



Aalto University
School of Science

SSE / Enterprise Systems

Kari Hiekkänen & Mikko Heiskala

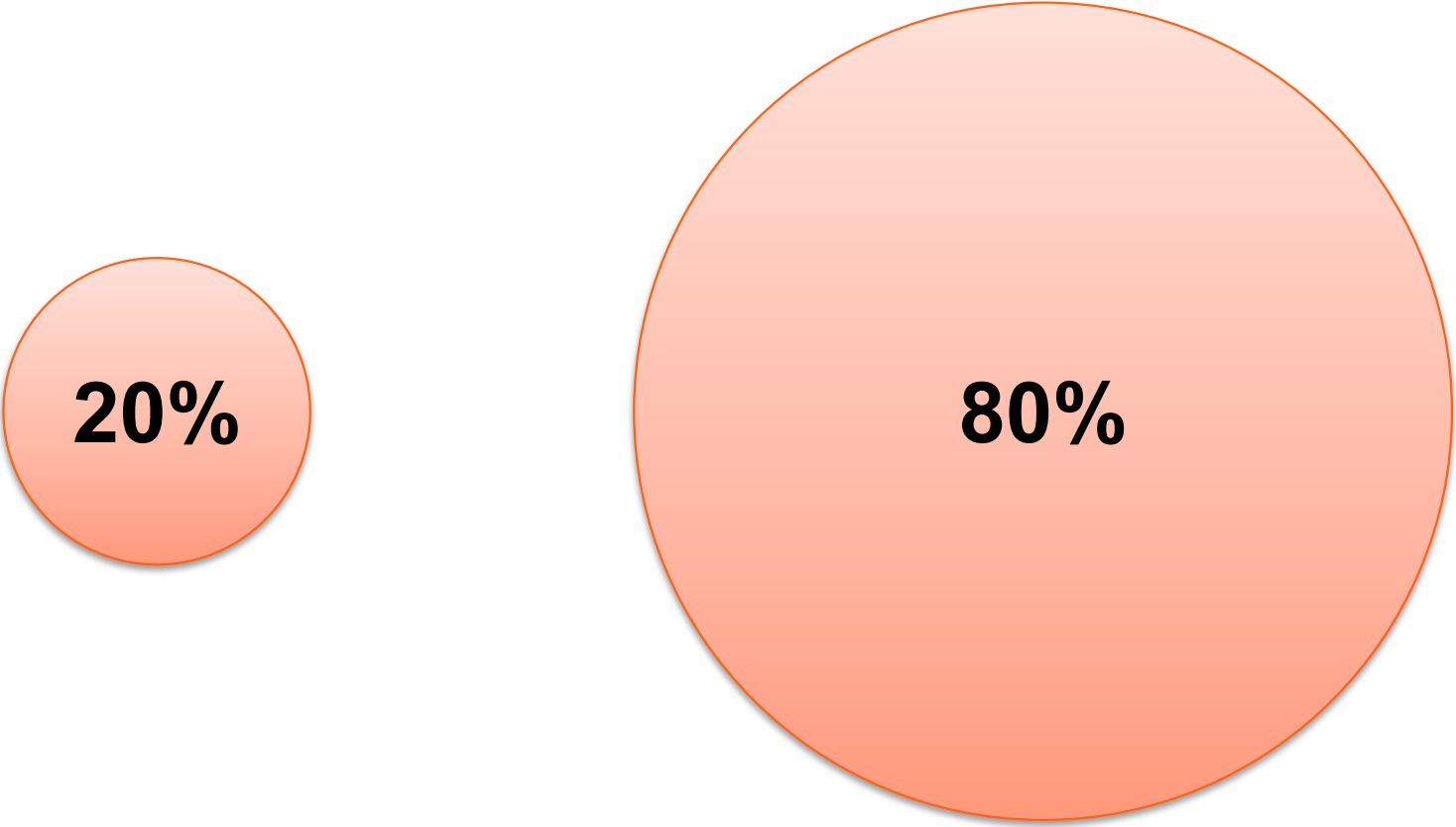
2021-09-06

Software Runs the World !

Data is the New Oil !

... all run and managed by enterprises

Follow the Money



"Build Software"

"Operate IS"

Enterprise Systems

What & Why

- Digitalization is everywhere and data and information systems are critical for all organizations both internally and externally.
- The *Enterprise Systems* track provides the knowledge, competences, and skills You will need to act successfully in the industry to tackle these challenges and opportunities.
- The focus of track is on the level of strategy and business models, IT organizational issues and governance and management of information assets in organizations over their lifetime

When I grow up, I want to be ...

Where our Alumni Work?

- IT Management (Manager) / IT Consultant
- Product Owner / Service Owner / Project Manager / ...
- Enterprise Architect / Chief Enterprise Architect / ...
- Head of Customer Solutions at a Large Media Company
- Chief Technology Officer at Large Bank
- Vice President, IT Service Management
- Venture Capitalist
- ...

About Me

Kari Hiekkanen

Research Fellow, D.Sc (tech) @ Aalto SoS / CS / SSE / ES

Research Interest

- *Enterprise IT; Leadership & Governance; IT strategy making; Enterprise Architecture*
- *Impact of Digitalization on Industries & Industrial Internet*

Nearly 20 years experience in enterprise IT in practise

- Vice President, Technology (CTO)
Logica Finland (WM-data Oy) 2003 – 2008
- Director, Technology (CTO)
Novo Group 1998 – 2003
- Founder & CEO
Artis Oy 1993 – 1998
New Generation Software Oy 1989 – 1998

D.Sc. (Tech) in Computer Science 06/2016 @ Aalto University

M.Sc. (Tech.) in Computer Science 12/1992 @ HUT



Other Key Faculty



Mikko Heiskala

Doctoral Candidate

His research interests include mass customisation of services, modular solutions, digital services and platforms and platform economy. He has taught and teaches numerous courses related to service business, digital services, digitalisation at both CS and IE departments at Aalto SoS.

Other Key Faculty



Jari Collin, D.Sc.

Adjunct Professor

His areas of specialization include industrial internet, digital services, and management of demand supply. Special interest is on building new data-driven business models for traditional manufacturing companies.

Jari works at Telia Finland as CTO

Our Research & Interest

Digital transformation of industry (and of society at large)

Implications of digitalization to

- Enterprise architecture
- Service and business platforms, platform strategies
- ICT and data governance

- Digital Ethics & ICT Sustainability

Course Portfolio 2021 – 2022

Course	Cr	Period	Teacher(s)
CS-E5300 Enterprise Systems Architecture	5	I	Kari Hiekkanen
CS-E5310 ICT Enabled Service Business and Innovation	5	II	Mikko Heiskala, Kari Hiekkanen
CS-E5330 IT Governance	5	II	Kari Hiekkanen
CS-E5340 Introduction to Industrial Internet	5	IV	Kari Hiekkanen
CS-E5380 Digital Ethics	3-5	V	Kari Hiekkanen Marko Turpeinen
CS-E5000 Seminar in SSE	5	-	various
CS-E5002 Individual Studies in SSE	-	-	various