new services
- A Higher compliance
- Increased scalability
- More flexible workforce
- A Happier, more productive employees



Other Mature Case Studies

	# processes automated	RPA Adoption Year	# robots 2015	# RPA transactions per month	ROI
Telefônica O2	35% of back office (15 core processes)	2010	>160	500,000	650% to 800% 3-YR
	35% of back office	2005/2008	300	1 million	200% 1-YR





Summary of some of what we did <u>not</u> find:



- Myth 1: RPA is only used to replace humans with technology, leading to layoffs
- Myth 2: Business operations staff feels threatened by RPA
- Myth 3: RPA will bring back many jobs from offshore
- Myth 4: RPA is driven only by cost savings
- Myth 5: RPA replaces an entire person's job

Cross-country variations in unemployment rates (percentages)

Global Level



Mill job types and numbers change dramatically?



Philosophical Views on Technology

"It is unworthy of excellent men to lose hours like slaves in the labour of calculation which could safely be relegated to anyone else if machines were used."

— Gottfried Wilhelm Leibniz: mathematician, philosopher, and inventor, 1685

High technology-caused unemployment "due to our discovery of means of economising the use of labour outrunning the pace at which we can find new uses for labour"

— John Maynard Keynes, Economist, 1933

"Technology is a useful servant but a dangerous master"

— Christian Louis Lange; Nobel Peace Prize, 1921

Will This time be different?



Agrarian Economy



Industrial Economy



Service Economy



Digital Economy

Technology effects play out within social, political, economic and environmental contexts...



The Great Automaton

Giorgio De Chirico 1925



Sign of the times?

Book can be obtained from sales@stevebrookes.com



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