The VacSeen Project: Connecting Vaccine-Related Logistical and Healthcare Information Systems Using Linked Data

Partha Sarathi Bhattacharjee, Sanjay Sarma
Massachusetts Institute of Technology

Abstract

- Siloed data a major impediment to leveraging implementation of AIDC technologies such as barcodes.
- A solution in Linked Data, an approach to publish data in machine-readable, structured, and interoperable form.

Motivation

- Linked Data proposed by Tim Berners-Lee in 2001.1
- Forms an abstraction layer on top of existing information systems.
- Data from varied sources can thus be easily integrated and analyzed.

The application of publicly available non-proprietary resources ensures low adoption barriers

Applications of Linked Data

Interoperability renders Linked Data an effective tool for logistical systems research

Future Work

- Future work will focus on:
  - Scaling up the system to accommodate complex information systems
  - Integrating RFID-based temperature sensing data
  - Leveraging sensor networks, biomedical databases, and open datasets for generating richer insights