THE ROLE OF OPEN INFRASTRUCTURE IN DIGITAL SOVEREIGNTY
HELLO!

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SOFTWARE IS EATING THE WORLD
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- Disrupt or be disrupted
Physical hardware

Users

Application developers & deployers

Physical hardware
Physical hardware

Users

Application developers & deployers

Hardware virtualization

Physical hardware
Physical hardware

Users

Application developers & deployers

IaaS APIs

Hardware virtualization

Physical hardware

Application developers & deployers

IaaS APIs
Users

Programmable infrastructure

Cloud-aware applications
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- Programmable infrastructure is necessary to get the desired velocity
- Maintaining in-house programmable infrastructure is hard
- Hyperscale clouds are American or Chinese
THE EUROPEAN CHALLENGE

- Data is the basic resource of the 21st century
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- How to control access to it?
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- How to reduce our geopolitical vulnerability?
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- How to enforce progressive privacy laws?
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- How to control access to it?
- How to reduce our geopolitical vulnerability?
- How to enforce progressive privacy laws?
- How to tap into a vibrant ecosystem with no giant?
INITIAL RESPONSE

➔ Mandating locally-operated systems
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➔ Describing and cataloguing service properties (Gaia-X)
INITIAL RESPONSE

➔ Mandating locally-operated systems
➔ Describing and cataloguing service properties (Gaia-X)
➔ Those were all easily co-opted by hyperscalers
OPEN INFRASTRUCTURE
WHAT IT IS, AND WHY IT CAN HELP
Cloud-aware applications

Programmable infrastructure

Users
Users

Programmable infrastructure

Cloud-aware applications
Users

Physical hardware

Hardware virtualization

IaaS APIs

Application deployment APIs

Physical hardware

IaaS APIs

Application deployment APIs
Physical hardware

Linux

IaaS APIs

Application deployment APIs

Users
Users

Physical hardware

Linux

OpenStack

Application deployment APIs
MAKING INFRASTRUCTURE TECHNOLOGY ACCESSIBLE TO ALL
PERMISSIONLESS INNOVATION
INTEROPERABILITY
SOVEREIGN CLOUD STACK
SOVEREIGN CLOUD STACK

→ Standardized LOKI stack
SOVEREIGN CLOUD STACK

➔ Standardized LOKI stack
➔ Enabling a federation of interoperable providers
SOVEREIGN CLOUD STACK

➔ Standardized LOKI stack
➔ Enabling a federation of interoperable providers
➔ Sharing operational choices
SOVEREIGN CLOUD STACK

➔ Standardized LOKI stack
➔ Enabling a federation of interoperable providers
➔ Sharing operational choices
➔ Openly developed open source
Digital sovereignty is a major challenge for Europe in the 21st century
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Open Infrastructure is open source infrastructure for applications and data.
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OpenInfra enables independence, transparency and interoperability.
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Have a look at OpenInfra-powered providers and Sovereign Cloud Stack
THANKS!

Learn more at:
https://openinfra.dev
https://scs.community

Questions?
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