

# SIEMA: SEMANTIC INTEROPERABILITY AND EVOLUTION FOR MALARIA ANALYTICS



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**ABSTRACT:** Malaria is a leading cause of death in Africa. Many organizations, locally and globally, and government agencies are collaborating to prevent, control, and eliminate malaria. A prerequisite to succeed in these shared goals is having access to an integrated consistent knowledge source to empower informed decision-making for designing and implementing preventive and therapeutic programs and interventions. In order to facilitate data exchange between different systems, they need to be interoperable, structurally and semantically. An important threat to the systems' interoperability is change and evolution in one or more interacting components, which may lead to inconsistencies, unsatisfiability, and mismatch in an integrated structure. In this talk, I will present our effort on design and development of the Semantic Interoperability and Evolution for Malaria Analytics (SIEMA) platform to improve data and semantic interoperability and to help integrate dynamic surveillance data across multiple scales, in support of transparent and scalable tools for decision making for malaria elimination. This project is supported by the Bill and Melinda Gates Foundation. <https://gcgh.grandchallenges.org/grant/semantic-framework-support-evolution-and-interoperability>

**DATE** Friday, Sept. 22, 2017

**BUILDING** Hazen Hall, 228

**TIME** 1:30 p.m.

**FOR MORE INFORMATION,**

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