SOLOR Demo
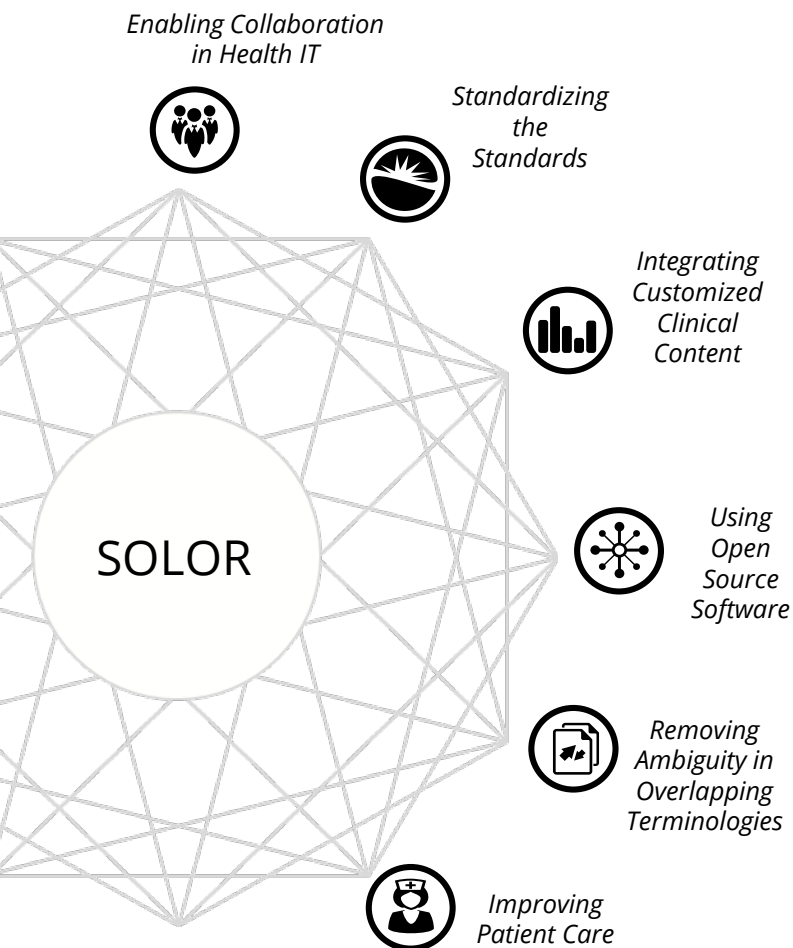*System of Logical Representation*

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

Enabling Collaboration in Health IT

Standardizing the Standards

Integrating Customized Clinical Content

SOLOR

Using Open Source Software

Removing Ambiguity in Overlapping Terminologies

Improving Patient Care

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	ENABLE EASIER DEVELOPMENT	IMPROVE PATIENT SAFETY	FACILITATE INTEROPERABILITY
SOLOR streamlines the integration of standards, reducing the time and money required to sustain them.	SOLOR allows developers to focus on product development, rather than continuously re-integrating disparate terminology standards after every update.	SOLOR eliminates the time-consuming, labor-intensive, and error-prone efforts to untangle overlapping and incoherent standards, decreasing risk of patient harm from ambiguity.	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

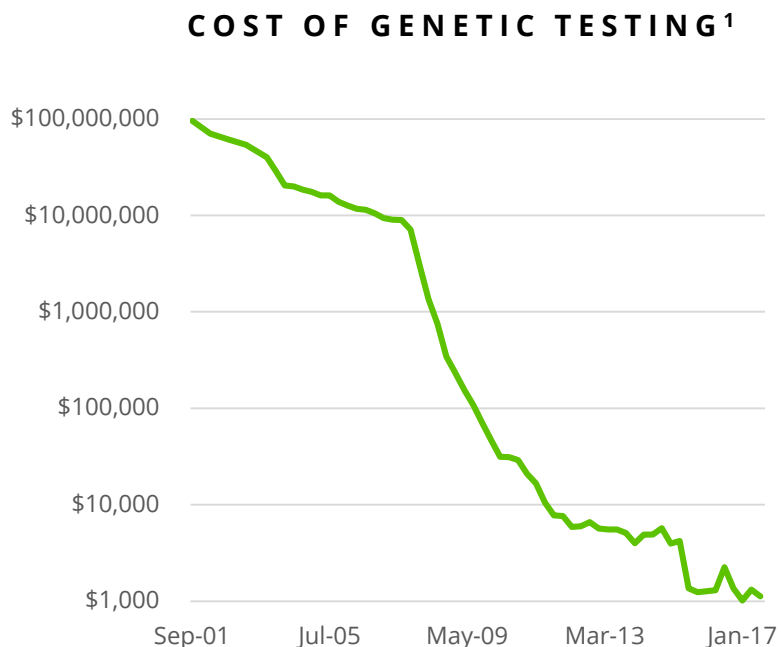**IMPROVES THE QUALITY AND SAFETY OF HEALTHCARE**

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

COST OF GENETIC TESTING[1]

$100,000,000
$10,000,000
$1,000,000
$100,000
$10,000
$1,000

Sep-01   Jul-05   May-09   Mar-13   Jan-17

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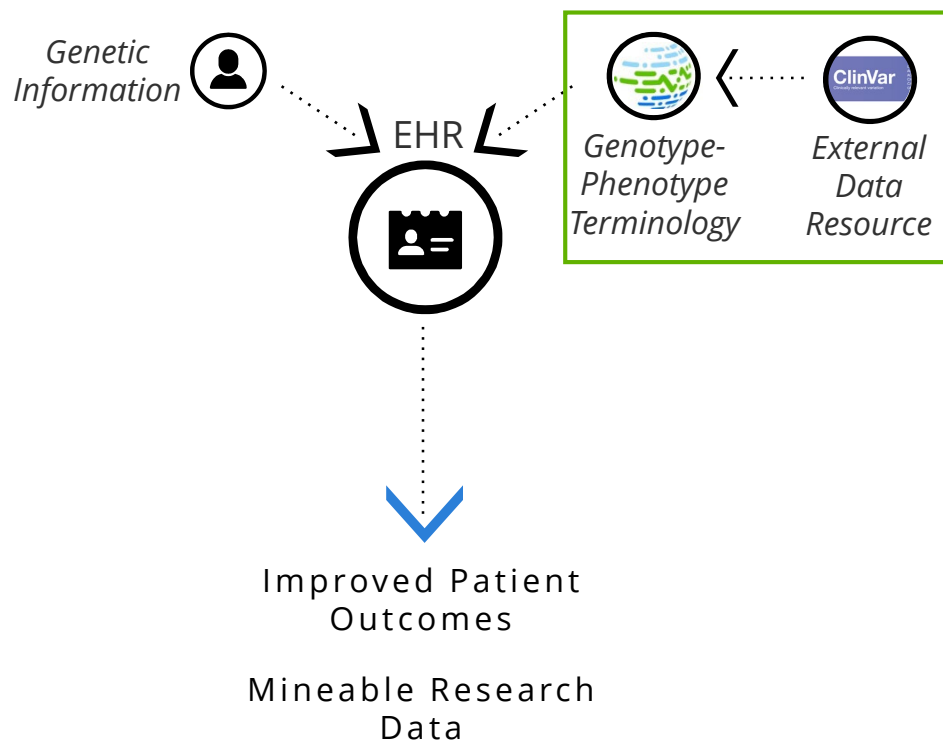
Clinical Research
Genetic testing results will enable researchers to perform large scale data analytics

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.