Malaz Boustani, MD, MPH

Disclosures

Malaz Boustani, MD, MPH

Equity ownership in two local IT companies

- Preferred Population Health Management , LLC
- RestUP, LLC

Will not discuss off-label medication use





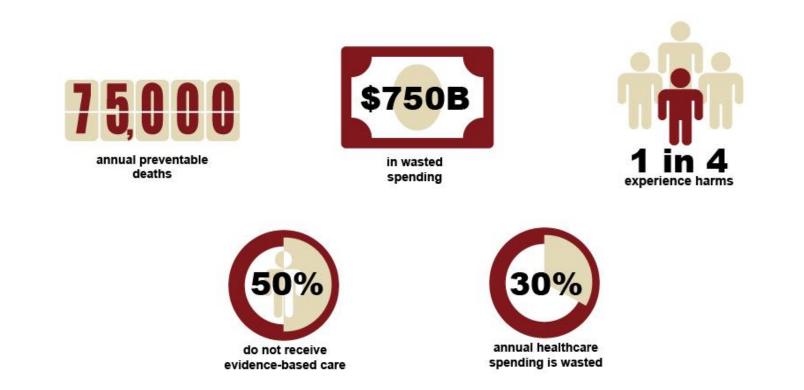
• Aim 1: Quick dive into the emerging Science of Implementation

Aim 2: Describe the Agile Implementation Process





Today's Healthcare System – Healthcare 1.0



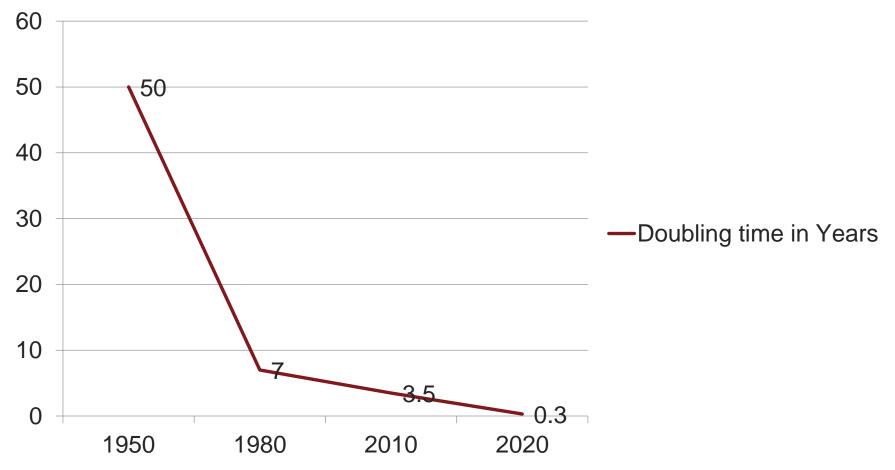
Smith M, Saunders R, Stuckhardt L, McGinnis JM. Best care at lower cost: the path to continuously learning health care in America:. National Academies Press; 2013. Institute of Medicine. 2013. Best Care at Lower Cost: The Path to Continuously Learning Health Care in America. Washington, DC: The National Academies Press. https://doi.org/10.17226/13444. Landrigan C, Parry G, Bones C, Hackbarth A, Goldmann D, Sharek P. Temporal Trends in Rates of Patient Harm Resulting from Medical Care. The New England Journal of Medicine 2010 Nov;363:2124—34. Ebell MH, Sokol R, Lee A, Simons C, Early J. How good is the evidence to support primary care practice? Evid Based Med 2017;22:88–92.

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Exponential Growth in Medical Knowledge

Doubling time in Years



Densen P. Challenges and opporunity facing medical education. Trans Am Clin Climatol Assoc 2011;122:48-58

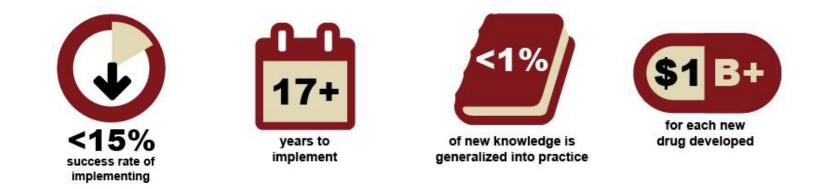




Our Challenge

It is NOT a "Knowledge" Problem

Every day, the scientific community publishes 75 trials and 11 systematic reviews⁶



Bastian H, Glasziou P, Chalmers I. Seventy-five trials and eleven systematic reviews a day: how will we ever keep up? PLoS Med 2010;7(9):e1000326. Balas E, Boren S. Yearbook of medical informatics: Managing clinical knowledge for health care improvement. Stuttgart, Germany: Schattauer Verlaggesellsschaft mbH; 2000. Green LW, Ottoson JM, Garcia C, Hiatt RA. Diffusion theory and knowledge dissemination, utilization, and integration in public health. Annu Rev Public Health 2009;30:151—74. Brownson R, Kreuter M, Barbara A, Arrington B, True W. Translating Scientific Discoveries Into Public Health Action: How Can Schools Of Public Health Move Us Forward? Public Health Reports, Vol 121, Issue 1, pp. 97 - 103, First Published January 1, 2006, https://doi.org/10.1177/003335490612100118. Paul S. Mytelka D. Dunwiddie T. Persinger C. Munos B. Lindborg S. Schacht A. How to improve R&D productivity: the pharmaceutical industry's grand challenge. Nature Reviews Drug Discovery volume 9, pages 203–214 (2010). doi:10.1038/nrd3078.

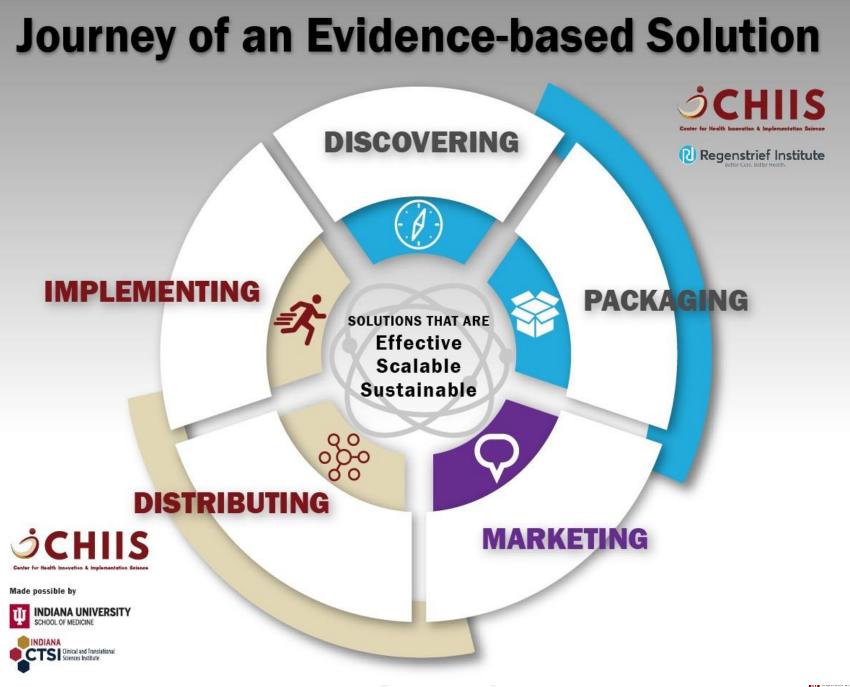
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Implementation Science

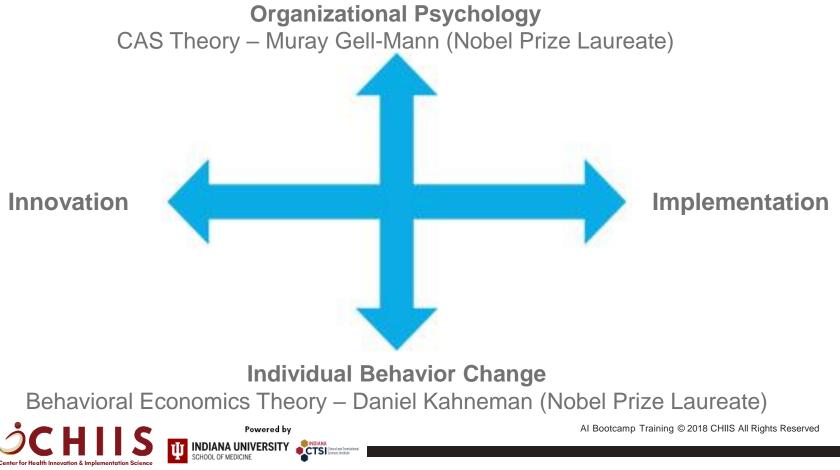
 Developing tools, processes, and strategies for rapid, efficient, scalable, and sustainable implementation of evidence-based services in the local "real world".

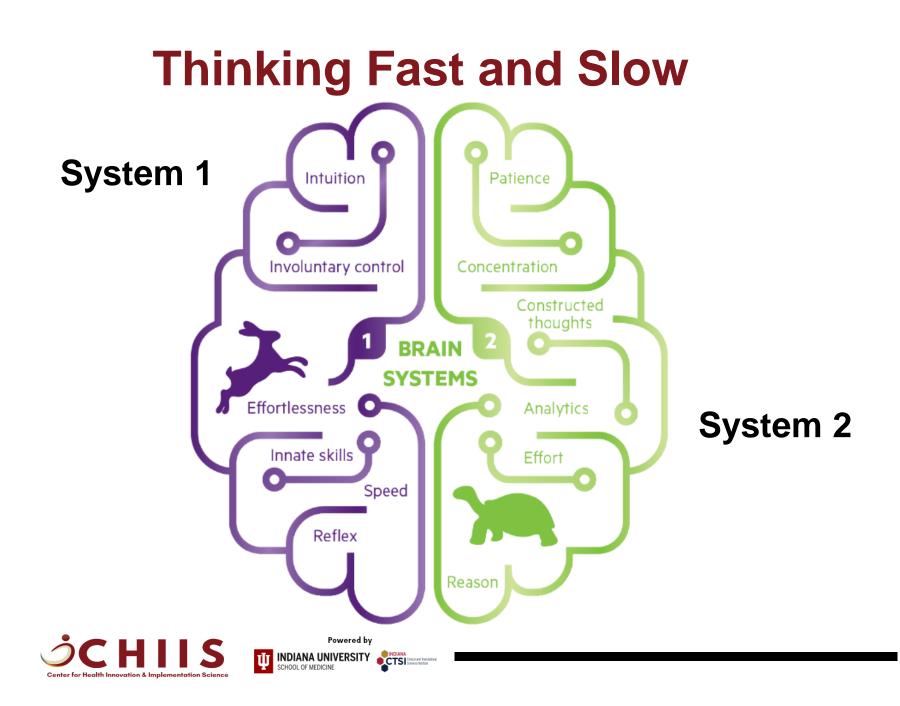
Boustani, Alder C, and Solid C. Agile Implementation: JAGS 2018.

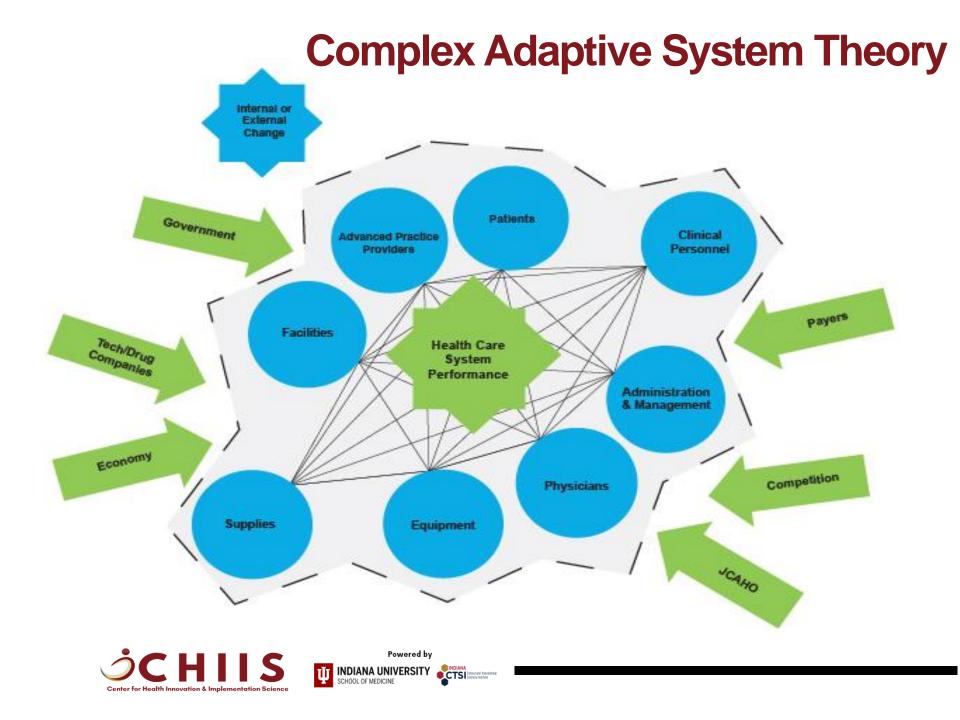




Never Ending, Dynamic Dance





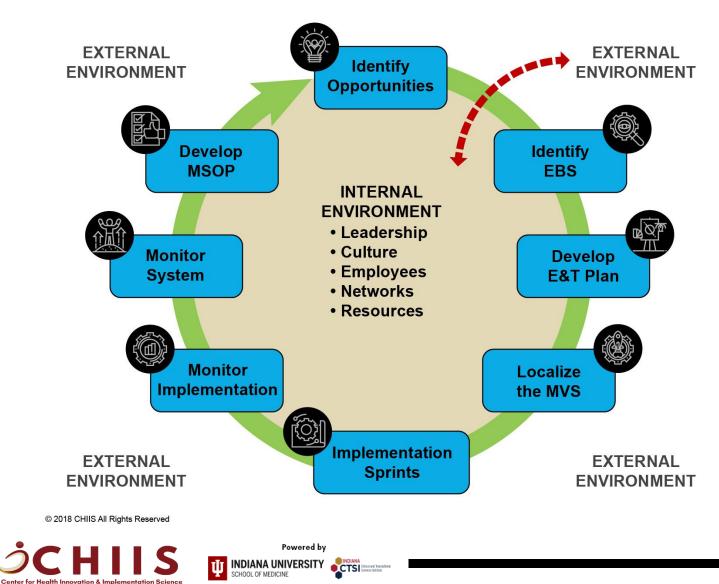


- Eight interconnected steps facilitated by an internal or external change agent to:
 - ⁻ Develop or Select
 - ⁻ Adapt, Implement and Evaluate
 - Sustain and Scale
- Either:
 - Evidence-based or Innovative Healthcare Solutions
- In a Local Complex Adaptive Healthcare Delivery Organization

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Boustani et al, Academic Medicine 2018; Boustani et al, JAGS 2018; Callahan et al, JAGS 2018





Al Playbook

- 1. Proactively **identify** and **confirm** opportunities
- 2. Identify evidence-based solutions
- 3. Develop evaluation and termination plans
- 4. Localize the minimally viable service (MVS)

- 5. Perform Implementation Sprints
- 6. Monitor implementation performance
- 7. Monitor system performance
- 8. Develop minimal standardized operating procedure (MSOP)



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