AGENCY FOR HEALTHCARE RESEARCH AND QUALITY

June 2022 CDS Connect Work Group Call

Agenda

Schedule	Topic
3:00 – 3:02	Roll Call, Michelle Lenox (MITRE)
3:02 – 3:05	Review of the Agenda, Maria Michaels (CDC)
3:05 – 3:25	CDS Connect Past, Present and Future (MITRE and AHRQ)
3:25 – 3:55	Celebrating CDS Connect and CDS (CDC, Health Hats, AHRQ)
3:55 – 4:00	Open Discussion and Close Out, Maria Michaels (CDC) • Open discussion and announcements • Concluding comments, review next steps and adjourn

Objectives

- Recap CDS Connect's past, present and future

- Share experiences of how CDS Connect and CDS has evolved since 2016

- Close out the CDS Connect work group

CDS Connect as a Proof-of-Concept

- Generate a systematic and replicable process for transforming patient-centered outcomes research findings into shareable, health IT standards-based and publicly available CDS

- Develop prototype tools to facilitate this transformation process.

- Promote the transformation of research findings into actionable, relevant, and interoperable clinical capabilities

CDS Connect 2016 – 2019 (Past)

- Developed the CDS Repository and website

- Developed prototype Authoring Tool

- Two advisory groups –
  Cholesterol Management and CDS Repository

- Developed and published six CDS artifacts around cholesterol management

- Piloted USPSTF CDS statin for ASCVD risk

Enhanced the Repository and website

- Updated artifact data elements to align with CPG-on-FHIR specification

- Improved artifact search to add faceted search and simplify UI

- Added eight CDS artifacts to the Repository (totals 65)

- Implemented review and update process to apply to prior and new artifact contributions

- Updated site content and graphics to include patients, promote WG participation, and further describe artifact update process

- Streamlined CDS Connect account sign up for all stakeholders

Enhanced Authoring tool

- Supported FHIR R4 based CQL exports, upgraded front-end to React 16, added support for CQL 1.4, added support for additional FHIR resource types

- Enhanced usability, applicability, and expressiveness for authors

- Improved maintainability and re-usability of source code for developers

- Implemented code to continuously track GitHub views and downloads of CDS Connect tools

Continued engagement of the CDS community and stakeholders

- 130+ member Work Group

- Added and maintained Repository and Authoring Tool accounts

- Email list of approximately 600 community stakeholders

- Update Emails regularly sent to CDS Community

- Convened the Patient Partnering Panel and encouraged "One More Step"

- Promoted CDS Connect and capabilities at conferences and through publications

CDS Connect 2022 & Beyond (Future)

- The Future of CDS Connect – **Evolution and Sustainment**
  - ► What will the next iteration of CDS Connect will look like?
  - ► How do we keep it going?

- Exploring **Public-Private Partnership (PPP)** as possible option
  - ► Access to Industry resources
  - ► Greater potential for growth and scaling
  - ► Recommended exploration by AHRQ NAC

- CDS Connect **will remain operational** during PPP exploratory efforts

- Stakeholder input will be *Sought and Critical* throughout this process

- Stay tuned much more to come

ACHIEVED! CDS Connect as a Proof-of-Concept

- ACHIEVED! Generate a systematic and replicable process for transforming patient-centered outcomes research findings into shareable, health IT standards-based and publicly available CDS

- ACHIEVED! Develop prototype tools to facilitate this transformation process.

- ACHIEVED! Promote the transformation of research findings into actionable, relevant, and interoperable clinical capabilities

Ongoing focus for the CDS Connect platform is on innovation and scalability

CELEBRATING CDS CONNECT AND CHANGES IN CLINICAL DECISION SUPPORT SINCE 2016

Invited Speakers

- Maria Michaels, CDC—CDS Connect Work Group Moderator

- Danny van Leeuwen, HealthHats—Patient/Caregiver Activist

- Ed Lomotan, AHRQ—CDS Connect Champion within AHRQ

- Welcome input from Work Group members

Work Group
Input

What started as an idea is now a reality, providing two ways to support interoperable, shareable CDS:

- Repository

- Authoring Tool

Even before the regulatory requirement to support FHIR APIs, CDS Connect "baked in" the FHIR standard (e.g., CPG-on-FHIR)
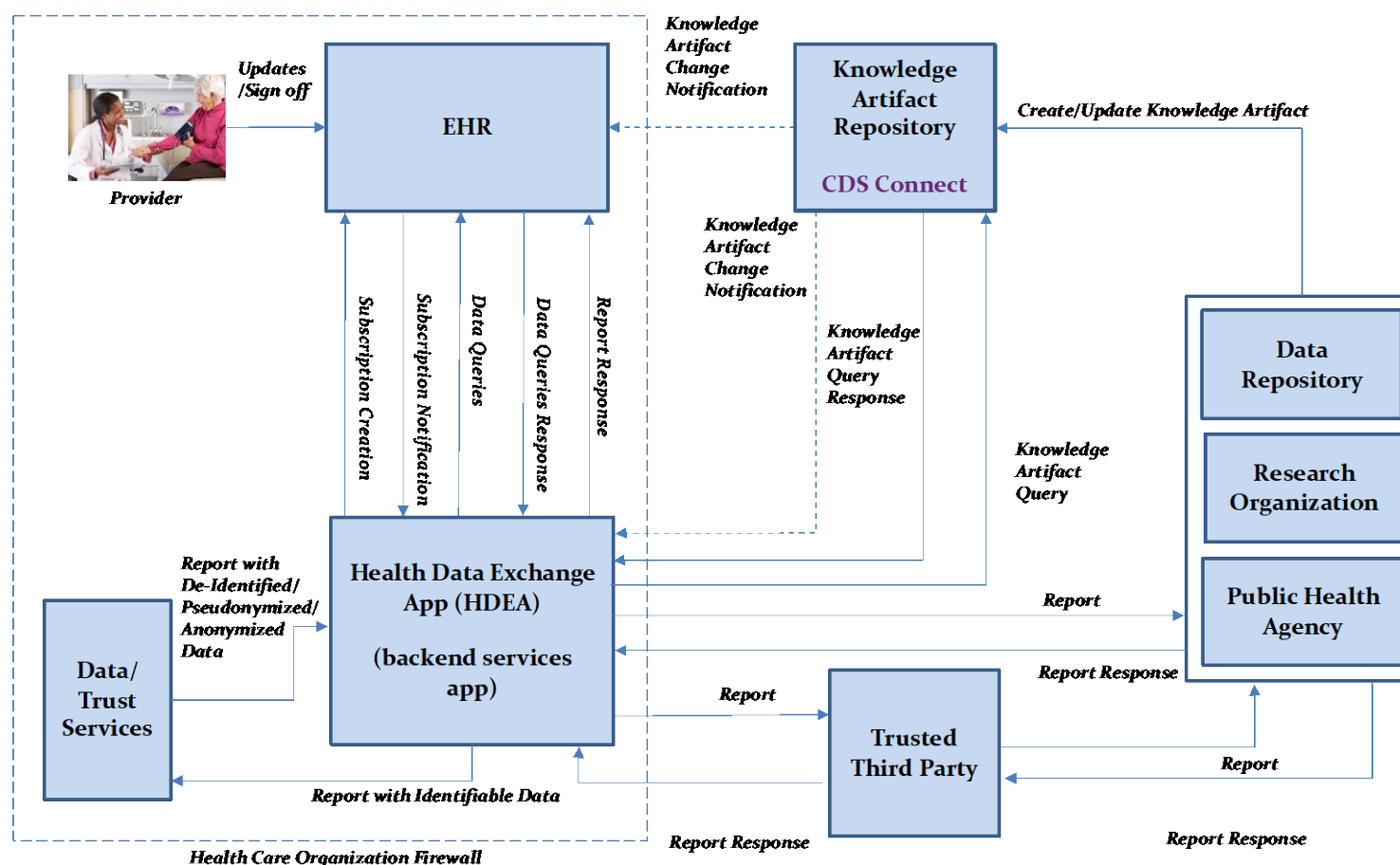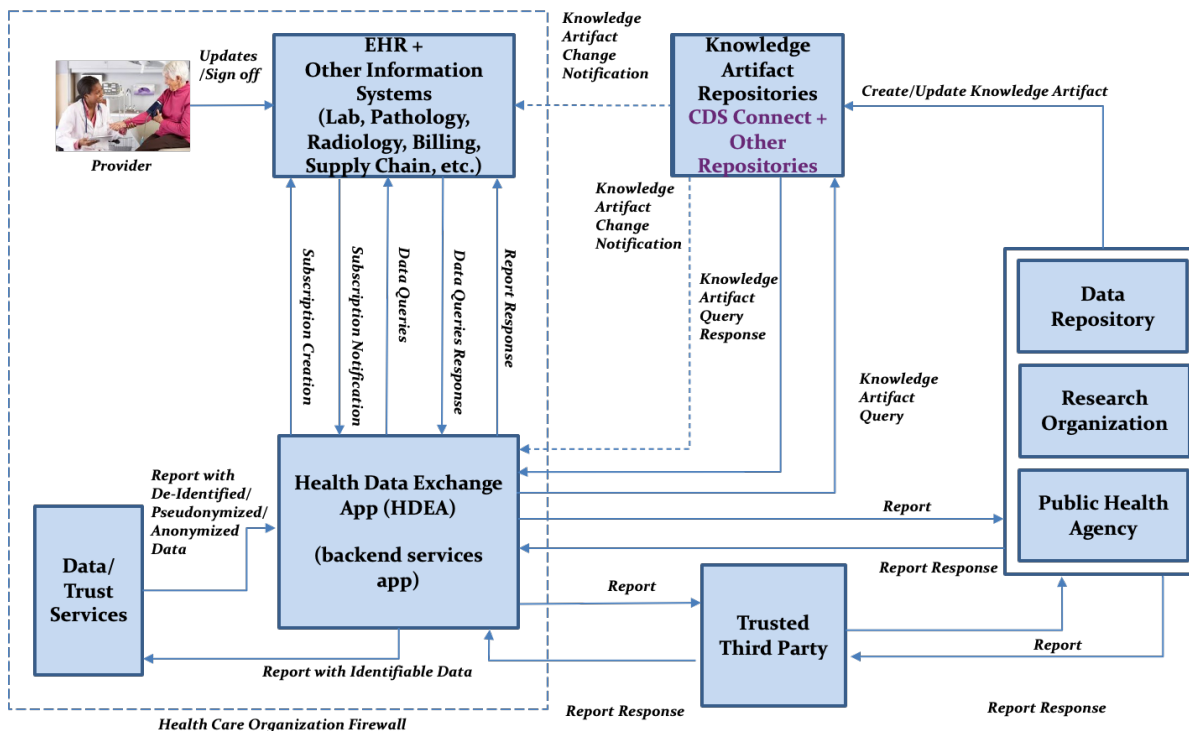
Thoughts about the future…

- How can CDS Connect better support living and computable guidelines?

- How can CDS Connect better connect with other guideline derivatives (e.g., eCQMs/dQMs, case reports, eCare Plans)?

- What is the "ideal state" we should strive for?

CDS Connect as Knowledge Artifact Repository

CDS Connect currently fits well as a "Knowledge Artifact Repository" in the MedMorph Reference Architecture.

Strive for Everything Connected Through Standards

Besides EHR, include other systems used by providers

- Lab, Pathology, Radiology, Billing, Supply Chain

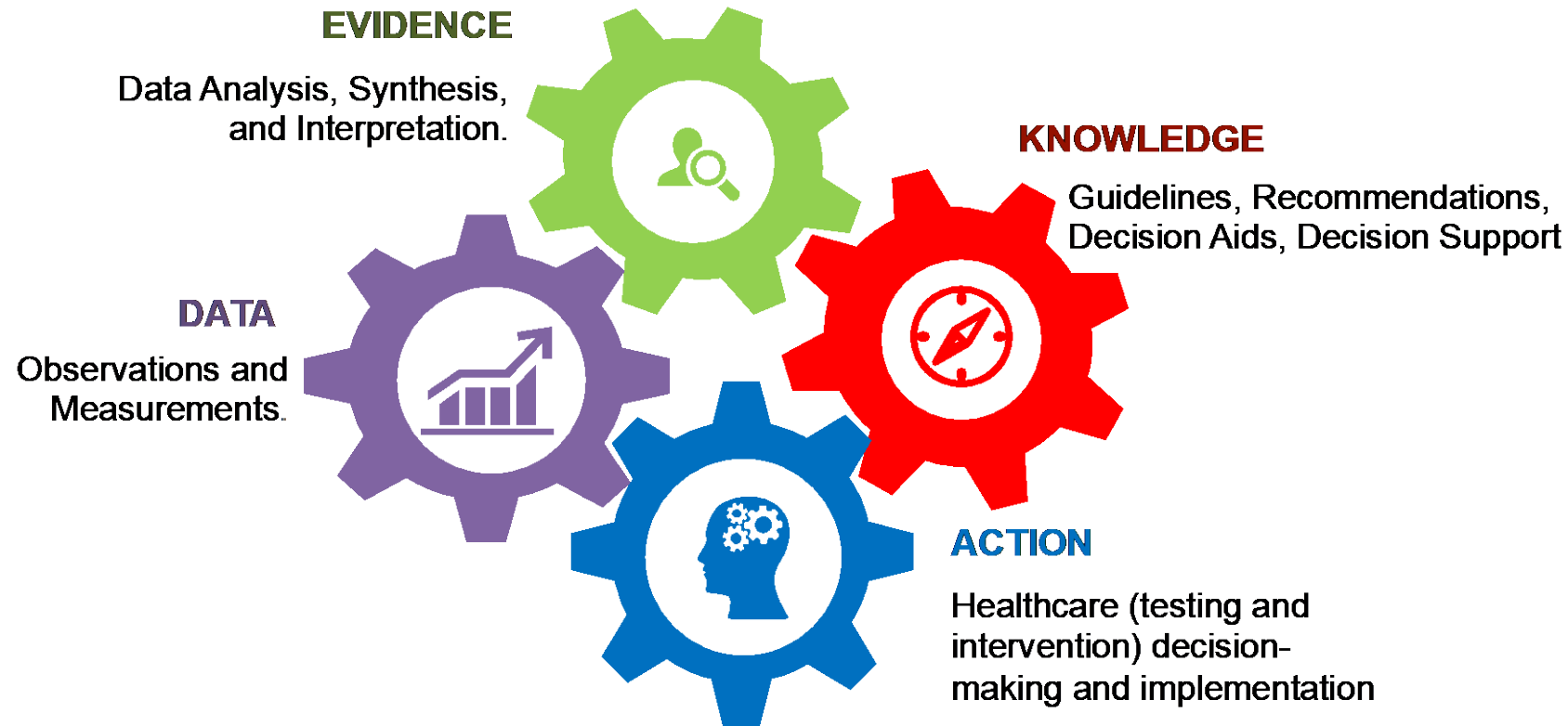CDS Connect currently houses "computable guidelines" and CDS

Other repositories would include…

- Quality Measures
- Case Reports
- eCare Plans

Repositories should also link to…

- Written Guidelines
  (future of National Guideline Clearinghouse?)
- Systematic Reviews
  (like Systematic Review Data Repository Plus (SRDR+)

The Holy Grail:
A Virtuous Learning Health System (LHS)

EVIDENCE

Data Analysis, Synthesis, and Interpretation.

KNOWLEDGE

Guidelines, Recommendations, Decision Aids, Decision Support

DATA

Observations and Measurements.

ACTION

Healthcare (testing and intervention) decision-making and implementation

Courtesy of Brian Alper, Computable Publishing, LLC (Adapted by Maria Michaels, CDC)

Close Out

- Thank you!

- Stay in touch!

clinicaldecisionsupport@ahrq.hhs.gov