

Willst du.
Kannst du.

karriere.at

ÖSTERREICH'S GRÖSSTES JOBPORTAL

About me

- **Software Competence Center Hagenberg**

Project Manager
Research Team Lead
Key Researcher

- **karriere.at**

Chief Enterprise Architect

- **University of Applied Sciences Upper Austria**

External Lecturer



”
The life of a software architect is a long (and sometimes painful) succession of sub-optimal decisions made partly in the dark.

Philippe Krutchen



karriere.at als Arbeitgeber

karriere.at

karriere.at Group: Unsere Vision

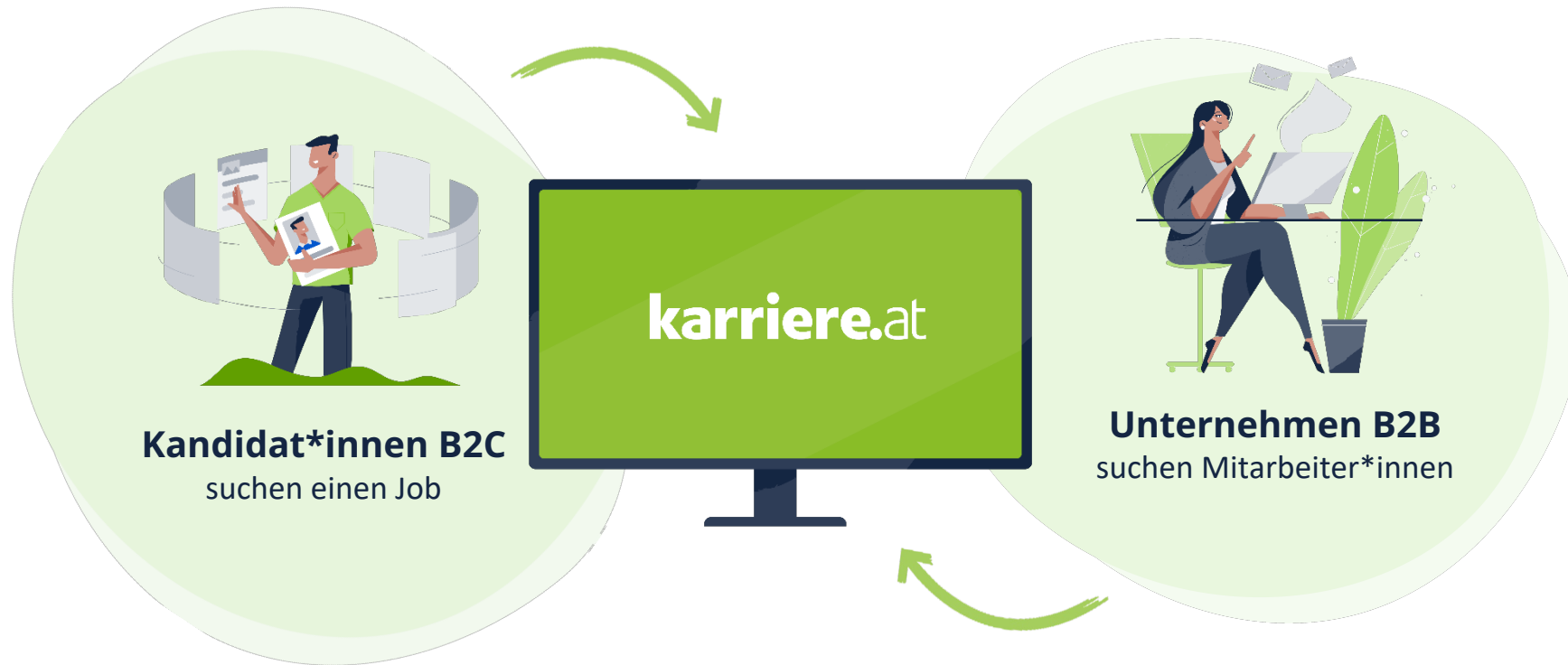
Alle arbeitsfähigen
Personen in Österreich

Wir stellen sicher, dass Kandidat*innen
passende Stellenangebote erhalten
(pull/push) und sich möglichst schnell
über unsere Systeme bewerben

**Jede*r findet den passenden Job
in Angeboten der karriere.at Gruppe**

Je nach Marktsegment:
karriere.at, jobs.at, hokify

Purpose



Wir verbinden Unternehmen und Talente.

*Mehr als 250
Mitarbeiter*innen*

davon ca. 70 im
Technology Bereich





2 Standorte

Linz und Wien



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DESTINATION CLOUD: TALES FROM YEAR ONE OF OUR CLOUD ADVENTURE

Cloud Native Linz, 24.1.2024

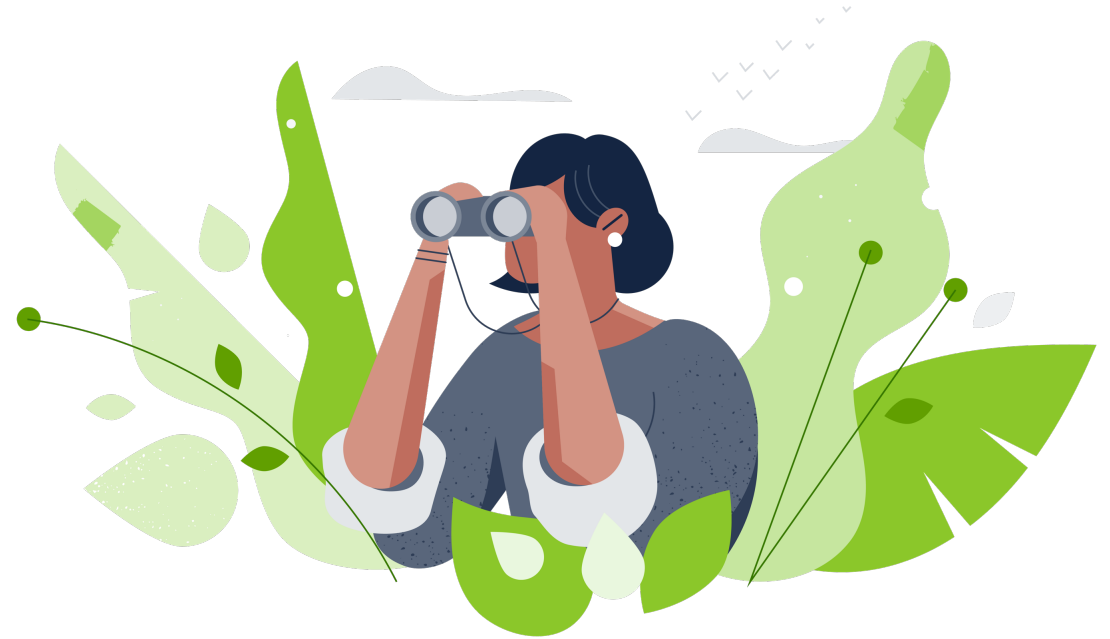
adventure ^{1 of 2} noun

ad·ven·ture əd-ˈven-čər 

[Synonyms of *adventure* >](#)

- 1 a** : an undertaking usually involving danger and unknown risks
| a book recounting his many bold *adventures*
- b** : the encountering of risks
| the spirit of *adventure*
- 2** : an exciting or remarkable experience
| an *adventure* in exotic dining
| They were looking for *adventure*.
- 3** : an enterprise involving financial risk
| wanted to pay off her debts before embarking on any new financial *adventures*

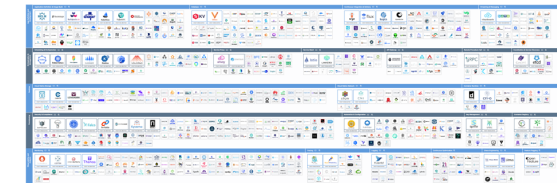
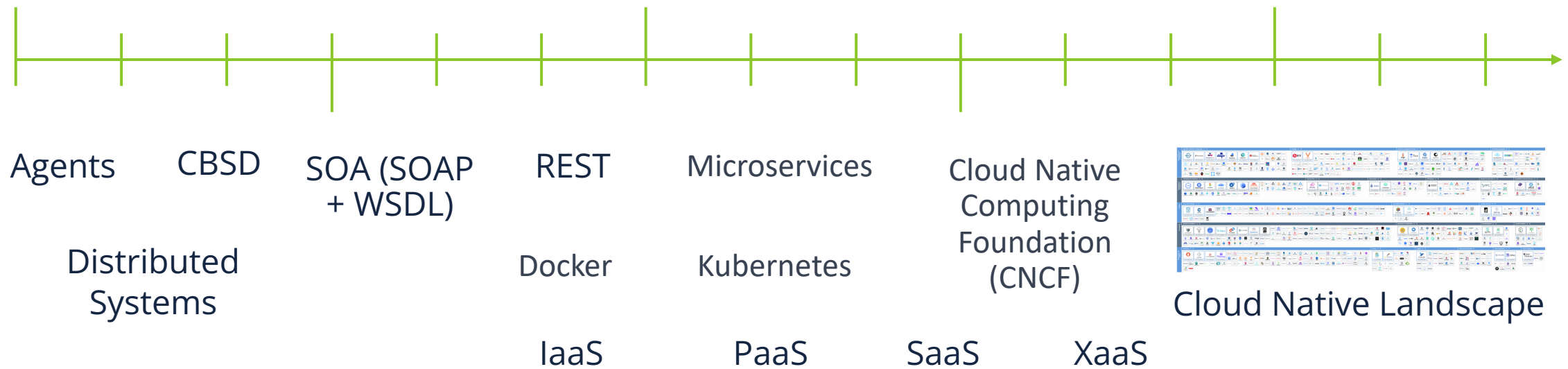
Source: <https://www.merriam-webster.com/dictionary/adventure>



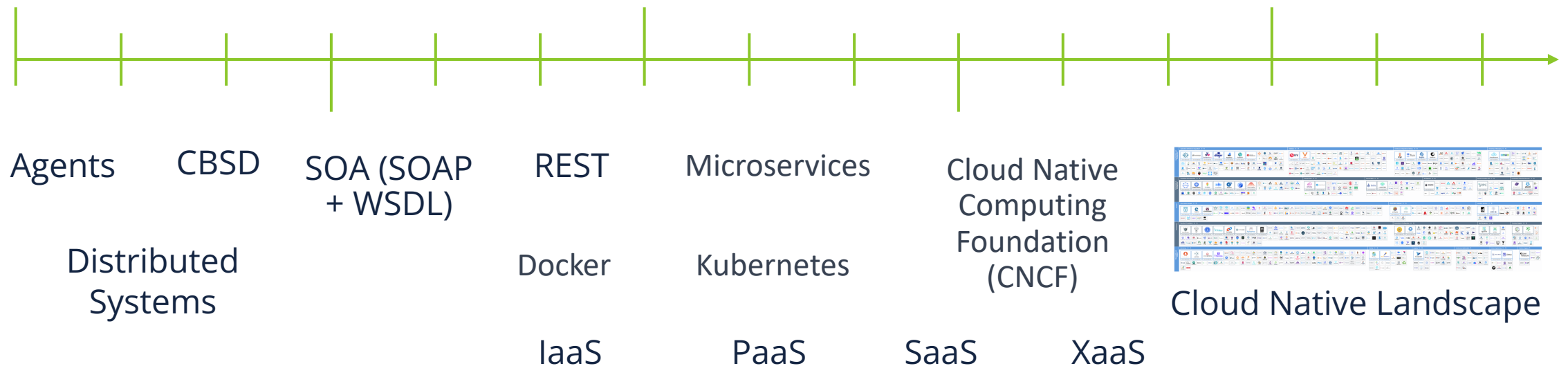
Starting Point of our Adventure

- On premise system landscape
- SPAs, 2 mobile Apps
- Multiple frontend technologies
- 50+ services
- 2 service tech stacks: PHP + Java
- Some applications older than 15 years
- Main pain point – monolithic database





Cloud Computing as Enabling Technology for Speed, Data, and Ecosystems



Microservices

- Advantages
- Challenges
- Holistic Approach
 - Organization
 - Concepts
 - Technology
- Standardized Development Model



Microservice Principles*



Componentization
via Services

Organized around
Business Capabilities

Products
not Projects

Smart endpoints
and dumb pipes

Decentralized
Governance

Decentralized
Data Management

Infrastructure
Automation

Design
for failure

Evolutionary
Design

* James Lewis, Martin Fowler: <https://martinfowler.com/articles/microservices.html>

Domain Modelling

- Development of
... a domain model
... ubiquitous Language
- Event storming
- Transformation into a product organization

Organized
around Business
Capabilities

Products
not Projects

Decentralized
Governance



API First

- Each business capability provided as API
- OpenAPI + AsyncAPI + JSON Schema
- Event-driven Architecture



Your API
comes first,
then the
implementation

Componentization
via Services

Smart endpoints
and dumb pipes

Evolutionary
Design

Technology Stack

(Excerpt + Work in Progress)



Componentization
via Services

Design
for failure

Infrastructure Automation

Our
adventure
so far...

Thank you
for your
attention!

karriere.at GmbH

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