DIGITAL INFRASTRUCTURE FOR
THE LEARNING HEALTH SYSTEM
The Foundation for Continuous Improvement in Health and Health Care

Workshop Series Summary
“Health and health care are going digital. As multiple intersecting platforms evolve to form a novel operational foundation for health and health care—the nation’s digital health utility—the stage is set for fundamental and unprecedented transformation.”
1863 Congressional charter
Adviser to the nation

- Consensus Studies
- Convening

INSTITUTE OF MEDICINE
OF THE NATIONAL ACADEMIES
Advising the nation / Improving health
Roundtable on Value & Science-Driven Health Care

Leadership from core stakeholder communities…

- Clinicians
- Patients
- Health care organizations
- Employers
- Manufacturers
- Insurers
- Health IT
- Researchers
- Policy makers
Roundtable Charter

“We seek the development of a learning health system in which science, informatics, incentives, and culture are aligned for continuous improvement and innovation—with best practices seamlessly embedded in the delivery process and new knowledge captured as an integral by-product of the delivery experience.”
Committee on the Learning Health System in America

“An ad hoc Committee will consider the urgent and longer-term actions necessary to foster the development of a continuously learning healthcare system. The Committee will conduct a study and make recommendations that can help transform the current healthcare delivery system into one of continuous assessment and improvement for both the effectiveness and efficiency of health care.”
Committee Members

Mark D. Smith (chair) CAHCF
James P. Bagian U Michigan
Anthony Bryk Carnegie Foundation
Gail H. Cassell Eli Lilly (former)
James B. Conway IHI
Helen B. Darling NBGH
T. Bruce Ferguson ECU
Ginger L. Graham Two Trees Consult
George C. Halvorson KP
Brent James Intermountain
Craig Jones State of VT
Gary Kaplan Virginia Mason
Arthur A. Levin Cent Med Consum
Eugene Litvak Inst HC Optimization
David O. Meltzer U Chicago
Mary D. Naylor U Penn
Rita F. Redberg UCSF
Paul C. Tang Palo Alto Med Found
LHS Action Phase

IOM Innovation Collaboratives

Clinical Research (research institutions)
- AstraZeneca, Duke University, FDA, Harvard Medical School, Kaiser Permanente, NIH, Vanderbilt University, Tufts University, Johnson & Johnson, Mayo Clinic, AHRQ, Veterans Health Affairs, PCORI, AAMC, Brigham and Women’s, Bristol-Myers Squibb, CMTP, Duke, FDA, GSK, UPenn,

Digital Learning (large care delivery and IT organizations)
- Geisinger Health System, HCA, Intermountain, Kaiser Permanente, Microsoft, UnitedHealth Group, Epic, ONC/HHS, FDA, AMIA, Children’s Hospital of Philadelphia, Cleveland Clinic, Google, Harvard, HCA, IBM, Mayo, Partners, Vanderbilt

Best Practices (professional societies)

Evidence Communication (organizations with marketing capacity)

Value Incentives (large employers, care delivery, and insurance organizations)
- Johnson & Johnson, Partners, CMS, Aetna, BCBS Association, GE, GroupHealth, Kaiser Permanente, National Business Group on Health, Leapfrog Group, Virginia Mason, Wellpoint, Dartmouth, Medtronic, Leapfrog, ThedaCare