

# Learning Health Systems

*Health systems--at any level of scale--become **learning systems** when they can, continuously and routinely, improve health by marrying discovery to implementation.*



<https://nam.edu/programs/value-science-driven-health-care/learning-health-system-series/>

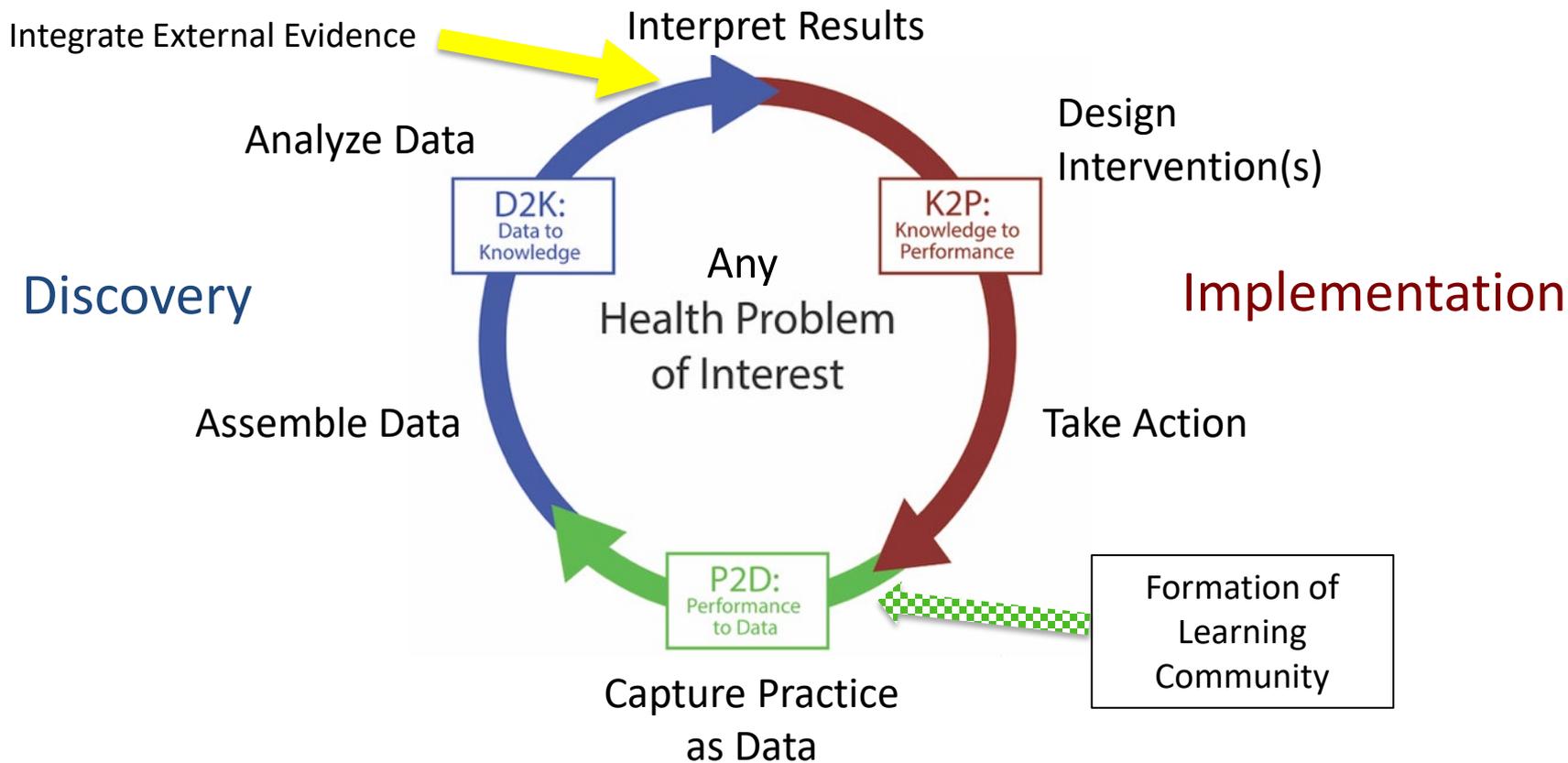


LATEST ISSUE >

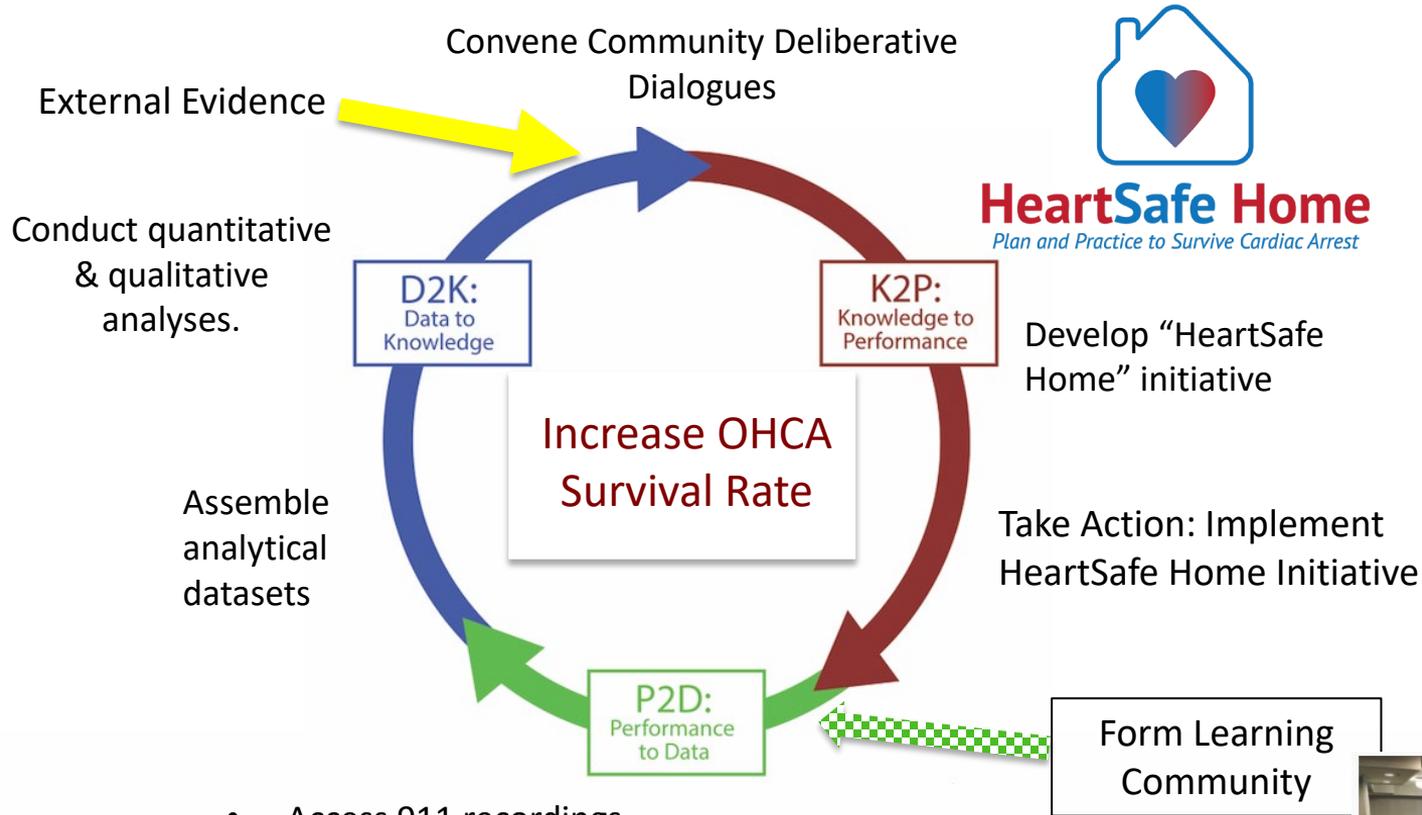
Volume 8, Issue 1

lhsjournal.com

# The Fundamental Activity: Community-Directed Improvement Cycles of Discovery & Implementation



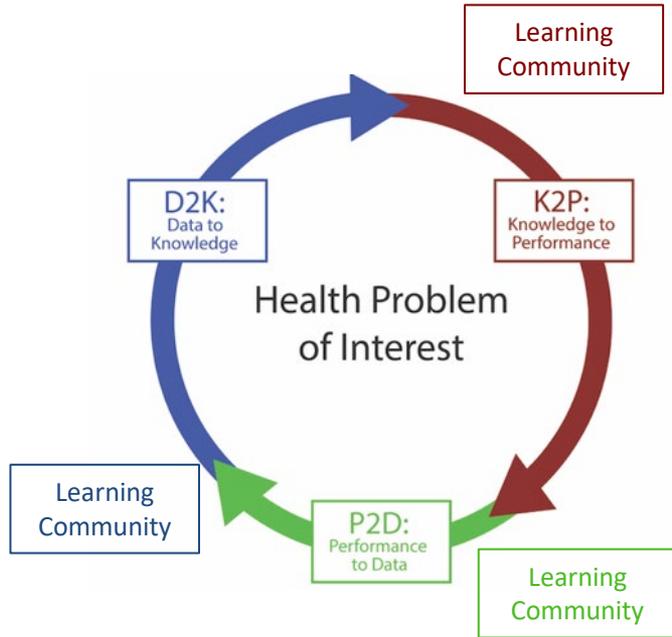
# Example: Out of Hospital Cardiac Arrest



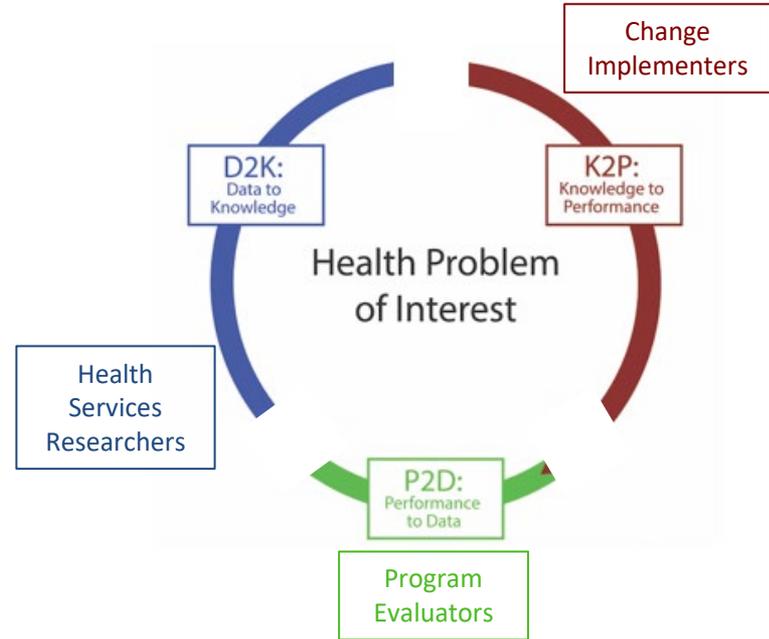
- Access 911 recordings
- Conduct stakeholder interviews
- Access routinely collected data



# *Continuity*: The Community that Discovers is also the Community that Implements



This



Not This

# So What's New Here? (A lot!)

*The LHS approach to health improvement is different from other approaches:*

- Embraced uncertainty requiring **discovery**
- Multi-stakeholder learning communities enabling **continuity**
- Infrastructure: shared services that create a **system**

Learning Health Systems Open Access

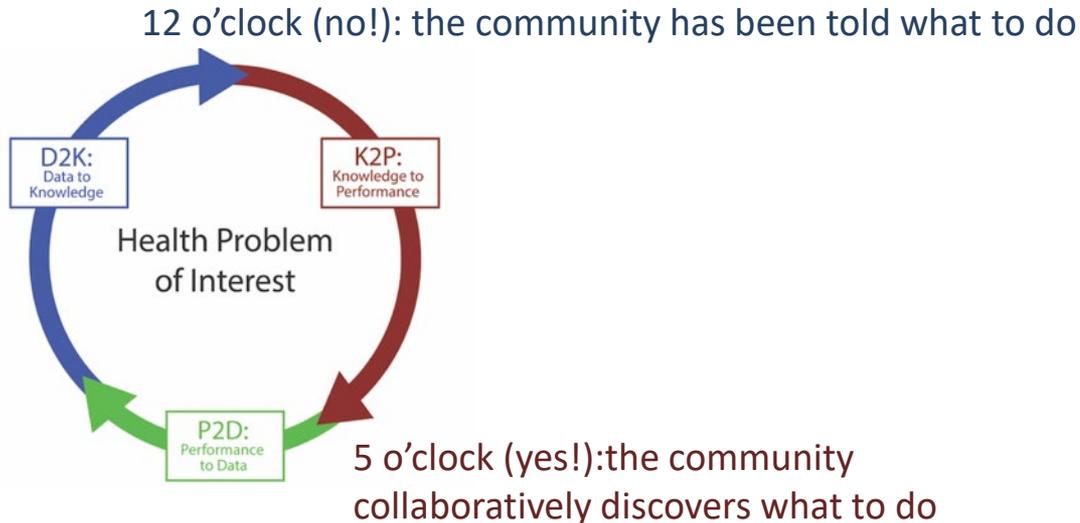
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What is unique about learning health systems?

Charles P. Friedman 

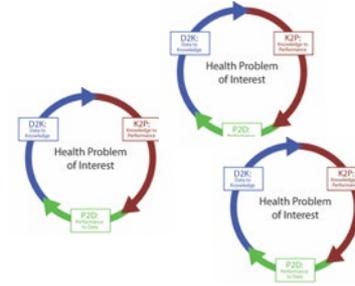
# Embracing Uncertainty

- At the outset, the community is not committed to any particular improvement intervention
- Throughout the cycle, the community advances through co-discovery
- The learning cycle should start at 5 o'clock and not 12 o'clock.



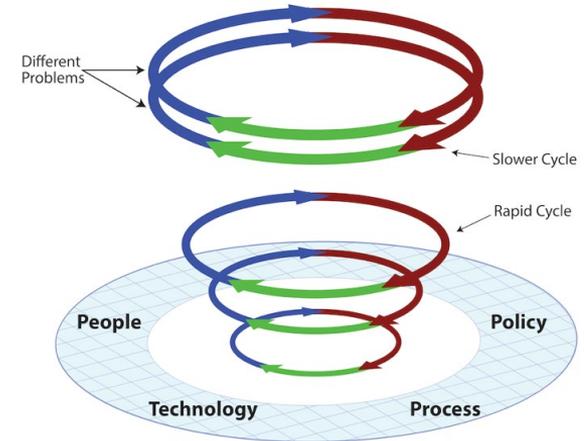
# Infrastructure!

*Cycles can enable improvement but do not create a Learning System*



*Infrastructure enables:*

- A large set of **simultaneous** learning cycles, each run by its own community and addressing a unique problem, to function as a scalable and sustainable **system**



Infrastructure

# Learning Systems Everywhere!

## Single Organization



Many academic health centers

## Network of Organizations



PEDSnet  
Genomic LHS  
EPInet  
ImproveCareNow  
LEARRN

## States/Provinces/Regions

## Nation



Switzerland  
Scotland  
U.S. (VA)



Indiana  
BC  
Quebec

## Planet



Someday

# HILS Online Will Put You at the Head of the Curve

- Making you into an improver who can address any health problem
- Connecting you to a transformational idea that is growing by the day
- Giving you a credential from a nationally renowned university that can open career doors