



**KTH EXECUTIVE
SCHOOL**

Workshop

Adopting AI Applications

A Strategist's Guide

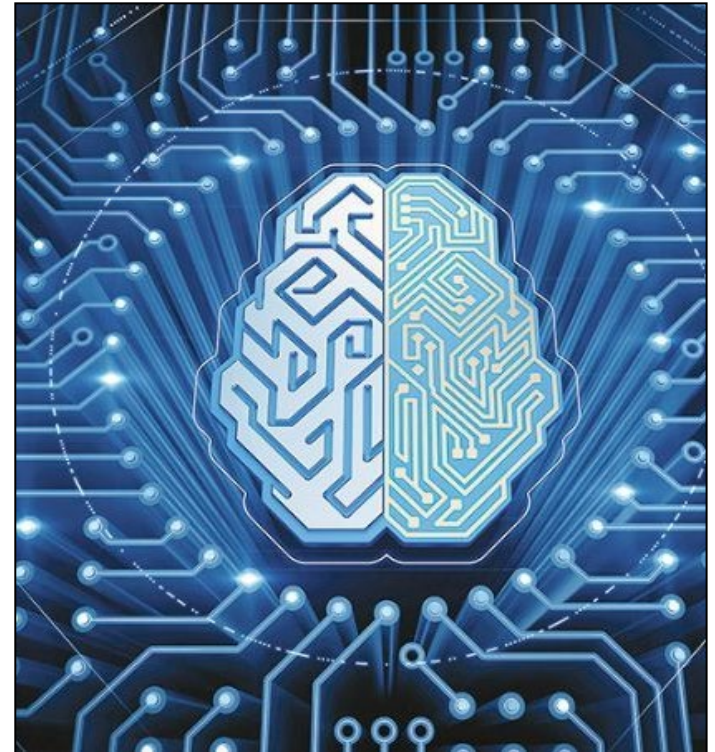


WHY ARE WE HERE TODAY?

Purpose and background

AI Competence for Sweden

KTH
Chalmers
Lunds universitet
Umeå universitet
Örebro universitet
Göteborgs universitet
Linköpings universitet





The purpose of this day

- To have a discourse about current and future application areas of artificial intelligence
 - To have a dialog in order to better understand the use of artificial intelligence in organizations in Sweden today
 - To have a dialog about what challenges and requirements you see when adopting artificial intelligence
 - Share and gain insight about what we as strategists need to do
-

This is an interactive workshop where
your thoughts are needed



08.30-09.00	Registration and Coffee
09.00-09.30	Introduction Niklas Gustafsson, KTH Executive School
09.30-10.15	Keynote: Beata Wikbom Digital Strategist, IT entrepreneur
10.15-11.00	Startups on stage Moderator: Theresia Silander Hagström, KTH Executive School
11.00-11.15	Changing venue
11.15-12.15	Workshop 1
12.15-13.00	LUNCH/ Exhibition for Startups
13.00-14.00	Workshop 2
14.00-14.40	Coffee/ Mingle /Genius bar/ Exhibition for Startups
14.40-15.30	Keynote: Per Österman, MD Analytics Nordics, Accenture and Lead SE S&CS Group and Janit Pagaria, Lead Data Management and Artificial Intelligence, Accenture
15.30-16.00	Wrap up Niklas Gustafsson, KTH Executive School



Besides lecturers and startups you will meet some other people today

MC:s

Niklas Gustafsson
Theresia Silander Hagström

Facilitation in Workshops

Staffan Movin
Anders Holmström
Johan Olsson
Agneta Rinman

Support staff / Organization / Video

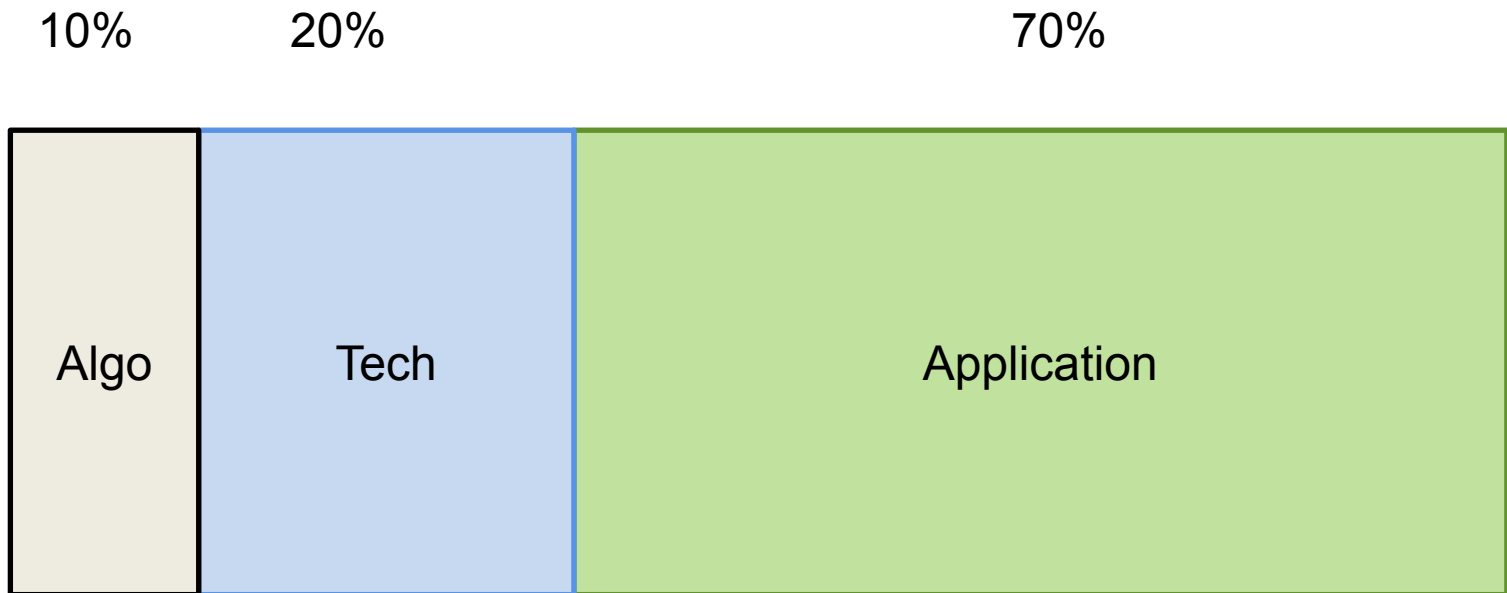
Ulrika Larsson
Linda Für
Aline Santa Izabel
Nora Al-Naami
Sara Mustafa Abdulla
Georg Götmark



AI is typically defined as:

- the ability of a machine to perform cognitive functions we associate with human minds, such as perceiving, reasoning, learning, and problem solving.
- Examples of technologies that enable AI to solve business problems are: robotics and autonomous vehicles, computer vision, language, virtual agents, and machine learning.

AI is so much more than the algorithm

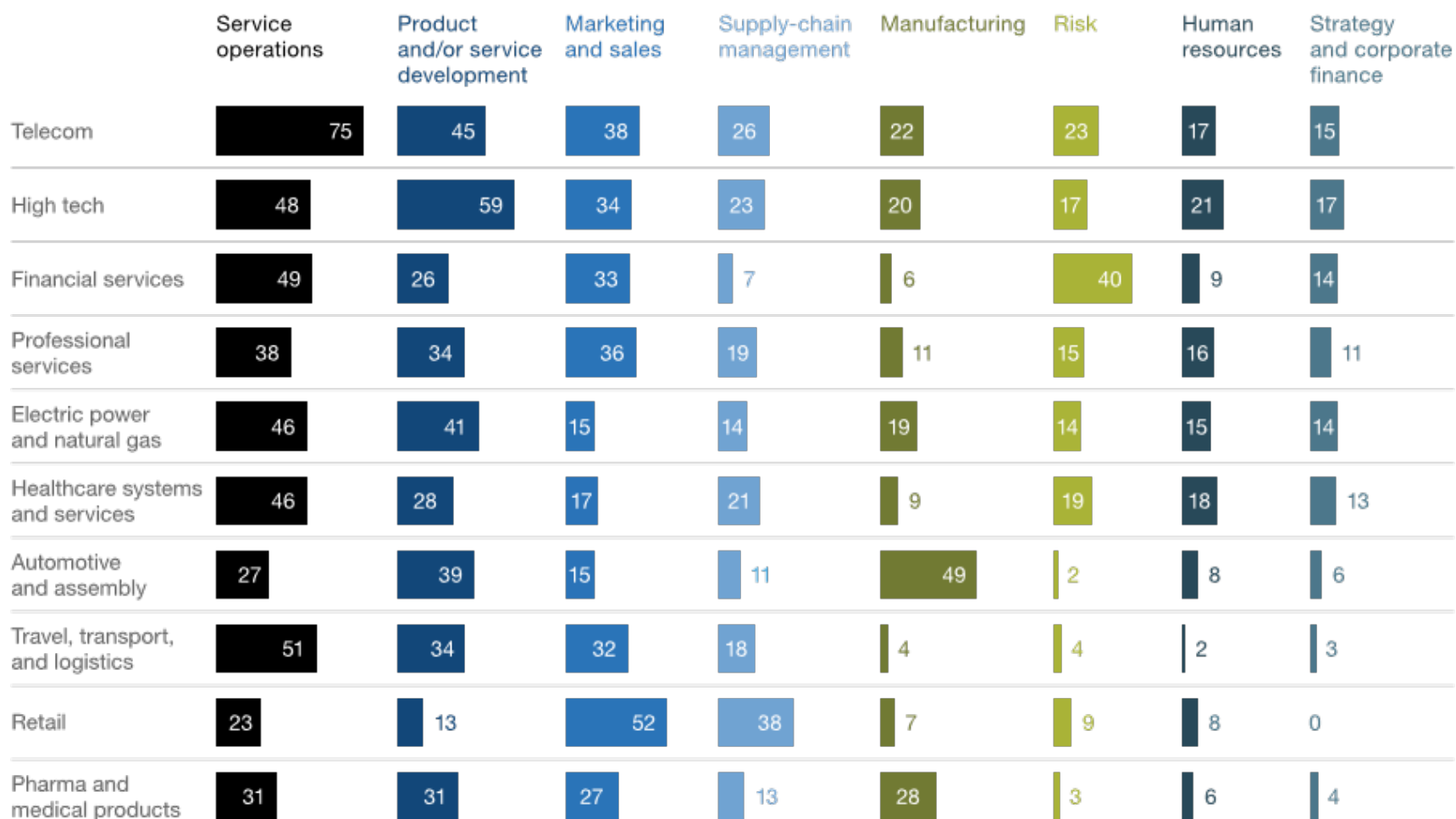




Where is AI being used?

AI seems to be gaining the most traction in the areas of the business that create the most value within a given industry.

Business functions in which AI has been adopted, by industry,¹ % of respondents



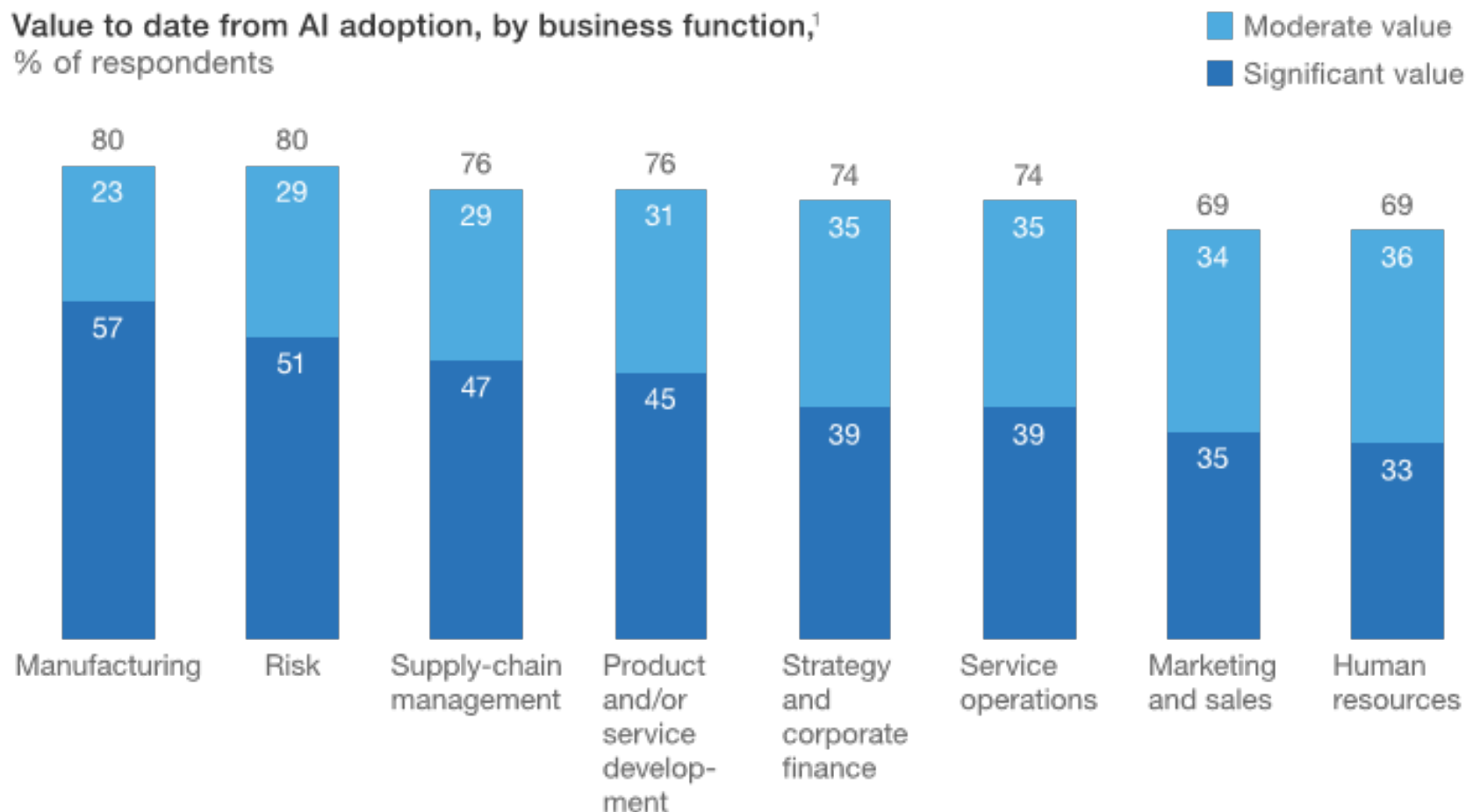
¹This question was asked only of respondents who said their organizations have piloted or embedded at least 1 AI capability in 1 or more functions or business units. Respondents who answered “don’t know” or “none of the above” are not shown. For telecom, n = 77; for high tech, n = 215; for financial services, n = 306; for professional services, n = 221; for electric power and natural gas, n = 54; for healthcare systems and services, n = 67; for automotive and assembly, n = 120; for travel, transport, and logistics, n = 55; for retail, n = 46; and for pharma and medical products, n = 65.



Where AI is creating value?

Across functions, respondents report that the most **significant benefits** come from adopting AI in manufacturing and in risk.

Value to date from AI adoption, by business function,¹
% of respondents



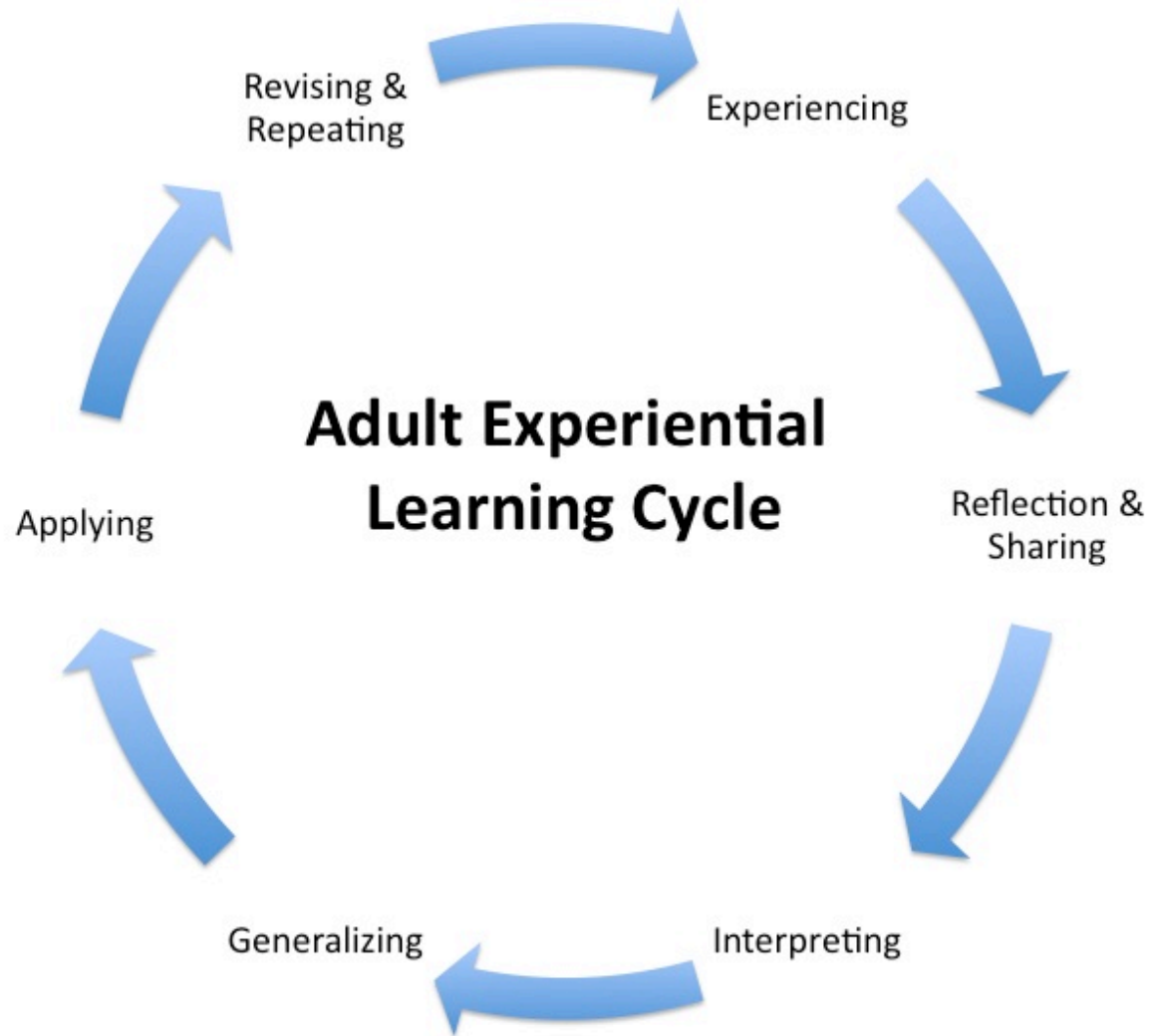
¹ Respondents who answered “some value,” “no value,” or “don’t know” are not shown. This question was asked only about the business functions where respondents say their organizations have deployed AI, and only includes responses from respondents who say their organizations have piloted or embedded AI in 1 or more functions or business units. For manufacturing, n = 272; for risk, n = 285; for supply-chain management, n = 299; for product and/or service development, n = 536; for strategy and corporate finance, n = 155; for service operations, n = 669; for marketing and sales, n = 482; and for human resources, n = 198.



The workshop session

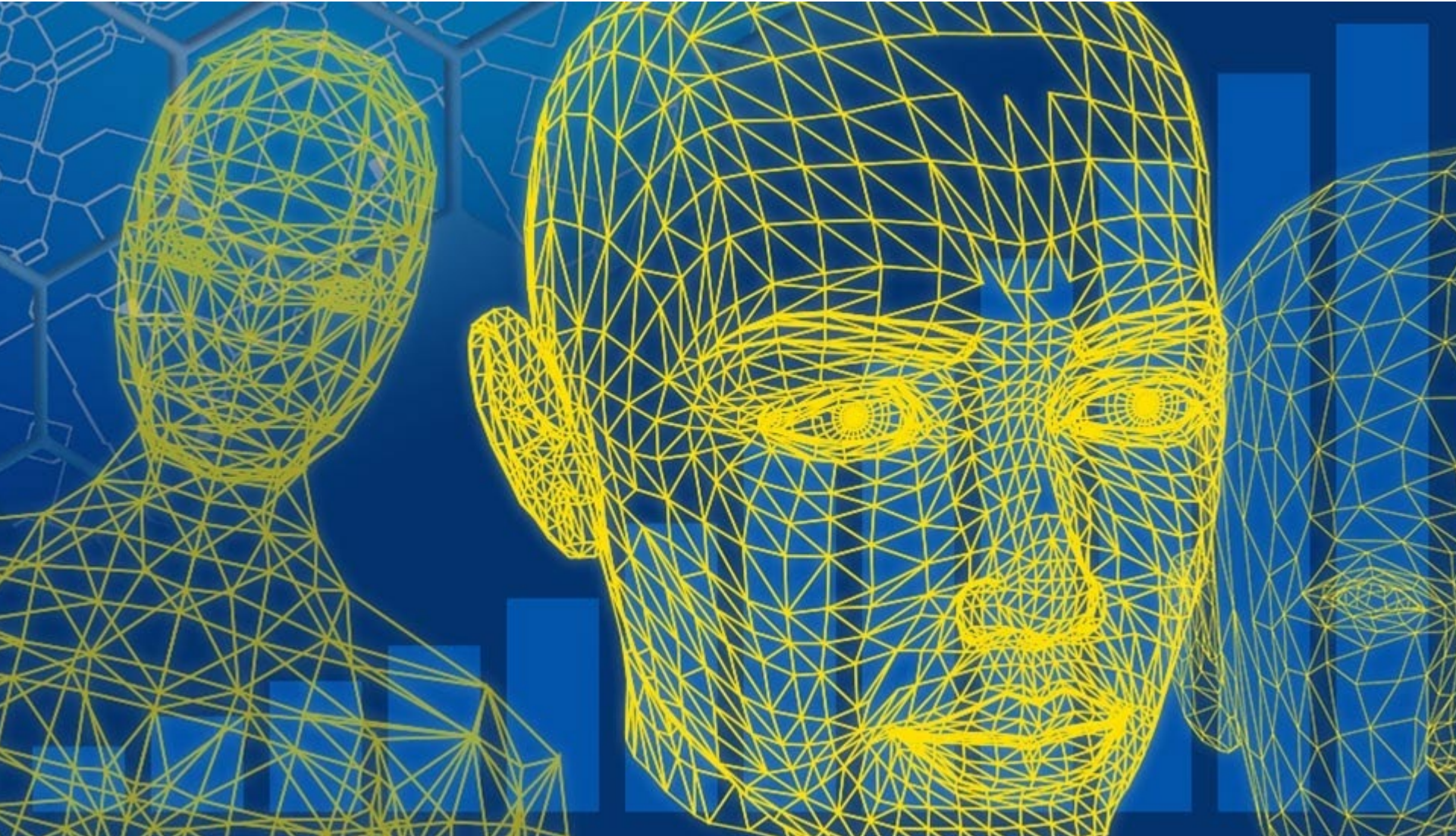
**6 pre-prepared
groups with ca. 13
participants in each**

+ 1 Facilitator



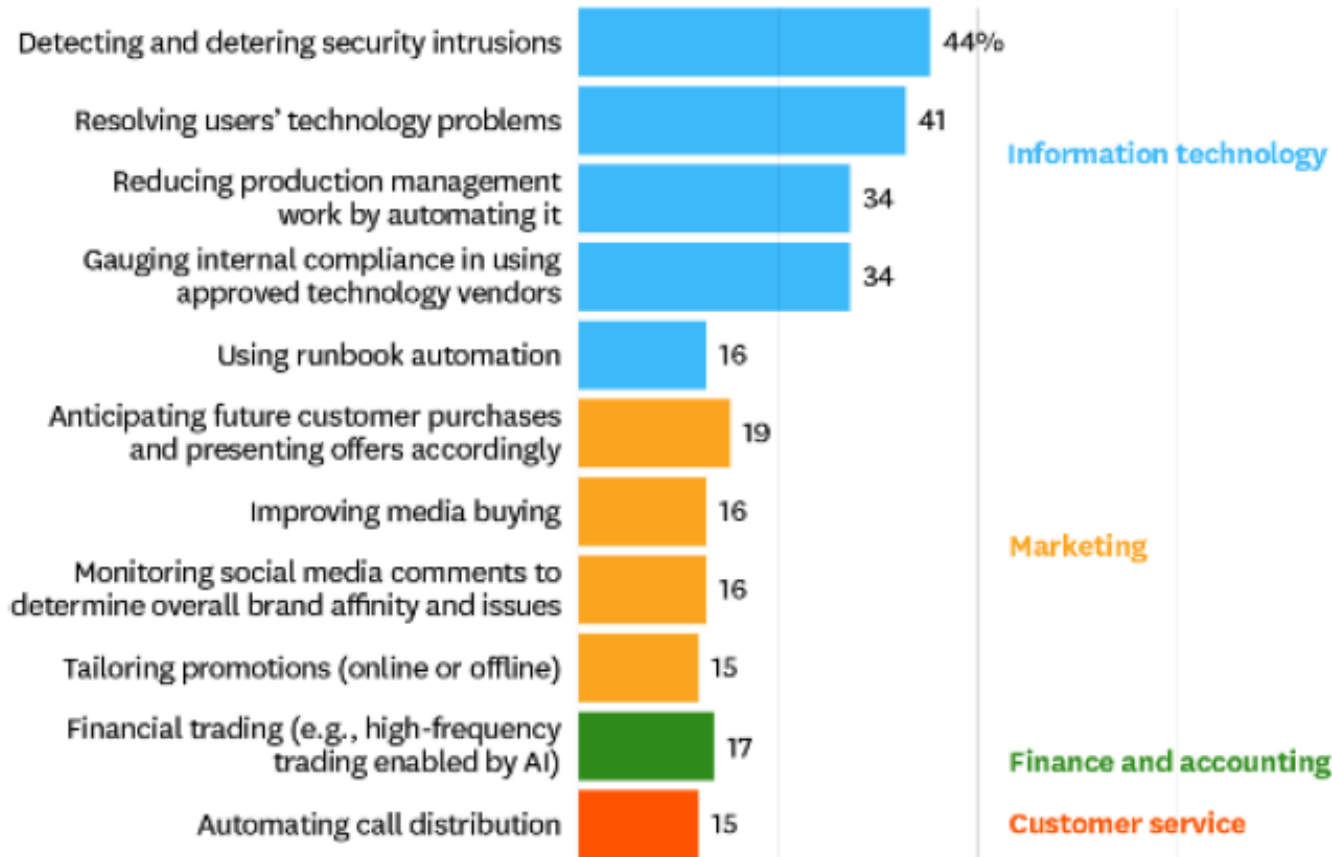


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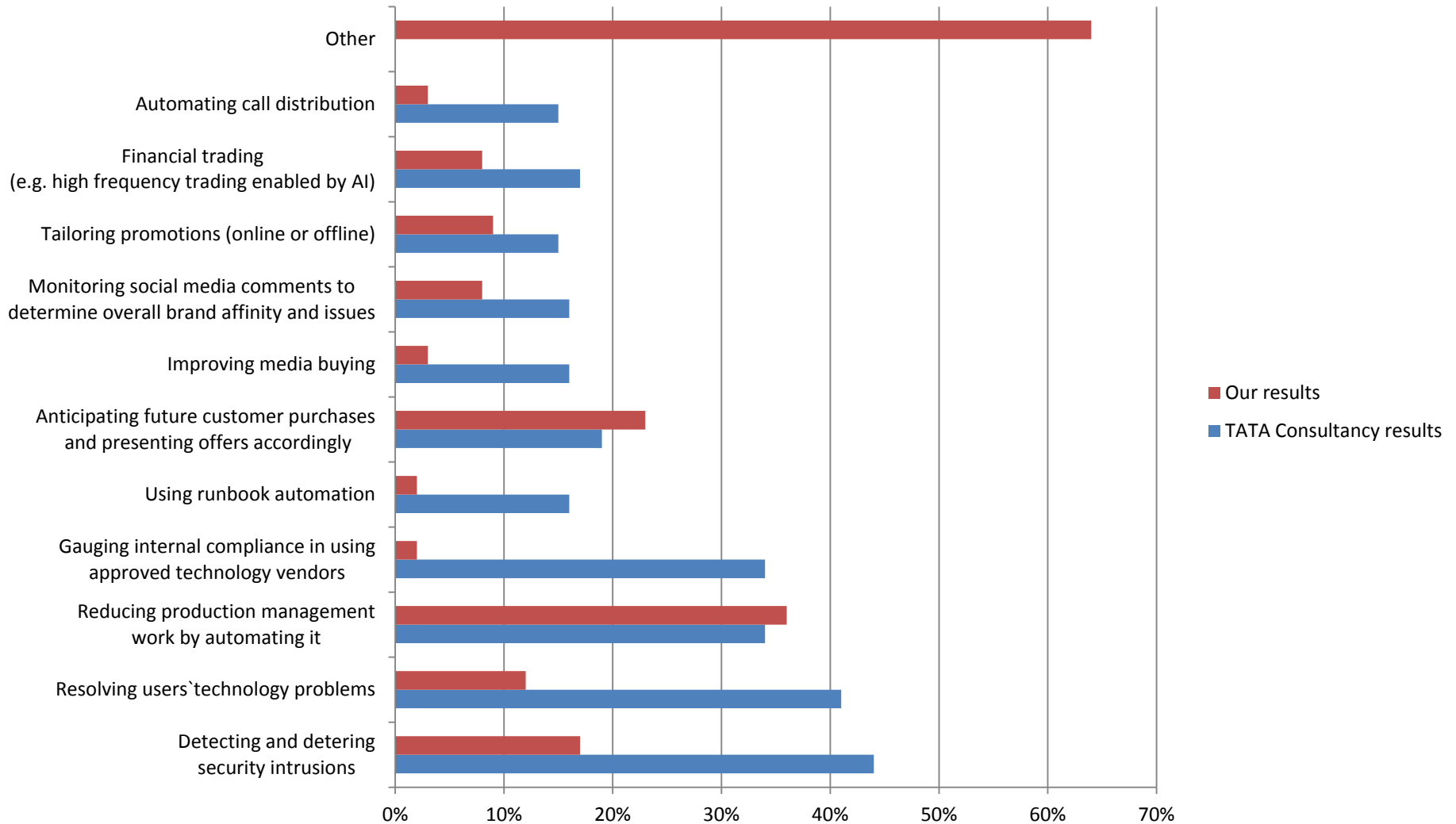
How Companies Around the World Are Using Artificial Intelligence

IT activities are the most popular.





How are companies around the world using AI?





Nationell inriktning för artificiell intelligens



Sök på regeringen.se

Sök

Sveriges regering
Statsråden och departementen

Regeringens politik
Detta görs Inom olika områden

Så styrs Sverige
Om regeringen, Regeringskansliet och EU

Regeringen satsar 40 miljoner kronor på vidareutbildning inom AI

Behovet av fördjupade kunskaper om artificiell intelligens (AI) är stort på arbetsmarknaden och i det övriga samhället. Regeringen gör därför en särskild satsning på högskoleutbildning inom AI som också ska främja det livslånga lärandet.

– Satsningen är en avgörande investering för framtiden. För mig är det oerhört viktigt att skapa förutsättningar för det livslånga lärandet inom ett så aktuellt område som AI. Inte minst eftersom kompetensförsörjningen är grunden för svensk innovations- och konkurrenskraft, säger Helene Hellmark Knutsson, minister för högre utbildning och forskning.

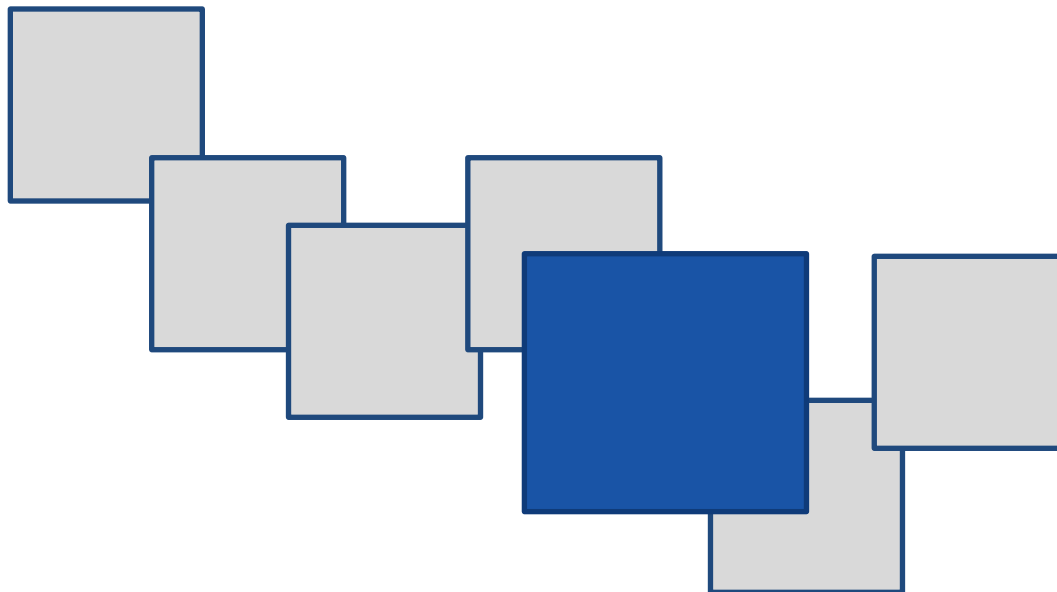
– Jag delar inte oron för att ny teknik ska ta jobben. Tvärtom tror jag att Sverige har goda förutsättningar att dra nytta av de möjligheter som AI ger att både skapa nya jobb och förbättra till exempel cancervården och

Regeringens nationella AI-inriktning

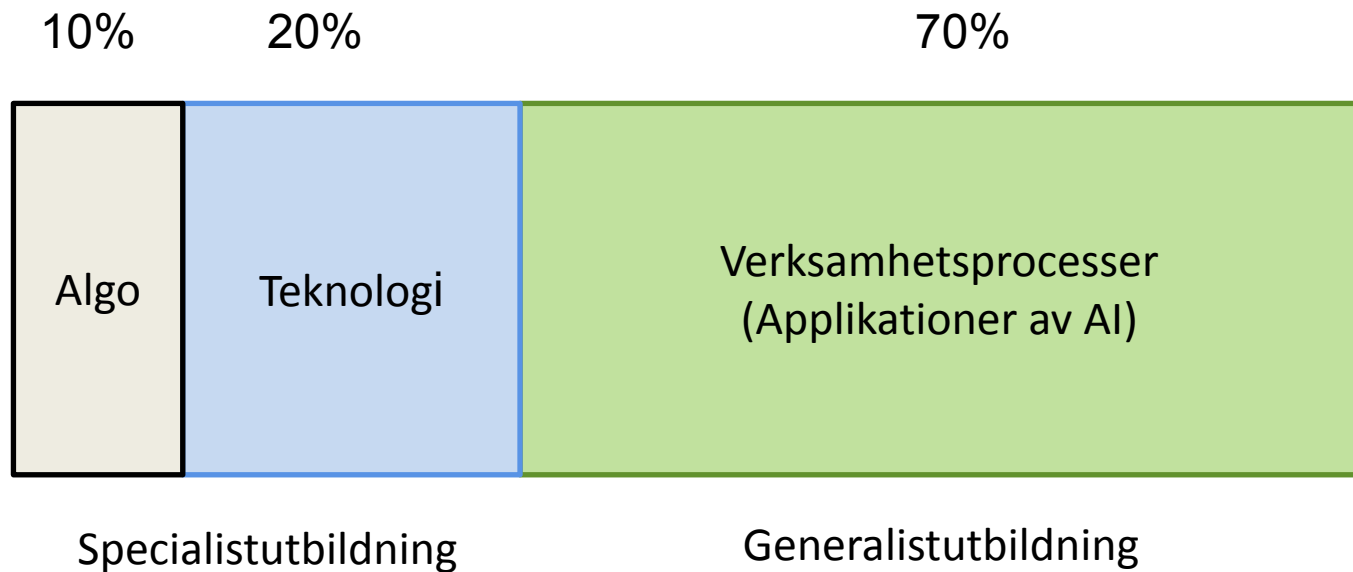
För att stärka svensk välfärd och konkurrenskraft ska Sverige vara ledande i att ta vara på möjligheterna med artificiell intelligens.

[> Pressmeddelande: Färdriktning för artificiell intelligens beslutad](#)

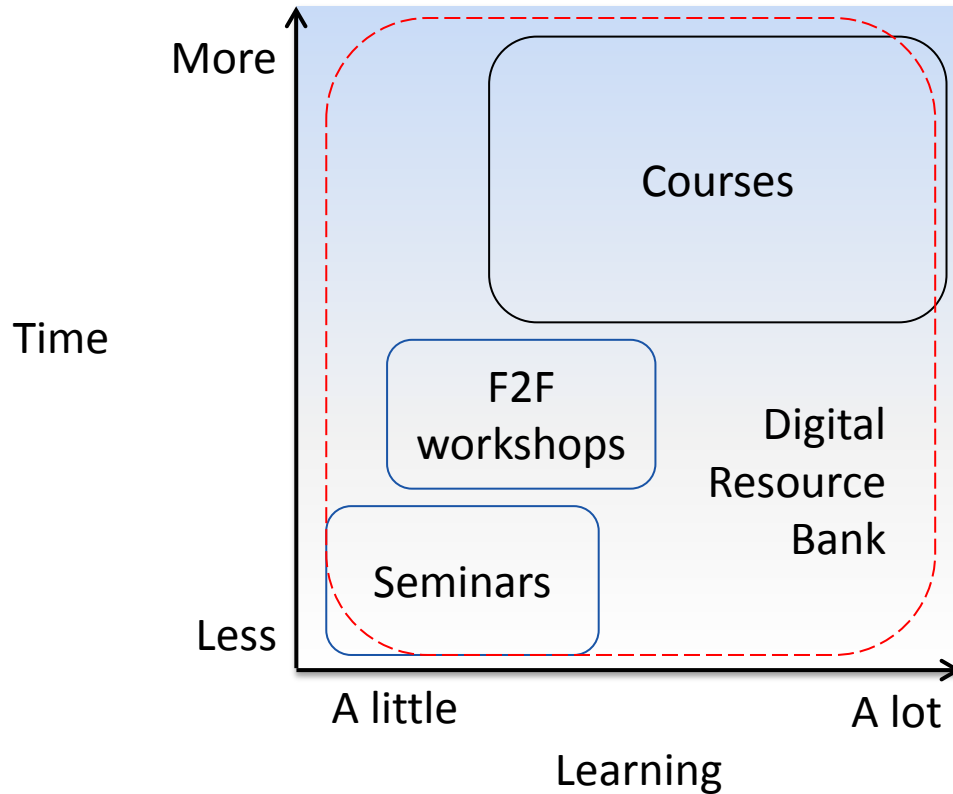
Our approach



Philosophy - AI is so much more than the algo!



General and specific AI knowledge



Different formats to motivate, educate and inspire

Education

Basic education

- Key people, leaders
- **8+8+8** hours (16 hours online and 8 in class at KTH)
- Under construction and ready to run in January

Course:

- Basic AI – Implications for organization and strategy

Specialist training

- Six different specialist courses
- Blended learning and flipped classroom
- Together with Stanford University

Courses:

- Neural Networks and Deep Learning
- Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization
- Structuring Machine Learning Projects
- Convolutional Neural Networks
- Sequence Models

Other formats

Workshops and seminars

- 1) Open workshops for:
 - Leaders and key people about AI and strategy

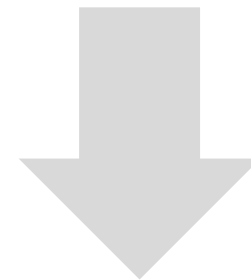
- 2) Tailor made workshops
 - Leaders and key people about AI and strategy

- 3) Seminars

- 4) Development innovation “garage” processes

Digital resource bank

A homepage we will set up with open AI resources (BETA VERSION)



Please give us some tips and help us fill it with good resources.