





Ready for the future?

Artificial Intelligence for your business

Laure Willemin - VP Engineering, Leadership Team - Data,
Analytics & Artificial Intelligence Group

Erick Caron - Executive in Residence, New Business
Management Team - Data, Analytics & Artificial Intelligence
Group

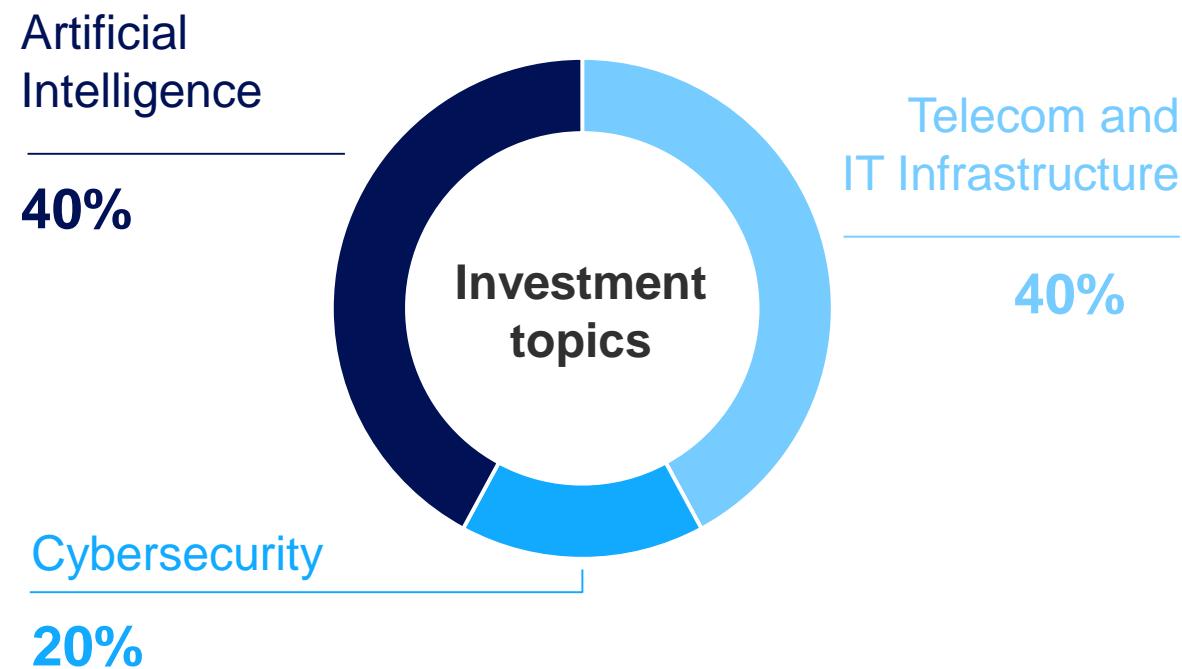






Digital Transformation Fund

Scope of investment





Paradigm Shift: The machine reaches out to us



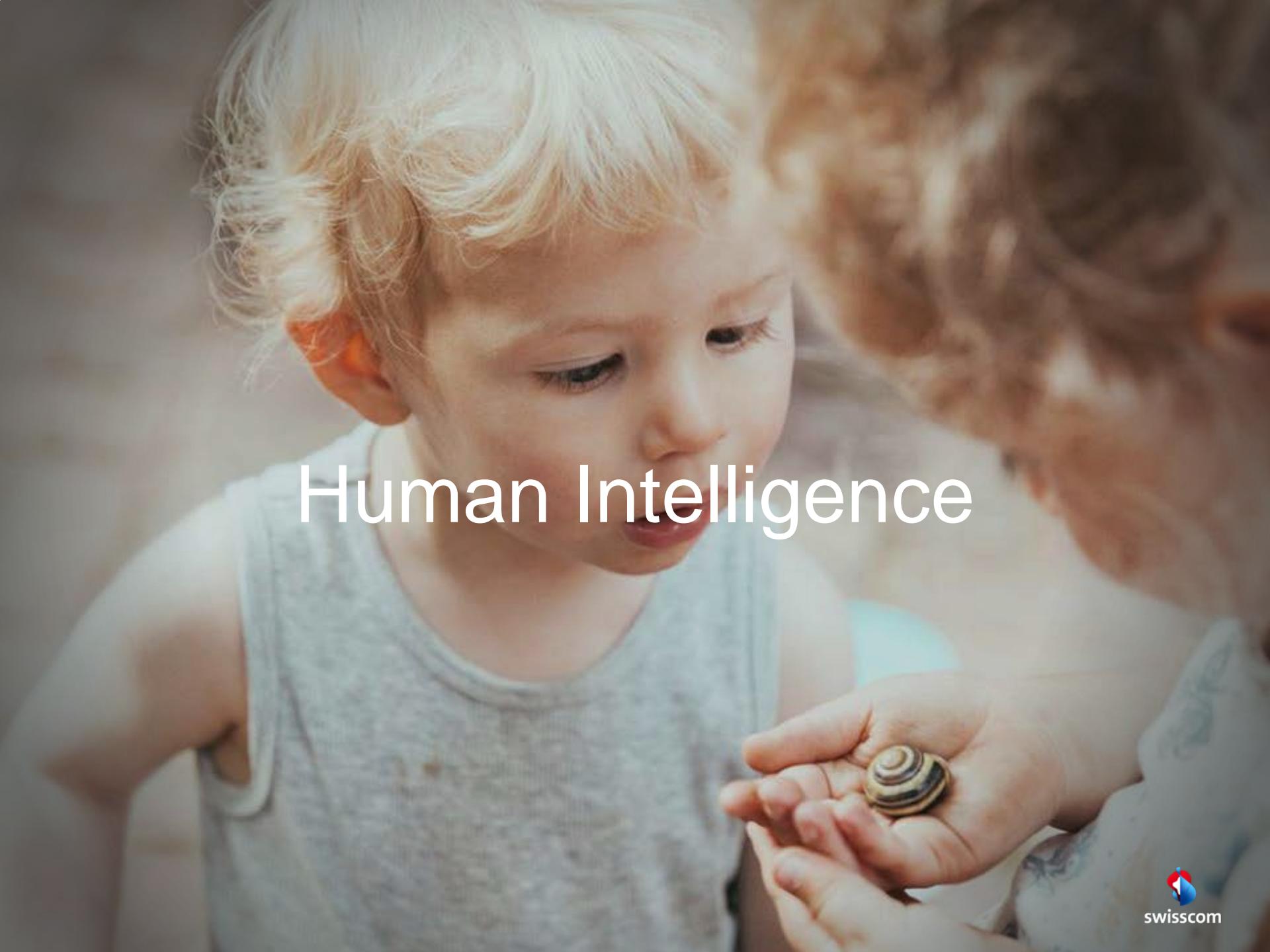
Using a machine

Old world | New world



Having a conversation

Laure Willemin - VP Engineering, Leadership Team
- Data, Analytics & Artificial Intelligence Group



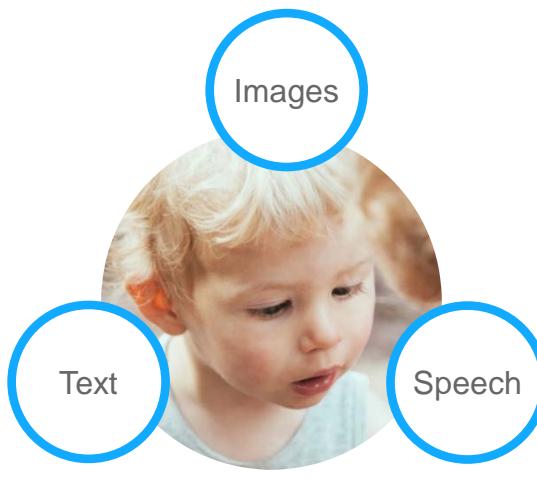
Human Intelligence



swisscom



More intelligent machines thanks to Artificial Intelligence



Understanding of **structured**
and **unstructured** data

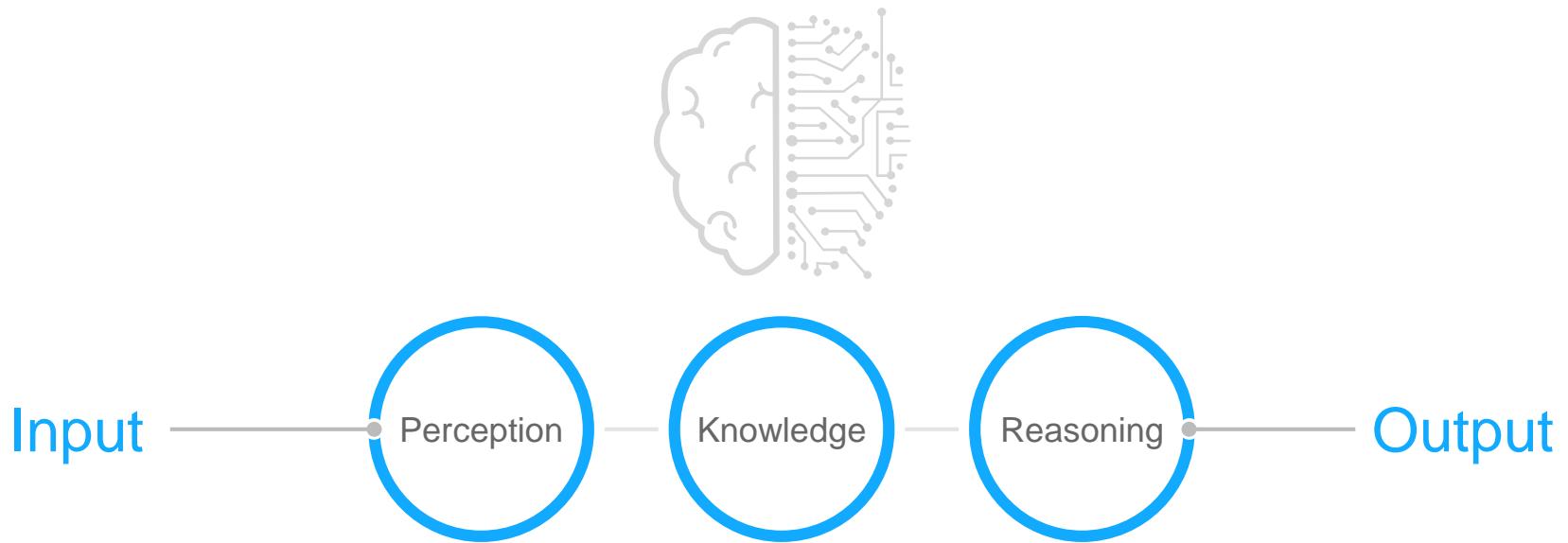
Learn



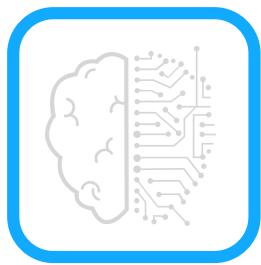
Understanding of **structured**
and **unstructured** data

Teach

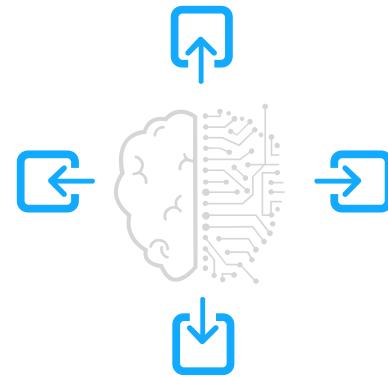
Components of Artificial Intelligence



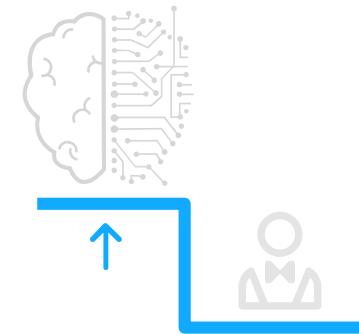
Three kinds of Artificial Intelligence



Artificial
Narrow Intelligence

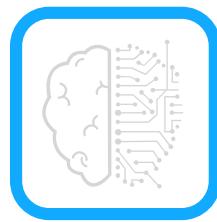


Artificial
General Intelligence



Artificial
Superintelligence

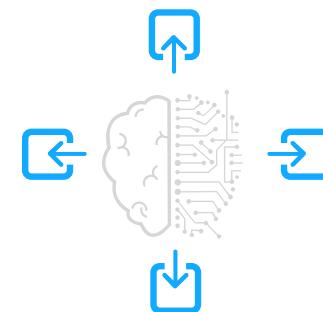
Four kinds of artificial intelligence



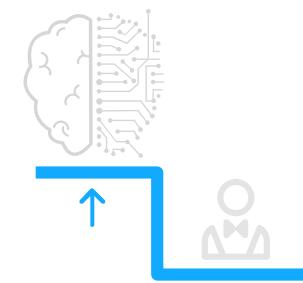
Artificial
Narrow Intelligence



Artificial
Useful Intelligence

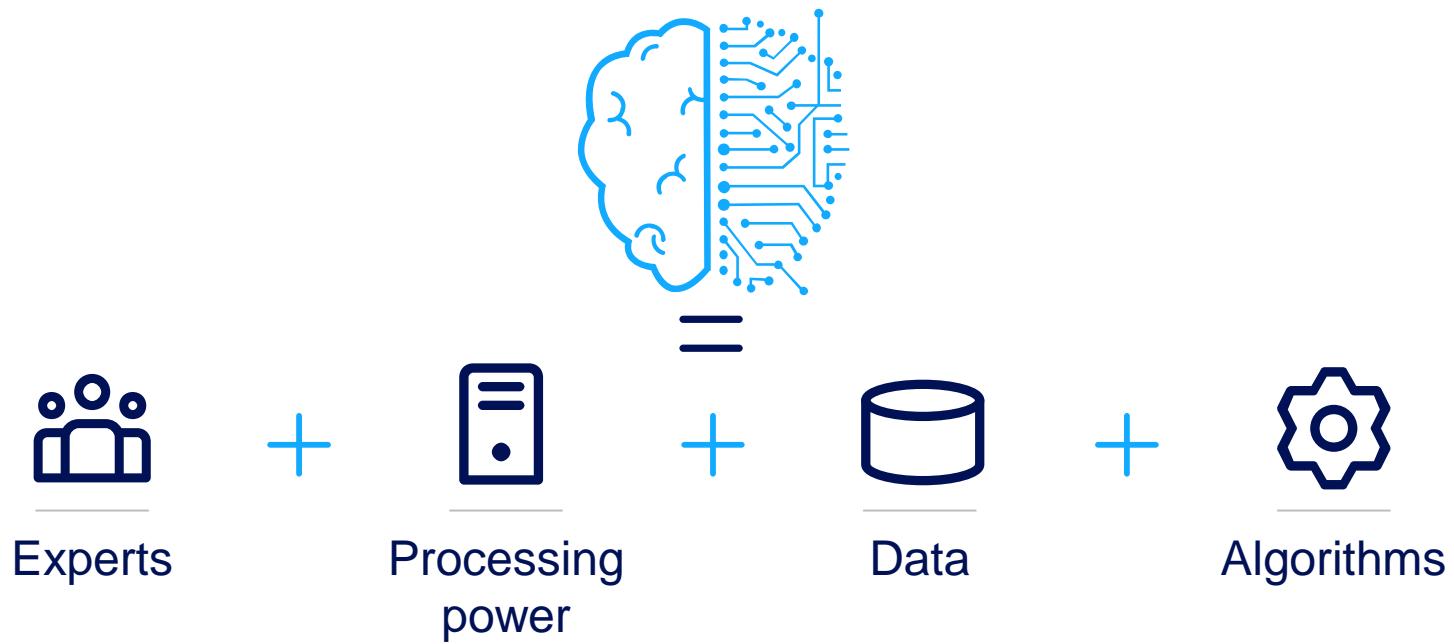


Artificial
General Intelligence



Artificial
Superintelligence

The recipe of Artificial Intelligence



Digitalization leads to rising processing power

ASCI Red



1996

The world's fastest
supercomputer achieves

1.8 teraflops

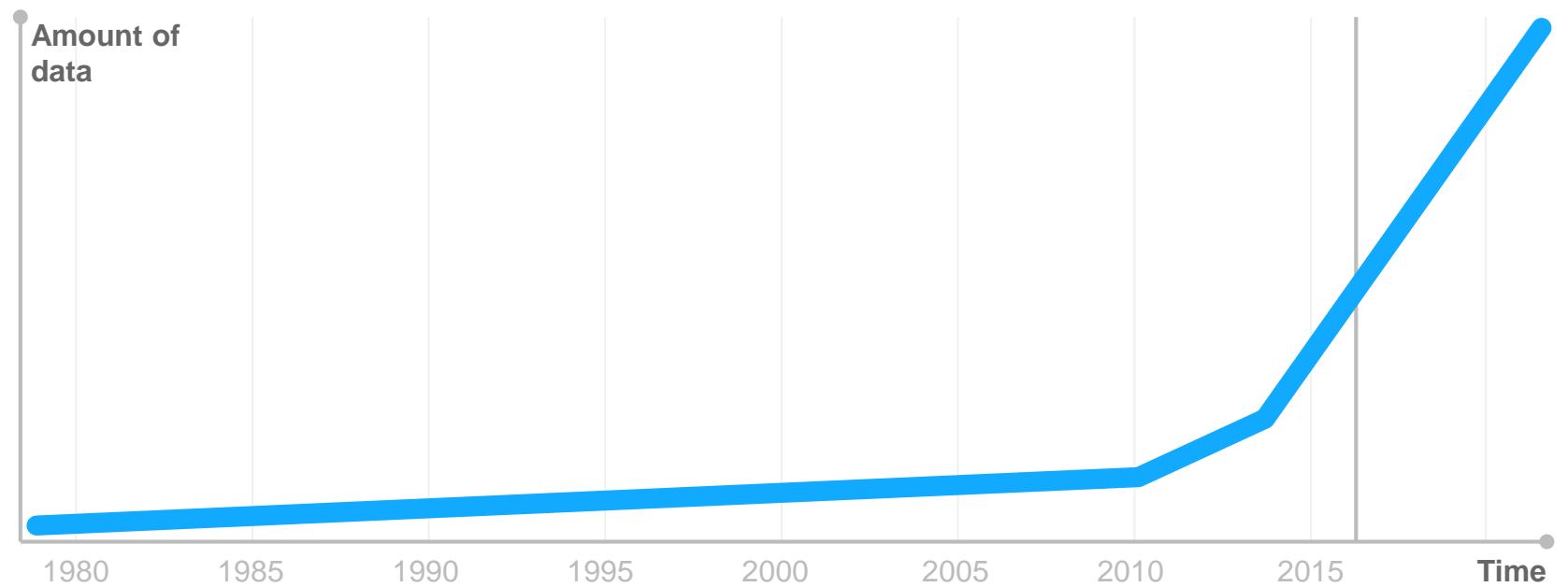
PS3
PlayStation 3



2005

The Playstation 3
achieves

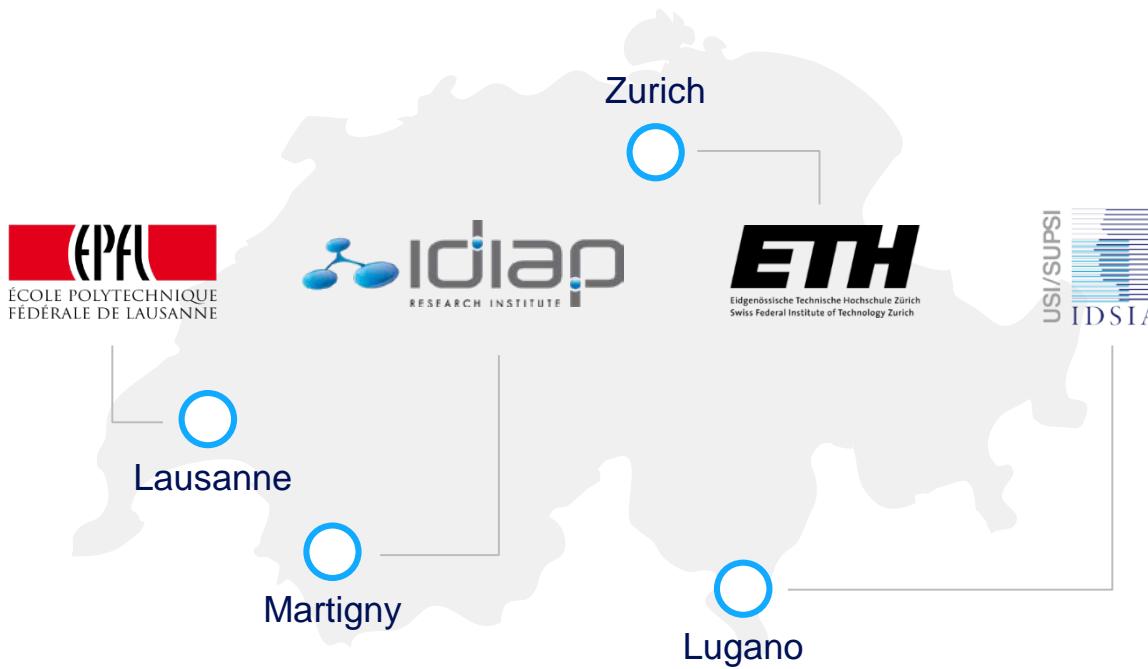
Digitalization has led to a huge increase in the amount of data





Artificial Intelligence at Swisscom

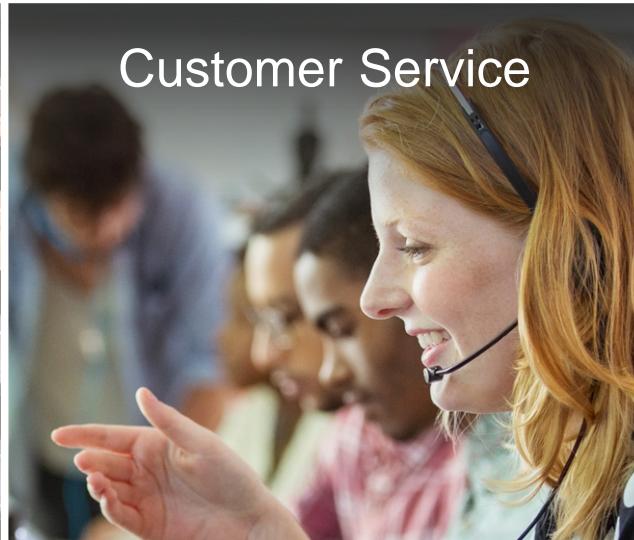
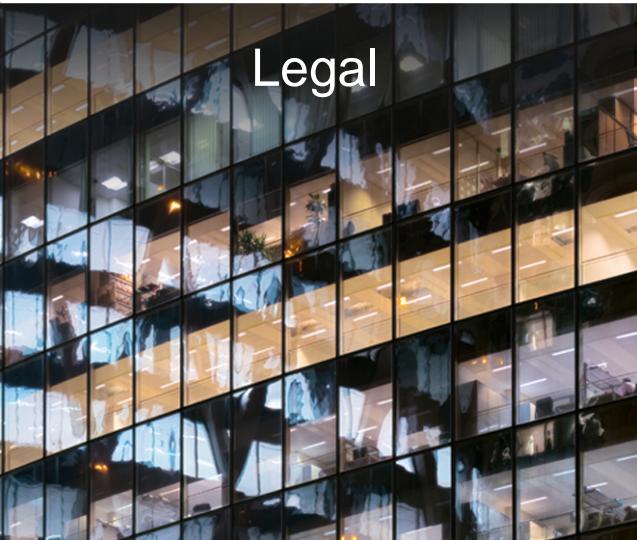
Rising student numbers for Artificial Intelligence





Swisscom's AI Team Know-How

- Data Science / AI Solution Design
- Data Exploration
- Data Labelling
- Machine Learning Model Creation (supervised or unsupervised)
- Machine Learning Model Evaluation
- AI Solution Design
- NLP – Text Classification, Sequence Modelling etc.
- Speech – Keyword Spotting, Domain Adaptation, Low-resource Languages
- UI & Dialog Design
- Native App & Web Development
- EAI & Backend Integration
- Contact Center Integration
- Contact Center DevOps
- IVR/Voice Portal Design & DevOps
- Software Testing
- User Experience Testing
- AI & Conversational DevOps
- Business Engineering & Design
- End2End Monitoring & Operation
- Reporting & Big Data Specialists



Swisscom – Some AI Use-Cases

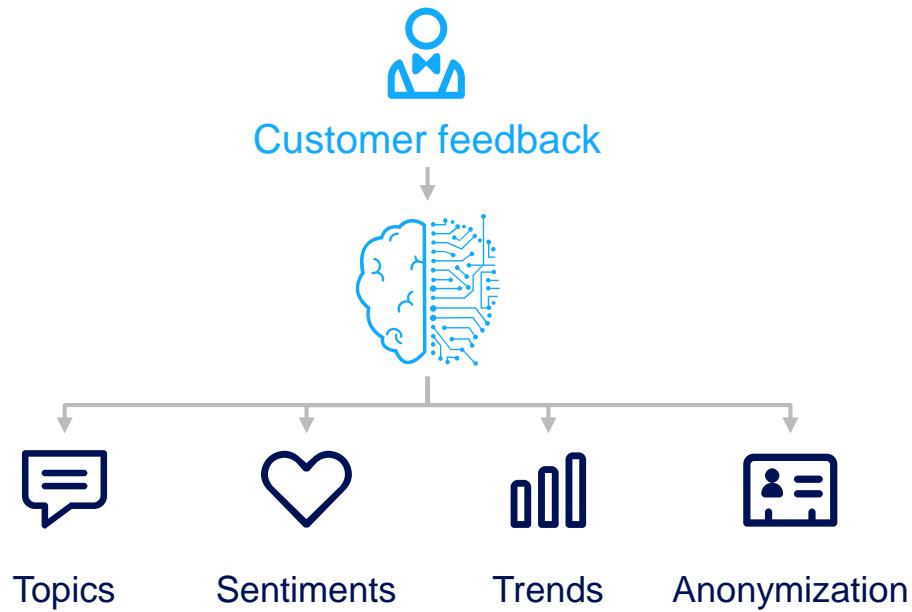


- **Aila:** Tool for labelling data
- **Sonar:** aggregates, analyses and summarizes customer voices from communication channels
- **Platform/AI enablers:** help companies to combine services in an easy way to solve their business challenges
- **Conversational IVR:** processes speech data
- **OTO. AI:** real-time coaching to contact centers sales agents

- **E-Mail Triage:** AI automatically forwards emails to the right agent
- **Ticket-Bot:** Improves incident management → Ticket preanalysis to reduce the number of incorrectly tickets
- **Tech Search:** Helps ENT engineers to find information faster
- **Marmo:** Used in call centers. It looks automatically for the right solution for the problem in the existing infrastructure across all sources. The results are displayed to the agent in real time

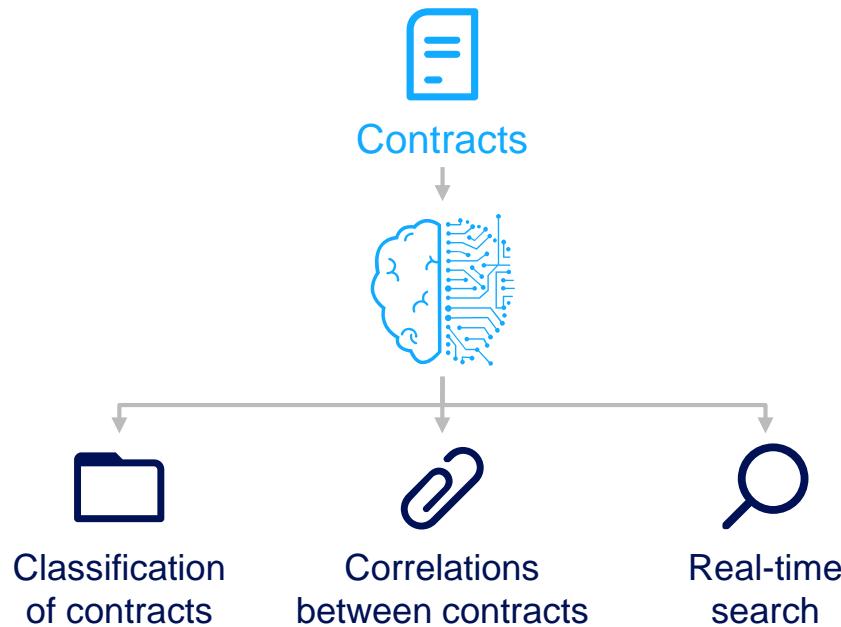


Artificial Intelligence for Customer Experience



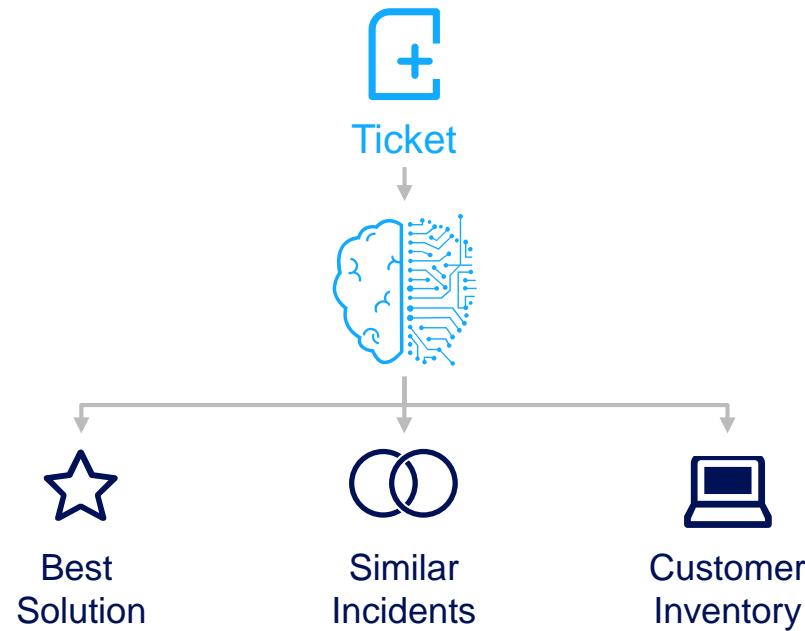


Artificial Intelligence for Legal & Compliance



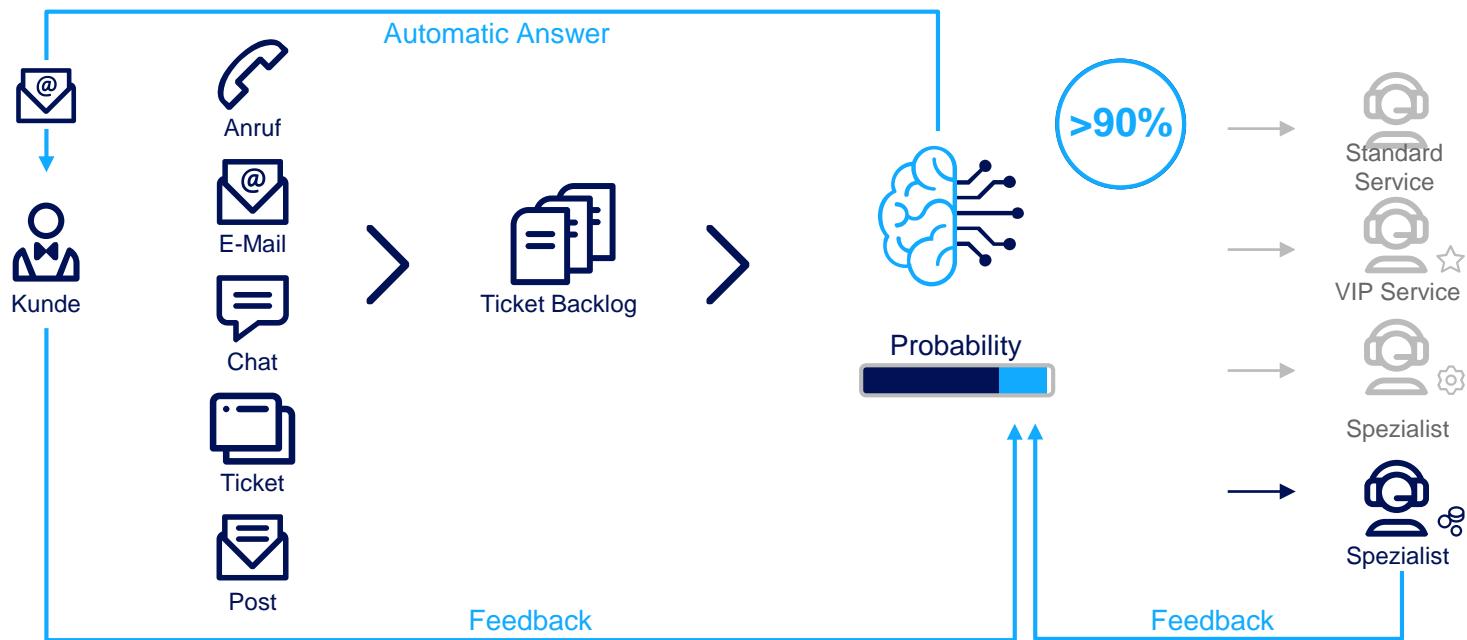


Artificial Intelligence in Customer Service



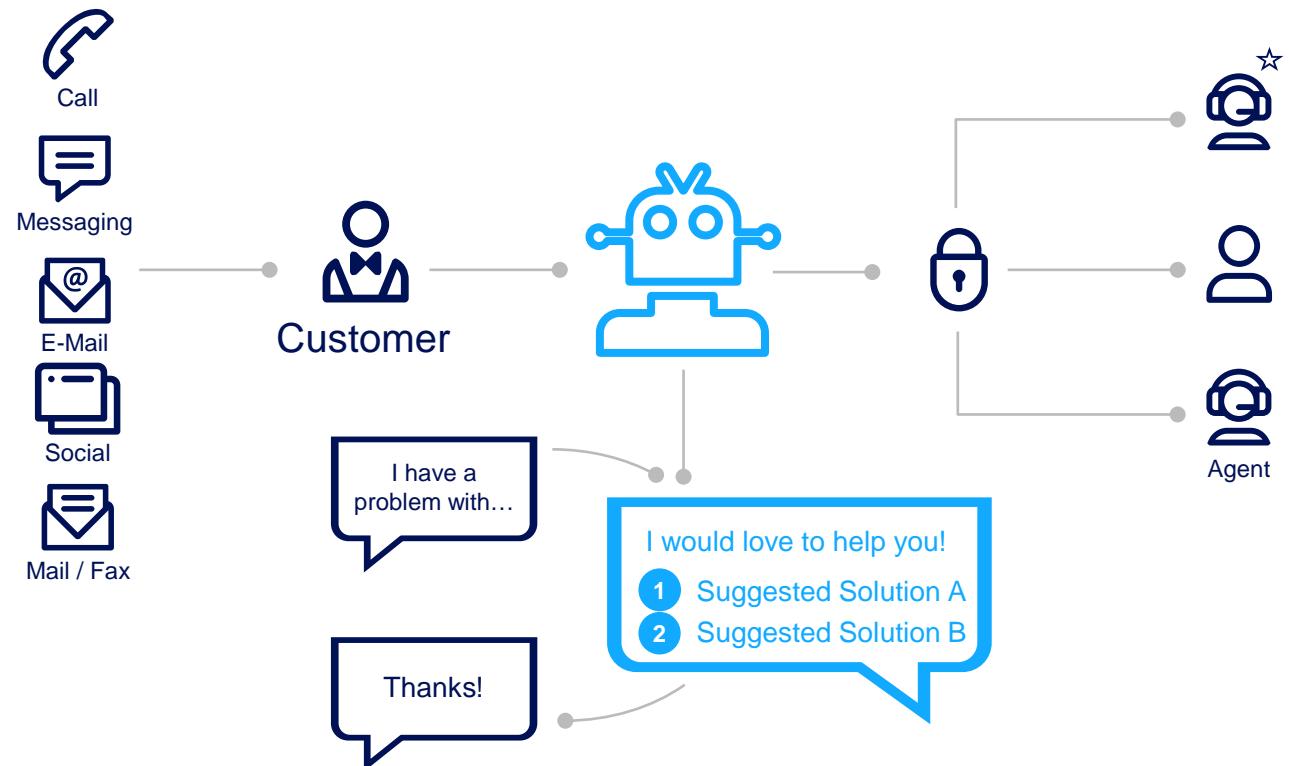


Text classification – example email triage





Chatbot



Swisscom Conversational Platform



Why use Artificial Intelligence from Swisscom?



People

Highly qualified consultants, developers and designers work in Swisscom's AI team.



Partner

Swisscom founded the Competence Center for applied AI in cooperation with ETH Lausanne (EPFL).



Technology

The AI components can be easily integrated into systems due to standardized interfaces.



Swissness

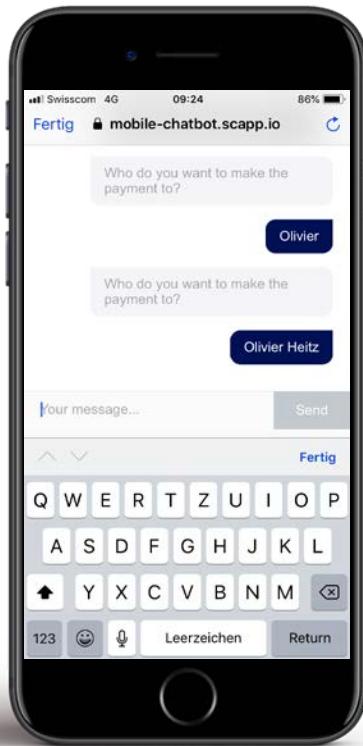
The AI components from Swisscom have been trained for the conditions of Swiss industries.



Security

Thanks to our network and our data centers you benefit from a reliable and safe infrastructure.

It's time for a demo





Many thanks !

Artificial Intelligence for your business

Laure Willemin - VP Engineering, Leadership Team - Data,
Analytics & Artificial Intelligence Group

Erick Caron - Executive in Residence, New Business
Management Team - Data, Analytics & Artificial Intelligence
Group



Questions



Laure Willemin
VP Engineering, Leadership
Team - Data, Analytics & Artificial
Intelligence Group



Erick Caron
Executive in Residence,
New Business Management
Team - Data, Analytics &
Artificial Intelligence Group