

SOLOR Demo

System of Logical Representation

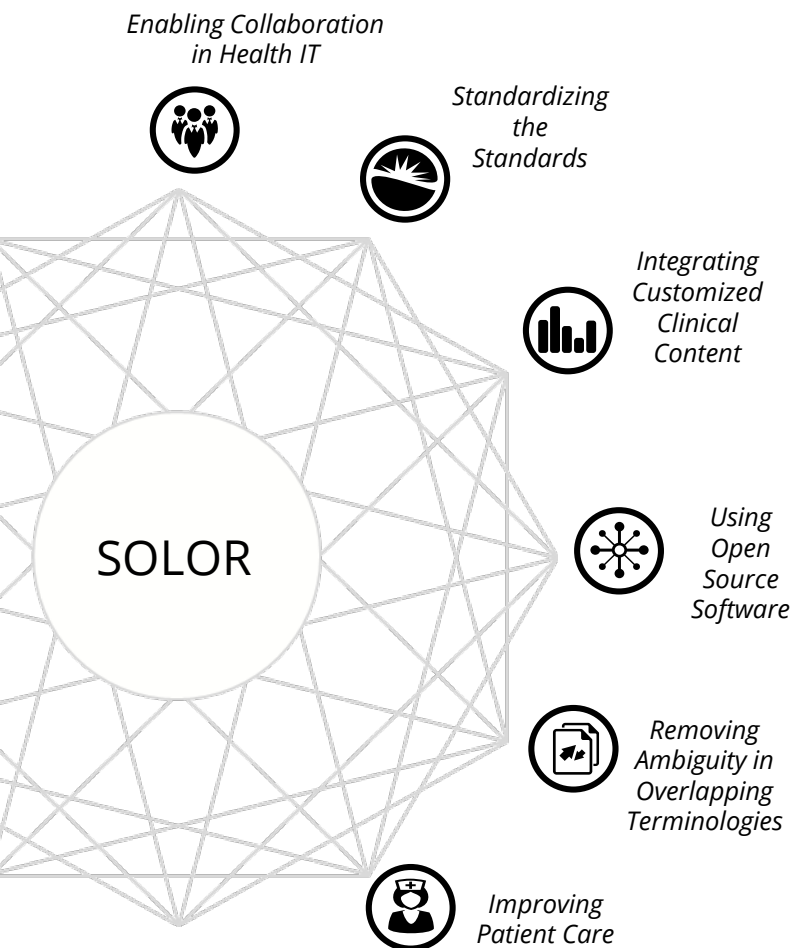
Deloitte Interoperability Summit



The Current Health Terminology Landscape

Today, healthcare systems do not represent their clinical data in the same way. This leads to clinical terminology that overlaps, conflicts, and/or has gaps, leading to erroneous clinical decisions based on incomplete or inaccurate information

System of Logical Representation



SOLOR provides an open source ecosystem to assimilate disparate health standards into a consistent representation.

SOLOR awarded the FedHealthIT 2018 Innovation Award

June 2018

Dr. Keith Campbell selected for the OSEHRA Lifetime Achievement Award

July 2018

HSPC highlighted SOLOR as mission critical at the HSPC 17th General Meeting

July 2018

What can SOLOR do?

ENABLE EASIER SUSTAINMENT

SOLOR streamlines the integration of standards, reducing the time and money required to sustain them.

ENABLE EASIER DEVELOPMENT

SOLOR allows developers to focus on product development, rather than continuously re-integrating disparate terminology standards after every update.

IMPROVE PATIENT SAFETY

SOLOR eliminates the time-consuming, labor-intensive, and error-prone efforts to untangle overlapping and incoherent standards, decreasing risk of patient harm from ambiguity.

FACILITATE INTEROPERABILITY

SOLOR allows providers, medical professionals, researchers, and health IT specialists to share clinical content and maintain meaning for interoperability across the healthcare ecosystem.

ENABLES BETTER, FASTER, SEAMLESS CARE

PRODUCES CONSISTENT SEMANTICS TO BE EASILY SHARED

IMPROVES THE QUALITY AND SAFETY OF HEALTHCARE

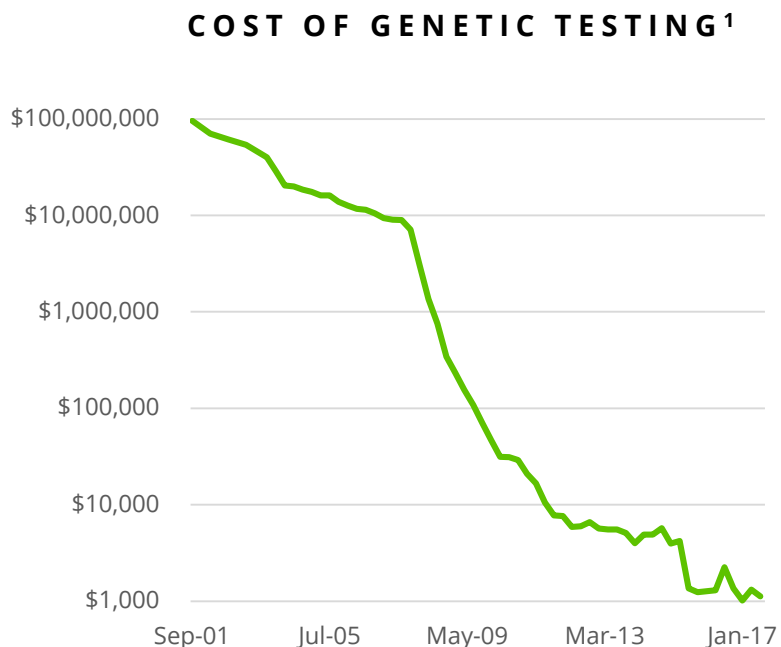
The background of the slide is white with various light blue abstract shapes and brushstrokes scattered across it, primarily on the right side. These shapes include horizontal bars of varying lengths and thicknesses, circles, and some irregular, hand-drawn-like forms. The overall aesthetic is clean and modern.

SOLOR In Action

Applying SOLOR to Precision Medicine

SOLOR Use Case: Precision Medicine

As the cost of genetic testing continues to decrease, genetic information is becoming a more common addition to an individual's health records



¹ <https://www.genome.gov/27565109/the-cost-of-sequencing-a-human-genome/>

> 3

MILLION

genetic variations
reported to date

~ 1-1.3

THOUSAND

available genetic tests for

~ 2.5

THOUSAND

conditions

**GENOMIC INFORMATION
IS VALUABLE FOR:**



Treatment

Genetic testing can lead to more effective treatment for patients



Basic Research

Genetic testing results can provide valuable ref sets for basic science



Clinical Research

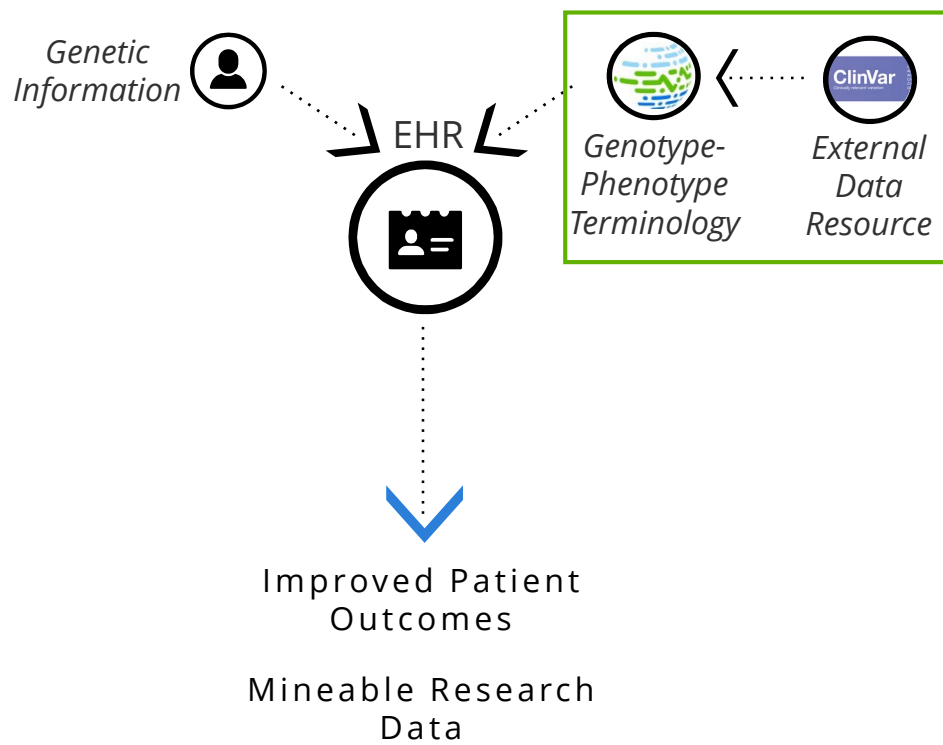
Genetic testing results will enable researchers to perform large scale data analytics

This data is not structured or maintained in the EHRs in a format useful for clinical decision support, research, or interoperability.

The SOLOR Content Integration Process

The SOLOR Genomic Extension transforms concepts from ClinVar, establishing a relationship between a desired variant and a SNOMED concept.

Genotype-Phenotype Content Integration



SOLOR Content Integration Template

