



bankenverband

GENDER  
diversity

# AI in Banking

Vienna, March 17<sup>th</sup> 2023

**Clemens Wasner**



@ClemensWasner



Clemens Wasner

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# Talking Points



**Why AI?**



**State of AI**



**AI in Banking**

# #1 Why AI?



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2012

2016

2017

2018



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2012

2016

2017

2018



2012

2016

2017

2018

TECHNOLOGY AND IIOT

## AI Could Add \$15 Trillion to Global Economy by 2030

Amid warnings of the economic disruption that robots and automation could unleash, researchers are finding that new technologies will help fuel global growth as productivity and consumption soar.

Bloomberg

JUN 29, 2017



## 50 National Artificial Intelligence Policies as at February 2020.

2012

**Argentina**  
November 2019, 'National Plan of Artificial Intelligence'. Falls under the Innovative Argentina 2030 Plan and the 2030 Digital Agenda.

**Canada**  
2017 federal budget announced five-year, \$125m plan. Led by CIFAR. Research and talent focus. First National AI Strategy.

**Denmark**  
March 2019, Denmark announced the 'National Strategy for Artificial Intelligence' with four key objectives.

**Hungary**  
October 2019, Hungary announced an AI Action Plan, the first pillar of a national AI strategy, expected in 2020.

**Italy**  
March 2018, AGID released a White Paper called 'AI at the service of citizens,' which was edited by the AI Task Force.

**Malaysia**  
2018, Malaysia revealed a National Artificial Intelligence Framework expanding the National Big Data Analytics Framework.

**Norway**  
January 2020, Norway issued its National Strategy for Artificial Intelligence.

**Qatar**  
October 2019, National AI Strategy as a blueprint produced by Qatar Computing Research Institute (QCRI).

**South Korea**  
May 2018, five-year AI development plan launched with \$195B budget.

**Tunisia**  
AI Task Force and Steering Committee to develop a national AI strategy. The strategy was scheduled to be published in the first quarter of 2019.

**Australia**  
November 2019, AI Roadmap focused on specialization in health, infrastructure and natural resources. Planning for an additional 161,000 AI specialists by 2030.

**Chile**  
Expected April 2020. Ministry of Science, Technology, Knowledge, and Innovation created a committee of 10 experts to develop.

**Estonia – Kratts Strategy**  
May 2019, Estonian AI experts, led by government CIO produced a roadmap, later adopted as the Estonian National AI Strategy in July 2019.

**India**  
June 2018 working paper on using AI to ensure social growth, inclusion and positioning the country as a leader in AI.

**Japan**  
March 2017, Japan's AI policy, the 'Artificial Intelligence Technology Strategy,' was announced second only to Canada with 'Society 5.0'.

**Malta**  
October 2019, 'A Strategy and Vision for Artificial Intelligence in Malta 2030' Malta.ai launched and aspiring to be the 'Ultimate AI Launchpad'.

**Pakistan**  
Presidential Initiative for Artificial Intelligence launched December 2018, focused on training beginners in AI and advanced technology.

**Russia**  
October 2019, Russia published its National Strategy for the Development of Artificial Intelligence by 2030.

**Spain**  
March 2019, the Spanish Ministry of Science, Innovation and Universities launched the RDI Strategy in Artificial Intelligence.

**United Arab Emirates**  
October 2017 announced strategy. First country to create a Ministry of AI and first in the Middle East to launch an AI strategy.

**Austria**  
June 2019, 'Artificial Intelligence Mission Austria 2030 (AIM AT 2030)'. Outlines seven fields for which AI will be critical

**China**  
July 2017, China launched the most comprehensive AI strategy globally with 2030 targets for a \$1T RMB AI industry.

**Finland**  
June 2019, 'Leading the Way into the Age of Artificial Intelligence' identified 11 key actions following May 2017 Steering Group announcement.

**Indonesia**  
Indonesian Artificial Intelligence Society (AIS) inaugurated under Smart Indonesia in October 2019. National Strategy expected in 2020.

**Kenya**  
January 2018, government announced task force to create a five-year strategy on national use of emerging technologies.

**Mexico**  
June 2018, 'Towards an AI Strategy in Mexico: Harnessing the AI Revolution', serves as a foundation for building full AI strategy.

**Philippines**  
November 2019, AIM, Aboltiz School of Innovation, Technology and Entrepreneurship (ASITE) appointed to craft an AI roadmap.

**Saudi Arabia**  
September 2019, Royal decree to establish an AI center, to align with the Kingdom's Vision 2030 program.

**Sweden**  
National Approach for Artificial Intelligence launched in May 2018.

**United Kingdom**  
April 2018, 'Sector Deal' announced. \$1.24B funding as part of the UK's larger industrial strategy.

**Belgium**  
March 2019, 'AI 4 Belgium' launched and includes seven major objectives.

**Colombia**  
November 2019, first draft issued for 'National Policy for Digital Transformation'. Medellín to become an AI & Robotics Centre of Excellence.

**France**  
E1.5 billion plan announced in 2018 influenced by the 'Villari Report' to transform France into a global leader in AI.

**Ireland**  
Irish Economic Development Agency led process. AI Master program launched in 2018 and is 100% industry driven.

**Lithuania**  
April 2019, Artificial Intelligence Strategy announced 'to modernize and expand the current AI ecosystem and ensure that the nation is ready'

**Netherlands**  
November 2018, AINED published a roadmap for developing a full national strategy.

**Poland**  
November 2019, 'Assumptions for the AI strategy in Poland' as an action plan towards developing an AI strategy.

**Singapore**  
May 2017, AI Singapore is a five-year, \$350 million national program launched in to enhance Singapore's capabilities in AI.

**Switzerland**  
An Artificial Intelligence (AI) expert group has published its recommendations for a Swiss AI strategy.

**United States of America**  
February 2019 by Executive Order to promote and protect AI technology. AI.gov launched Mar 2019. Followed by the National Artificial Intelligence Research and Development Strategic Plan.

**Brazil**  
Consultation period ended January 2020. Building a network of eight research facilities focused on artificial intelligence.

**Czech Republic**  
May 2019, 'National Artificial Intelligence Strategy of the Czech Republic' was launched.

**Germany**  
E3 billion plan announced Nov 2018 with a dedicated AI strategy to make Germany & Europe a global leader in AI.

**Israel**  
Innovation Authority, tasked with AI policies, has warned that a strategy is needed to prevent falling behind.

**Luxembourg**  
May 2019, launched 'Artificial Intelligence: a strategic vision for Luxembourg'.

**New Zealand**  
May 2018, AI Forum of New Zealand, released 'Artificial Intelligence: Shaping a Future New Zealand.'

**Portugal**  
February 2019, 'AI Portugal 2030', seeks strengthen economic growth, scientific excellence, and human development using with AI.

**South Africa**  
Intsimbi Future Production Technologies Initiative' launched in 2018 with aim to advancing manufacturing sector.

**Thailand**  
Thailand's Digital Economy and Society (DES) Ministry has drafted the country's first artificial intelligence (AI) ethics guidelines.

**Vietnam**  
Ministry of Information and Communications developing a broad AI strategy.

Source: HolonIQ and source government strategy and policy papers.

www.holoniq.com

# #2

## State of AI



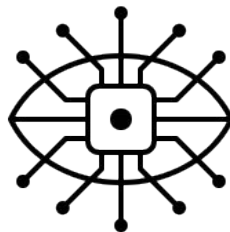


# State of AI Technology

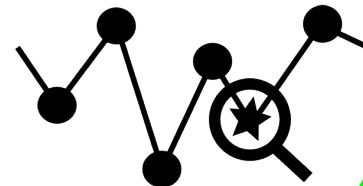
Forecasting  
& time series analysis



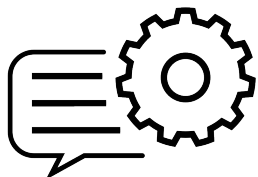
Computer  
Vision



Anomaly detection



Natural Language  
Processing



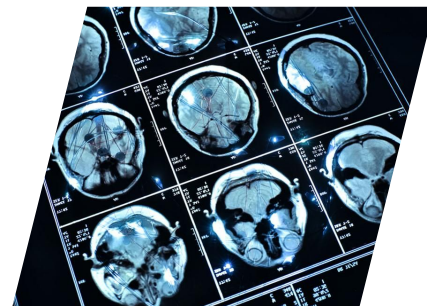
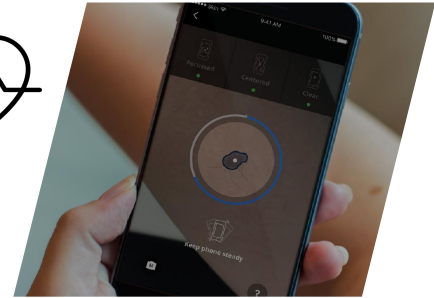
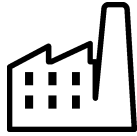
Speech Processing  
& Chatbots



“Think of today’s AI like 10.000  
interns at your disposal”

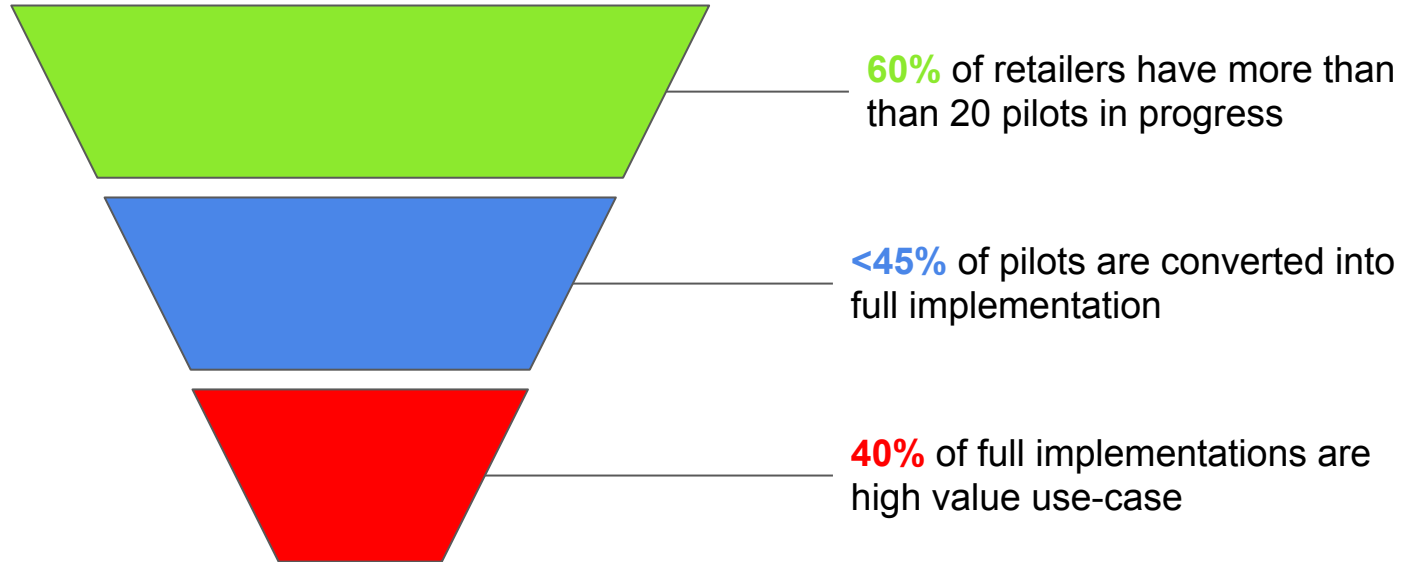
Andrew Ng, fmr. Head of Google X

# State of AI Business



# Status of global adoption

## Example Retail

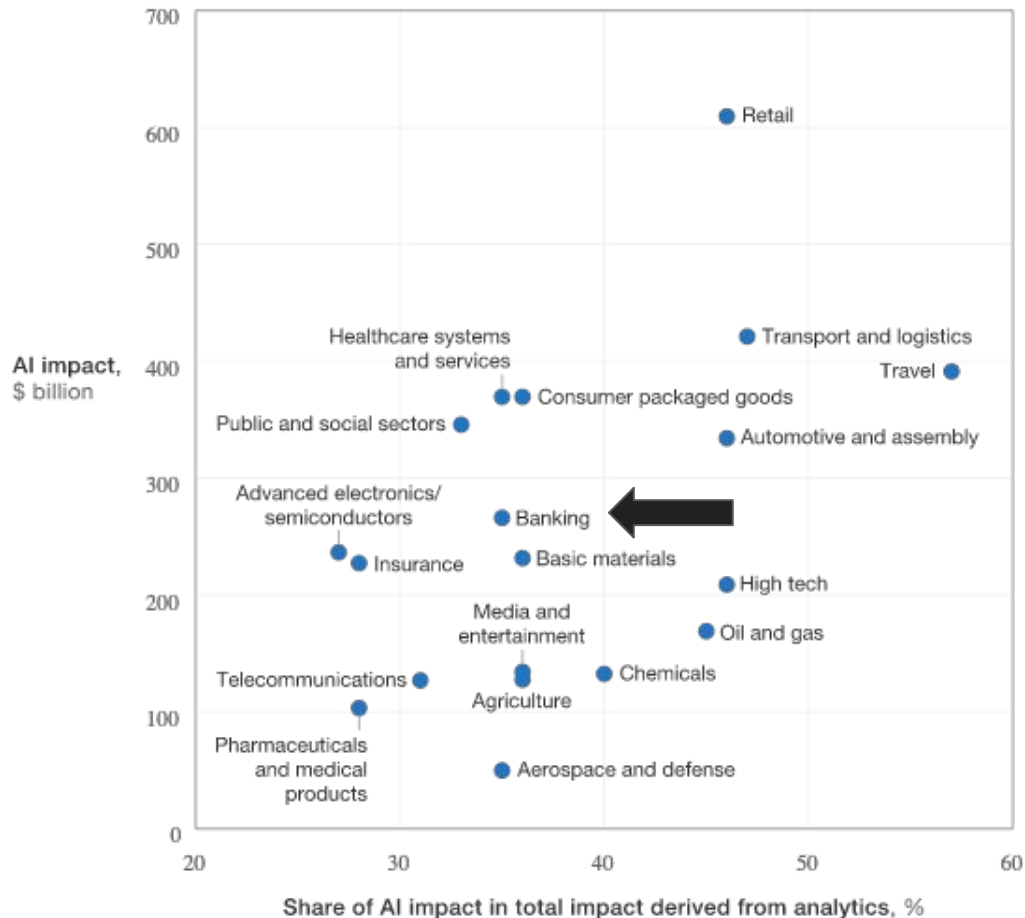


# # 3

## AI in Banking

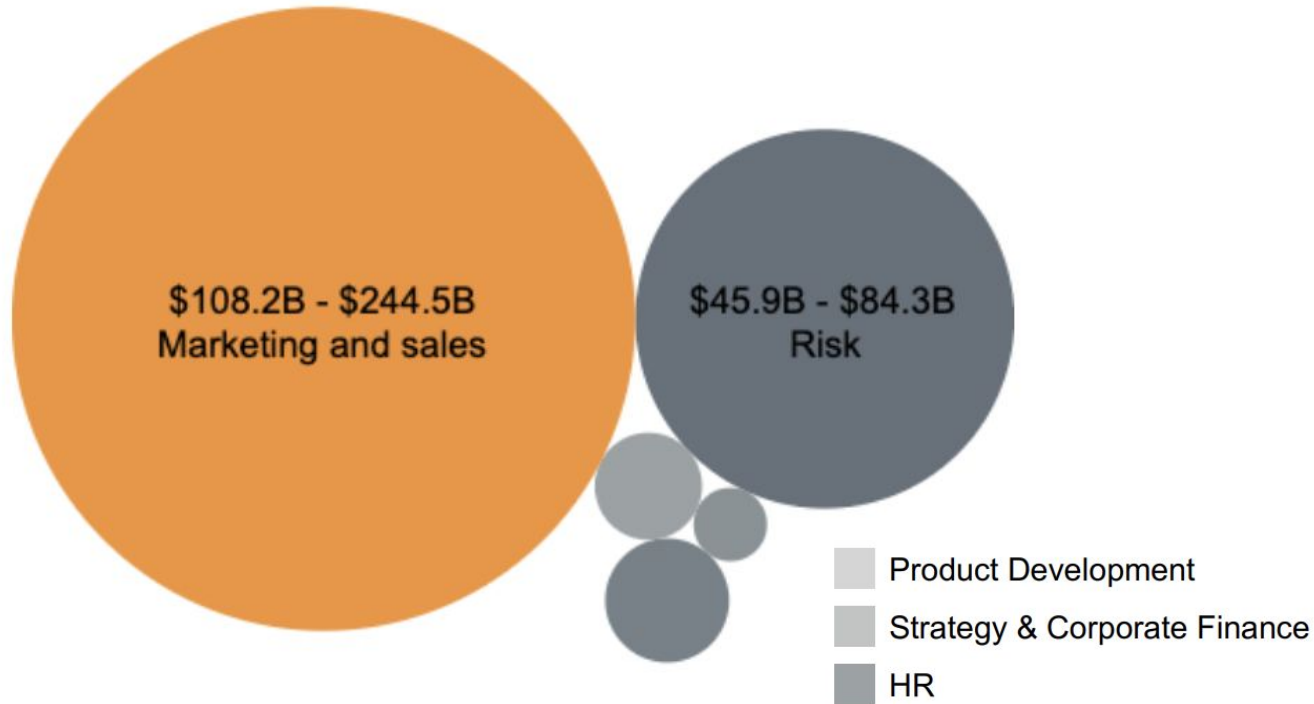


# Welche Branchen & Sektoren profitieren am stärksten von AI?





# AI in Banking - Expected annual effects



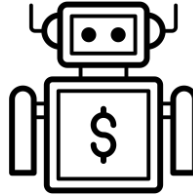
Source: McKinsey, April 2018 "visualizing the uses and potential impact of AI and other analytics"

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# Applications across the value chain



**Wealth  
Management**



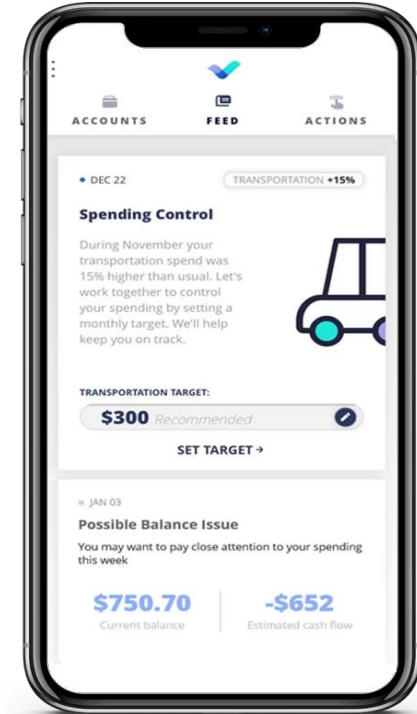
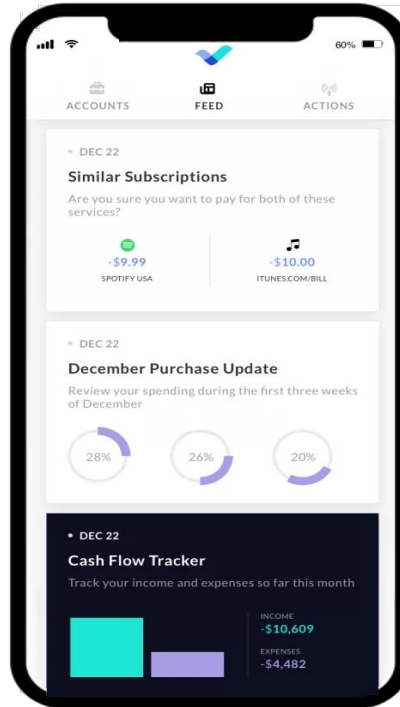
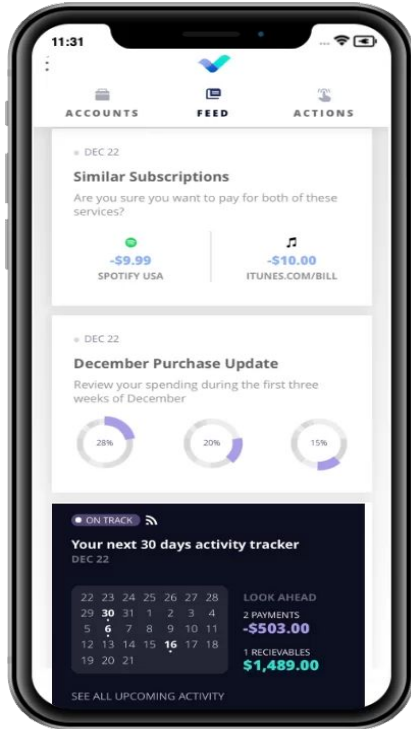
**Robo Advisors**



**Financial  
Wellness**



# Personetics Personalized Customer Engagement



# Financial Wellbeing **with an Austrian twist**

**-28,00€**

Montag 28 März 2022

28.03.2022

POS 28,00 AT D14 25.03. 12:42 O STIEGL  
AMBULANZ WIEN 1090

KATEGORIE



**Gesundheit**

Gesundheit



**TRANSAKTION AUSSCHLIESSEN**

Bewegung von Finanzmanager ausschließen



# Case study 2



The image shows a screenshot of the VISE website landing page. The page has a dark background with white text and blue accents. At the top, there is a navigation bar with the VISE logo, links for 'Product', 'A New Way', and 'About Us', and buttons for 'Login' and 'Request demo'. The main headline reads 'Intelligence-driven investing. Made easy.' Below this is a sub-headline: 'Technology to build hyper-customized portfolios. Powerful intelligence to supercharge client growth.' A list of three bullet points follows: 'Build a portfolio in minutes', 'Dedicated 1:1 partnership', and 'Low account minimums'. A 'Request demo' button is located at the bottom left. On the right side, there are two large, glowing blue coins with intricate designs, one in the foreground and one slightly behind it.

VISE Product A New Way About Us Login Request demo

## Intelligence-driven investing. Made easy.

*Technology to build hyper-customized portfolios. Powerful intelligence to supercharge client growth.*

- ✓ Build a portfolio in minutes
- ✓ Dedicated 1:1 partnership
- ✓ Low account minimums

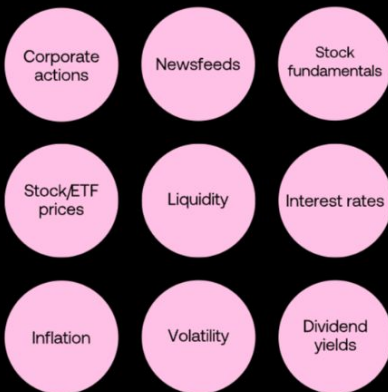
Request demo



# Vise AI

## Technology powered asset management

### Market inputs

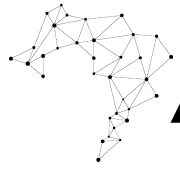


### Client inputs



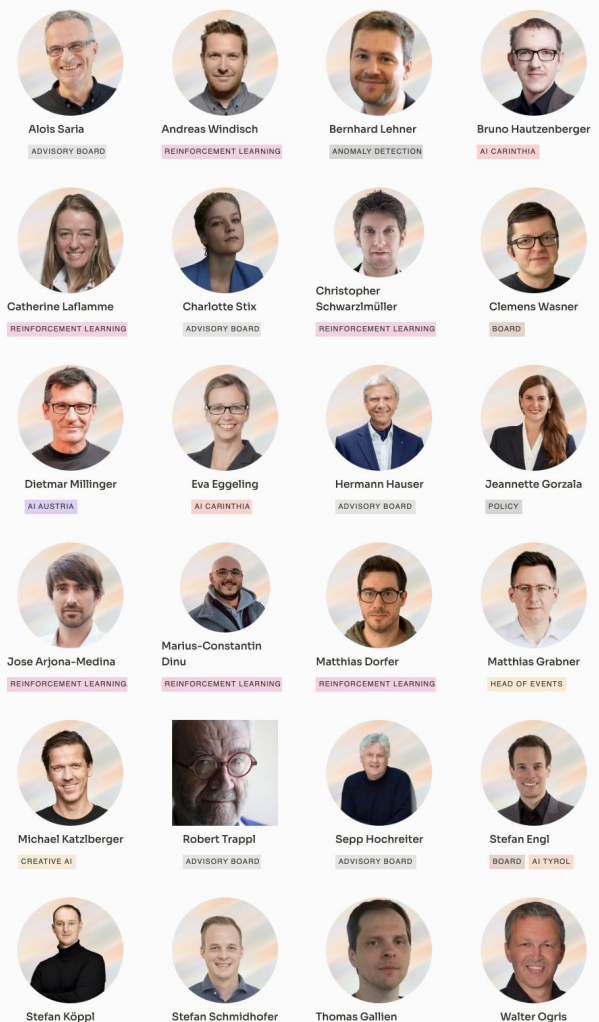
### Advisor inputs





# AI AUSTRIA

- Non-Profit to support the development of the Austrian AI ecosystem
- Established in 2018
- 100% independent
- [www.aiaustria.com](http://www.aiaustria.com)



# How to reach us



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# Contact



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