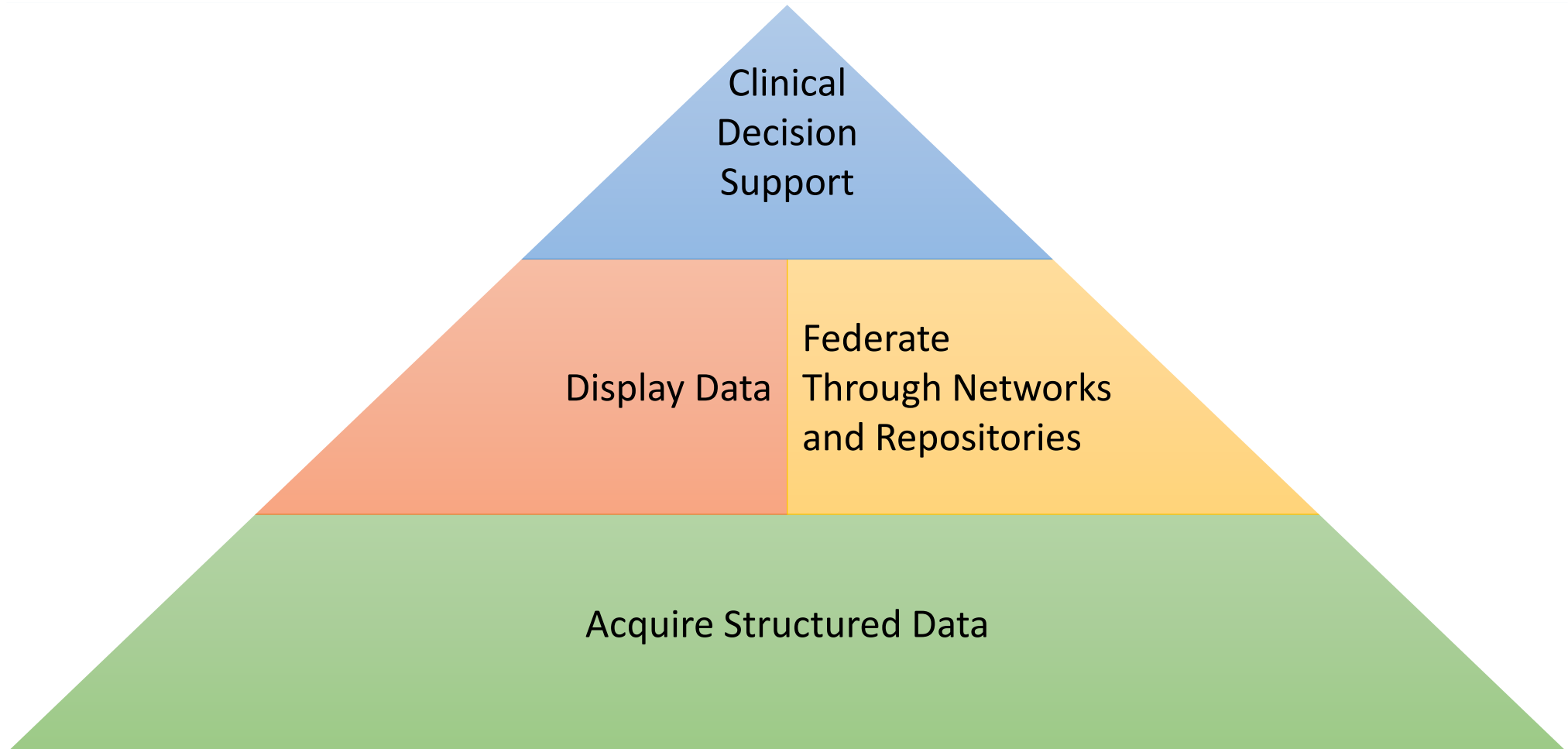


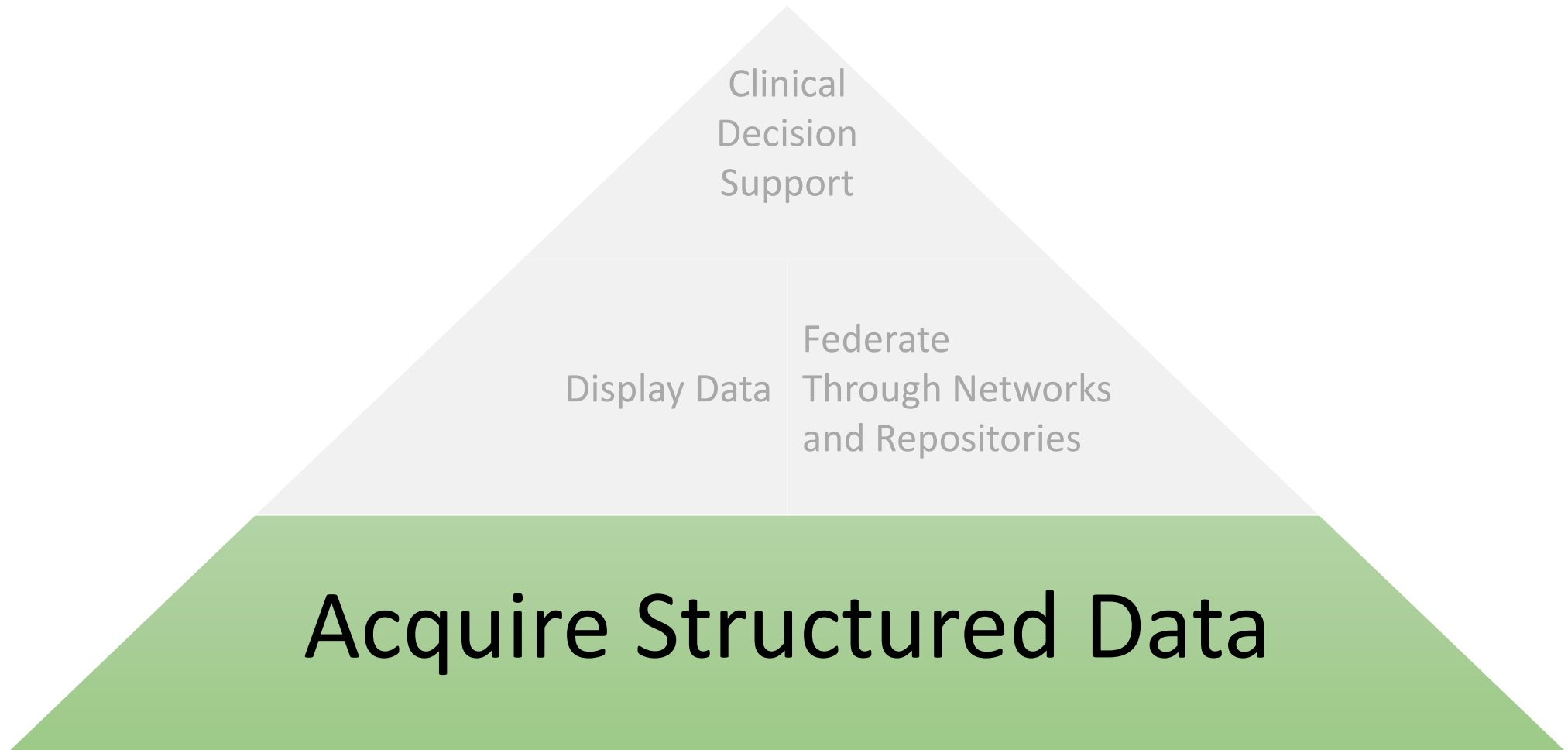
Clinical Informatics for Varied EHR Systems

State of Science and Gaps

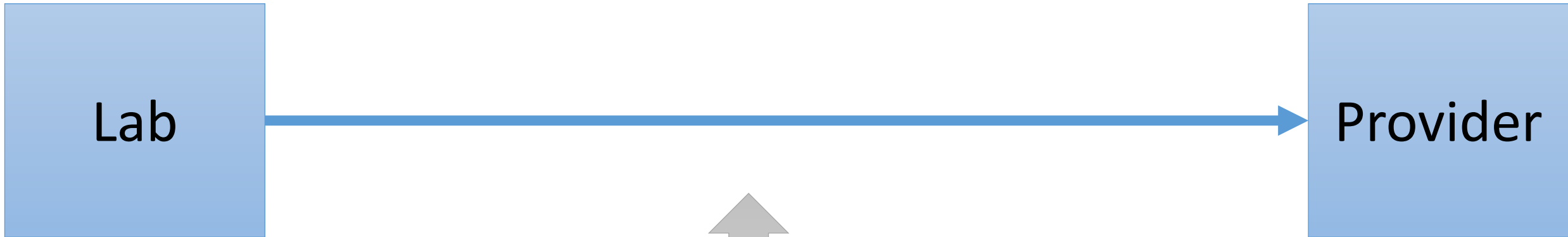
Provider Side Clinical Genetics IT Support



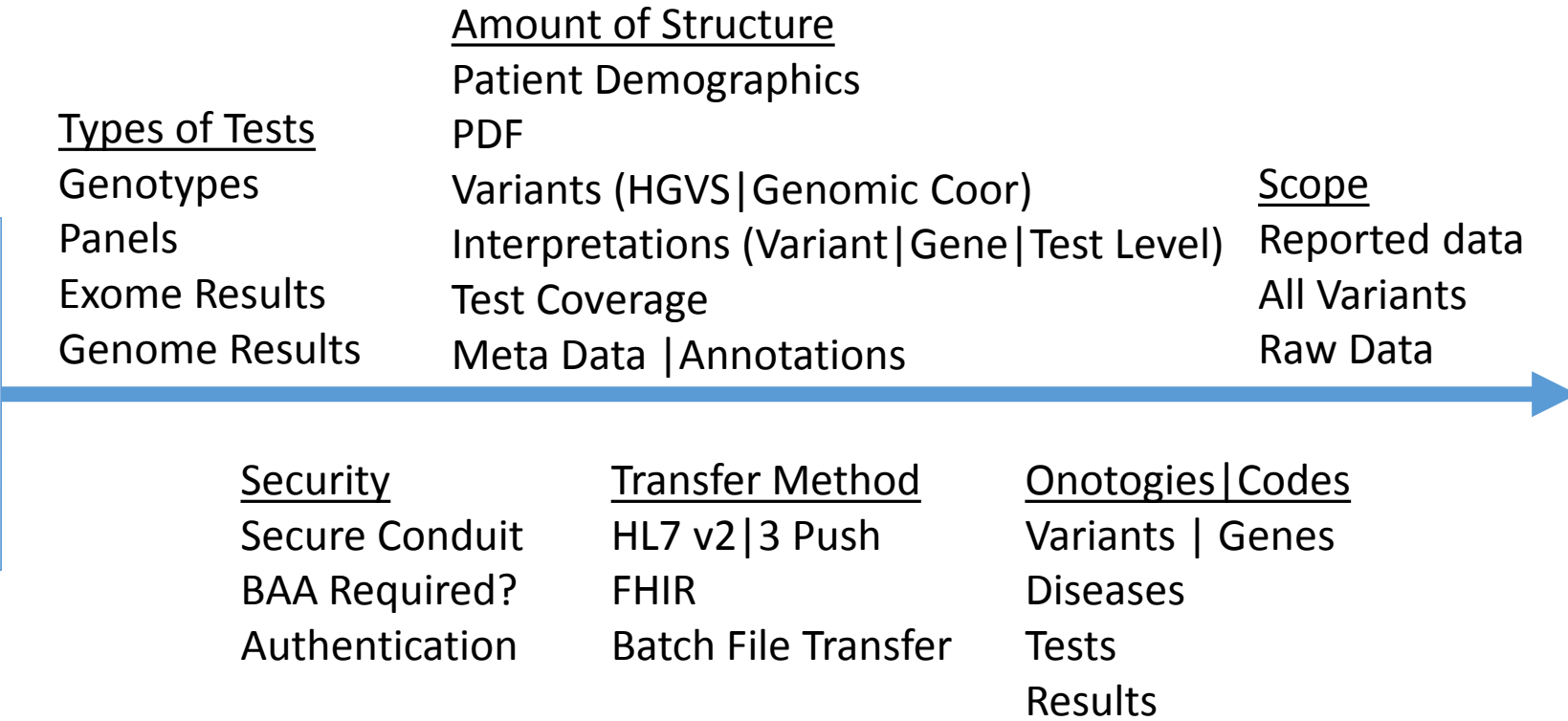
Provider Side Clinical Genetics IT Support



Genetic Results Transmission



Often Involves Crossing
an Organizational
Boundary

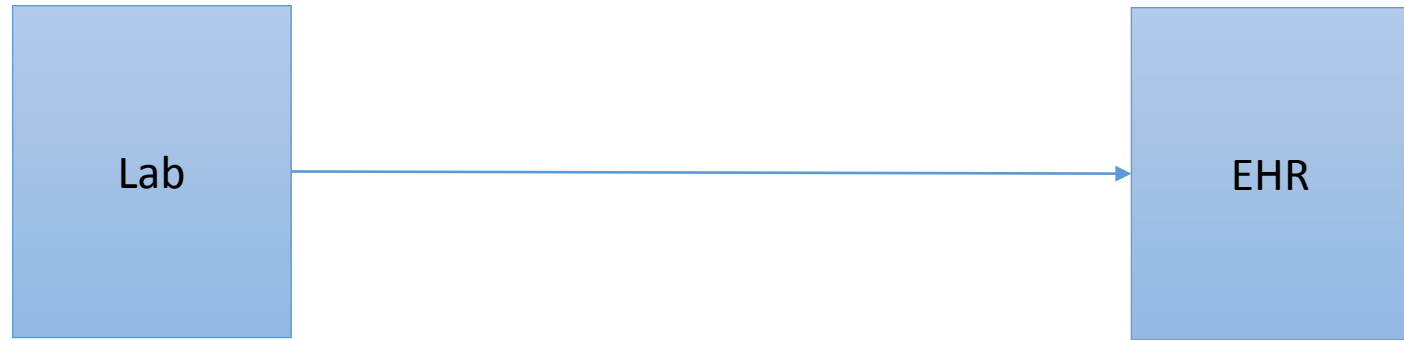


Lab

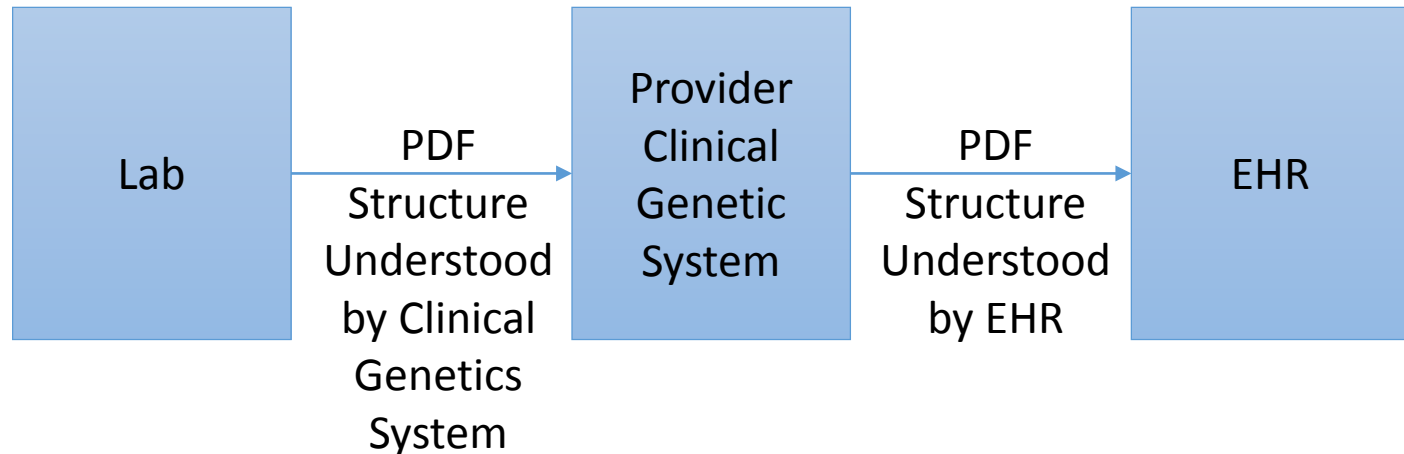
Provider

Provider EHR Ecosystem Options

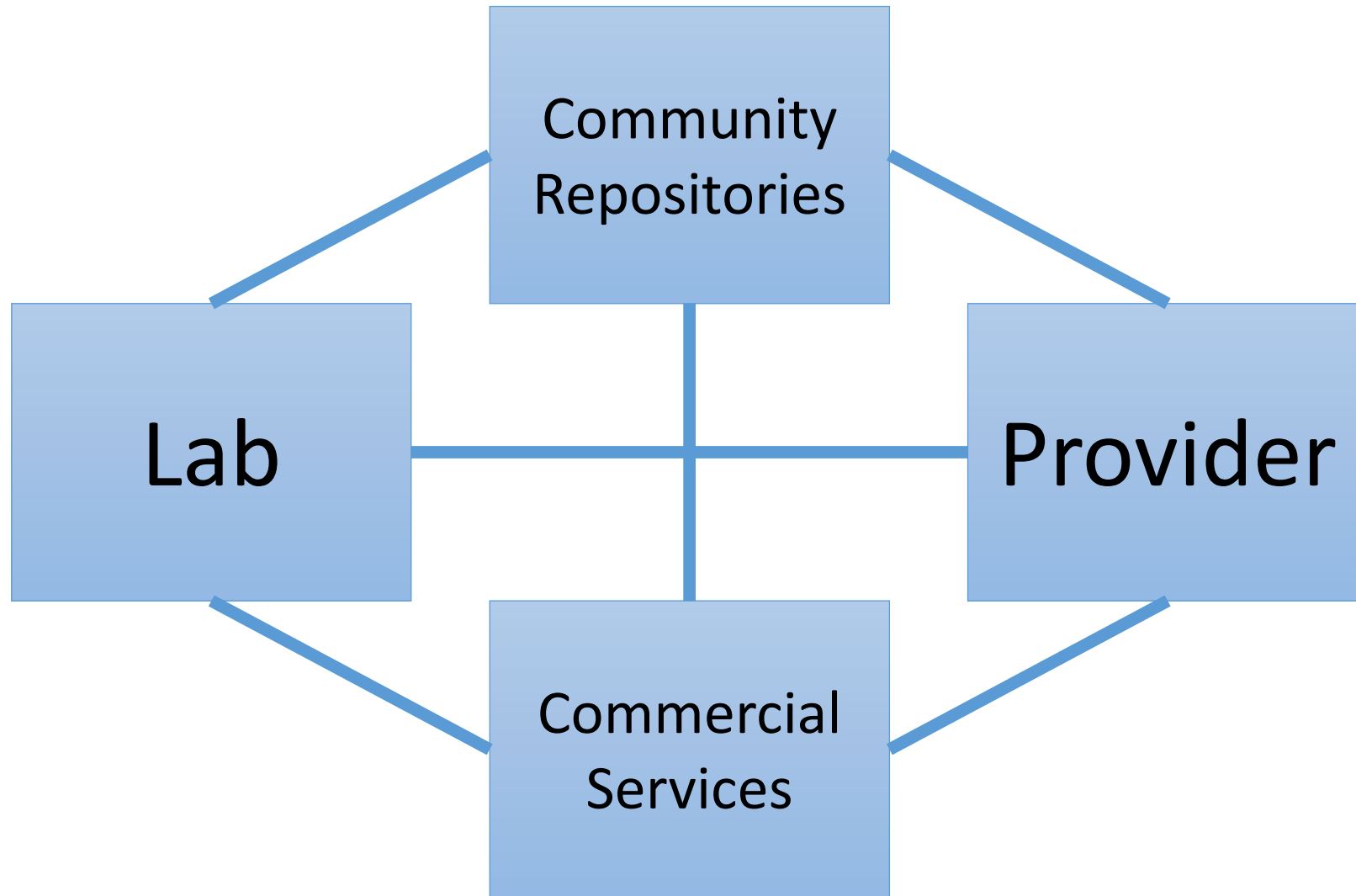
Direct to EHR



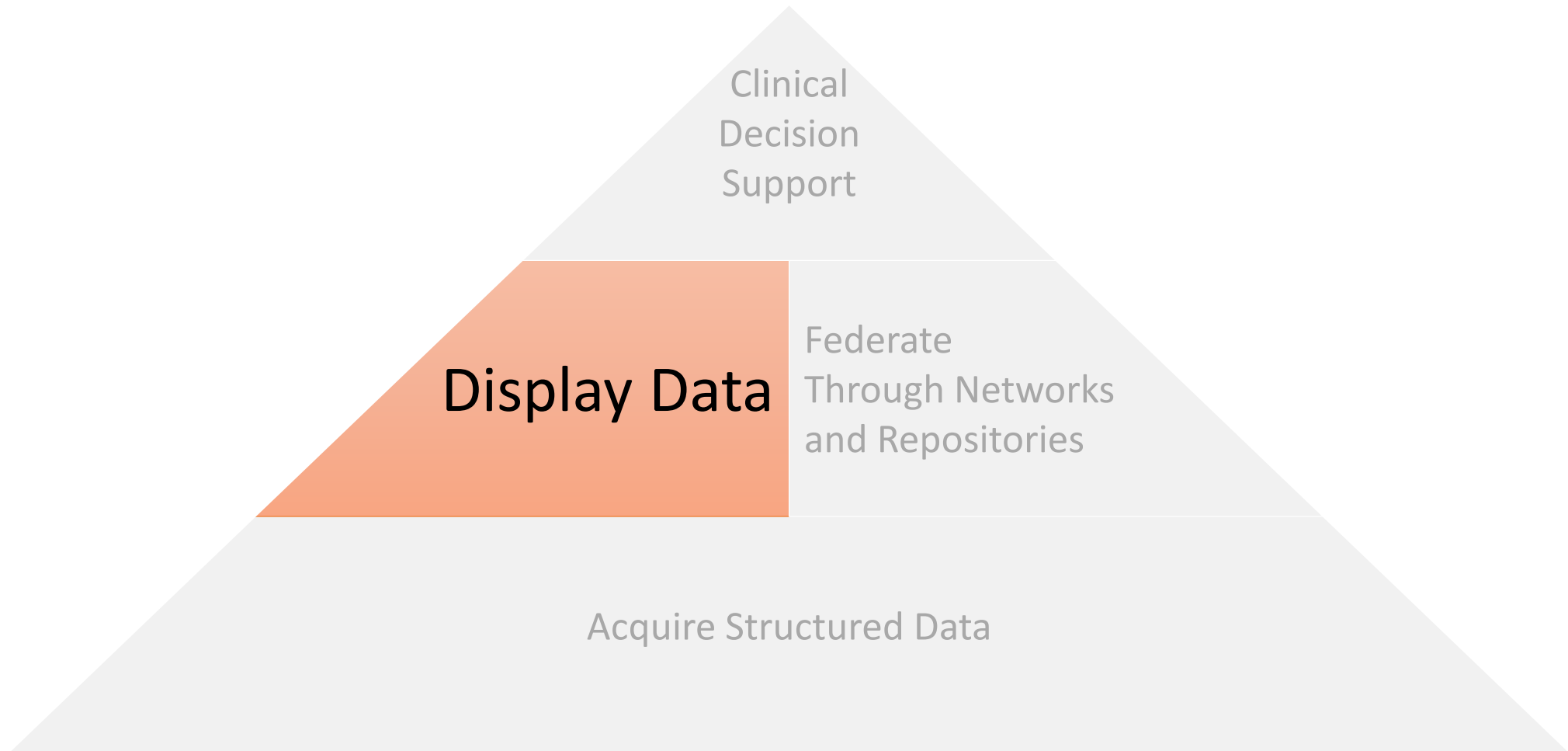
With Specialized
Clinical
Genetic System
Intermediary



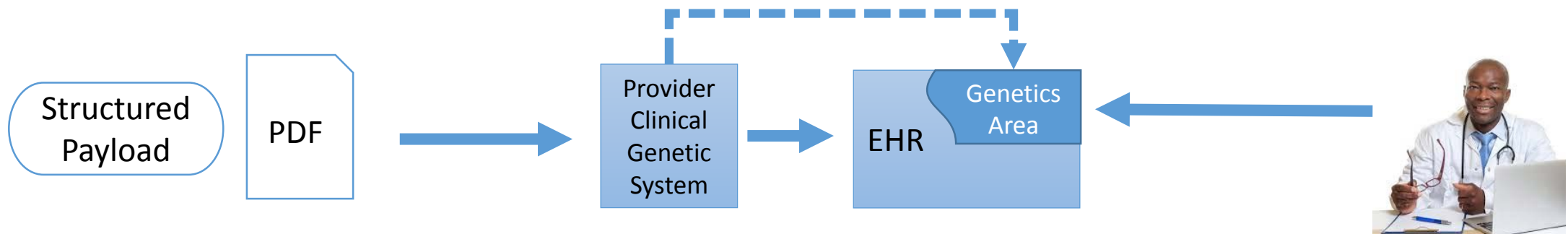
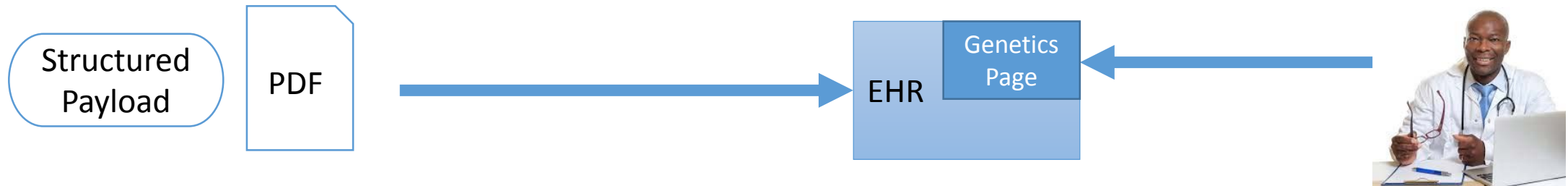
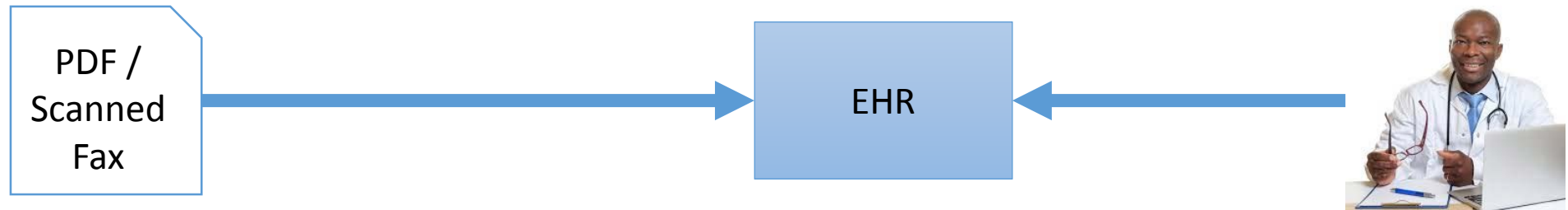
Potential Interpretation Locations



Provider Side Clinical Genetics IT Support



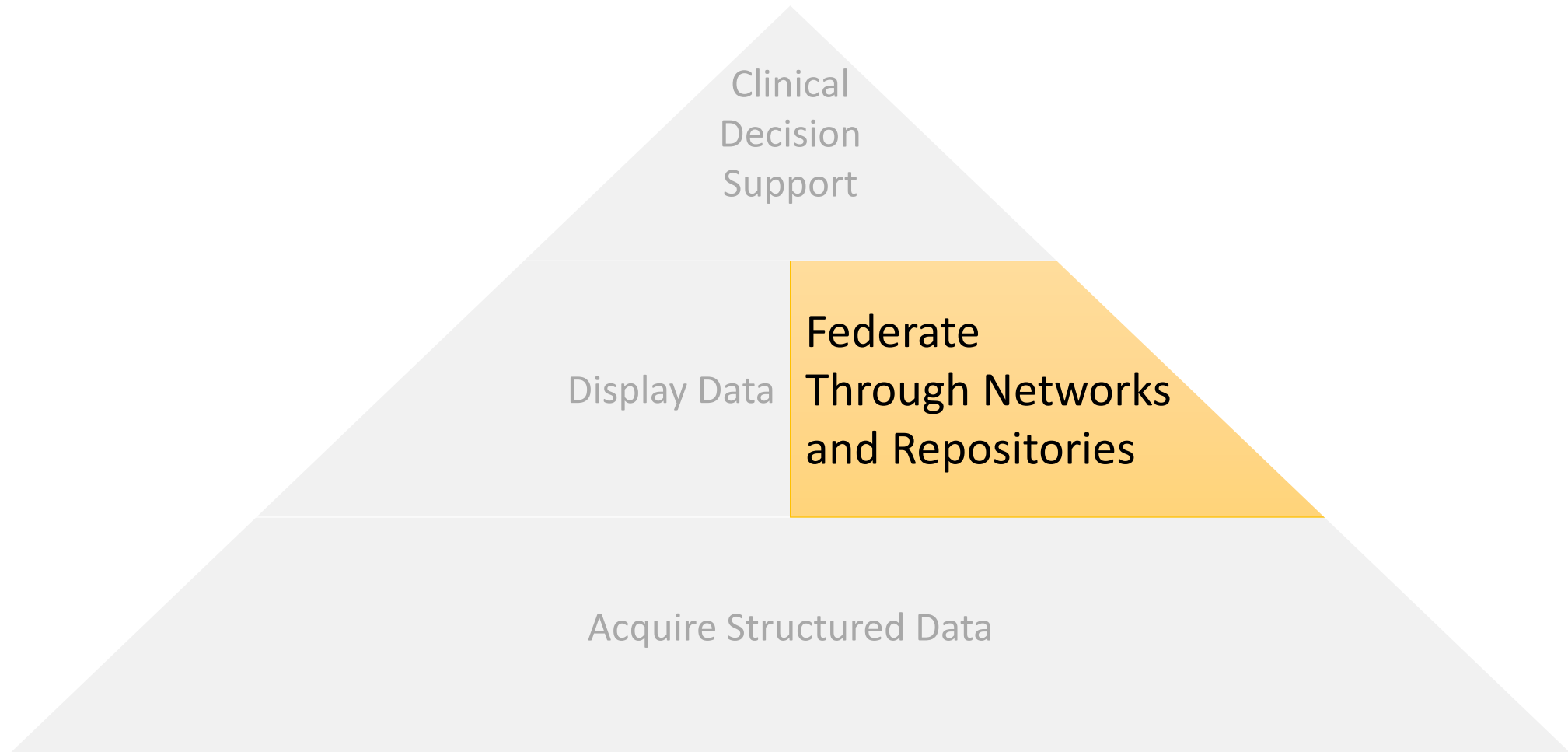
Display Mechanisms



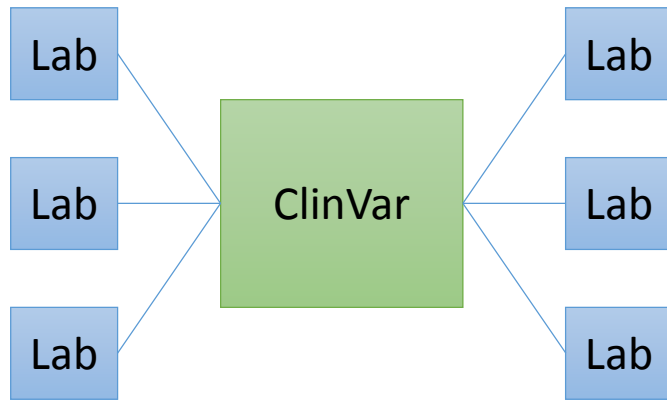
Ux Design Elements

- Graphic Design
- Information Layout | Cognitive Optimization
- Screen Construction
- User Interface Evaluation

Provider Side Clinical Genetics IT Support

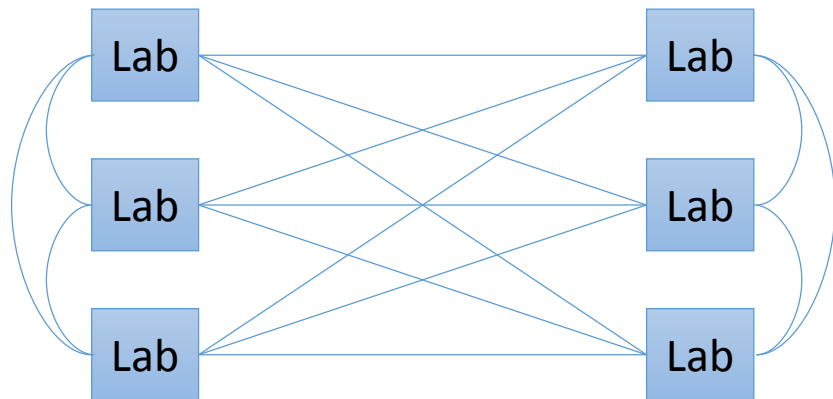


Federate Through Networks

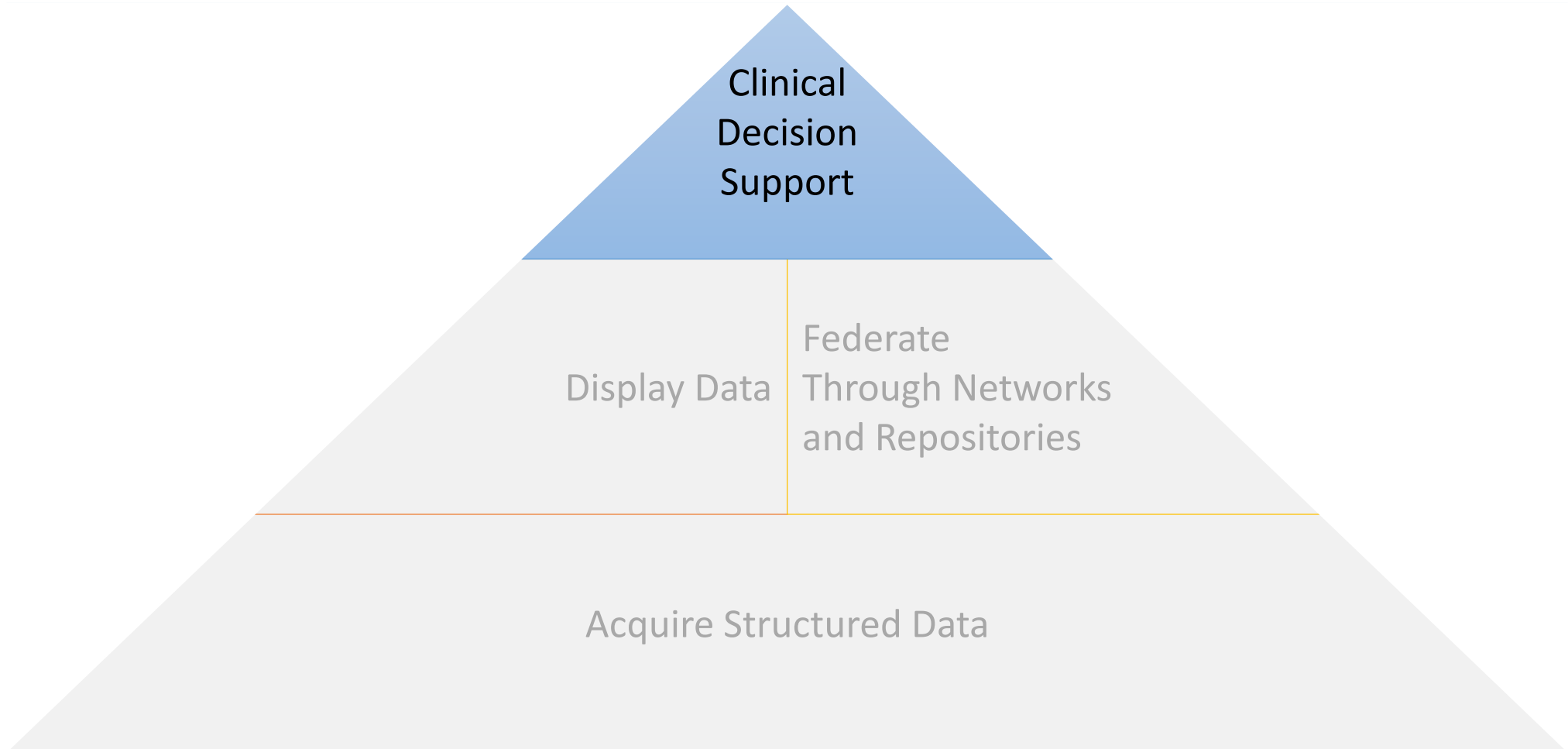


Content

- Genetic Knowledge
- Aggregate Case Data
- Individual Case Data
 - Genetic Results
 - Phenotypes
 - Indications
 - **OUTCOMES**
 - De-identified / Identified



Provider Side Clinical Genetics IT Support



Clinical Decision Support

- Passive – On Screen Information and Options
 - eResources and Infobuttons
 - Annotations
 - Calculators
 - Population Based Analytics
- Active – Proactive Alerts
 - Pharmacogenomic Interventions
 - Knowledge Update Alerts
 - Genetic risk driven reminders