



U.S. Department of Health and Human Services



Agency for Healthcare Research and Quality

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Health IT's Role in Diagnostic Safety

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AHRQ Center for Evidence and Practice Improvement

AHRQ Research Summit: Improving Diagnosis in Health Care

September 28, 2016



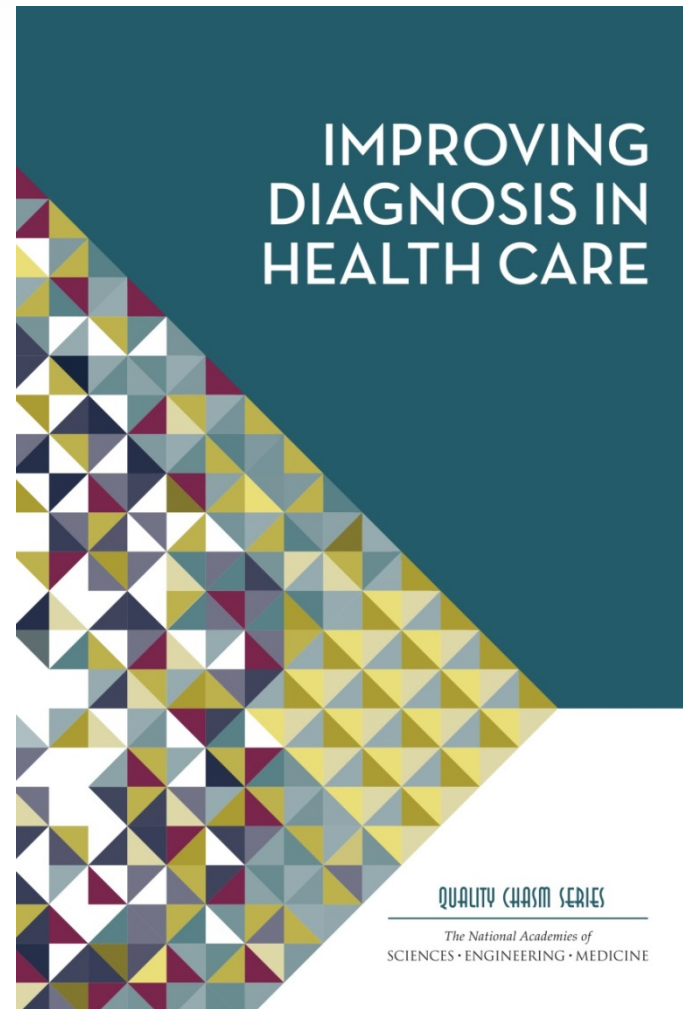
Agenda

- Session Overview and Goals
- Foundations for Future Work
- Panelist Introductions
- Overarching Questions

Session Overview and Goals

Building from this report:

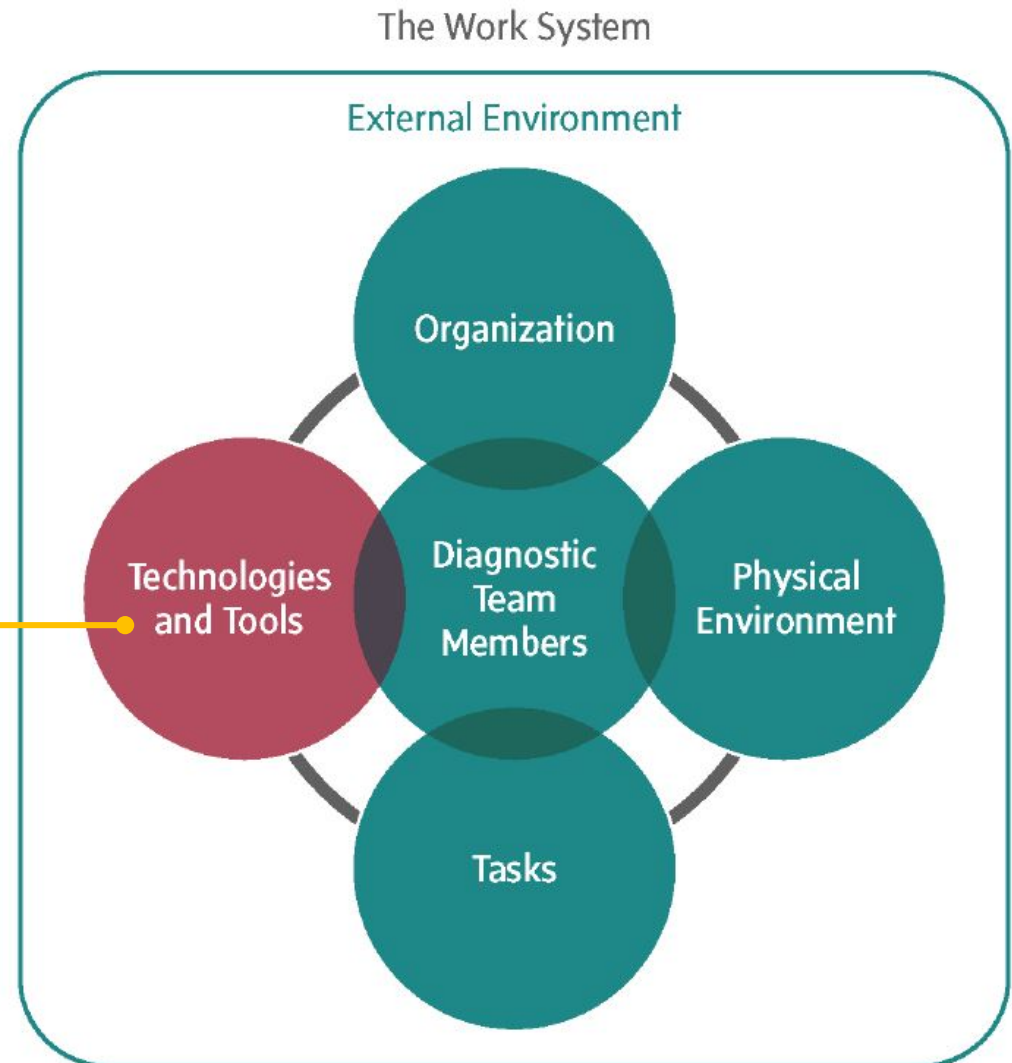
- Explore the state of the science
- Identify gaps
- Solicit specific suggestions



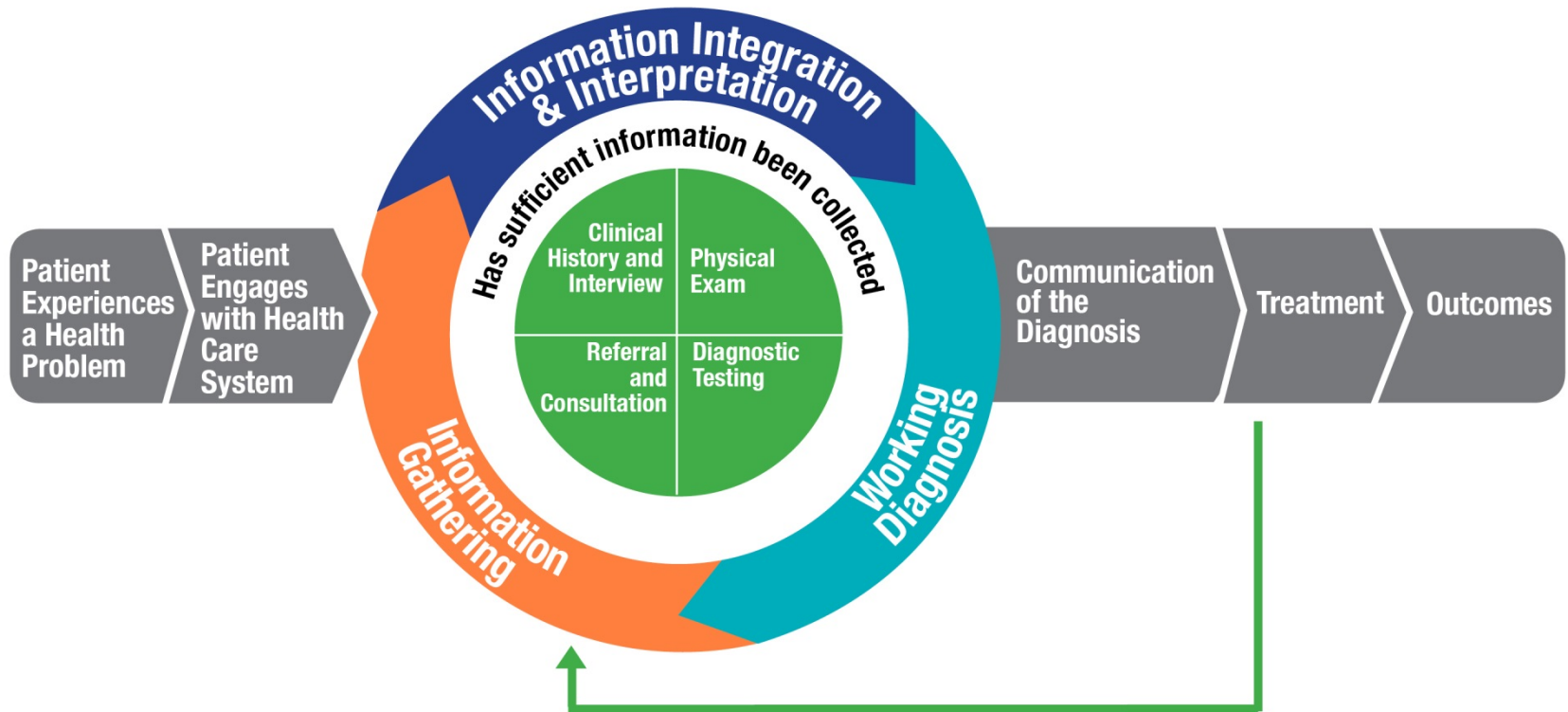
Session Focus

Health IT Tools

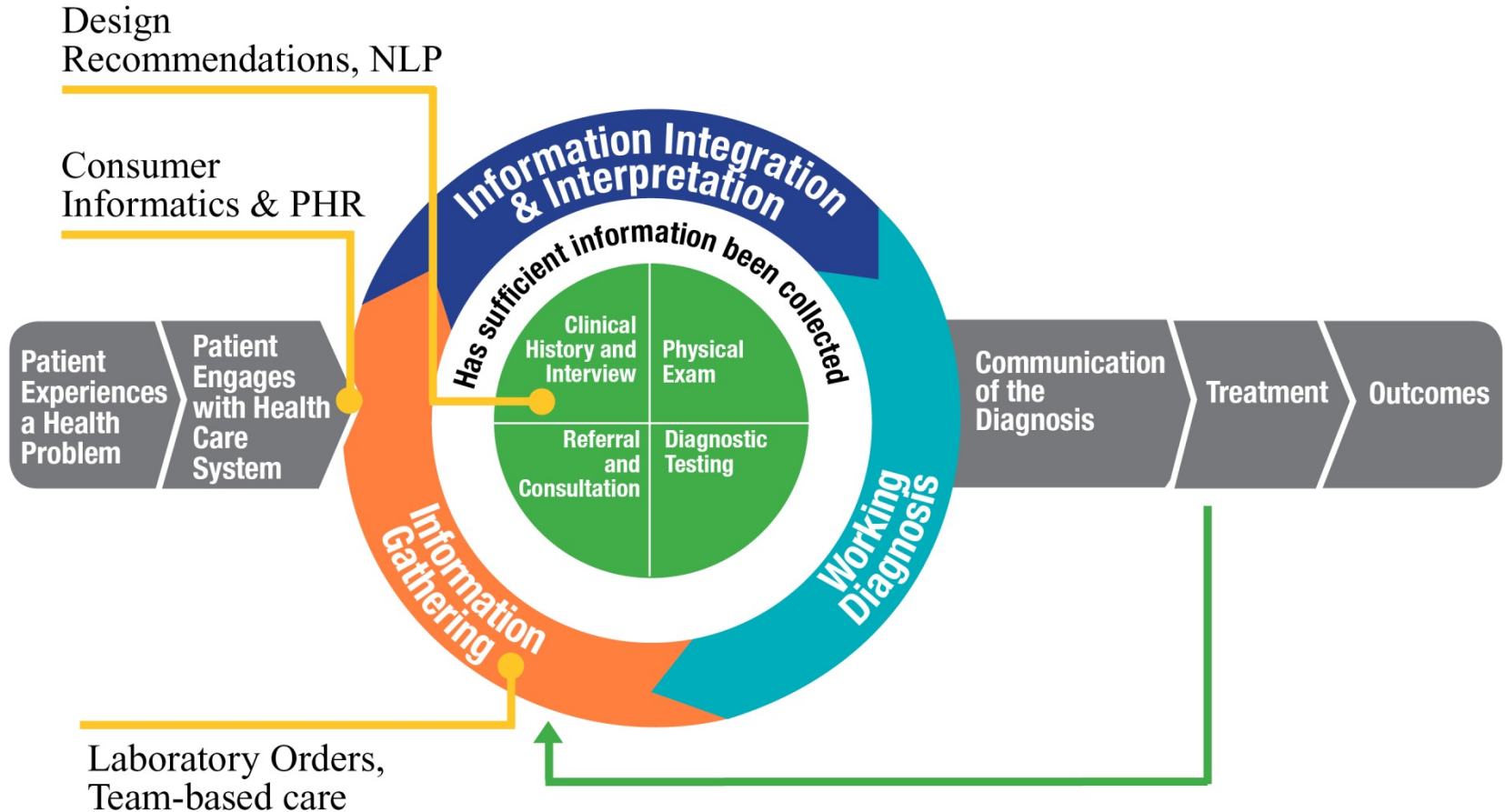
- EHR systems
- Clinical decision support
- Computerized order entry
- Lab and medical imaging systems
- Health information exchange
- Patient engagement tools



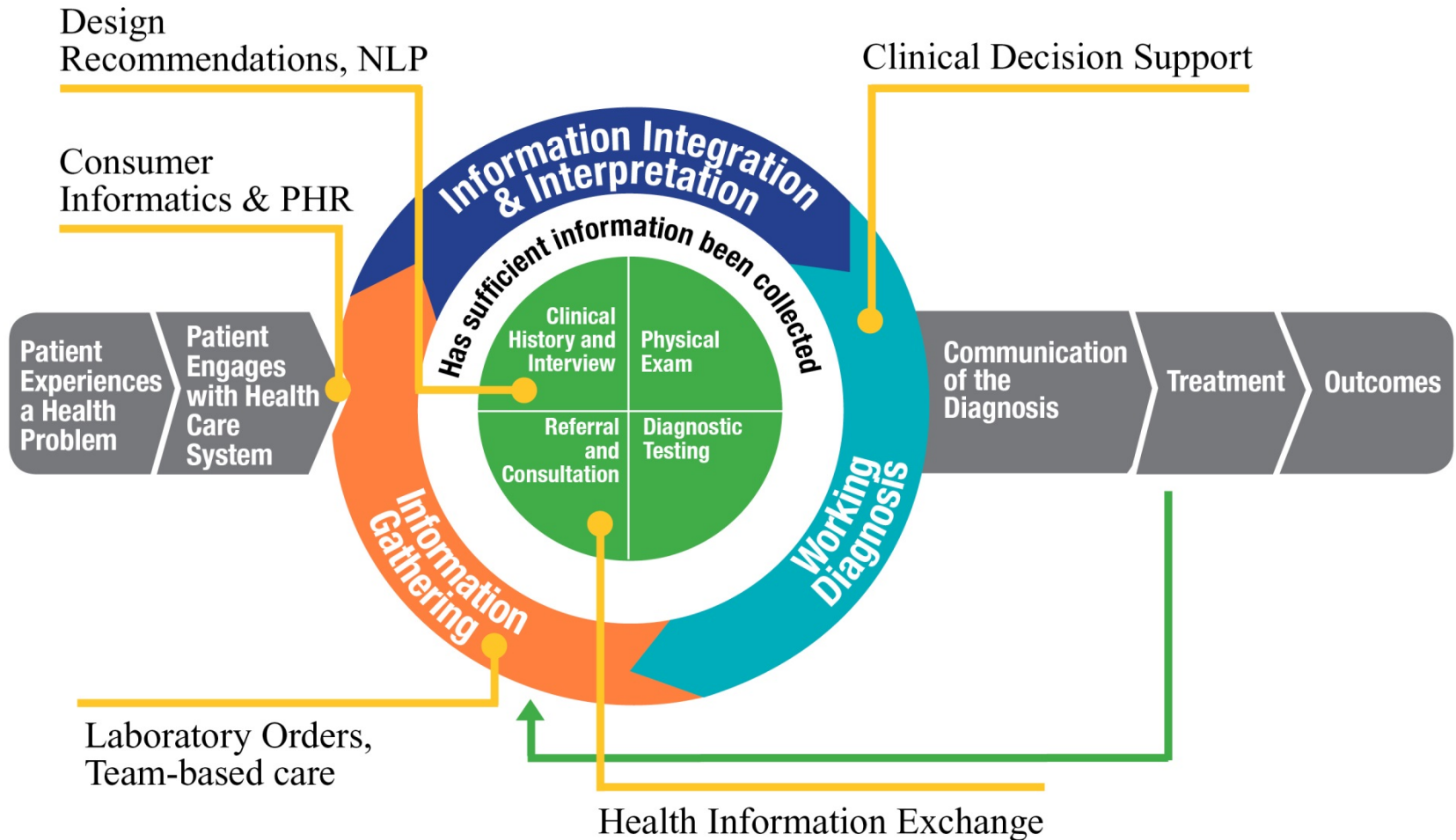
Foundations for Future Work



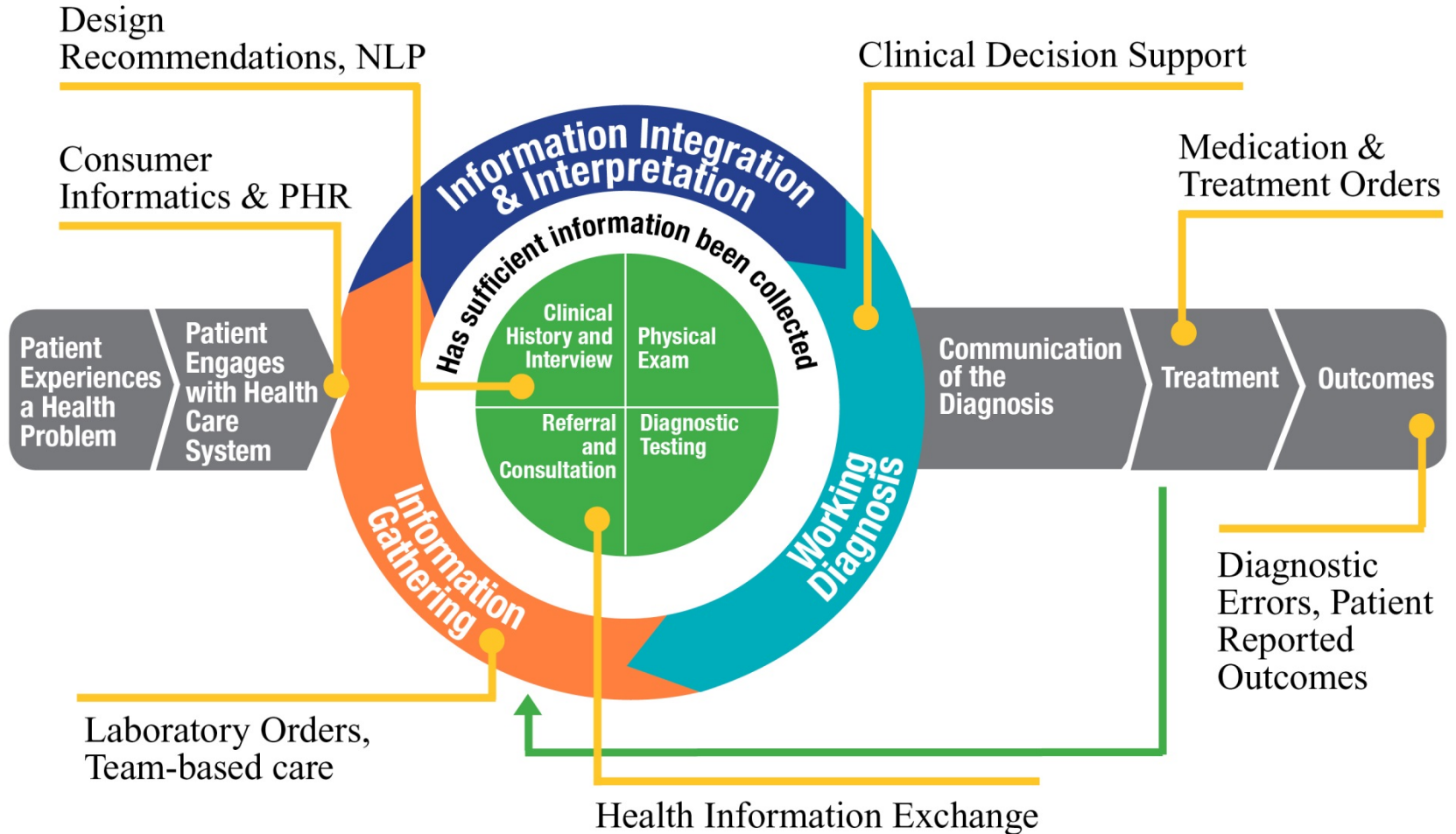
Foundations for Future Work (cont'd)



Foundations for Future Work (cont'd)



Foundations for Future Work (cont'd)





Enhancing Cognition in an Age of Information Overload

Global scientific output doubles every 9 years

Medical data to double every 73 days by 2020

Various approaches exist to enhance cognition via big data analysis at multiple data levels (i.e., molecular, tissue, patient, population)

Healthcare IT News

TOPICS SIGN UP MAIN MENU

Precision Medicine

IBM Watson pinpoints rare form of leukemia after doctors misdiagnosed patient

The supercomputer identified a different type of cancer than the one doctors were currently treating for a patient in Japan.



AHRQ Health IT Funding

- Apply now for **Research Demonstration and Dissemination Projects** in clinical decision support:
 - Scale and spread of existing clinical decision support for patient-centered outcomes research <http://grants.nih.gov/grants/guide/pa-files/PA-16-283.html>
 - Develop new clinical decision support for patient-centered outcomes research <http://grants.nih.gov/grants/guide/pa-files/PA-16-282.html>
- The Division of Health IT is **actively seeking R03, R21, R18, and R01 applications** to study:
 - Design, implementation, usability, and safe use of health IT <http://grants.nih.gov/grants/guide/notice-files/NOT-HS-16-009.html>
 - Use of health IT for patient-reported outcomes to improve quality <http://grants.nih.gov/grants/guide/notice-files/NOT-HS-16-015.html>

Panel Members

Pascale Crayon

- Procter & Gamble Bascom Professor in Total Quality
- Director, Center for Quality and Productivity Improvement
- University of Wisconsin-Madison





Panel Members (cont'd)

Jason Adelman

- Chief Patient Safety Officer
- Associate Chief Quality Officer
- New York-Presbyterian Hospital/ Columbia University Medical Center





Overarching Questions

- 1. The state of the science:
What else are you aware of?**
- 2. What are the important gaps?**
- 3. What are the priorities?**