# Capability Maturity Models for Learning Health Systems

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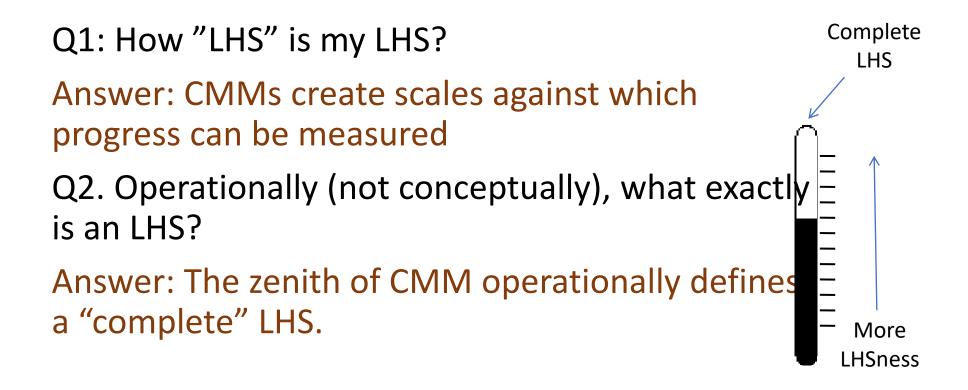
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## Two Frequently-Asked and Related Questions

Q1. How "LHS" is my LHS?

Q2. Operationally (not conceptually), what exactly is an LHS?

# Capability-Maturity Models Point the Way to the Answers



#### Pioneering Work from Cincinnati

#### Learning Health Systems Open Access









#### A maturity grid assessment tool for learning networks

Carole Lannon, Christine L. Schuler 

Michael Seid, Lloyd P. Provost, Sandra Fuller, David Purcell, Christopher B. Forrest, Peter A. Margolis ... See fewer authors

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#### Cincinnati Maturity Grid

Domains	System of Leadership Managemen	Improvement	Engagement & Community Building	Data & Analytics	Research
Components	Common Purpose Network Management	Framework for Improvement	Parents/Patients /Clinicians/ Researchers Co-creator & Producers	Data Collection  Data Quality & Validation	Educ & Training for Research using Networks
	Understand Organization as a System  Stakeholder Participation in Governance	System for Identifying Improvement Projects	Communications to Raise Awareness & Engagement	Completeness of Health- Related Data	Research Prioritization  Protocol Development &
	Family of Membership Policy	QI Learning Shared Among Participants	Co-production & Leadership	Linked Data Sources  Data Capture &	Review  Secondary Data Analyses
	Information from Stakeholders  Financial Sustainability	Methods for Dissemination & Spread of Best Practice	Co-production in site level teams  Community	Transfer from Source  Data Standardization	Primary Data Collection
	Strategic Planning for Improvement  IRB Policies & Procedures	QI Activities	Organizing to Grow Local Leadership	& Interoperability	Studies
	Managing Improvement Efforts  Policies & Procedures for IP & Data Sharing	QI Reports  QI Education & Training	Facilitating Stakeholder Collaboration  Production &	Accessibility for Learning  Consent	Tools for Interventional Studies
	Development of Leaders  Policies for working w/ External	Innovation	Sharing of Information  Feedback from Patient	Management  Clinical Decision Support	Contributing to the Science of Improvement
	Leadership System	Data Transparency	Community  Getting "What I need, when I need it"	Patient Self- management & Decision Support	Logistical Support for Research

### LHSs Exist at Differing Levels of Scale CMMs are Scale-Specific

Single Organization

Network of Organizations



State/Territory/Region



Planet



### The Learning Health Community Seeks to Complement Work Already Done

Single Organization



Learning Health
Community
(LHC)

Network of Organizations



Cincinnati

### LHC Approach & Progress

- Focus on single organizations as "learning entities"
- 15-member working group formed October, 2019
- Identified four pillars of the model and multiple "maturity indicators" for each pillar
- On hold since May due to pandemic
- Work to resume soon

#### Pillars of the Model

- Governance and Leadership: Capability to set priorities and allocate resources
- *Execution:* Capability to carry out complete improvement cycles
- *Infrastructure:* Capability to support multiple simultaneous improvement cycles with shared sociotechnical services
- *Culture and Values:* Capability to create/define/act upon shared beliefs (e.g. equity, collaboration, and inclusion) that support other capabilities/pillars

### Model Development Process (Looking Ahead)

- Working group produces V1.0 of maturity model
- Invitational meeting (n ~ 30) discusses and refines draft model, producing V2.0
- V2.0 is disseminated for open comment, generating
   V3.0
- Formal endorsement sought from range of stakeholders
- Curation and revision model developed
- Assessment process stimulated

Thanks
Write to Me

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