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WORLD ALLIANCE for EFFICIENT SOLUTIONS

by SOLARIMPULSE FOUNDATION

Data Sovereignty - I

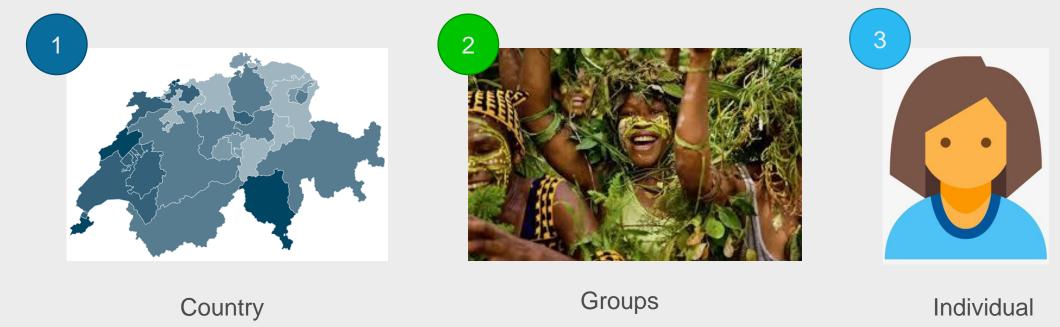
If you allow another country to gain access to really critical data about your society, over time that will erode your sovereignty, you no longer have control over that data.

Richard Morris, Chief Head of MI6, UK



Data Sovereignty - II

Data Sovereignty means that data is subject to the laws and regulations of the geographic location where that data is collected and processed.





Challenges

- Regulations
- Technical challenges:
 - how to sustainably manage growing data volumes
 - maintain data robustness, resiliency over time
 - how to maintain access and interoperability over time (30 year, 50 years, 100 years)



Swiss Vault's innovation in software + hardware

- 14X more data storage density (PB/m3)
- 10X more energy efficient (Watt/PB)

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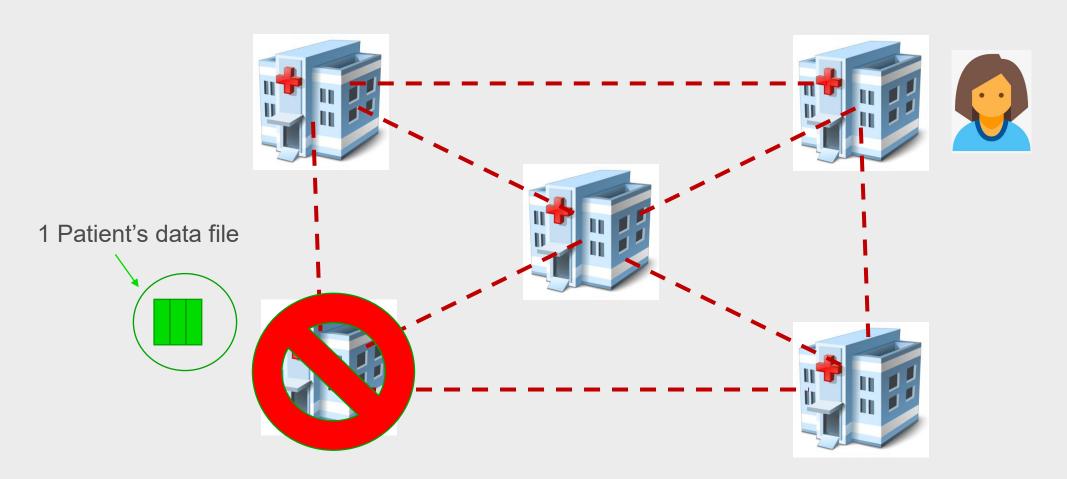
Standard Rack *		Swiss Vault Tower
2.5 PB	Data storage (using 5 TB disks)	10.24 PB
2.57	Volume (m ³)	0.74
0.97	Density (PB/m ³)	13.84
24 / 0	CPUs / GPU	128 / 128
18,000	Power (Watts) consumption	8,000
7200	Power efficiency (Watt/PB)	780



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Tech Challenge II: Robust data

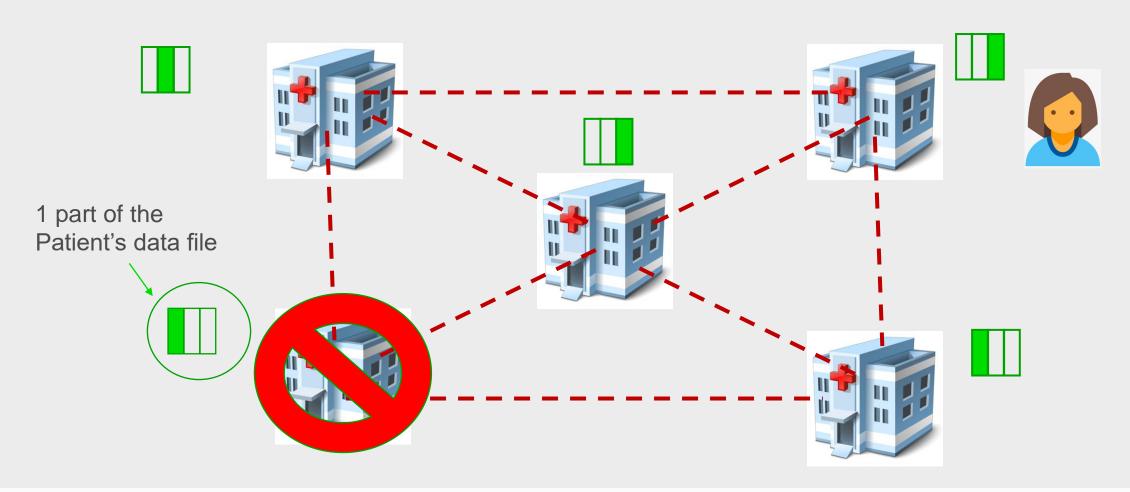
• The data architecture in the network = robustness





Tech Challenge II: Robust data

• The data architecture in the network = robustness





Data robustness

- No single point of failure model
- Distributed file architecture
- Distributed computing architecture



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