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# Vienna. The Digital City.

# Vienna Business Agency



**First contact** point for national and international companies.

Funding + real estates/facilities +  
information/networking

# First contact point for „Anything Digital“

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- **What we do:**

We scout, monitor, connect companies that carry out research and innovation projects with development partners and pilot customers in industry, science and public administration.

- **Focus:** FinTech (e-commerce), Blockchain, HR-Tech, Cloud Computing, Security, AI, Mobile,....

- See our **Technology Reports:**

<https://viennabusinessagency.at/technology/technology-hotspot-vienna/digital-technologies/>

- **Goal:** To support, build, foster & promote the ecosystem



# Focus ICT & Digitalisation



# Facts and figures (1)



**→ Vienna is as much a tech location as it is a tourism destination**

- ▮ ICT revenue is 4x higher than in the tourism industry
- ▮ Revenue growth: 2017: 5,7%, 2018: 5,76%
- ▮ 5.830 companies (ca. 15.480 in Austria)
- ▮ 54.520 employees (105.900 in Austria)

# The largest ICT companies by volume



- A1 Telekom Austria
- Kapsch Group
- T-Mobile Austria GmbH - Magenta Telekom
- Microsoft Österreich GmbH.
- Samsung Electronics Austria
- ACP Group AG: IT Provider, Managed Services
- TTTech: networked computer systems in transportation and industrial segments

# Strong momentum

The logo for the Vienna Business Agency, consisting of a red square with the text "vienna business agency" in white, lowercase letters.

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Revenue growth 2017: 5,7%, 2018: 5,76%  
2018: more then 6.000 new Jobs in Austria  
fastest growing export category in Austria (net  
export: 3,8 bn. €: 1,1% in relation to the GDP,  
which is higher than eg. Germany or Finland)

# Three IT-Companies from Vienna to remember

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- **Kapsch Group** – business communication, Telematics  
approx. 5,000 employees worldwide generated  
total revenue of € 908.8 million
- **Frequentis** - air traffic control, public safety & security  
(1600 employees, revenue 252 million)
- **TTTech** – 500 employees worldwide, approx. 125 million  
→ Samsung Electronics invested 75 million in strategic Partnership to  
Deliver Next Generation of Autonomous and Safety Technology to  
Automakers



# Recent success stories

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- **Tricentis**, Leader of software testing according to Gartner, 01/2017:  
\$165 million series B funding
- **Stream Unlimited**, streaming audio multi-room solutions, in 11/2017:  
Google acquired 41% of Stream Unlimited

# ICT-Hotspots in Vienna



# Selected ICT-Topic: Visual Computing

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- Includes Technologies like:  
**Interactive Visual Analytics, Image recognition, Computer Vision, Virtual & Augmented Reality, ...**
- Visual Computing is being researched and taught as a priority at many universities, research facilities and companies.
- It is an interdisciplinary field, which, for many applications, is already part of everyday life and work.

# Selected ICT-Topic: Visual Computing (Research)

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- **VRVis:** Austria's leading research institution in the field of visual computing – building a bridge between science and industry.
- **TU Vienna:** Promoting scientific excellence and top-quality teaching for over 200 years.
- **AIT:** Austria's largest Research and Technology Organisation (RTO) and an international leading development partner for the industry.

# Selected ICT-Topic:

## Visual Computing (Companies)

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- **Anyline:** The expert in mobile text recognition. Anyline gives every smartphone the power to read, interpret and process visual information.
- **ViewAR:** The ViewAR system is an SDK for AR and VR, allowing for creation of efficient mobile and web applications. Winner of the international AWE Auggie Award for the best AR-App.



## Creative &amp; Media



**vrisch**



frameless



**GOLIATH VR**

**h**  
hyde-media



Responsive  
Spaces

**ENTREZ**

**my360 planet**  
VIRTUAL REALITY  
www.my360planet.at



## Real Estate

REALONAUT

**bildraum**

**roomle**

**robotic eyes**  
See more!

**SQUAREBYTES**  
Interactive Media

**moxVR**

**cozyo**

## Devices &amp; Hardware

**Cybershoes®**  
3D.RUN

**CYBERITH**



EXCHIMP®

**VIEW  
POINT  
SYSTEM**  
MAKING FUTURE REALITY

**TRI  
LITE**

## Education / Training

**INNERSPACE**

**psii.rehab**

**AR & VR Landscape Austria v1.0**

presented by **enliteAI** & Matthias Grabner  
one neuron at a time

## Industry

**augmentedUS**

**EVOLARIS**

## Tools / Tech

**ANYLINE**

**bloom<sup>VR</sup>**

**insider navigation**

**GARDEN  
GROVE**  
Software

**VIEWAR**

**stereosense**

**wikitudo**  
See more.

**ARTIVIVE**

**REACTIVE  
REALITY**

## Development &amp; Consulting

**allaboutapps**

**mangoART**  
Augmented Reality Technics

**zühlke**  
empowering ideas

**accilium**

**viR**  
—SYS

**codeflügel**  
GmbH

**innovation.rocks**

**fusonic**  
do it right

**POLICULAR**



**accenture**

**phenomatics**  
virtual reality

## Communities



**GAMESTAGE**

## Universities &amp; Education

**Ifh III**  
st. pölten

**FHV**  
Vorarlberg University  
of Applied Sciences



**TU  
WIEN**

**FH Salzburg**

**FH**  
OBERÖSTERREICH

**UNIVERSITY  
OF APPLIED SCIENCES  
UPPER AUSTRIA**

**TU  
Graz**

**CARINTHIA  
UNIVERSITY OF APPLIED  
SCIENCES**

**FACHHOCHSCHULE  
KÄRNTEN**

## Research

**AIT**  
AUSTRIAN INSTITUTE  
OF TECHNOLOGY  
TOMORROW TODAY

**vr|vis**

zentrum für  
virtual reality und visualisierung  
forschungs-gmbh

**Media  
Interaction  
Lab**

**DAQRI**

**FOTEC**  
Forschungstechnische  
Fakultät für virtuelle Realität

**wearable theatre**

# Topic: E-Government

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- Digital Signature, Companies/land charge register, Electronic health record (ELGA), FinanzOnline, Mobile Parking, Sag's Wien App,....
- Citizen Participation
- Digital Agenda Vienna: <http://digitaleagenda.wien/english.html> can be seen as a 'to-do list' for the city. It summarizes which projects and activities fall under the responsibilities of the city council.
- Open Government Data: Vienna as a pioneer
- A-Trust, Anecon, BRZ (Data processing center), MobileSign,...

# Topic: E-Government



- European Commission: Austria No. 3 eGovernment ranking (behind Malta and Estland) – 36 countries evaluated (2019)
- App „Digitales Amt“ (digital authority)

# Topic: Security (Research, Education)

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- Vienna Cybersecurity and Privacy Research Center (VISP)
- COMET Center: Secure Business Austria (SBA),
- Research: Austrian Institute of Technology (AIT)
- Security Hub initiatives (Companies, R & D)
- FH Campus Vienna: Competence Center IT-Security, FH Technikum Wien: R&D-focus in Secure Services, eHealth & Mobility.

# Topic: Security (Research)



Vienna Cybersecurity and Privacy Research Center (VISP) - center for education and research in cybersecurity and privacy (Start 2019; receives funding from the VBA)

Three academic partners: TU Vienna (applying institution), Institute of Science and Technology Austria (IST Austria), and University of Vienna



# Topic: Security (Research)

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The aim of **VISP** is to break down the silos and boost the existing research synergies among the partner institutions, to establish a graduate educational program in cybersecurity and privacy, and to create all together an internationally leading research and educational brand for cybersecurity and privacy in Vienna.

# Topic: Security (Companies)

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**Radar Services:** One of Europe's leading technology companies in the field of Detection & Response. Largest Cyber Defense Center in Europe

Awarded 2016 as one of EMEAs fastest growing tech companies (more than 100 employees)

**IKARUS:** Austrian pioneer of the software industry focusing AntiVirus and content security. One of the first AntiVirus vendors.

# Topic: Security (Companies)



**CRYPTAS:** as a professional IT-security company, is focused on digital identity, reliable authentication methods, encryption and digital signatures

The **Vienna Metalab** regularly organizes CryptoParties where easy access to the issue of privacy on the Internet, cryptography and remarkable things are discussed.

# Topic: AI Location Vienna

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Austria might not be the first country that comes to your mind when thinking about Artificial Intelligence, nevertheless lots of great startups, corporates and research institutions have been creating world-class solutions powered by AI.

With AI one can argue a historical continuity, which can be traced back to the Vienna circle of the 1920s and 1930s years. Some of today's players also have a long tradition: in 1984, the Austrian Research Institute for Artificial Intelligence (OFAI) was founded.

# Topic: AI Location Vienna



## **Main research institutions**

- ↪ The Austrian Research Institute for Artificial Intelligence (OFAI) of the Austrian Society for Cybernetic Studies (OSGK)
- ↪ TU Wien
- ↪ Medical University of Vienna
- ↪ Austrian Institute of Technology
- ↪ VRVis Center for Virtual Reality and Visualization
- ↪ Institute of Advanced Research in Artificial Intelligence



# AI Landscape Austria v2.1 - July 2019

Presented by 

## Companies & Startups

### AgriTech



### Automotive & Mobility



### Big Data & Enablers



### Enterprise



### FinTech



### AI Hardware



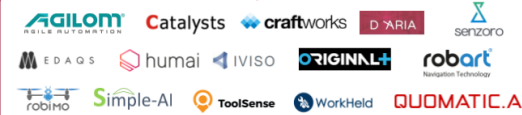
### Health & MedTech



### Image & Video Processing



### Industry & Robotics



### InsurTech



### Language & Text



### Media & Social Analytics



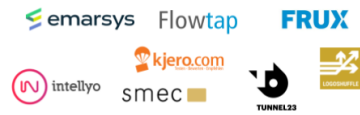
### Productivity



### Retail & eCommerce



### Sales, Marketing & PR



## Enablers & Extended Ecosystem

### Universities & Educational Institutions



### Research



### Organizations & Communities



### Public



### Accelerators, Incubators & Investors



### Media



### Conferences



# Topic: FinTech Location Vienna

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## Examples:

**CPB Software** - Founded as a banking software specialist, CPB Software is today a leading company for complex IT and offers one-stop solutions for banks, financial service providers and auditors.

**Finnest** - is a platform for crowdfunding on the Austrian and German markets. Potential investors based in Austria, Germany or Switzerland offer “qualified subordinated loans” to selected companies based in Austria or Germany.

# We foster a vivid ecosystem



We promote the networking of partners from industry, SMEs, research institutions and city administrations.

See our **FinTech Report**

<https://viennabusinessagency.at/technology/technology-hotspot-vienna/digital-technologies/>

# FinTech companies in and from Vienna

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A service offered by  
the City of Vienna

## Crowdfinancing



## Accounting



## Payment



## Investing



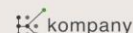
## Lending



## Accounting information services



## Reg tech



## Associations



## Banking



## Crypto economy



## Insurance



## Investors



## Consulting acceleration



# Topic: Blockchain Location Vienna

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**Austrian Blockchain Center (ABC)** is the world's largest competence center in the area of Blockchain. The aim of the center is to foster research in the field of Blockchain (and related) technologies, in order to be used in industrial applications such as Industry 4.0 / IoT as well as in the areas of finance, energy, logistics, government and administration.

[www.abc-research.at/](http://www.abc-research.at/)

**RIAT – Institute for future cryptoeconomics** (since 2012) is one of the oldest private research institutes in the field of Blockchain and Cryptocurrencies. RIAT is dealing with cryptoeconomics (with a focus on BC and other Cryptocurrencies), privacy technologies and open hardware. The institute explores and shapes the future of decentralization.



# Topic: Blockchain Location Vienna



**Bitpanda** – Bitpanda is an easy-to-use wealth building platform where users can buy, sell, store and exchange all their digital assets.

**RIDDLE&CODE** - Provider of blockchain-based end-to-end solutions. The hardware and software systems enable companies to efficiently meet challenges in the areas of machine identity, product origin and supply chain management. RIDDLE&CODE combines the security of smart cards with the potential of Bitcoin Technology and the Internet of Things (IoT).

# Topic: Blockchain Location Vienna



## **Other Examples:**

- Capacity – Offers consultancy in running token sales and implementing blockchain. In cooperation with the Austrian Postal Service, they developed the so-called crypto-stamps.
- Vaultitude – LegalTech
- Blockchain – community meetings (City of Vienna and VBA coop)
- Wien Energy and the City of Vienna are testing initial blockchain applications

# Topic: Blockchain Location

## Blockchain Landscape Austria v2.1 - July 2019

### Blockchain Companies & Startups



### Enablers & Extended Ecosystem



Presented by

enliteAI

& CryptoRobby

# Funding Opportunities



## Grants for

- ▮ Initiation of R&D projects
- ▮ R&D projects, MVP
- ▮ innovative services, products, processes
- ▮ Implementation of IT solutions
- ▮ entry into international markets

# Call „Future ICT 2020“

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up to 500.000 EUR for ICT R&D projects of  
Viennese companies

Cybersecurity, 5G, Blockchain and AI

Kick-off December 3rd at VBA

# Startup City Vienna Landing Page



The site contains all the relevant information about the offers and stakeholders of the Viennese start-up scene (VCs, Incubators etc.), and informs for the first time about current open "Calls to Actions", which are especially interesting for international start-ups:

[www.startupcityvienna.at](http://www.startupcityvienna.at)

# Take aways



- Vienna is a tech location
- With strong momentum
- Vienna Business Agency provides funding, cross-linking to innovation players and the City of Vienna, special support to start up companies





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**Thank you for  
your attention!**

**Aleksandar Vrglevski**

Technology Services

vrglevski@wirtschaftsagentur.at

[www.vba.at](http://www.vba.at)