

presentation

# Austrian State of AI

Innsbruck, April 19<sup>th</sup> 2024



**Clemens Wasner | AI Austria**

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Clemens Wasner



# AI AUSTRIA

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



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Michael Katzlberger



Robert Trapp



Sepp Hochreiter



Stefan Engl



Stefan Köppl

“Wenn die Welt einmal untergehen sollte, ziehe ich nach Österreich, denn dort passiert alles 50 Jahre später.”

Gustav Mahler, (1860 - 1911),  
österreichischer Dirigent und Komponist

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# AI Landscape Austria

## Key Facts

**300+** Companies & startups<sup>1</sup>

**10%** AI Startup YoY growth rate

**50+** Universities & Research institutions

**50+** International players

**70+** Ecosystem players  
e.g organizations, investors,...

**3** Ellis Units<sup>2</sup>

**70%** of startups received public  
funding

**3x** huge uptake in female  
(co)founders in 2022

<sup>1</sup>excluding general IT service providers with AI capabilities

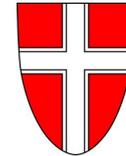
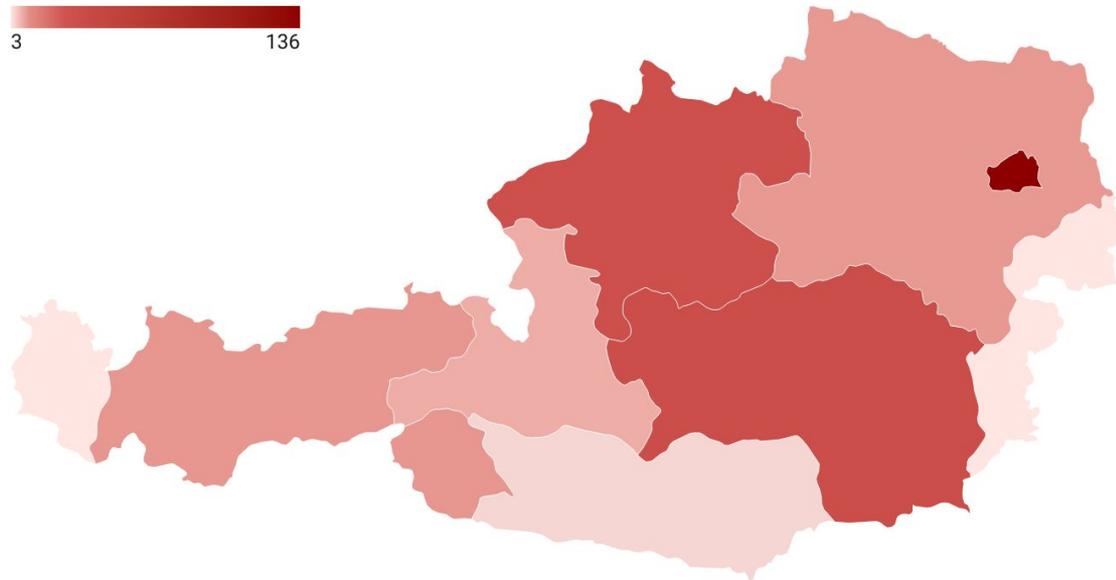
<sup>2</sup>Austria is home to 3 out of 39 Ellis units, making it the country with the highest density of top AI research institutions per capita

# Geographic distribution

## 85% of all startups located in 3 regional hubs

### AI company distribution

Distribution of AI companies and startups, based on location of headquarter



**~55%**

of startups  
located in Vienna



**~30%**

in Styria  
& Upper Austria

Map: Clemens Wasner • Source: <https://www.ai-landscape.at> • Created with Datawrapper



# LANDSCAPE AUSTRIA 23



[www.AI-Landscape.at](http://www.AI-Landscape.at)

## AI STARTUPS & COMPANIES

<b>AgriTech &amp; FoodTech</b> Beebe, FAREBOOK, METOS, Pixofarm, SMARTSOU, smkTec	<b>Big Data</b> EPHORE, Digma, GONARISE, HESKUS, KIVU, nexyo, symflow	<b>Green &amp; CleanTech</b> alteso, BRAINBOX AI, misteriaize, NISTA, PagaHarm	<b>EdTech</b> EdTech	<b>Energy &amp; ClimateTech</b> ENERGY, ERI, fairocon, PowerBot, service-w	<b>Enterprise</b> CYARA, EDDI, Microsoft, SAP, Siemens, ubitec
<b>Frameworks</b> MAZE, NAVIO, KNECCTON, rskine	<b>FinTech, InsurTech &amp; RegTech</b> dolphin, moneycare, KNOX, SPARTAN, twingz	<b>Gaming</b> ATLAS	<b>GeoAI &amp; Asset Inspection</b> Datatix, N VISION, STRUCINSPECT	<b>Health &amp; MedTech</b> BRIGHTMIND, Celerix, clir, cogivis, Diagnosis, medius, TREATOR MEDICAL	<b>LegalTech</b> App-Radar, LeReTo, JAAPER.DS
<b>HR Tech</b> DAPHOS, employaa, jobiq	<b>Image &amp; Video Processing</b> NTLINE, CarCutter, GDEKI, forlan, ivii, kaledo, LALAHO, Mokker, play, QUANTIFACE, Snap Inc., SWARM	<b>Industry &amp; Robotics</b> AGILITI, Aeliaz, GYROCONCEPT, craftworks, INNOX, VISIO, partum, visplare, WORKHELD	<b>Language &amp; Text</b> Kodak, RCI, Rinsler, Pricedock, READ, TactiView, Tobby	<b>Logistics</b> LeReTo, JAAPER.DS	
<b>Marketing &amp; Media Analytics</b> advertising, JENTIS, newsodoo, lyzard	<b>MediaTech</b> Mentaliti, DISCOVER, Legitry, HIRSCHENBERGER	<b>Mobility</b> AFIVO, MOTION3D, STUBiq	<b>Privacy</b> Celantur, MOSTLY.AI	<b>Productivity</b> 500, field, proXX, SDOXX	<b>Retail &amp; Commerce</b> Circly, D E T E G O, checkins, danube.ai, DETE G O, SHITRACKER, smartengine, ZOO
<b>Sales &amp; Marketing</b> 3LIOT.ai, emarsys, FINMATICS, QUIMATIC.AI, Redem, smec	<b>SportsTech</b> Z'NE14	<b>SupplyChain</b> D'AVILA, MAGNA	<b>FinTech &amp; InsurTech</b> BLU DELTA, digicust, optadaba, yakov	<b>Tourism</b> MATIAS, VISITORS	<b>Travel &amp; Hospitality</b> Daki, GFK, Impact AI, sciable, Syntelligence, System

## EARLY ADOPTERS

<b>Corporate</b> A1, ANDRIZ, ARBATA, AT&S, AVL, brantner, bitpanda, Caritas, ecom, FFI, GoStudent, Infireon, MAGNA, Kaffeehaus Bank, SPRINGER, TRICENTIS, TITech, undaschgroup ventures, DIGITAL SOLUTIONS	<b>Development &amp; Consulting</b> BRZ, ISV, L_NIZ, StadtWien, GeoSphere Austria
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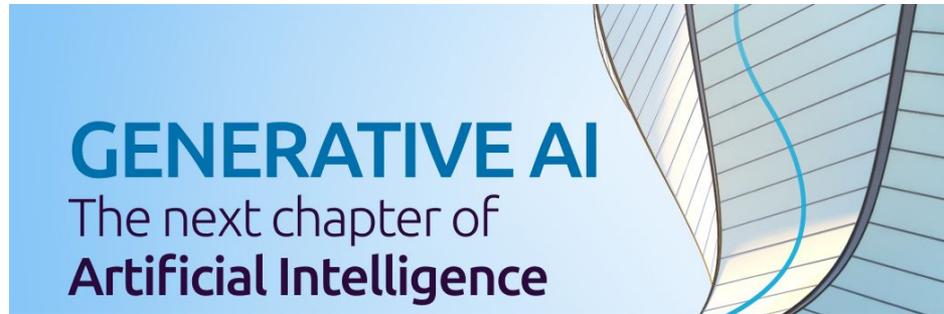
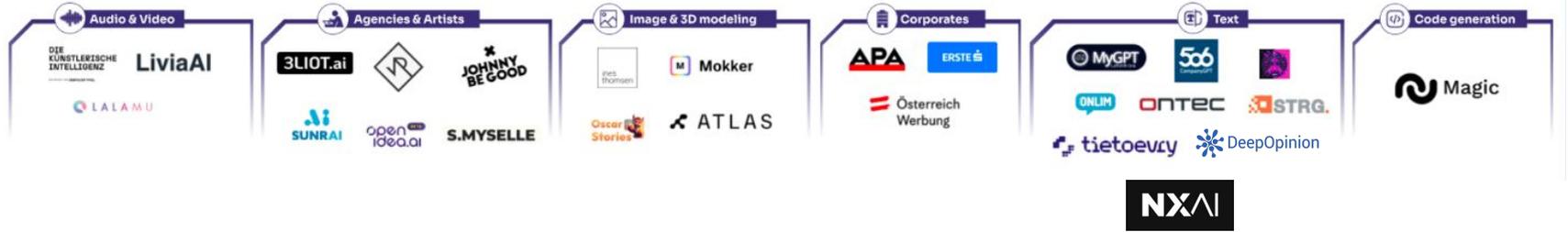
## ENABLERS & EXTENDED ECOSYSTEM

<b>Accelerators, Incubators &amp; Investors</b> A1, BICHERE, BREEZEVENT, ELEVATE, E.L.C.T, NDI, PUSH, Speedinvest, Verbund X, lista	<b>Communities &amp; Non-profit Organizations</b> AI AUSTRIA, DATA NAUTS, DID, HUMOR, WIVISS, WIVISS	<b>Conferences &amp; Events</b> A1IC, confare, EXPONENTIAL, EXPERIMENT KI, ISZ, ECONOMY OF AI, PRAISE FOR AI	<b>Education &amp; Course Providers</b> ARS, A Lands, FIVESQUARE, goodays, Learn-Xi, mylearn.ai, UNIVIS
<b>Government &amp; Official Portals</b> AM AT 2030, Digital Austria, SFG, W.K.O.	<b>Innovation &amp; Startup Support</b> ABA, FFG	<b>Media &amp; Podcasts</b> AI Invention, futurezone, WISSEN DATA	<b>Research</b> AIT, amazon, BEA, BICHERE, Cerner, EM, scch, Fraunhofer
<b>Universities</b> FH DANUBEUR, FH WIRTSCHAFTS UNIVERSITÄT WIEN, JKU, M O T, UNIVERSITÄT SÄKTEN, WU	<b>Infrastructure</b> SWW, TIMEWARP	<b>Presented by</b> © Clemens Wasner in collaboration with eibea AI AUSTRIA 3LIOT.ai Logo design by becom	

## GENERATIVE AI - CLASS OF 2023

<b>Audio &amp; Video</b> LiviaAI	<b>Adresses &amp; Artiste</b> 3LIOT.ai, SUNAI, SAMYSELLE	<b>Image &amp; 3D modeling</b> Mokker, ATLAS	<b>Corporate</b> APA, Österreich Werbung, tietoeuy	<b>Tech</b> mygr, 500, ONTEC, STRG	<b>Code generation</b> Magic
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# GENERATIVE AI - CLASS OF 2023



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# Public

## How it started

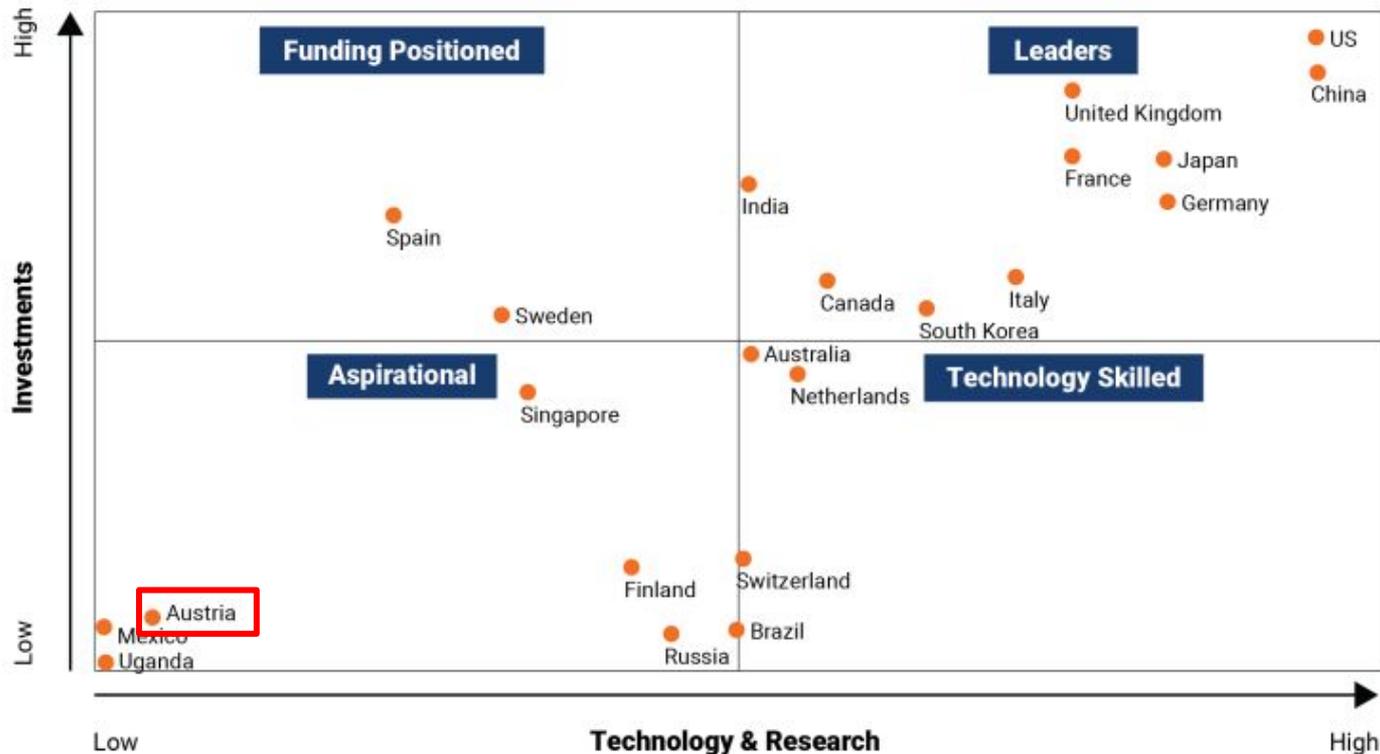


- Focus on Green Energy transition & CO2 reduction
- Fundamental research
- Trustworthy & ethical AI

# Public

How its going<sup>1</sup>

Figure 1: State of Technology and Investments By Country



<sup>1</sup> Source: [Brookings](https://www.brookings.edu/)

# Public funding landscape

## Local and national grants



### Innovation

- (up to) EUR 200k grant
- Project size: EUR 450k
- 45% quota



### AI Adoption

- up to EUR 150k grant
- Project size: EUR 180k
- up to 80% quota

### Pre-Seed - Deep Tech

- up to EUR 200k grant

### Seed - Deep Tech

- up to EUR 800k grant



### Basisprogramm

- Project size: up to EUR 3 Million
- 50% - 70% quota

### AI4Green

- EUR 100k - 2 Million
- 50% quota

# ELLIS Units in Europe

## Total number and distribution



Ellis consists of 39 units across Europe (as of June 17th, 2023)

Out of these, 3 units are located in Austria

- Ellis unit Linz @ JKU Linz, AI Lab
- Ellis unit Vienna @ IST Austria
- Ellis unit Graz @ TU Graz

Within Ellis, Austria has the highest density of units per capita and the same total number as units as the far larger Netherlands.

Austria is an outlier within comparable countries which typically host 1 or 2 units: Switzerland (2), Belgium (1) or Portugal (1)

Source: <https://ellis.eu/units>

# Current Trends

Born global, made in Austria

## AI Research



2017

## AI Hub



2019

## (Europe) HQ



2021

# Current Trends

## Corporates aiming for digital revenues

### Corporate



RHI MAGNESITA

voestalpine

ONE STEP AHEAD.

SPRINGER®

brantner  
green solutions

### Productization



voestalpine High Performance Metals

DIGITAL  
SOLUTIONS



AutonomousMachines.ai



# Second Wave of AI Magic.Dev



- Austrian founders
- raised 140 M USD in venture capital
- Apply large language models to automate code generation

**Code-generating platform Magic challenges GitHub's Copilot with \$23M in VC backing**



```
// Component that displays today's temperature in London
function LondonTemperature() {
  const WEATHER_URL = "...";
  const [temperature, setTemperature] = useState();
  useEffect(() => {
    fetch(WEATHER_URL)
      .then(response => response.json())
      .then(({daily}) => setTemperature(daily.temperature_2m_max));
  }, []);
  return <div className="p-4 border rounded">
    The highest temperature in London today is
    <span className="font-bold"> {temperature}°C</span>
  </div>;
}
```

SUGGESTED BY 

# Second Wave of AI NXAI



NXAI: Sepp Hochreiter will europäische  
Antwort auf OpenAI erschaffen

 heise online

- Sepp Hochreiter, inventor of LSTM and now xLSTM, JKU Linz
- Transform cutting-edge AI research into industrial applications
- xLSTM is faster, needs less compute & memory and scales linearly
- Millions of investment from Pierer
- Product and paper are coming
- 1000 GPUs



Warum Pierer in Sepp Hochreiters KI-  
Architektur investiert

**INDUSTRIE  
MAGAZIN**





# Second Wave of AI Atlas (fmrly MLxAR)

## Atlas

- HQ in Vienna
- Raised 3+ MEUR funding
- Atlas builds cutting-edge generative 3D AI technology to enable the creation of virtual worlds in a fraction of the time it takes using traditional methods.



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## Follow-us



[www.linkedin.com/company/aiaustria/](https://www.linkedin.com/company/aiaustria/)



[Alaustria.substack.com](https://Alaustria.substack.com)

# AI STARTUPS & COMPANIES



# EARLY ADOPTERS

**Corporate**

**Development & Consulting**

# ENABLERS & EXTENDED ECOSYSTEM

Accelerators, Incubators & Investors

Communities & Non-profit Organizations

Conferences & Events

Education & Course Providers

Government & Official Portals

Innovation & Startup Support

Media & Podcasts

Research

Universities

Infrastructure

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