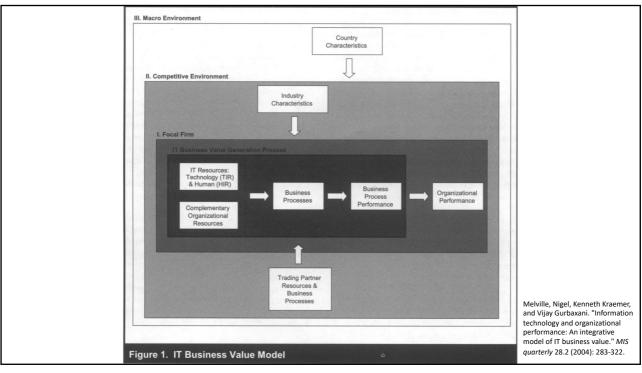
Strategic IT management - 37E00200

Defining artificial intelligence

Esko Penttinen Associate Professor, Information Systems Science, Aalto University School of Business Chairman, XBRL Finland Director, Real-Time Economy Competence Center

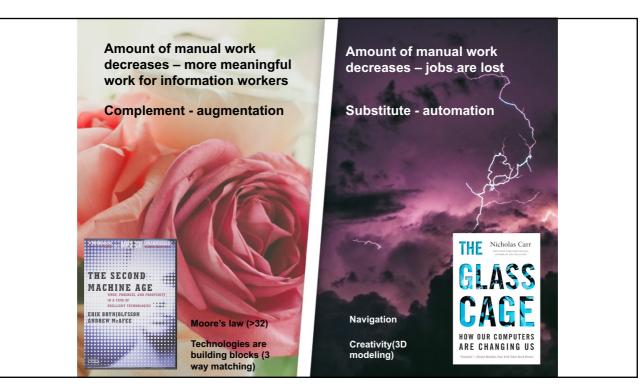
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Agenda...

... thus far

- Monday 23.10.
- Introduction, assignments, IT business value
- Wednesday 25.10.
 Technical debt
 - Iechnical debi
- Friday 27.10.
 Legacy systems
- Monday 30.10.
- Outsourcing
- Wednesday 1.11. • Virtual organizing and cloud
- Friday 3.11.
- Case Kluuvin Apteekki
- Monday 6.11.
 Information infrastructures
- Friday 10.11.
 Case Tieto
- 3



... for the remainder of the course

Defining artificial intelligence

• Monday 20.11.

• Friday 24.11.

• Friday 1.12.

Monday 27.11. • Skills

• Wednesday 29.11.

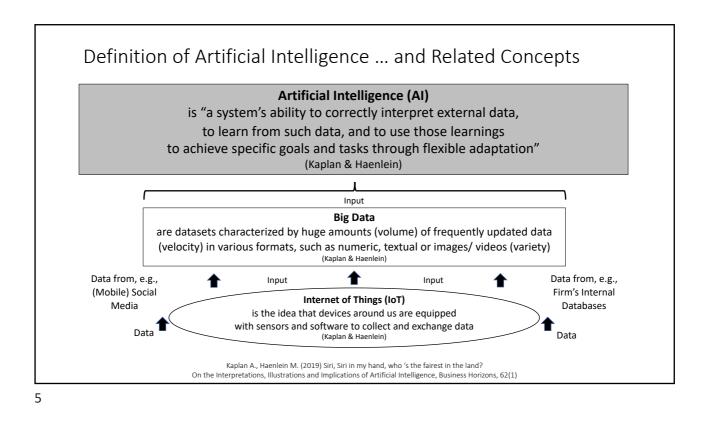
Wednesday 22.11.

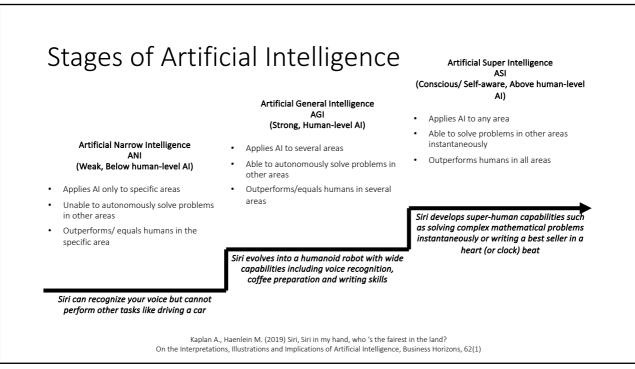
Explainability

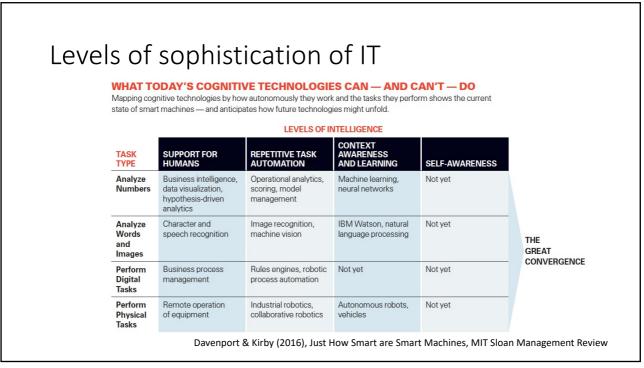
Case Nokia

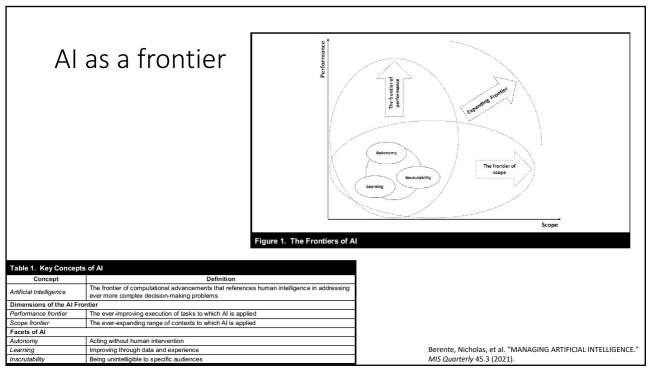
Case presentations

Course synthesis







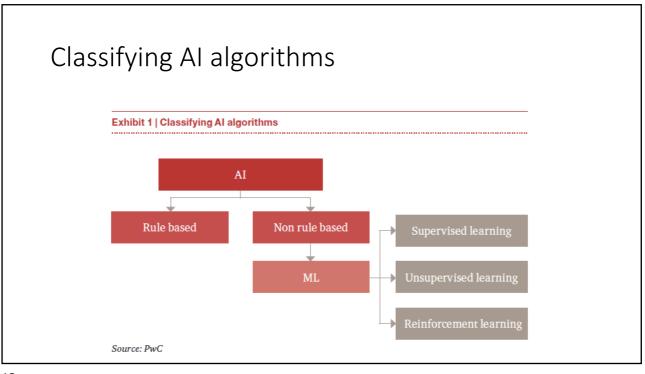


71	of AI Syst		rtificial Intelligence (A I	,	
	Expert Systems	Analytical Al	Human-Inspired Al	Humanized Al	Human Beings
Cognitive Intelligence	×	✓	✓	✓	✓
Emotional Intelligence	×	×	\checkmark	\checkmark	✓
Social Intelligence	×	×	×	\checkmark	~
Artistic Creativity	×	×	×	×	✓
		Supervised learning, Unsupervised learning, Reinforcement learning			

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Illustrations of AI Applications within Specific

ectors	Analytical AI	Human-Inspired AI	Humanized Al
Universities	Virtual teaching assistants able to answer student questions and tailor reactions to individual data	Al-based career services able to identify emotions to improve interview techniques of students	Robo-teachers animating a student group by acting as moderator and sparring partners
Corporations	Robo-advisors leveraging automation and AI algorithms to manage client portfolios	Stores identifying unhappy shoppers via facial recognition at checkouts to trigger remedial actions	Virtual agents dealing with customer complaint: and addressing concerns of unhappy customers
Governments	Automation systems to set the brightness of streetlights based on traffic and pedestrian movements	Virtual army recruiters interviewing and selecting candidates based on emotional cues	Al systems able to psychologically train soldiers before entering a war zone



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