

# Shared Nationwide Interoperability Roadmap: The Journey to Better Health and Care

The nation relies on Health IT to securely, efficiently and effectively share electronic health information with patient consent to achieve better care, smarter spending and healthier people. Interoperability will transform our health system from a static one to a learning health system that improves individual, community and population health.





Most states have different laws and regulations making it difficult to share health information across state lines.

The typical primary

care physician has to coordinate care with 229 other The number of providers a typical Medicare physicians beneficiary sees annually.<sup>6</sup> working in 117 practices.<sup>7</sup> By the end of 2017

**YEARS** 

The majority of individuals and providers can send, receive, find, and use a common set of clinical information.

Health information Aligning

is not sufficiently standardized

payment incentives

**SPEED BUMPS TO INTEROPERABILITY** 

**Misinterpretation** and differences in existing privacy laws

51%

Only half of hospitals can

critical health information

(such as in an emergency

electronically search for

from outside sources

or office visit).<sup>5</sup>



80%-90% **DETERMINANTS OF HEALTH** 

of health determinants are NOT

Lack

of

trust

exchanged health information with providers outside of their system.<sup>3</sup>

> Taking a leisurely 17 years for evidence to go from research to practice.<sup>4</sup>



# **1 in 8**

**YEARS** 

the number of Americans in 2013 who tracked a health metric like blood pressure or weight using some form of technology.<sup>8</sup>



# By the end of 2020

**Connecting an expanded set of users and data sources through the use** of #mHealth and #wearables. Advances in the sharing and use of patient-generated health data leads to consumer empowerment, person-centered care, active individual health management and greater information sharing with the public health community.

**DRAMATICALLY REDUCE THE** TIME IT TAKES FOR EVIDENCE **FROM RESEARCH TO BECOME COMMON PRACTICE** 



YEARS

SONTINUOUS LEARNING CHER

LEARNING

HEALTH

**SYSTEM** 

## By the end of 2024

**A Learning Health System** reduces the time from evidence to practice. This enables ubiquitous connectivity, improves population health and helps researchers analyze data from a variety of sources.

#### Healthier

Smarter

Spending

**Better** 

Care

People

(thus better evidence-based diagnosis, treatment and personalized medicine)

# **Research Rd**

#### Sources:

- **1.** ONC Report to Congress, October 2014
- http://www.healthit.gov/sites/default/files/rtc\_adoption\_and\_exchange9302014.pdf
- **2.** http://www.healthit.gov/sites/default/files/consumeraccessdatabrief\_9\_10\_14.pdf
- 3. http://healthit.gov/sites/default/files/oncdatabrief17\_hieamonghospitals.pdf
- 4. Balas, E.A., Boren, S.A., Yearbook of Medical Informatics, 2000
- 5. http://dashboard.healthit.gov/quickstats/pages/FIG-Hospital-Electronic-Query-Capability.php
- **6.** Pham HH, Schrag D, O'Malley AS, Wu B, Bach PB. Care patterns in Medicare and their implications for pay for performance. N Engl J Med2007;356:1130-1139. http://www.nejm.org/doi/full/10.1056/NEJMsa063979
- **7.** Pham HH, O'Malley AS, Bach PB, Saiontz-Martinez C, Schrag D. Primary care physicians' links to other physicians through Medicare patients: the scope of care coordination. Ann Intern Med. 2009; 150:236-42
- **8.** Pew Research Center. Tracking for Health. January 2013. Accessed from: http://www.pewinternet.org/files/old-media//Files/Reports/2013/PIP\_TrackingforHealth%20with%20appendix.pdf
- **9.** Health affairs, August Issue; first author: Furukawa M

# **Public Health Pl**

**Connecting an expanded set of data sources** and care settings, over time, such as:

• Nursing homes

• Laboratory and

ancillary

• Specialists

- Emergency responders
- Home and Community
- To learn more about interoperability, visit www.healthit.gov/interoperability.

### • Human Services

- Schools
- Prisons
- **Privacy Blvd**