

TOLIVS: A Typology Of Loss In Vaccine Supply Chains

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The GAVI Alliance



- Founded in 2000, 370mln children vaccinated.
- From manufacture to use between 5% and 50% loss in vaccines
- Urgency in drastically reducing loss
- Diseases do not respect borders

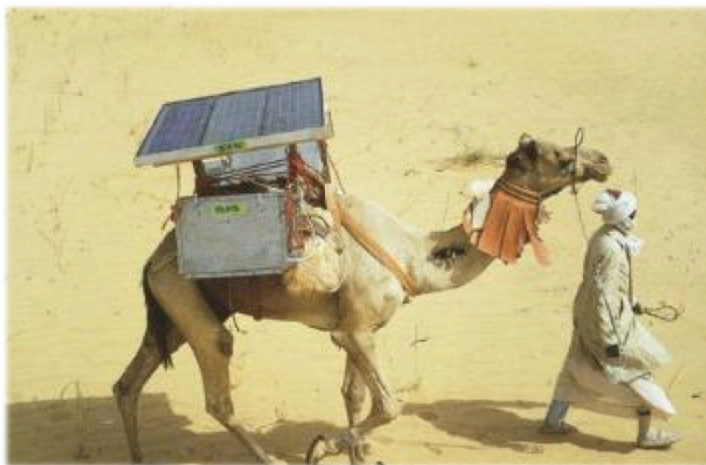
The Vaccine Supply Chain

- Infrastructure Limitations



The Vaccine Supply Chain

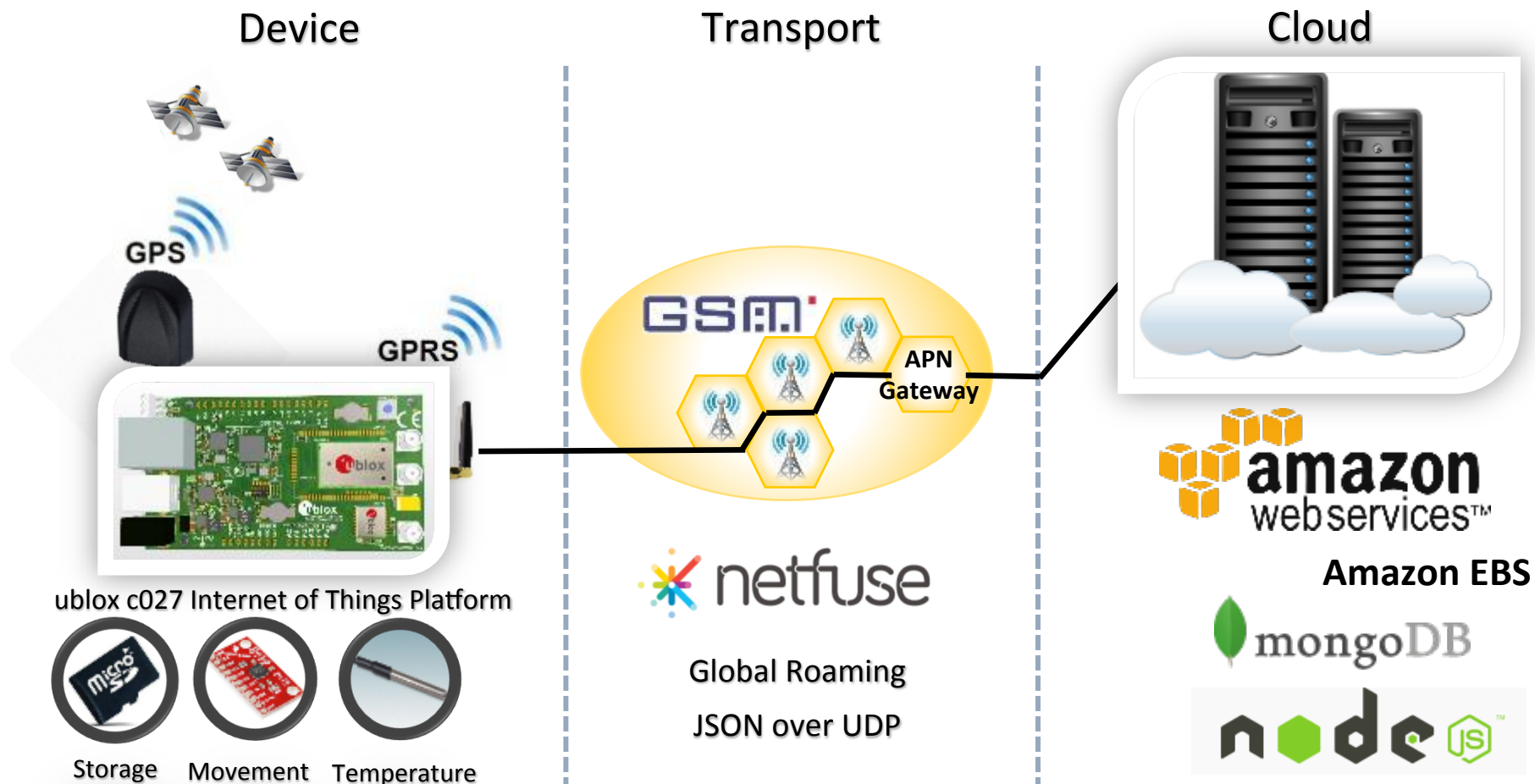
- Organisational Challenges
 - EVM (The Effective Vaccine Management)
 - HERMES (Highly Extensible Resource for Modelling Supply Chains)



TOLIVS Project

- Robust Vaccine Tracking System
 - Improve data quality, quantity, reliability and timeliness
- Operation Along the Chain of Delivery
- Cloud based Information Management

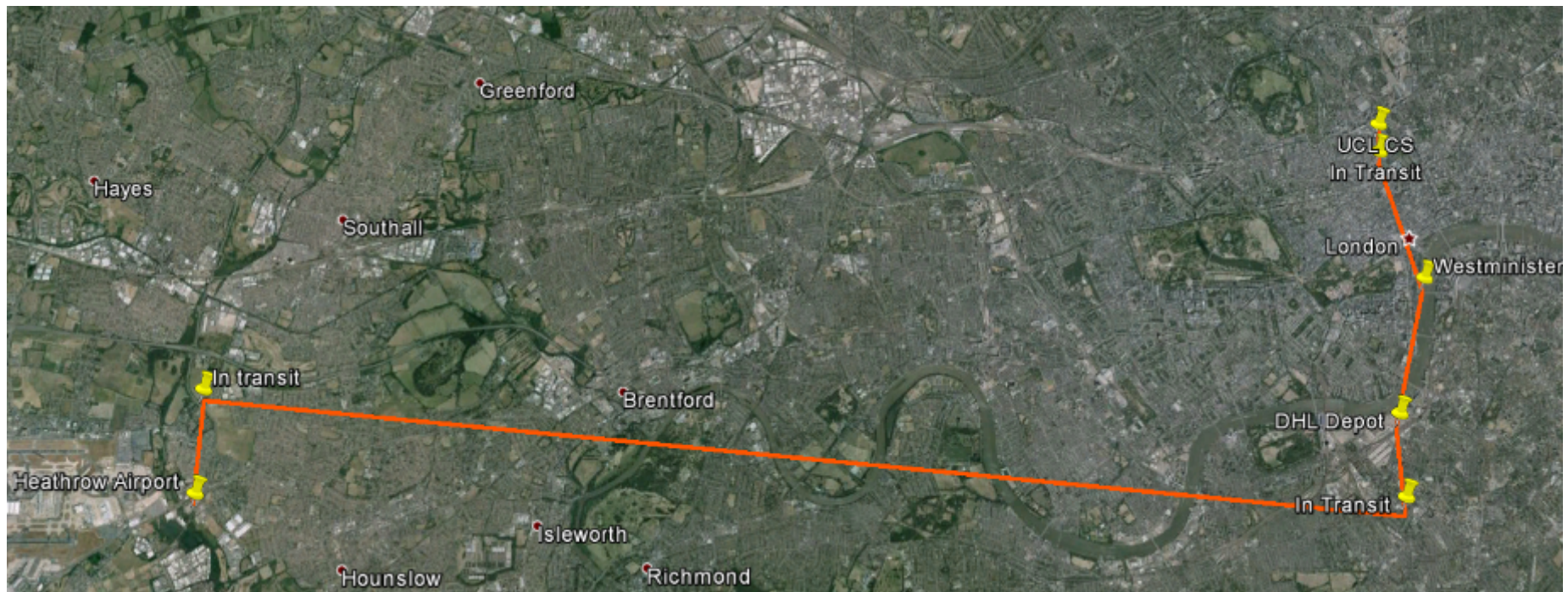
TOLIVS Architecture



TOLIVS Project

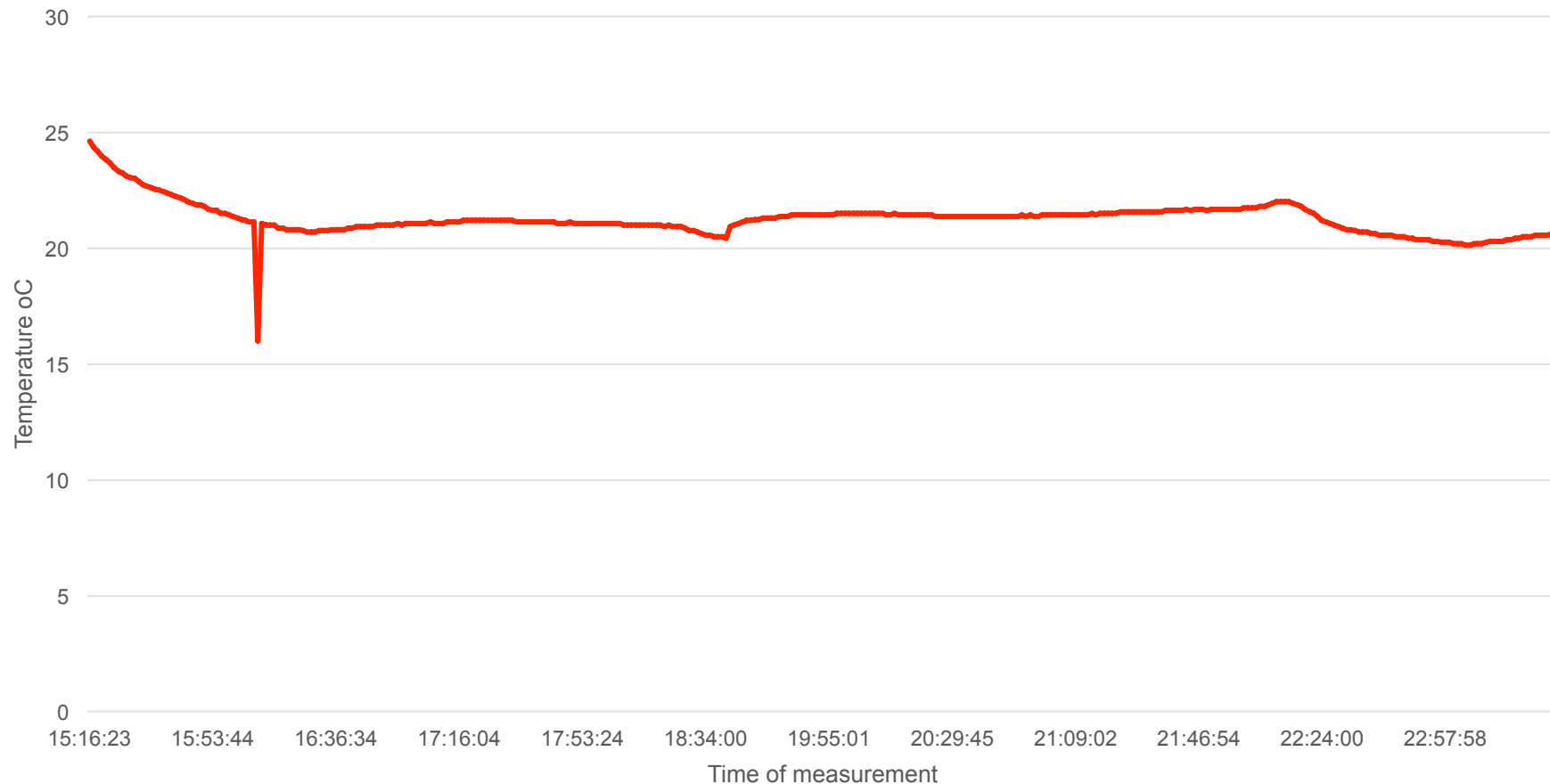


TOLIVS Project



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Temperature Variation



TOLIVS Project

- Working Experimental Prototypes
- Power management
- Deployment with real shipments
- Proposal based on acquired information

TOLIVS Project

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