



Welcome to the 1st SCS Community Summit

Eduard Itrich, Dirk Loßack, Kurt Garloff, Manuela Urban Rafael Laguna de la Vera (Bundesagentur für Sprunginnovationen)

2021-12-15



Gefördert durch:

Bundesministerium für Wirtschaft und Energie

aufgrund eines Beschlusses des Deutschen Bundestages

The Sovereign Cloud Stack Project: From Idea to Realisation





des Deutschen Bundestages

Kurt Garloff Dirk Loßack Oliver Mauss Peter Ganten Christian Berendt

(2020-07, SPRIN-D photo shooting @ PlusServer DC)



2019-11



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The vision:

"A collaborative and federated cloud infrastructure for Europe – based entirely on open source."

Rafael Laguna de la Vera (SPRIN-D), Oliver Mauss + Stephan Ilaender (PlusServer), Peter Ganten (OSBA), Jens-Gero Boehm + Mario Ester (SUSE), Kurt Garloff







Bundesministeriur für Wirtschaft und Energie

aufgrund eines Beschlusses des Deutschen Bundestages

Invitation to present @ BMWi Visit Gaia-X WS2 meeting

Rafael Laguna de la Vera (SPRIN-D), Oliver Mauss (PlusServer), Dirk Loßack, Kurt Garloff, Peter Ganten (OSBA), Alfred Schröder (Gonicus) Ralph Müller (Eclipse), Frank Karlitschek (Nextcloud), Rainer Sträter (IONOS)



Motivation & Goals

Digital Sovereignty

- Digital Sovereignty is defined by the ability to act and take decisions in a self-determined way in the digital space.
- Digital Sovereignty of a state or an organisation necessarily encompasses the complete control over stored and processed data as well as the independent decision who is granted access to it.
- Digital Sovereignty is an indispensable precondition to independent governmental or economic action. It supports efficiency, competition, agility and the ability to pal with risks.

(translated from the German Digital Summit - 2019: Digitale Souveränität im Rontext plattformbasierter Ökosysteme / digital sovereignty in the context of platform-based ecosystems) Processing data in a sovereign way requires the ability to use sovereign infrastructure

- Compute, Storage, Network infrastructure wher the control of the organisation or a service provider of their choice fulfilling their regulatory and ctrategic needs.
- Network effects lead to natural monopolies/oligopolies (platform ecosystem economy) which reduce choice. •
- Sovereign Cloud Stack (SCS) wants to combine standard open source technologies to enable many organisations and service providers to offer a federated cloud/container infrastructure platform.
- The platform needs to be a federated, secure, dynamic, self-service infrastructure, enabling users to work according to modern Infrastructure-as-Code / DevOps methodologies.
- A healthy ecosystem of providers simplifying access to standardized compliant modern infrastructure is the underpinning of a vibrant data ecosystem and an enabler to build innovation with digital solutions and business models.



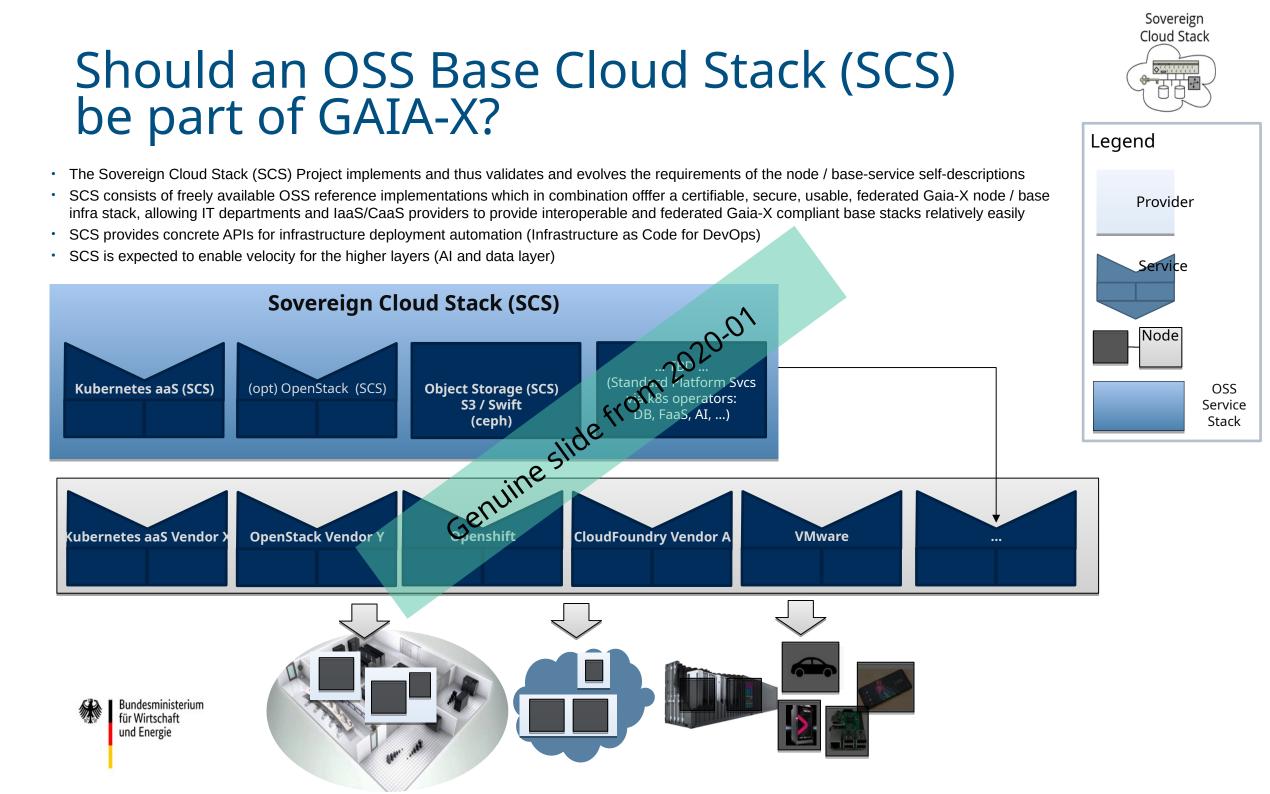


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Present @ Architecture Board Gaia-X Accepted as sub-WG 1.4 to WS2









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Architecture Workshop in Cologne

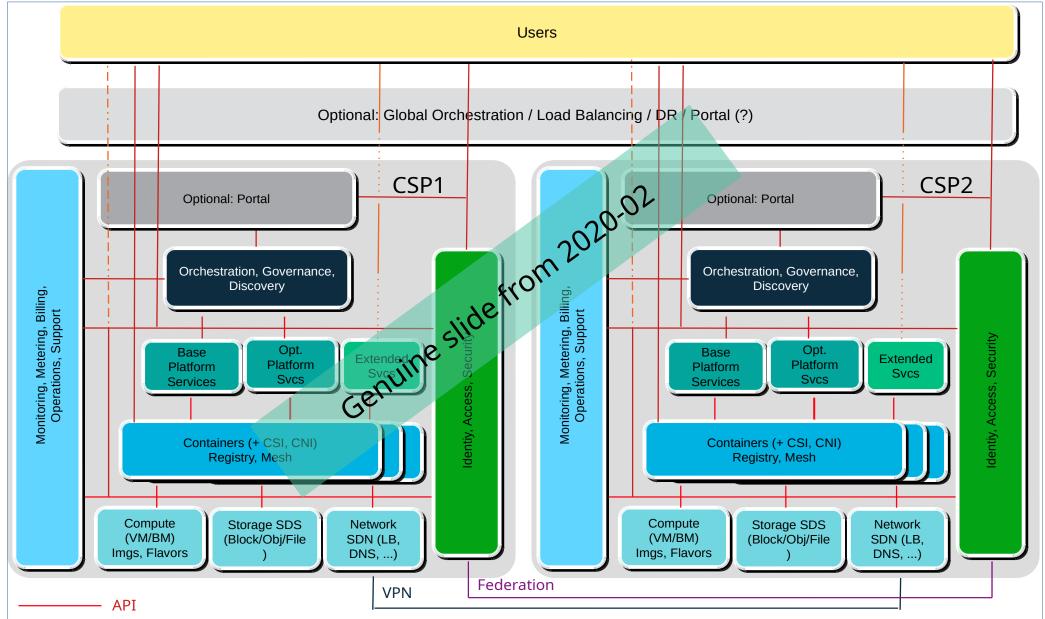
~15 participants PlusServer, Betacloud, T-Systems, IONOS, SUSE, teuto, OX, ...

Start building community



Architecture & Components (preliminary)





Sovereign Cloud Stack (Gaia-X / OSBA)





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The German Federal Agency for Disruptive Innovation (SPRIN-D) funds a proof of concept study.

Photo shooting, first PR work.

Start of DE+FR Gaia-X entity founding discussions. (PlusServer participating)

SCS entity funding considerations (OSS startup? Foundation/Collaborative? Public funding @ OSBA?)







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Technical development (kolla-ansible, OSISM)

citynetwork, OVH, ... joining Gonicus, Univention contributing

OIF summit, Open Source Day, ... iX article

Launch of pluscloud open (2020-12)



Vorhabenbeschreibung

für Wirtschaft und Energie

(zur vertraulichen Behandlung)

aufgrund eines Beschlusses des Deutschen Bundestages

⊊∕S

Zum Projekt GAIA-X



Vorhaben: Sovereign Cloud Stack Akronym: SCS



Schlagworte zum Vorhaben: GAIA-X, SCS, Digitale Souveränität, Infrastruktur, Cloud, Föderierung, Open Source, Infrastructure as Code, OSB Alliance

Antragsteller:

Open Source Business Alliance – Bundesverband für digitale Souveränität e.V. Breitscheidstr. 4 70174 Stuttgart Fon: +49 711 90715-390 Fax: +49 711 90715-350 vertreten durch:

Peter Ganten (Vorstandsvorsitzender) E-Mail: ganten@osb-alliance.com



Funding request submitted to the German Federal Ministry for Economic Affairs:

"Sovereign Cloud Stack – Ein offener, souveräner, föderierbarer Infrastrukturstack für GAIA-X"

Planned start: 2021-02-01

2020-12-23

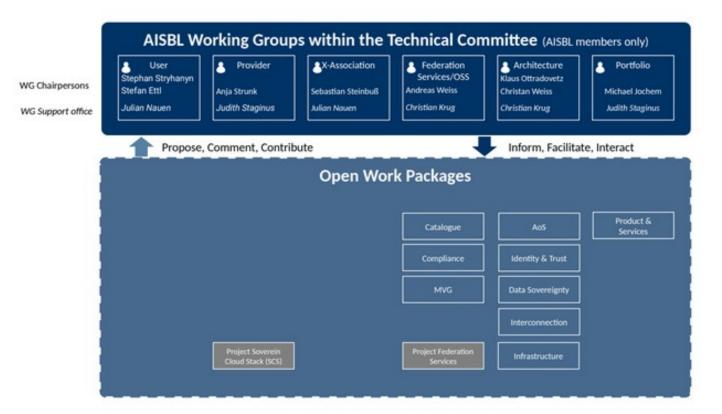




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SCS becomes an Open Work Package attached to the Tech Committee's Working Group Provider in Gaia-X.









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Non-binding funding promise by the Federal Ministry, retroactive to March 1.

OSB Alliance starts setting up the project.

Growing the community

+ StackHPC, gridscale, TNO, 23technologies, dataport, ...







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Funding decision delayed and delayed :-(Losing candidates :-((

Risk taking by candidates Risk taking by OSBA: Hiring core team (Dirk, Kurt, Manuela, Eduard)





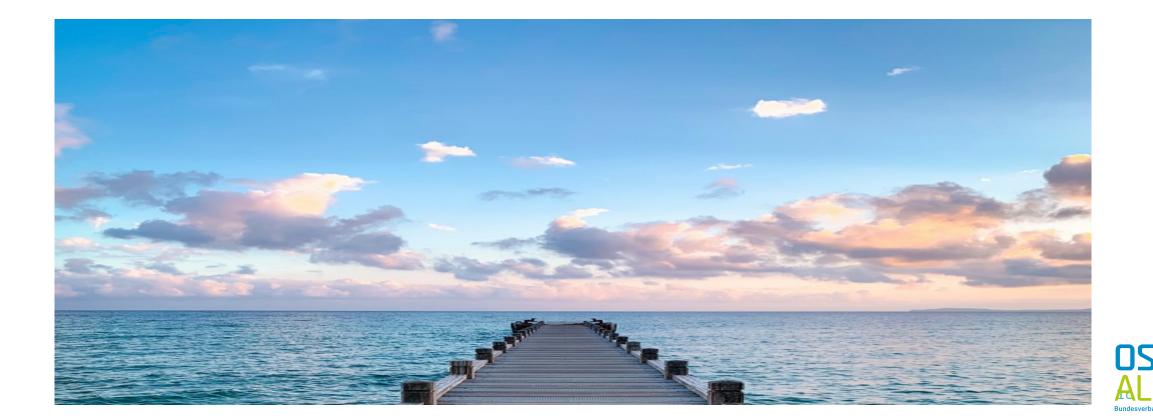




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Funding commitment of € 14.9 million until 2024-09 for SCS project @ OSB Alliance.

The project starts officially!



2021-07



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Press release

Release 0 (2021-07-15)

Gaia-X membership of OSBA Co-heading Provider Working Group

Partnership with OpenInfra Foundation





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SCS R1 released

2021-09-29

Sovereign Cloud Stack October 05, 2021

After R0 has been released in July and focused on the installation of a test environment, the release R1 of Sovereign Cloud Stack was released last Wednesday, 2021-09-29.

The newest release R1 includes the OpenStack Wallaby Release, Kubernetes version v1.21.x, and the Kubernetes Cluster API version v0.4.

The full release notes including technical details can be found in the central docs repository of the SCS project on GitHub.

SCS run #Running Freedom '21



OSB Open Source Business ALLIANCE Bundesverband für digitale Souveränität e.V.



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GREENECIS

- SCS becomes a member of the GREEN-CIS consortium.
- GREEN-CIS is selected as a national project to take part in the EU Matchmaking for an IPCEI-CIS ("Important Project of Common European Interest – Cloud Infrastructure and Services").



2021-09 and 12

- SCS participating in both Gaia-X Hackathons
- Successfully validating SCS K8s aaS architecture & implementation
- Setting up SCS environments on Bare Metal and creating Self-Descriptions (Hack#2)



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2021, December

Cloud services based on Sovereign Cloud Stack

BETACLOUD

Supporting companies and organizations

Univention

be open

23 Technologies		SPRIN-D
参 city network	CLOUD & HEAT	dataport
GONICUS PIONEERS OF OPEN SOURCE	@ gridscale	LEITWERK Die Zukunft Ihrer IT
DSB Open Source Business ALLIANCE Bundesverband für digitate Souverbindik e.V	\mathbf{T} · ·	DX Stay Open.
V OVHcloud	plusserver	Stackable 3





und Energie



StackHPC





We have developed SCS and managed two releases!

Gaia-X Community: Great individuals

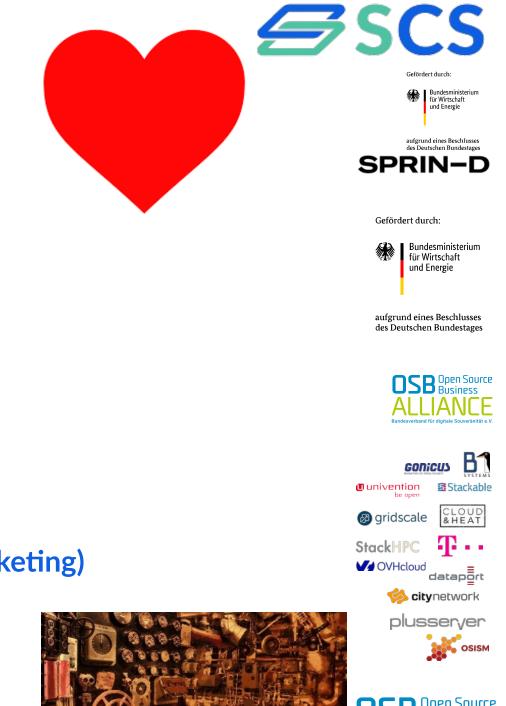
SPRIN-D: Support & Funding BMI: Support, BMWi: Support, Funding

Great staff: Commitment, risk taking

OSBA: Support, trust, risk

Supporting companies (infrastructure, engineers, marketing)

Community: We would be nowhere without you!





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Thank you all for believing in our idea, supporting our project, and contributing to the Sovereign Cloud Stack! Without you, none of this would have been possible.

