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)
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- Robust Vaccine Tracking System
  - Improve data quality, quantity, reliability and timeliness

- Operation Along the Chain of Delivery

- Cloud based Information Management
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Temperature Variation

Temperature (°C) vs. Time of measurement

- Temperature decreases sharply at 15:16:23.
- Temperature stabilizes and remains relatively constant until 22:24:00.
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- Working Experimental Prototypes
- Power management
- Deployment with real shipments
- Proposal based on acquired information
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Special Thanks

- Andrew Garnett, WHO, UNICEF, PATH
- Paul Colrain, Jan Grevendonk, WHO
- Sophie Newland, PATH
- Joanne Robertson, Patrick Lydon, GAVI
- Prof Heather Zar, Red Cross War Memorial Childrens Hospital Cape Town
- Dr Raul Istoriz, Dr David Coles, Pfizer
- Abdigani Diriye, IBM Research – Catholic University of Eastern Africa
- Dakota Gruener, Oliver Wyman
- Rae Harbird, Jan Medvesek, UCL
- Marc Castello, uBlox
- Steve Brewer, ITaaU+