



MND  T

Towards Sovereignty in digital ecosystems with Solid

10th Semantic Web Day
Data Week Leipzig 2022

Matthias Kindermann
DATEV eG

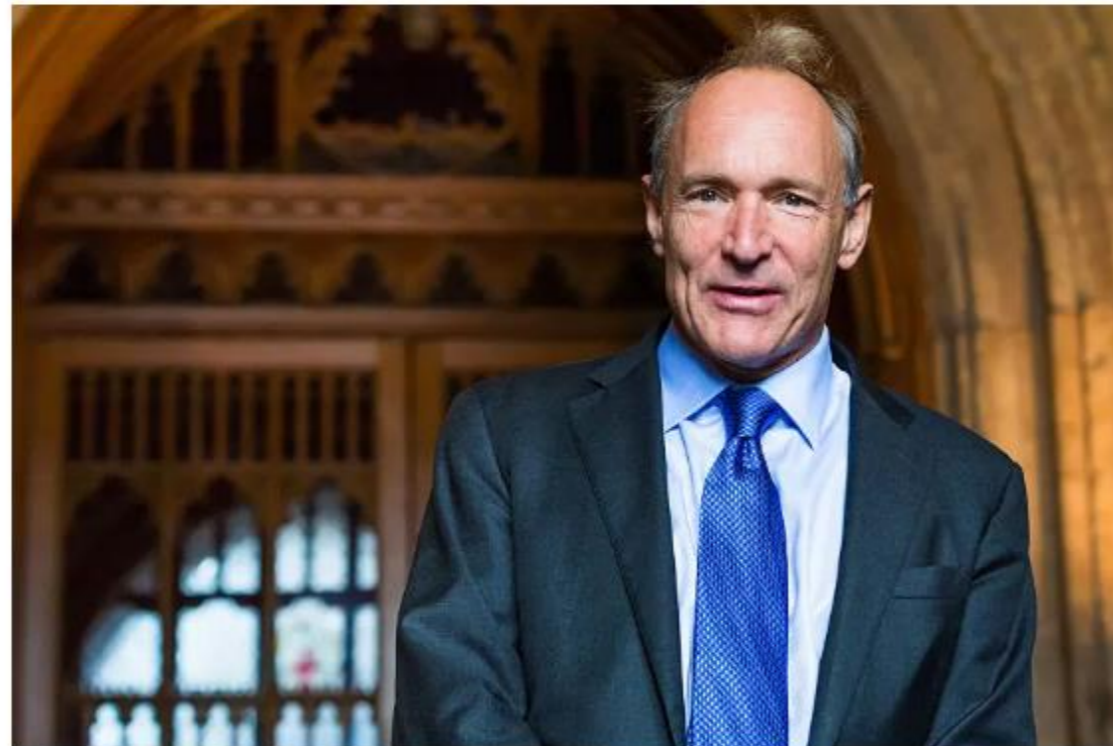


DATEV

Sir Tim Berners-Lee finds three challenges the web needs to overcome

Latest News Published: March 14th, 2017 - Christina Cardoza

Twitter Email + More



Sir Tim Berners-Lee created the World Wide Web 28 years ago. Since then, the web has evolved into a massive networking platform where users come to connect, work, and learn. However, Berners-Lee believes there are still areas that must be addressed before the web can truly be a platform that benefits all — notably in the area of “fake news.”

“[March 12] marks 28 years since I submitted my original proposal for the world wide web. I imagined the

TRENDING STORIES

- 1 Great developers aren't automatically great managers
- 2 The top 7 advanced features of Cypress to know about
- 3 Securing Microservices: The API gateway, authentication and authorization
- 4 Angular 12 will deprecate View Engine and replace it with Ivy

CAMUNDA

**Camunda Platform:
The Universal
Process Orchestrator**



Solid: Your data, your choice.
Advancing Web standards to empower people.

Get a Pod

Developer Tutorial

Project MPERSONNDSHARET



Data sharing between companies, within a company and other actors is the foundation of **prosperous data ecosystems** and the applications, services and processes which are based on it. With **trustful standardized** data sharing many processes can be implemented much more efficient.

Funding authority: Bundesministerium für Bildung und Forschung (BMBF) – Project executing organization: VDI/VDE Innovation + Technik GmbH



Lehrstuhl für Wirtschaftsinformatik,
insb. Technische Informationssysteme

Prof. Dr. Andreas Harth

Institut für Angewandte Informatik
und Formale Beschreibungsverfahren

Dr. Tobias Käfer

CTO Unit
Technologische Innovation

Prof. Dr. Andreas Both

Problems and goals

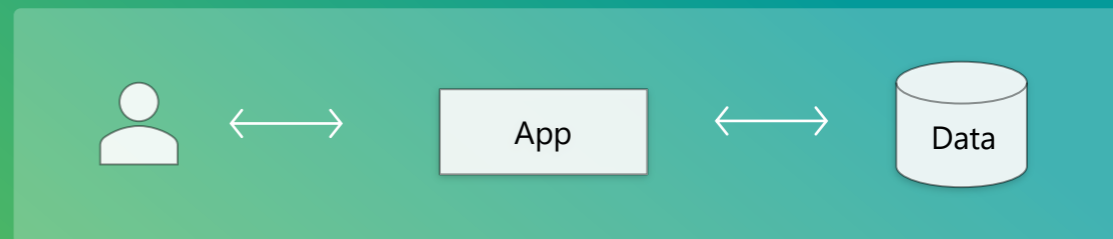
Problems in digital ecosystems

- Today ecosystems typically not ensure data sovereignty. Typically when you share data you use control over it after giving it away.
- Trustful and **legally compliant** data sharing is not an easy task

MANDAT Project goals:

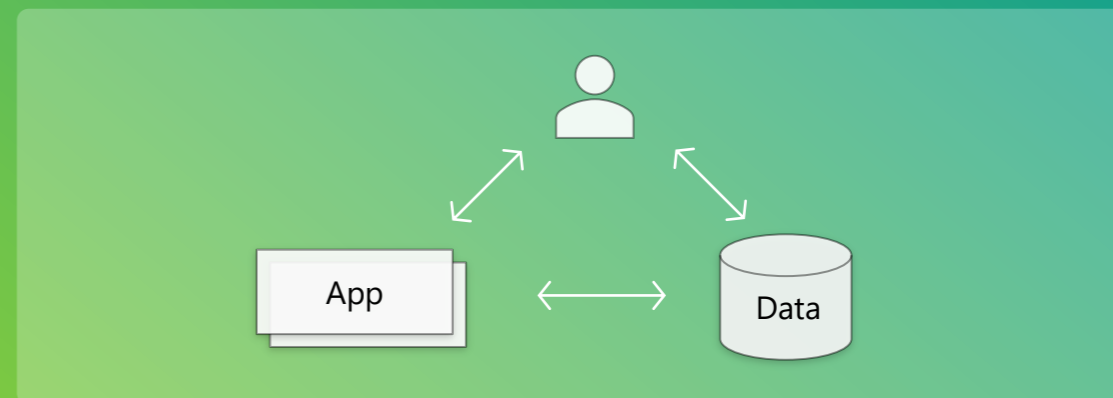
- **Hardening** solid technologies and link/combine it with additional technologies which help us with **enterprise** use cases.
- Extensions to the **solid technology** for the **enterprise** context, especially with **data trustees**
- **Flexible** realization of business processes and collaboration scenarios with **sensitive** data
- Data sovereignty and portability

Traditional architecture

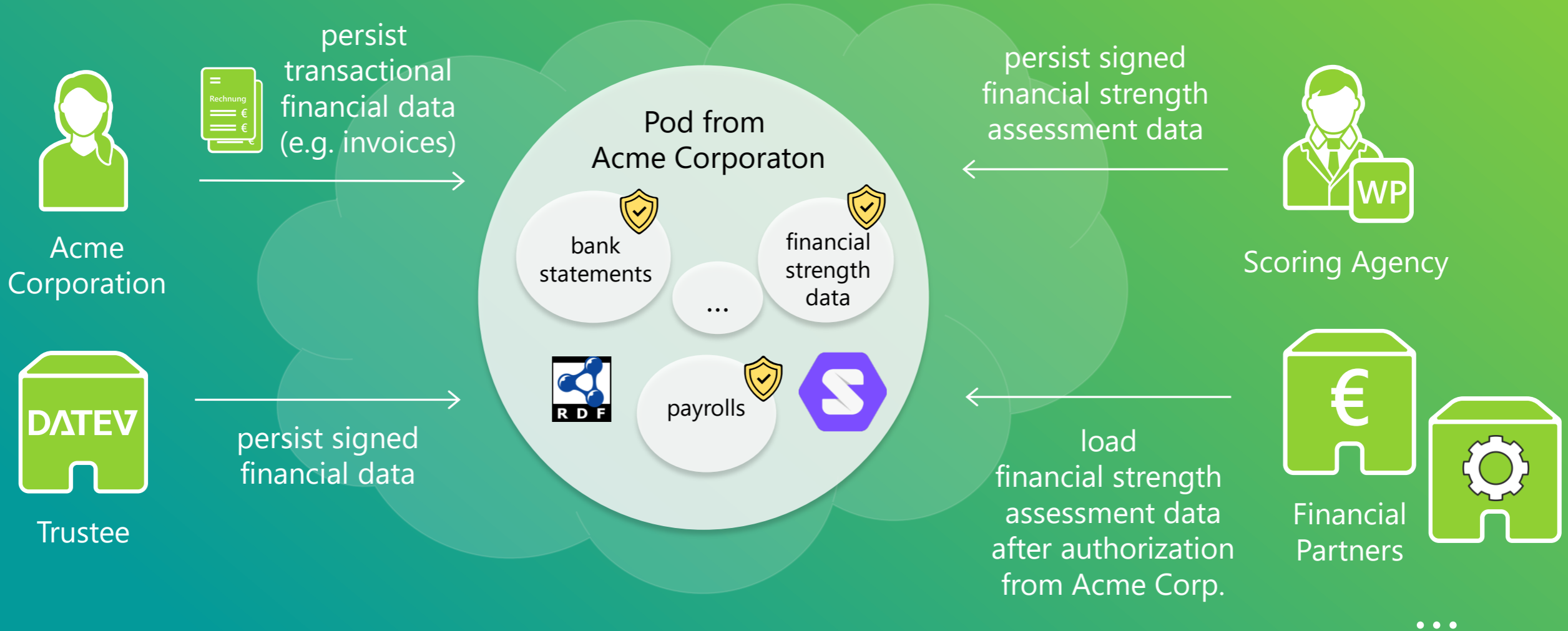


Zero Data architecture

Zero Data (0data): User individual control of data



Use-Case: Credit Assessment for Acme Corporation



Solid supports **Portability, Interoperability** and **Data Residency**

High degree of automation through standardization

Vision of the MANDAT Project: Resolve the area of conflicts of missing data sovereignty in innovative data-driven products

Data residency

The data generator decides where the data is stored

Sovereign user control

Data generator has full **control** of the data and has **transparency** about the usage

Integration using webstandards

Applications, data and identities are integrated using well established standards



MANDAT provides the foundation for trustful cloud-based data-driven solutions with **data sovereignty**, **portability** and **interoperability**.



Shaping the future. Together.