

# Navigating the Complexity: A Framework for Dissemination and Implementation of Healthcare Interventions

**From Bench to Bedside**  
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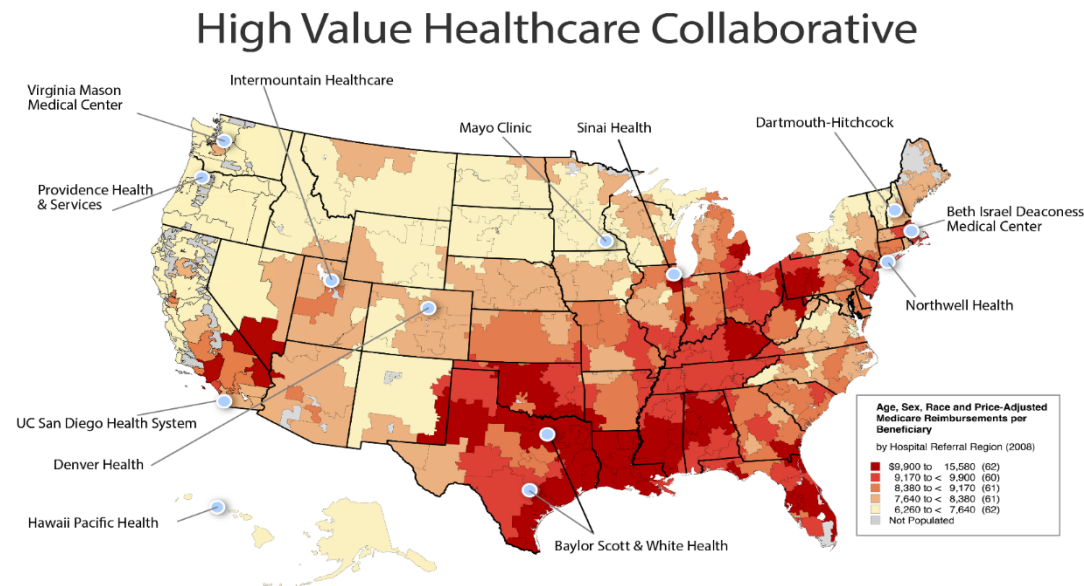
UPMC Health Plan

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Board Chair, AcademyHealth

# Private, Learning Health System Initiative

The High Value Healthcare Collaborative (HVHC) was founded in October of 2009. We are a provider learning network committed to improving health care value through data and collaboration. To accomplish this, we: (1) Measure, innovate, test, and continuously improve value-based care; (2) Rapidly disseminate and facilitate adoption of proven high value care models across HVHC members and beyond; and (3) Advocate for policy and payment models that support sustainable high value healthcare.



For additional information please visit [www.highvaluehealthcare.org](http://www.highvaluehealthcare.org) or for specific questions feel free to email [info@highvaluehealthcare.org](mailto:info@highvaluehealthcare.org).

# Learning @ Scale

- **High Value Healthcare Collaborative (HVHC)**

Savitz, LA and LT Weiss, “A Data Driven Approach to Achieving High Value Healthcare,” eGEMs, 5(3):1-5, 2017.

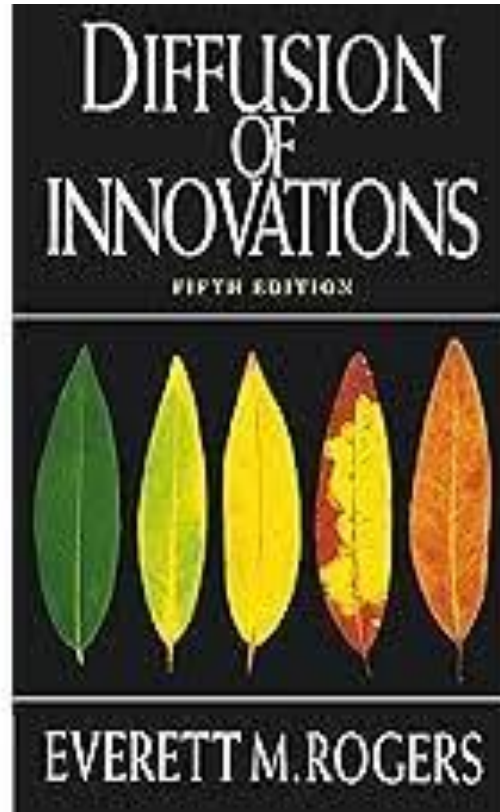
# This session draws on observed uptake and adoption decisions for a complex, intervention across 16 U.S. delivery systems.

## • 3 Hour Sepsis Bundle

Severe Sepsis/Septic Shock Management Bundle		Lenox Hill Hospital Northwell Health
<b>SIRS CRITERIA</b>		<b>END ORGAN CRITERIA</b>
<ul style="list-style-type: none"> <li>• Temp &gt; 101F or &lt; 96.8F</li> <li>• Pulse &gt; 90 bpm</li> <li>• Respiration Rate &gt; 20</li> <li>• WBC &gt; 12K / WBC &lt; 4K or Bands &gt; 10%</li> </ul>		<ul style="list-style-type: none"> <li>• Cr &gt; 2 or 0.5 increase from baseline</li> <li>• ↑ O<sub>2</sub> demand to maintain sat 90%</li> <li>• Urine Output &lt; 0.5mL/kg/hr for 2+ hrs</li> <li>• Bilirubin &gt; 2.0mg/dL</li> <li>• Platelet Count &lt; 100K</li> <li>• INR &gt; 1.5, PTT &gt; 60sec</li> <li>• New onset Altered Mental Status</li> <li>• Lactate &gt; 2.0</li> <li>• SBP &lt; 90 or MAP &lt; 65 or SBP &gt; 40 ↓</li> </ul>
<b>Pt Wt (kg)</b>	<b>IVF TOTAL</b>	<b>SEPSIS TOOLS AT LENOX HILL</b>
46 – 50 kg	1500 mL	<ul style="list-style-type: none"> <li>• Sepsis Flow Sheet @ CrashCart</li> <li>• Sepsis Tool Box @ CrashCart</li> <li>• For any additional questions regarding sepsis, please contact LHH Quality Management Department</li> </ul>
51 – 55 kg	1650 mL	
56 – 60 kg	1800 mL	
61 – 65 kg	1950 mL	
66 – 70 kg	2100 mL	
71 – 75 kg	2250 mL	
76 – 80 kg	2400 mL	
81 – 85 kg	2550 mL	
86 – 90 kg	2700 mL	
91 – 95 kg	2850 mL	
96 – 100 kg	3000 mL	
101 – 105 kg	3150 mL	<p><b>Stop Sepsis. Start Now.</b></p>

# Healthcare Data are Complex

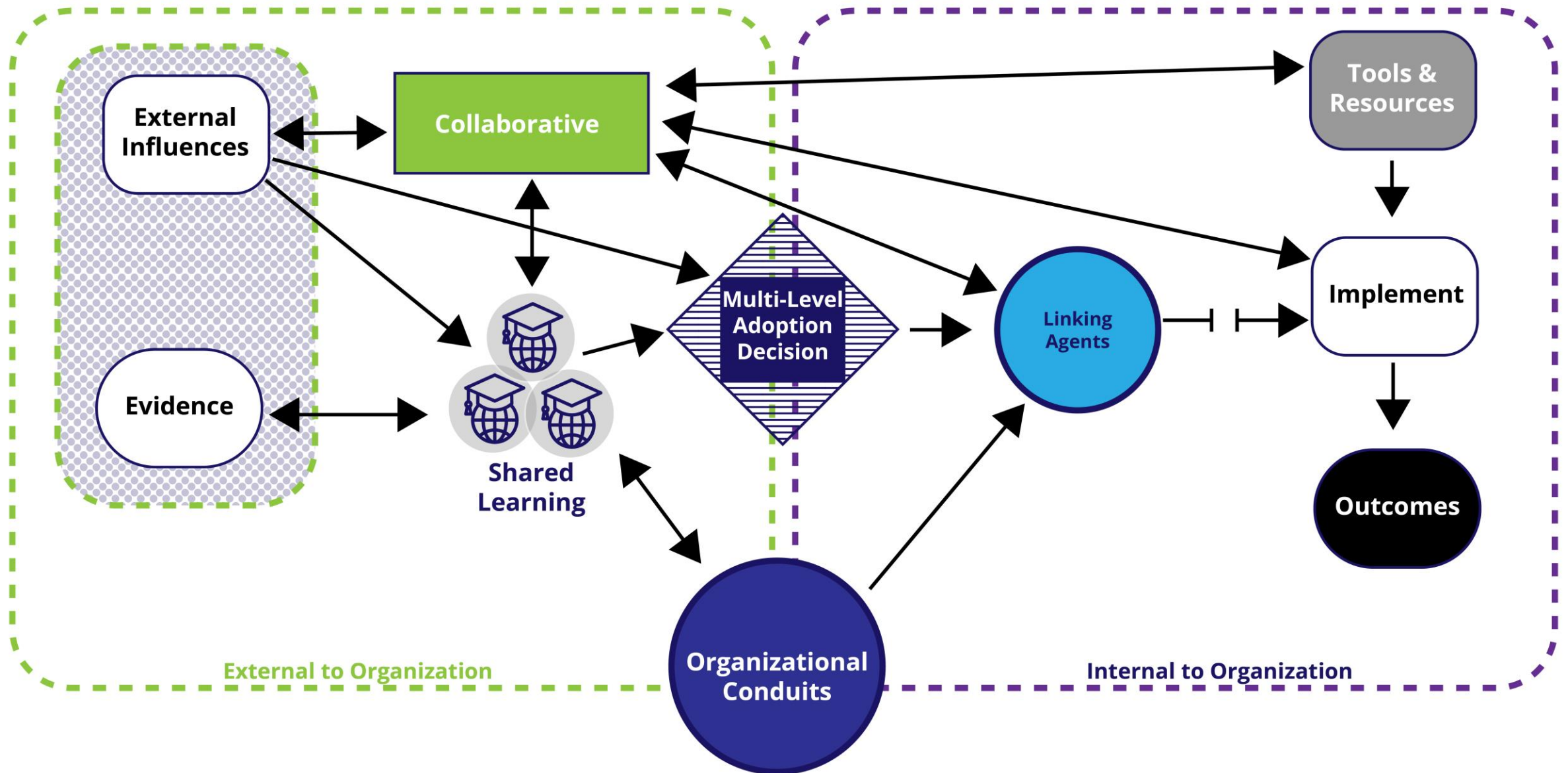
- While other industries have well developed data exploration processes (e.g., banking), healthcare is still developing its methods, with
  - miscellaneous data sources and types,
  - huge quantities of unstructured data,
  - diverse measuring precision, and
  - lots of uncertainties about data quality



## Attributes of an Intervention

- Relative advantage
- Compatibility
- Complexity
- Trialability
- Observability

# Generalized Framework for Accelerated Dissemination and Implementation



# Acknowledgements

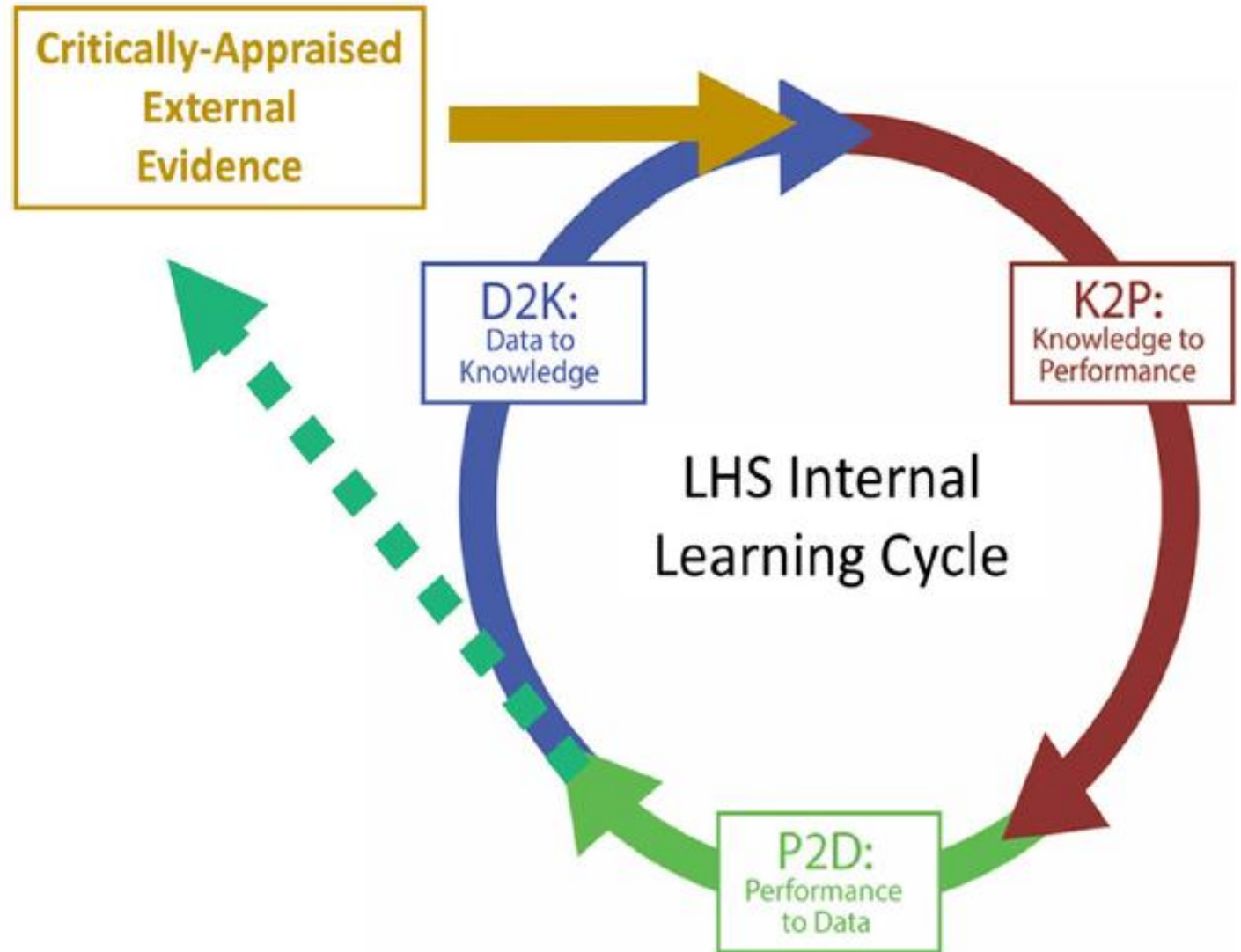
**LT Weiss, A Tanzaer, J. Weinstein**  
**The High Value Healthcare**  
**Collaborative**

**Funding from the Arnold Foundation**



# The Learning Health System Opportunity

- Guise JM, Savitz LA, Friedman CP. Mind the Gap: Putting Evidence into Practice in the Era of Learning Health Systems. *Journal of general internal medicine*. 2018.





ANNUAL  
**RESEARCH MEETING**

**June 29-July 2, 2024**

Baltimore Convention Center | Baltimore, MD