A Tale of Two Standards: iCoDE and the Diabetes Research Hub

Tuesday, June 3, 2025

Session 1: Success Stories of Data Collection, Integration, and Interoperability, Including Data from Wearables Devices

Addressing Gaps, Challenges, and Opportunities Related to Data and Metadata Standards for NIDDK Research Priorities

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Disclosures

- I have received research funding from FDA, The Helmsley Charitable Trust, NIDDK, NIMHD, NICHD, and NCATS.
- I have received consulting and/or speaker fees from Sanofi, Glooko, and Dexcom.
- These entities played no role in the design, execution, analysis, or development of this work. They did not play a role in the decision to prepare this presentation and had no editorial input.
- I am <u>not</u> an endocrinologist (apologies if I say anything wrong) I am a pediatrician and informaticist, but I love working in the field of diabetes.



Overview

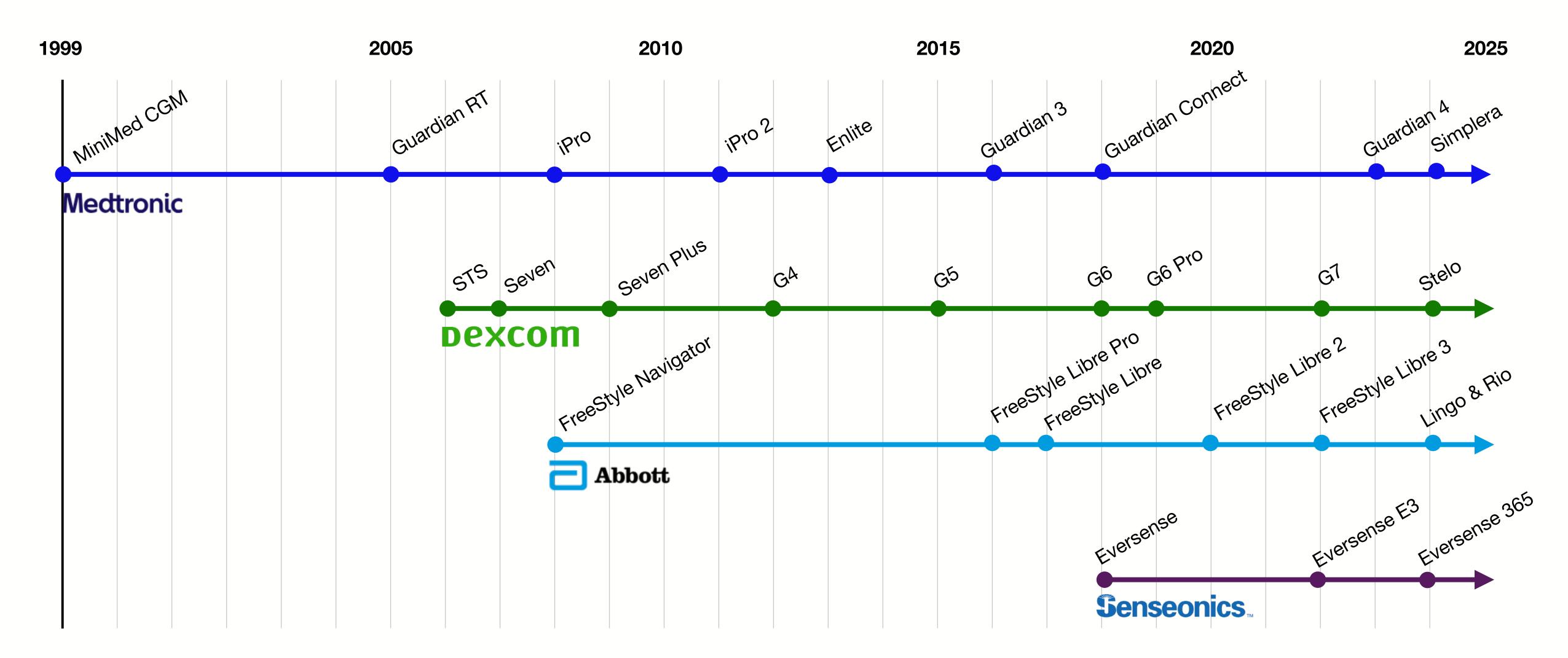
- Brief overview of CGM data ecosystem
- iCoDE: Integration of Continuous Glucose Monitoring Data into the EHR
- DRH: Diabetes Research Hub
- What's Next



Brief Overview of CGMs



CGMs Over Time (US only)





Benefits of CGMs

- Improved glycemic control
- Reduced risk of hypo- and hyperglycemia
- Improved time in range
- Cost savings
- Increased self-efficacy
- Reduced diabetes-specific emotional distress
- Reductions in fear of hypoglycemia
- Improvements in sleep quality
- Improvement in quality of life
- Increased treatment satisfaction

"... the success of these technologies is predicated upon whether the user finds more benefits than burdens and is therefore willing to not only try the device, but also continue using it."

HOWEVER, we know that:

- these benefits are not experienced equally by all
- for some, can increase learned helplessness
- dependent on support from clinicians

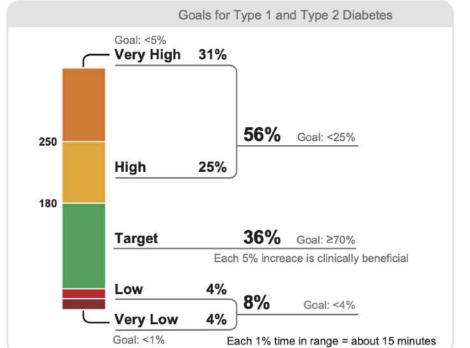
[•] Barnard-Kelly K, Gonder-Frederick L, Weissberg-Benchell J, Wisk LE. Psychosocial Aspects of Diabetes Technologies: Commentary on the Current Status of the Evidence and Suggestions for Future Directions. J Diabetes Sci Technol. 2025;19(1):27-33. doi:10.1177/19322968241276550

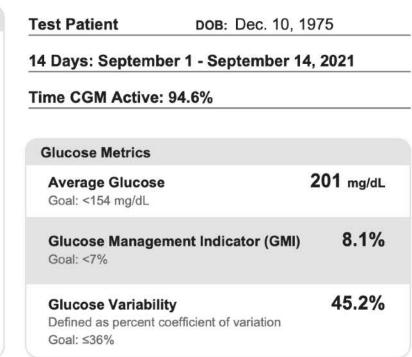


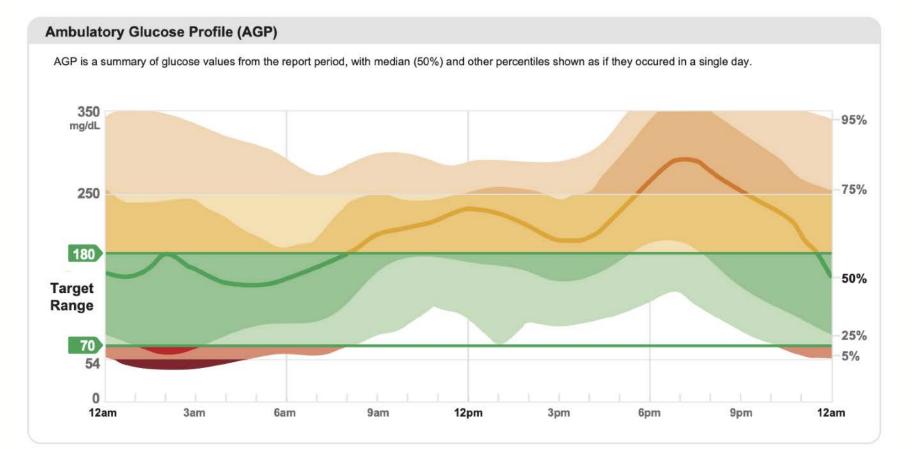
... But it Took Years to Get There

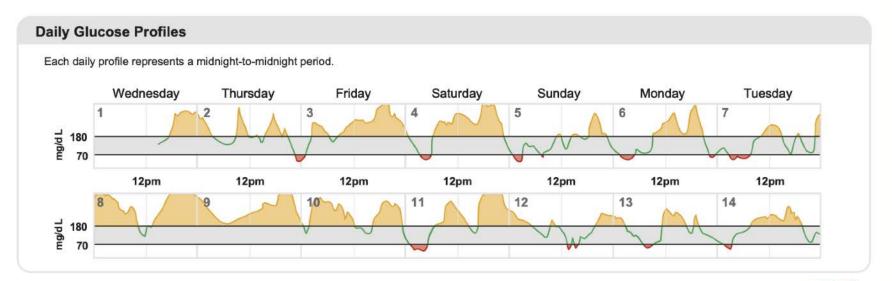
- Data workflows were burdensome
 - Data portals came much later
- Interpretation guidance evolved slowly:
 - 2006: IDC first applies the AGP to CGM data
 - 2012: AGP Consensus meeting (IDC + Helmsley)
 - 2017: ATTD consensus on CGM Metrics
 - 2021: ADA first includes CGM in practice guidelines
- CMS did not cover CGMs until 2017











Patent Pending - HealthPartners Institute dba International Diabetes Center - All Rights Reserved. ©2022



CGM Ecosystem Today

Manufacturers

Medtronic

Dexcom



Senseonics...

Aggregators & Integrators



Professional Societies



Funding, Support, & Advocacy



Digital Health and Health Management Platforms



Major Research Centers



Not an exhaustive list!



CGM Data Integration: iCoDE

The EHR

Where We Work

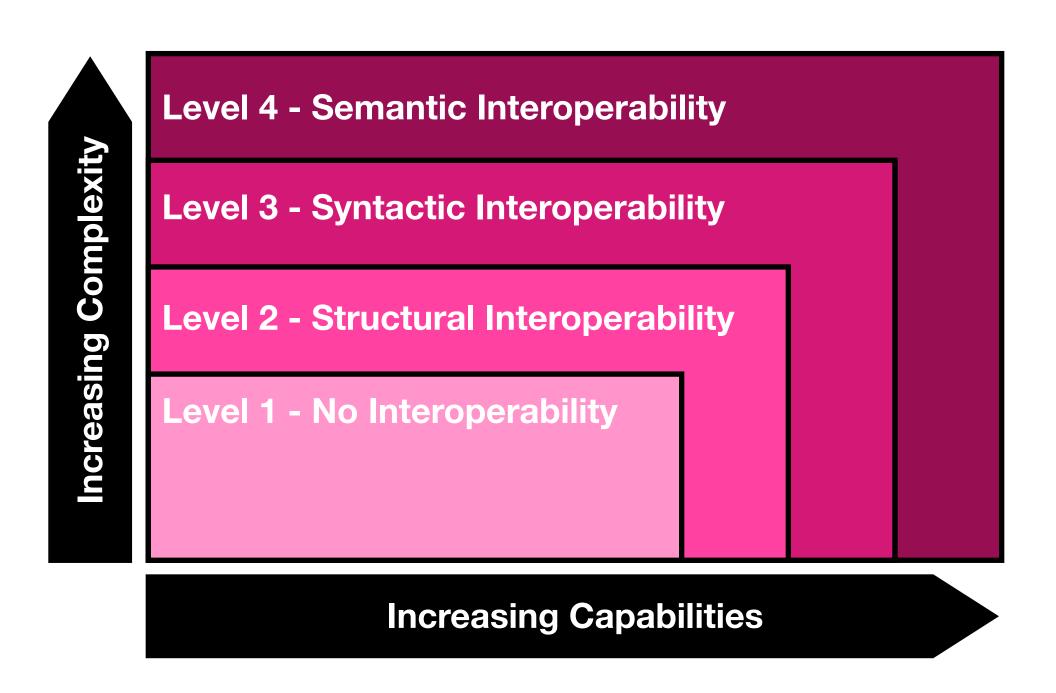
- Documentation
- Billing
- Chart Review
- Order Entry



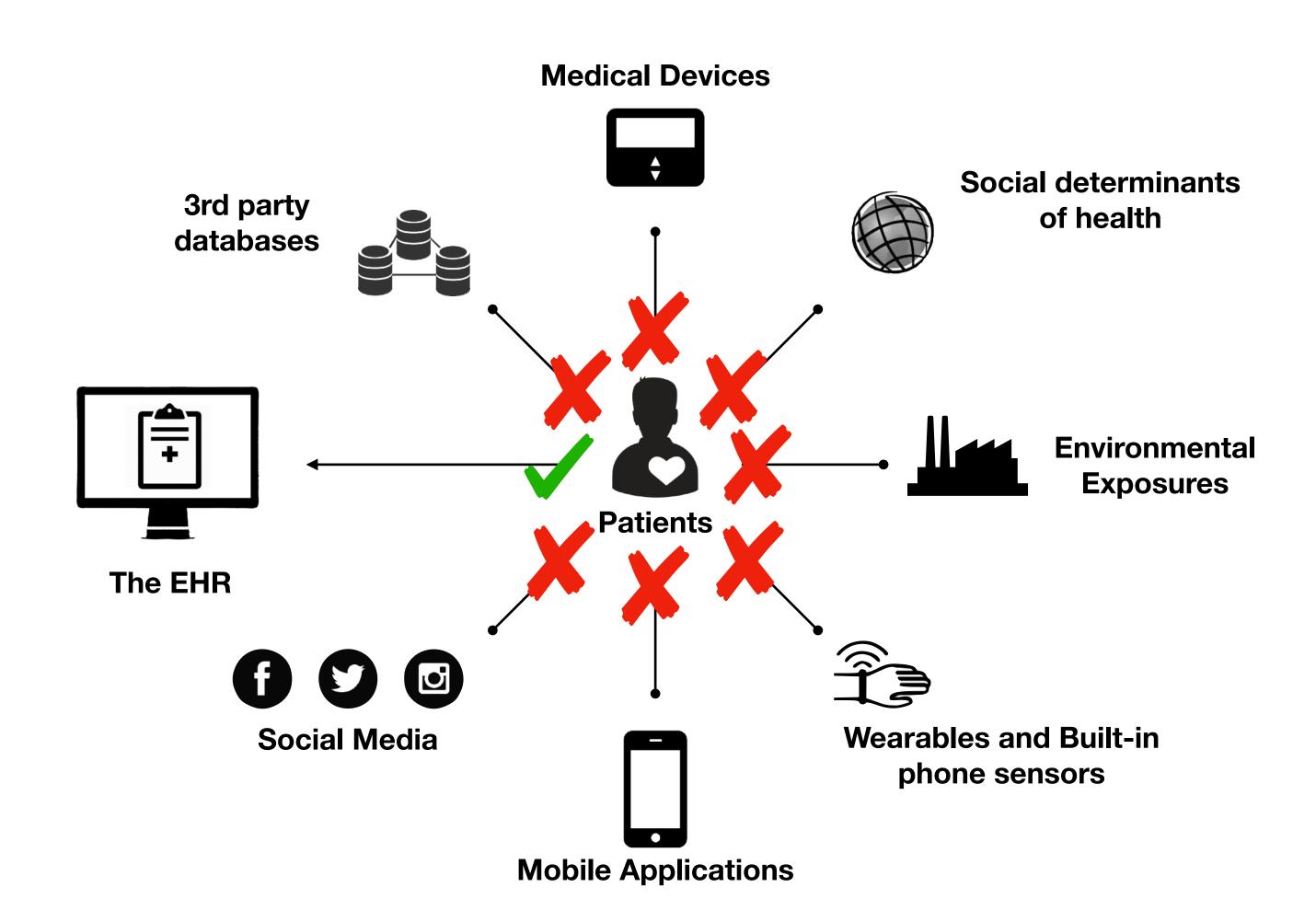


Current State

An Interoperability Problem

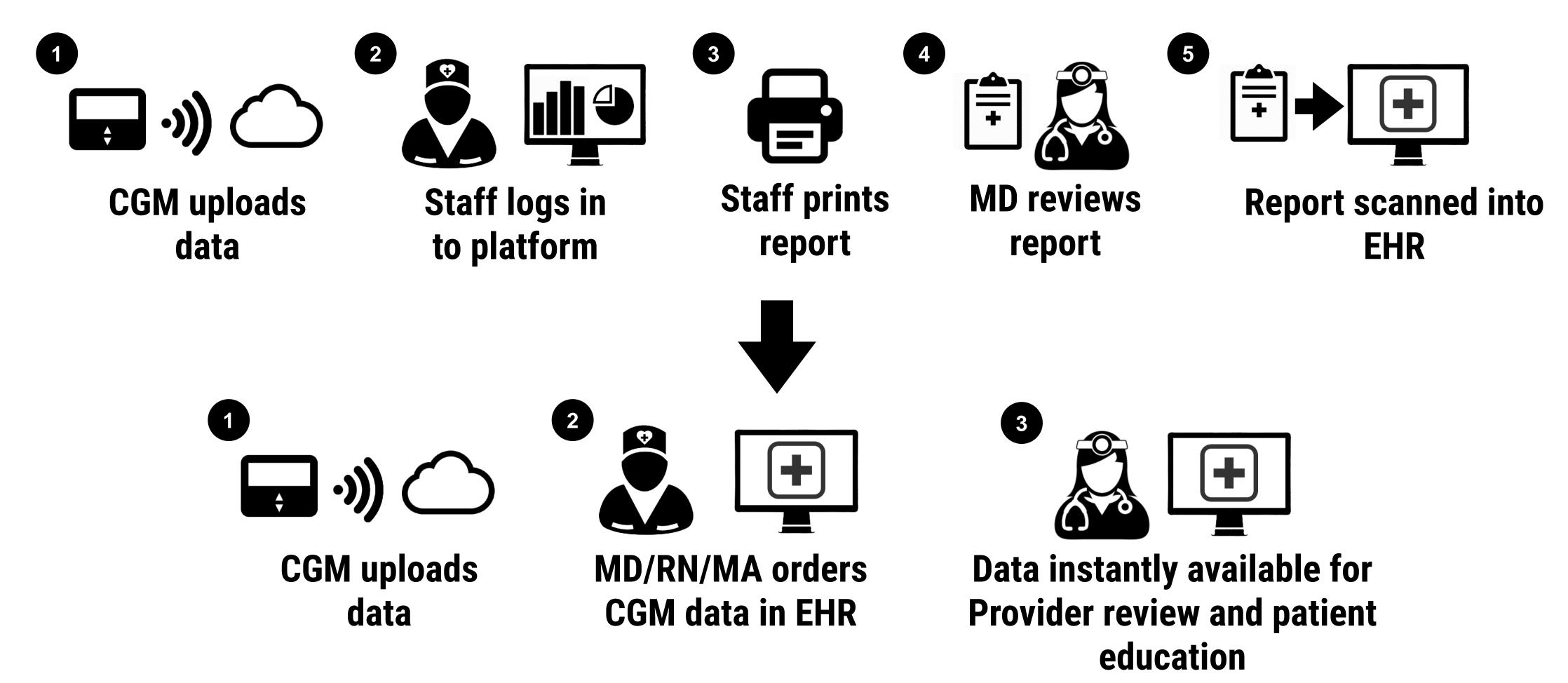


Adapted from: Walker J, Pan E, Johnston D, Adler-Milstein J, Bates DW, Middleton B. The value of health care information exchange and interoperability. Health Aff (Millwood). 2005 Jan-Jun; Suppl Web Exclusives: W5-10-W5-18. doi: 10.1377/hlthaff.w5.10. PMID: 15659453.



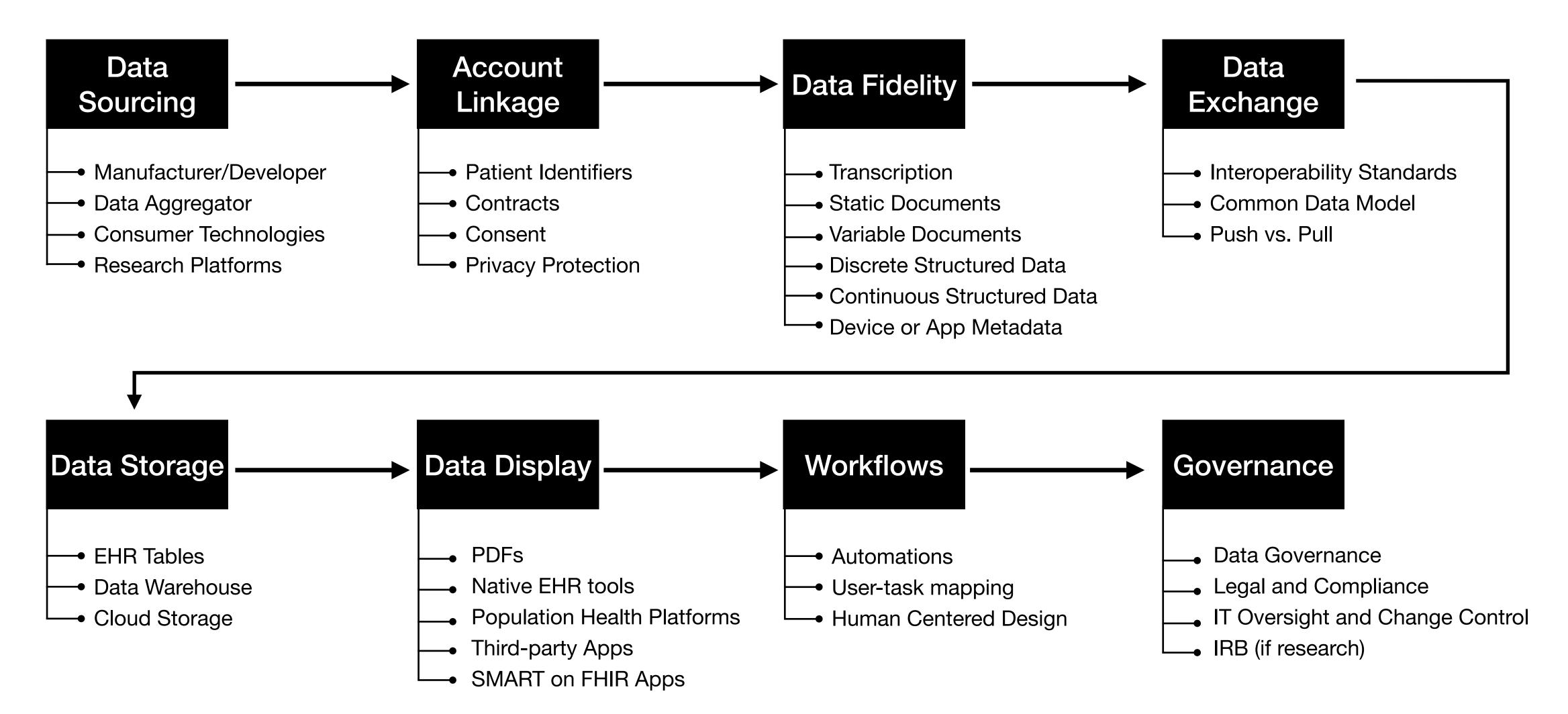


Workflows



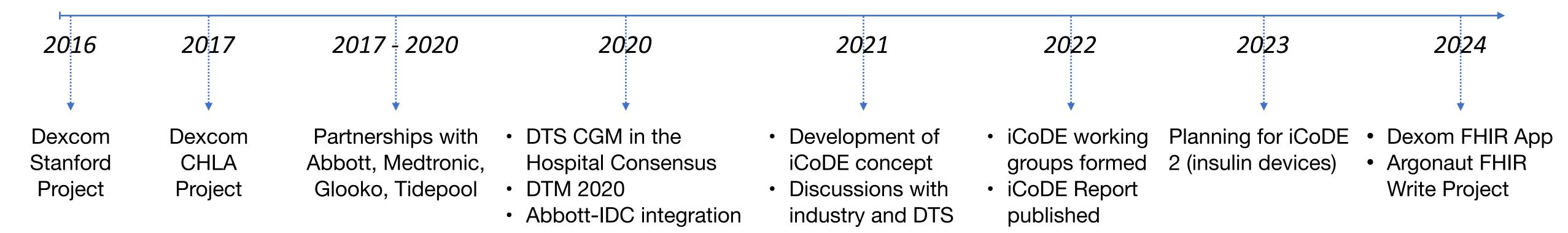


Technology Integration Barriers





Timeline of CGM-EHR Integration



Automated integration of continuous glucose monitor data in the electronic health record using consumer technology Get access >

Rajiv B Kumar X, Nira D Goren, David E Stark, Dennis P Wall, Christopher A Longhurst

Journal of the American Medical Informatics Association, Volume 23, Issue 3, May 2016, Pages 532–537, https://doi.org/10.1093/jamia/ocv206

Practice Guideline > J Diabetes Sci Technol. 2020 Nov;14(6):1035-1064. doi: 10.1177/1932296820954163. Epub 2020 Sep 28.

Continuous Glucose Monitors and Automated Insulin Dosing Systems in the Hospital Consensus Guideline

Rodolfo J Galindo 1, Guillermo E Umpierrez 1, Robert J Rushakoff 2, Ananda Basu 3, Suzanne Lohnes 4, James H Nichols 5, Elias K Spanakis 6, Juan Espinoza 8, Nadine E Palermo 9, Dessa Garnett Awadjie 10, Leigh Bak 11, Bruce Buckingham 12, Curtiss B Cook 13, Guido Freckmann 14, Lutz Heinemann 15, Roman Hovorka 16, Nestoras Mathioudakis 17, Tonya Newman 18, David N O'Neal 19, Michaela Rickert 20, David B Sacks ²¹, Jane Jeffrie Seley ²², Amisha Wallia ²³, Trisha Shang ²⁴, Jennifer Y Zhang ²⁴, Julia Han 24, David C Klonoff 25

The Need for Data Standards and Implementation Policies to Integrate CGM Data into the Electronic Health Record

Juan Espinoza, MD, FAAP , Nicole Y. Xu, BA , Kevin T. Nguyen, BA , more... First Published November 20, 2021 Article Commentary Check for updates https://doi.org/10.1177/19322968211058148

> Diabetes Technol Ther. 2020 Aug;22(8):570-576. doi: 10.1089/dia.2019.0377. Epub 2020 Jul 10.

Integrating Continuous Glucose Monitor Data Directly into the Electronic Health Record: Proof of Concept

Juan Espinoza 1 2, Payal Shah 1, Jennifer Raymond 2 3

Diabetes Technology Meeting 2020

Trisha Shang 1, Jennifer Y Zhang 1, B Wayne Bequette 2, Jennifer K Rayn Jennifer L Sherr ⁵, Jessica Castle ⁶, John Pickup ⁷, Yarmela Pavlovic ⁸ Laurel H Messer 9, Tim Heise 10, Carlos E Mendez 11, Sarah Kim 12, Barr Umesh Masharani 12, Rodolfo J Galindo 14, David C Klonoff 15

> J Diabetes Sci Technol. 2021 Jul;15(4):916-960. doi: 10.1177/19322968

> J Diabetes Sci Technol. 2022 May 9;19322968221093662. doi: 10.1177/19322968221093662. Online ahead of print.

The Launch of the iCoDE Standard Project

Nicole Y Xu 1, Kevin T Nguyen 1, Ashley Y DuBord 2, David C Klonoff 2 3, Julian M Goldman 4, Shahid N Shah 5, Elias K Spanakis 6 7, Charisse Madlock-Brown 8, Siavash Sarlati 2 9, Azhar Rafiq 10, Axel Wirth 11, David Kerr, Raman Khanna 2, Scott Weinstein 12, Juan Espinoza 13

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M Northwestern Medicine Feinberg School of Medicine

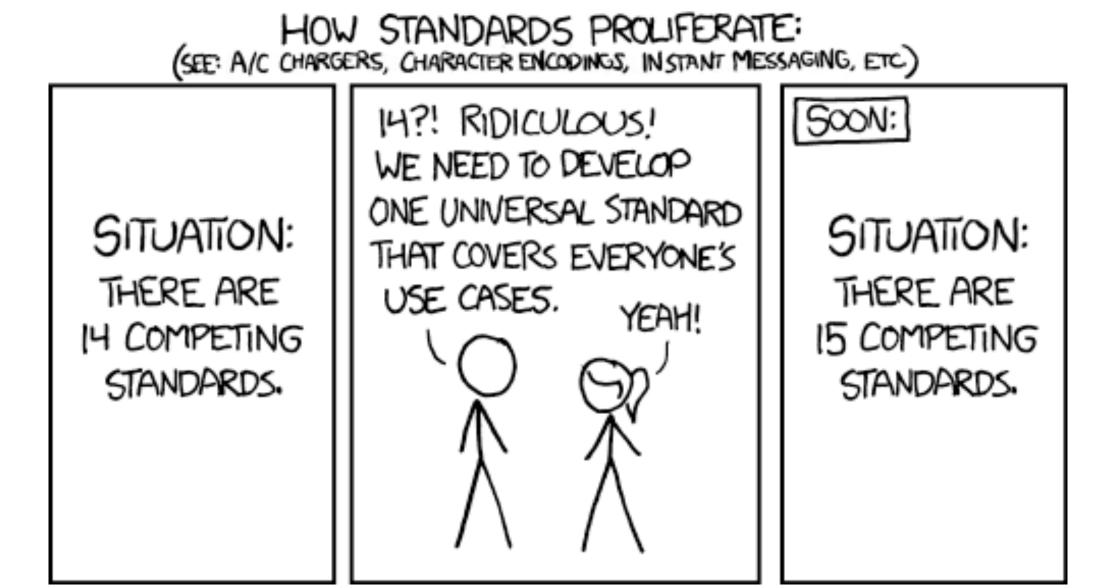
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The Goal of iCoDE

- Develop technical specifications to integrate CGM data into the EHR
- Develop workflows and guidelines to facilitate data integration efforts



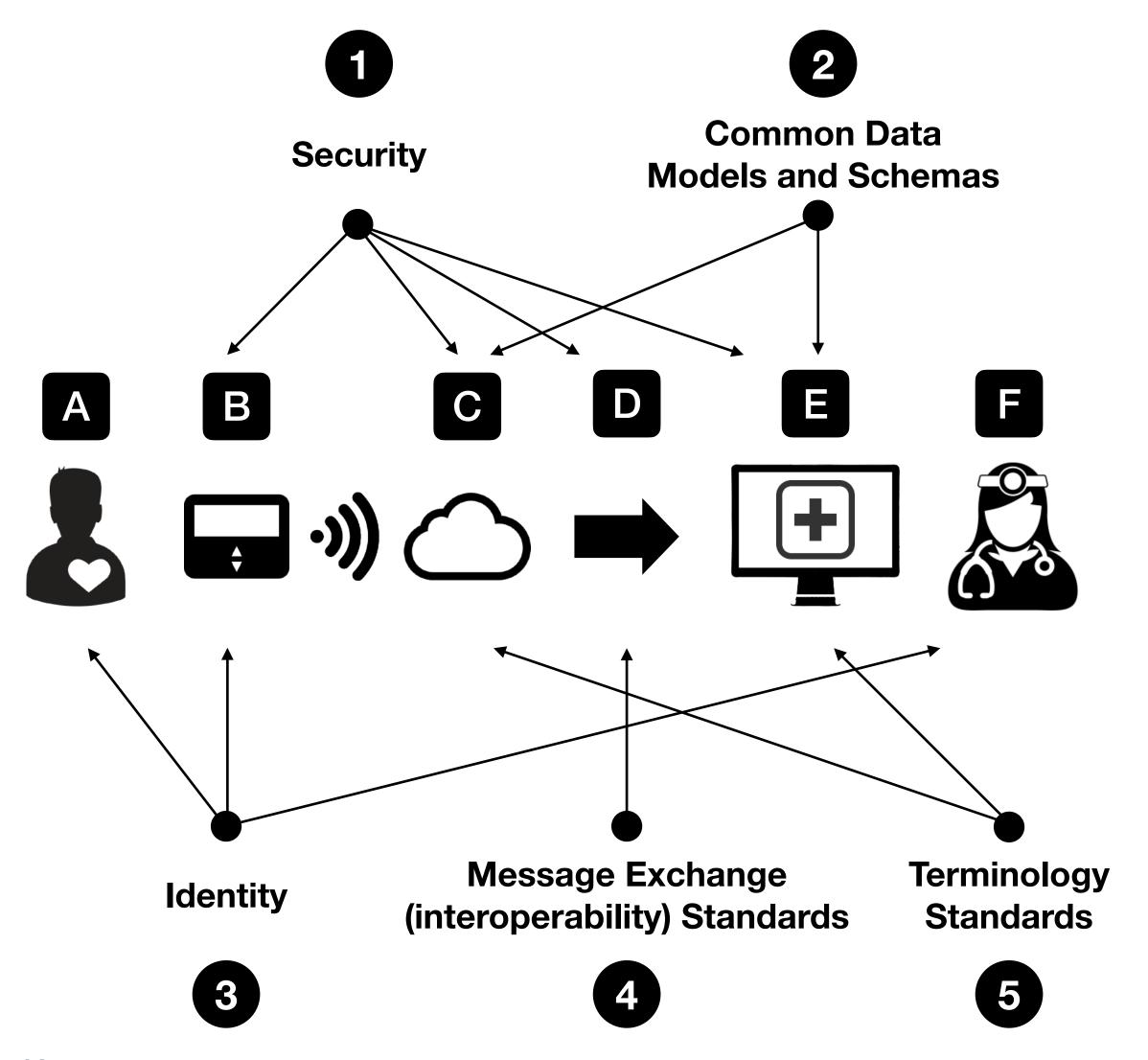
... And not do this!

comic from:





Standards & Best Practices

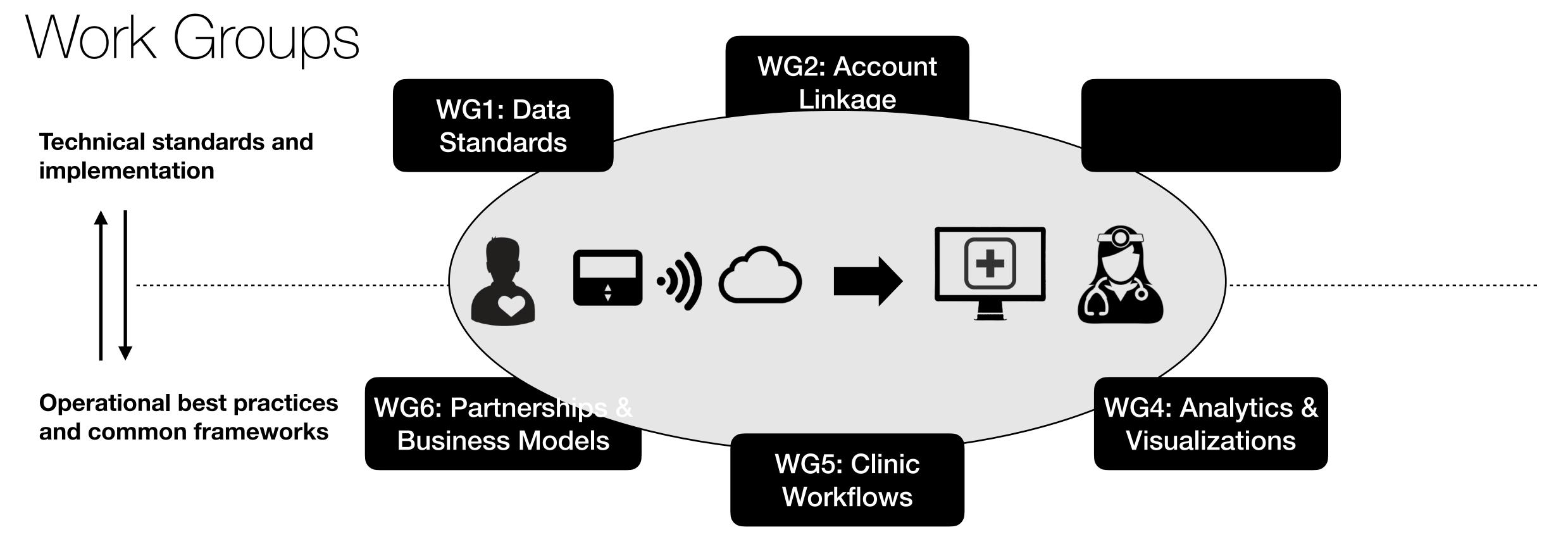


Col	Components of the CGM data pipeline:					
A	Patient					
В	CGM Device					
C	Cloud Infrastructure					
D	CGM-EHR Interface					
E	EHR					
F	Clinician					

Example relevant standards & frameworks:

- 1 HIPAA, HITRUST, SOC2, NIST CSF
- 2 Open mHealth, IEEE, OMOP
- 3 OAuth 2.0, NPI, EMPI, UDI
- 4 CCD, CDA, HL7, FHIR, SMART on FHIR
- 5 LOINC, RXNORM, SNOMED, CPT, ICD-10





+130 participants from more than 60 organizations

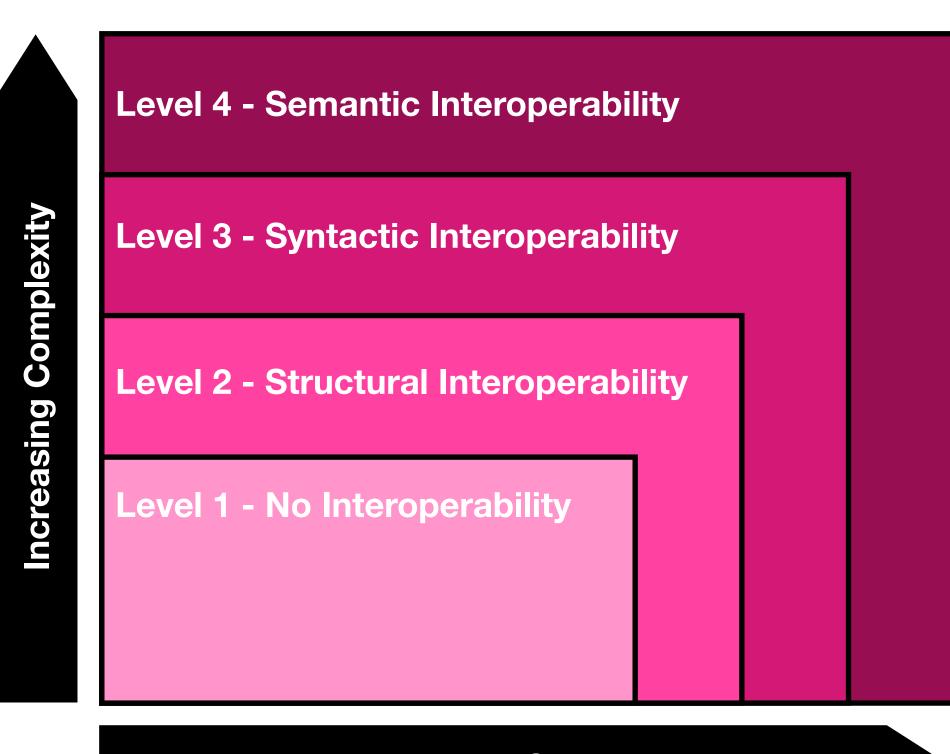
representatives from:

industry, academia, government, healthcare organizations, health IT, providers, and patients



Interoperability

Adapted Interoperability Framework for CGM Data (v2.0)



Increasing Capabilities

Adapted from: Walker J, Pan E, Johnston D, Adler-Milstein J, Bates DW, Middleton B. The value of health care information exchange and interoperability. Health Aff (Millwood). 2005 Jan-Jun; Suppl Web Exclusives: W5-10-W5-18. doi: 10.1377/hlthaff.w5.10. PMID: 15659453.

Levels of data integration ranging from low fidelity to high fidelity

Level 7	Advanced Analytics	Use of machine learning and statistical models to develop risk stratification and predictive models, support population management
Level 6	Device or App Metadata	In addition to clinical data, diabetes technologies generate metadata about the device, software, and its utilization by the patient. These type of data could be helpful in tracking device serial numbers, understanding patient engagement, and even potentially creating behavioral interventions.
Level 5	Continuous Structured Data	Integrations at this level are accessing the dozens or hundreds of data points that diabetes technologies are generating each day. This type of integration creates new questions about data storage, but has the potential to provide more granular insights, as well as generating novel analytics and visualizations
Level 4	Discrete Structured Data	Discrete, structured data: at this stage, discrete numerical data can be brought into the EHR and added to existing data tables, where it can be charted, trended, and pulled automatically into notes. Typically these data are summary statistics over time, such as percent time in range for CGMs.
Level 3	Variable Documents	At this stage, the systems are still exchanging static documents, but the user has the ability to select the contents of those documents. This may include custom date ranges, data elements, or visualizations.
Level 2	Static Documents	Static documents like PDFs containing predetermined data, such as the Ambulatory Glucose Profile (AGP), are relatively simple for two systems to exchange. At this level, there is no customization, but the EHR can retrieve, store, and display the report natively, making them part of the medical record.
Level 1	Transcription	There is no data exchange between the data portal and the EHR. Clinicians include data in the patient record by transcribing it in notes, copy and pasting screenshots of the data portal into their notes, or scanning reports into the EHR. This is the current state for many providers.



- Definition of device data classes
- Creation of iCoDE Core Dataset
- iCoDE Expanded Dataset

Data Class	Data Elements	2019 Consensus	iCoDE Core Dataset	iCoDE Expanded Dataset
	Calculated metrics			
	Mean glucose	V	Z	
	Glucose management indicator (GMI)	V	Z	\square
	Glycemic variability (%CV)	Ø	Z	 ✓
Class 1	Time above range (TAR): % of readings and time >250 mg/dL (>13.9 mmol/L)	Ø	Z	\square
Clinical data that is	Time above range (TAR): % of readings and time 181–250 mg/dL (10.1–13.9 mmol/L)		\square	V
sensed or sensor-derived	Time in range (TIR): % of readings and time 70–180 mg/dL (3.9–10.0 mmol/L)	\square	\square	\square
	Time below range (TBR): % of readings and time 54–69 mg/dL (3.0–3.8 mmol/L)	Ø		Ø
	Time below range (TBR): % of readings and time <54 mg/dL (<3.0 mmol/L)	\square		\square
	Ambulatory Glucose Profile Report	Ø	V	\square
	Individual glucose values		 ✓	
	CGM Utilization			
	Number of days CGM worn	V	Z	✓
	Percentage of time CGM is active	Ø	Z	Ø
	CGM reporting period start date		V	V
	CGM reporting period end data		\square	\square
	Device identification, settings			
	CGM manufacturer and model		Z	☑
Class 2	Device identifiers (serial numbers, lot numbers, UDI number)			\square
Control Company	CGM settings (sensing mode, configuration)			\square
Device- and system-generated data	Software/firmware version			abla
and metadata	Sensor/Transmitter status (total use days, time to replacement)			\square
	Calibrations			\square
	Events, human annotations			\square
	Reference ranges			
	Alarms			\square
	Performance data (errors, failures, gaps in data)			\square
	"Insights" - recommendations for care			 ✓
	User identification			



- Data schema recommendations
- Common data models
- Terminologies
- Data quality
- Interoperability

Table 2.5. Recommended CDM location for storing CGM data.

CDM	Table or Domain	Notes
Sentinel	Clinical Data - Lab Result	Can also use Patient Reported Measures Data
PCORnet	OBS_CLIN	
i2b2	OBSERVATION_FACT	_
ОМОР	OBSERVATION	can include "interstitial Fluid" as the specimen type in the SPECIMEN Table for additional specificity

Table 2.2. Useful data schema references and links.

Name	Details	Link
IEEE Standards Association (IEEE SA)	n/a	https://standards.ieee.org/about/
ISO 8601	Data and time formats	https://www.iso.org/iso-8601-date-and- time-format.html
IEEE 11073	Health informatics - Medical / health device communication standards	https://standards.ieee.org/ieee/ 11073-10207/6032/
P11073-10425	Standard for Health Informatics — Personal Health Device Communication — Part 10425: Device Specialization — Continuous Glucose Monitor (CGM)	https://standards.ieee.org/ieee/ 11073-10425/7248/
IEEE P1752	Open Mobile Health Data Working Group	https://sagroups.ieee.org/1752/
1752.1-2021	IEEE Standard for Open Mobile Health Data — Representation of Metadata, Sleep, and Physical Activity Measures	https://ieeexplore.ieee.org/document/ 9540821
IEEE P1752.2 Metabolic subgroup	Standard for Open Mobile Health Data: Representation of Cardiovascular, Respiratory, and Metabolic Measures	https://sagroups.ieee.org/1752/metabolic-subgroup/
IEEE 1752 Repository	n/a	https://opensource.ieee.org/omh/1752
Open mHealth	Precursor to P1752	https://www.openmhealth.org/
Open mHealth Repository of schemas	n/a	https://github.com/openmhealth/schemas

Table 3.1. Roles and responsibilities related to clinical implementation of CGM-EHR integrations.

Domain	Details
Team Composition	MD/DO/NP, RN, CDCES, Medical Assistant, Medical Technician, Front Desk, Pharmacist, Technical Support
	Outpatient champion identified for: 1) patient education, 2) staff education, 3) technical support (in-person), 4) virtual support, 5) triaging urgent request for data review
Administrative and Programmatic Tasks	Inpatient champion identified for: 1) patient education, 2) staff education, 3) technical support, 4) data management and monitoring, 5) treatment action, 6) changing sensors
	Staff On-boarding and Training
	Equipment identified: Hardware (multiple devices for use, private room), Software (CGM Manufacturers, Aggregators, Integrators), Wi-Fi
	 New User: Authorization New device training Account setup and linkage Education for uploading data prior to clinic
Patient Experience	Pre-Clinic: - Log of patients on CGM - Contact patient to upload data
Components	Clinic: - Real-time download of devices - Request data to EHR (data pull) - Add data sharing instructions to after-visit summary
	Post-Clinic: - Monitoring data in the interim between visits - Notify clinician that new data is available to review

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		Task by Role				
Events and Time Time Points Estimate		Patient	Clinical Staff	Clinician		
Pre-Clinic	-Reviews checklist -Uploads data -Arrives 30 minutes before scheduled visit -Access support staff assists with uploads -Reminder is sent to patient to upload data up to 48 hours prior to visit -A number is provided to call tech-support for questions or barriers to uploading data					
Check-In	Check-In 5 min -Arrives for appointment -Checks in at front desk -Checks in patient -Registers in EHR -Verifies if data has been uploaded -Directs to tech support staff or personal device kiosk if data isn't uploaded					
Data Upload	Liata Linioad 6 min Li inioade data diffind check in		-Patient devices synced -Assigned to the patient's account.			
Data Request	10 min	-Patient is processed for visit	-Place data pull request in EHR			
Clinical Encounter	1.45 min 1Visit with clinician			-Access summary report from EHR and review		
Check Out			-Review upload instruction -Print after-visit summary			
Equipment and Space		-Clinic room -Kiosk -Mobile van -Personal device -Clinic device	-Two devices to access web-based upload site and EHR -Private clinic space for data/device support to not delay check in for other individuals -Need two people assigned to each role per day (point person and back up)	-Two screens (one with EHR and one with link to trend data)		

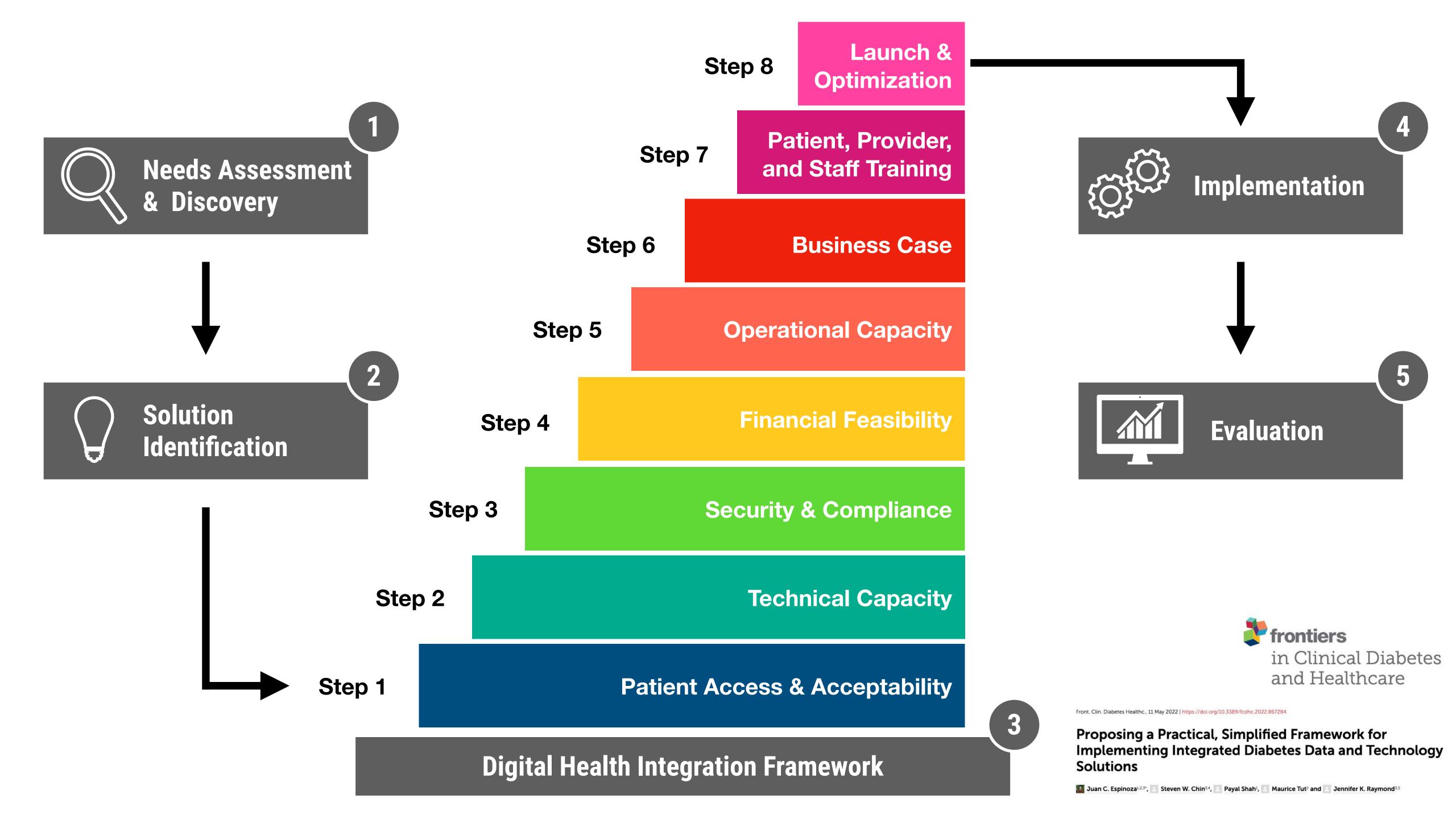
			Task by Role	
Events and Time Points	Time Estimate	Patient	Clinical Staff	Clinician
Pre-Clinic	Pre-Clinic 5 min Open hours with tech-support person are available each day		Scheduled Telehealth Visit: Reminder sent to patient to upload data - number provided to call for questions or barriers to uploading data Urgent request by patient for data review: - contacts patient, triages request, if appropriate, then schedules TH visit and procedures with workflow. If not appropriate for TH visits, then instructs to call on-call clinicians or go to ER Asynchronous data review: - no action, done by clinician	
Check-In	5 min	Day of visit receives notification to upload data Logs onto virtual visit once invitation received	Scheduled Telehealth Visit: Sends person with diabetes virtual invitation for TH visit Verifies data has been uploaded	
Data Upload	5 min	Uploads data prior to visit - no further action needed Uploads data during check in with clinical staff	Devices synced and assigned to the individual's accountRequires two devices to access web-based upload site and EHR -need point person assigned to TH visit (in addition to point person and back up for in person clinic). Virtual care point person can also triage urgent request (need to consider level of training to triage appropriately for urgent situations).	
Data Request	10 min		Place data pull request in EHR	
Clinical Encounter	45 min	Visit with clinician		-Access summary report from EHR and review
Check Out	5 min	Schedule follow up	Review upload instruction, email after visit summary	
Equipment ar	nd Space	Personal device	-Two devices to access web-based upload site and EHR - Point person	-three screens (one with EHR, one with patient visit, and one with link to trend data)



Modality	Codes	Reimbursement	Frequency	Technical Requirements
In-person visit	9920X 9921X 9924X	Variable compensation	Per Insurance	Baseline
Telehealth visit	same as above + modifier	Same as above*	The state of the s	
Virtual Check-in	G2012 G2010	~\$15	2-4 times per month	Phone, Email, Patient Portal
Remote Patient Monitoring	99091 99453 99454 99457	~\$60	once a month	Devices, Data Platform
Chronic Care Management	99490 99487 99489 G0506	~\$45	once a month	None

				Gross billing revenue based on percent of encounters captured			
Code	Medi-cal rate	# of patients	Times billed/year	100%	10%	25%	50%
99453	\$17.77	750	1	\$13,327.50	\$1,332.75	\$3,331.88	\$6,663.75
99454	\$58.92	750	1	\$44,190.00	\$4,419.00	\$11,047.50	\$22,095.00
99091	\$46.15	750	12	\$415,350.00	\$41,535.00	\$103,837.50	\$207,675.00
			TOTAL	\$472,867.50	\$47,286.75	\$118,216.88	\$236,433.75

Code	Code Name	Code Description	Medi-Cal Rate	Patient Contact Required?	Billable Frequency	Requires Physician?
99453	REM MNTR PHYSIOL PARAM SETUP	CPT code 99453 covers the time spent for the initial setup. That includes the onboarding of a patient for RPM services by clinical staff — in other words, the initial explanation of how the device works, and setting up a treatment schedule.	\$17.77	YES	Every 30 days	NO
99454	REM MNTR PHYSIOL PARAM DEV	CPT code 99454 covers monthly remote monitoring of the patient. This includes the supply and use of the medical devices used to remotely monitor and collect patient-generated health data (PGHD). This specifically means data transmission, and does not include time spent educating and setting up the use of the device. 99454 must be billed in conjunction with 99453, and requires the transmission of data from a remote device for a minimum of 16 days within a 30-day period. Requires review of at least 16 days of data.	\$58 .92	NO	Every 30 days	NO
99457	REM PHYSIOL MNTR 1ST 20 MIN	Care Management by Clinical Staff: After analyzing and interpreting remotely collected physiologic data, the data is used to develop a treatment plan and then manage the plan until the targeted goals of the treatment plan are attained. CPT codes 99457 & 99458 are designated as care management services and as such can be provided by clinical staff under the general supervision of the physician or NPP. Interactive Communication: Services are typically provided remotely using communications technologies that allow interactive communication. Interactive communication, involves, a realtime synchronous, two-way audio interaction that is capable of being enhanced with video or other kinds of data transmission; as well as, time engaged in non-face-to-face care management services during calendar year. The first 20 minutes of interactive communication is reporting using CPT 99457 and each additional 20 minutes is reported using CPT 99458.	\$44.84	YES	Every 30 days	NO
99458	REM PHYSIOL MNTR EA ADDL 20	Same as above	\$44.32	YES	Every 30 days	NO
99091	COLLECT/REVIEW DATA FROM PT	After the data collection period for CPT codes 99453 and 99454, the physiologic data that are collected and transmitted may be analyzed by a "physician or other qualified health care professional, qualified by education, training, licensure/regulation." This code includes only professional work and does not contain any direct practice expense (PE). The valuation for CPT code 99091 includes a total time of 40 minutes of physician or NPP work, broken down as follows: 5 minutes of preservice work (for example, chart review); 30 minutes of intra-service work (for example, data analysis and interpretation, report based upon the physiologic data, as well as a possible phone call to the patient); and 5 minutes of post-service work (that is, chart documentation).	\$46.15	NO	Every 30 days	NO
95250	CGM setup and training	Ambulatory continuous glucose monitoring of interstitial tissue fluid via a subcutaneous sensor for a minimum of 72 hours; physician or other qualified health care professional (office) provided equipment, sensor placement, hook-up, calibration of monitor, patient training, removal of sensor, and printout of recording.	no Medi-Cal, some private payers	YES	Once when device first deployed	NO
95251	CGM itnerpretation	Ambulatory continuous glucose monitoring of interstitial tissue fluid via a subcutaneous sensor for a minimum of 72 hours; analysis, interpretation and report.	no Medi-Cal, some private payers	NO	Every 30 days	NO





What's in it?

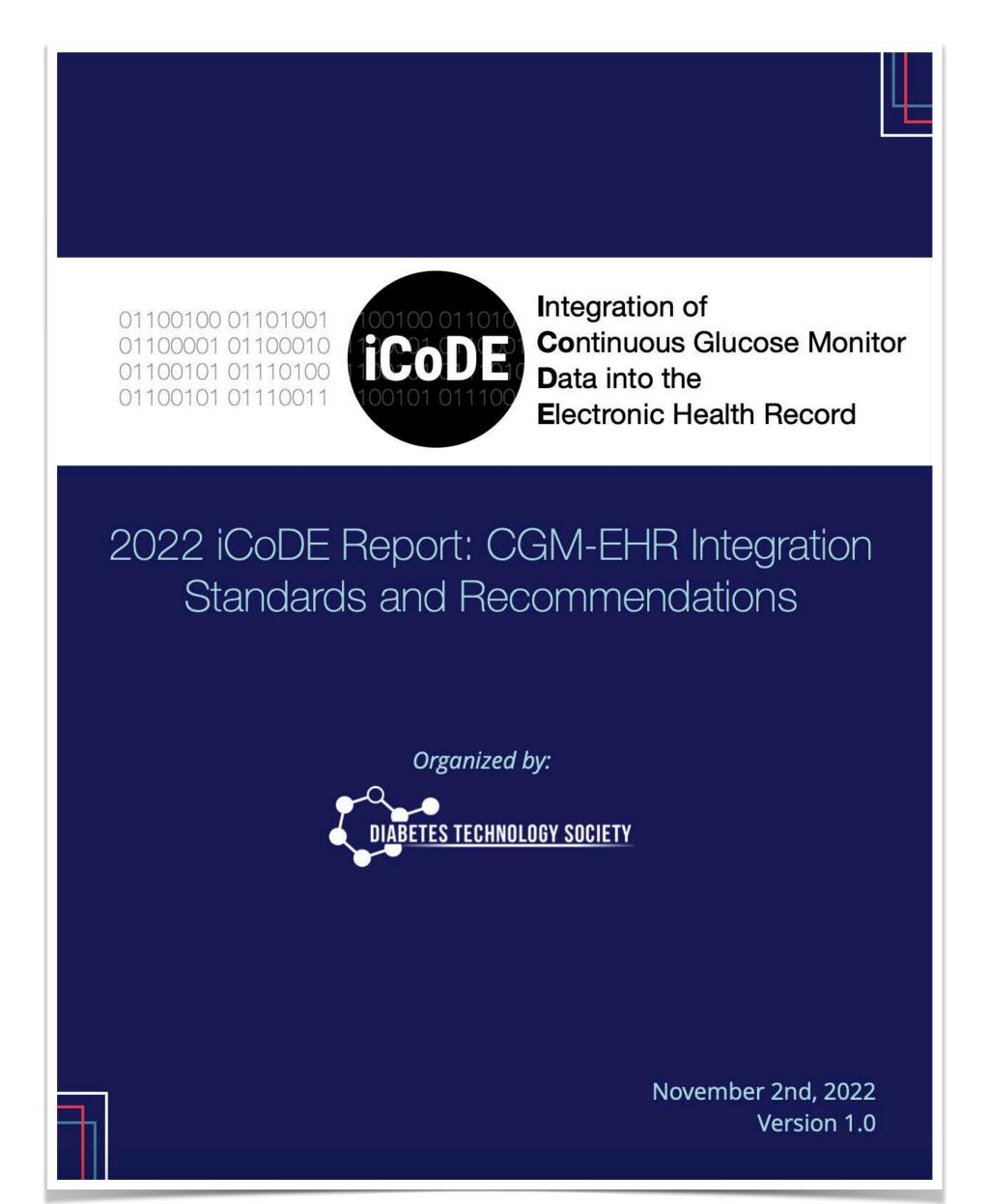
- 3 Sections:
 - Introduction
 - Technical Standards and Considerations
 - Clinical Implementation
- Project Implementation Guide
- 54 Recommendations
- Appendix of references and resources

Endorsed by:

- American Association for Clinical Chemistry (AACC)
- Canadian Society of Clinical Chemists (CSCC)

• Reach:

- Downloaded >500 times since November 2022
- 300+ different organizations





Diabetes Research Hub



Barriers to Progress in CGM Research

Technology Barriers

Knowledge Barriers

Community Barriers

Proprietary data platforms

Complex data workflows

Lack of CGM data-specific tools

Lack of methodological consensus

Lack of education and guidance

Inconsistent reporting of methods

No central hub for CGM research

Ineffective data sharing and re-use

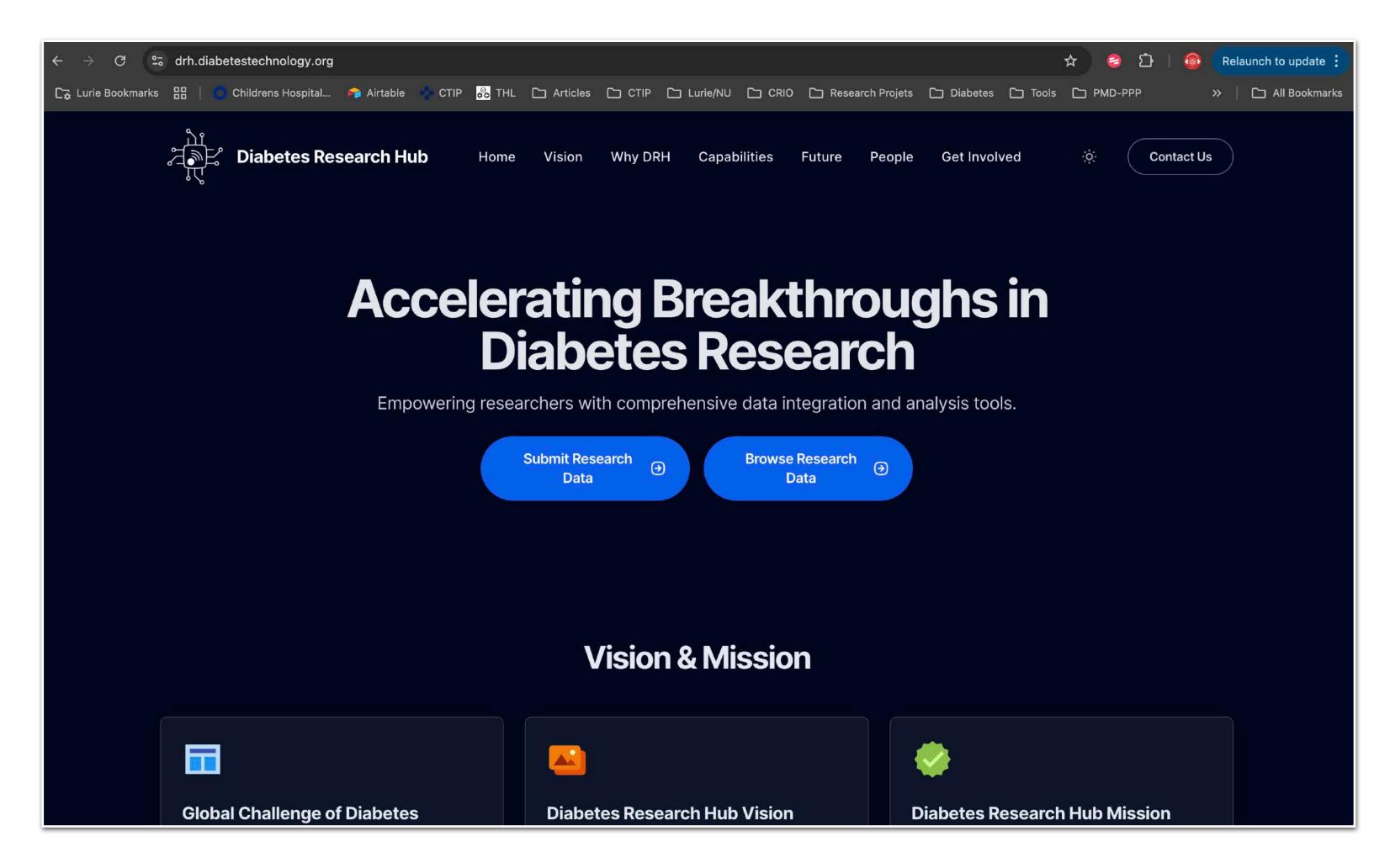
Siloed research groups across fields

Current Resources:

Category	# Repositories	Types of Data	CGM Support	Time-Series Analysis	Glycemic Variability Metrics
NIDDK Funded	6	metabolomics, genomics, metaradata, omics	×	×	×
NIH Supported (NIDDK)	8	Omics, clinical trials, sequencing	×	×	×
Specilaized Community Repositories	9	clinical trials, microscipy imaging, proteint strucutre, physioloigcal data, microaray, NGS, proteomics, genotype and phenotype	×	PhysioNet has time series tools	×
Generalist Repositories	9	multiple data types	×	×	×
NIDDK Funded Community Projects	14	Clinical data, omics, microscopy	×	×	×
Other	2	DBDP: code repository, no data Awesome-CGM: CGM data collection, R code		×	☑ ¥



Diabetes Research Hub



10 Studies

1271

Participants

52%

Female

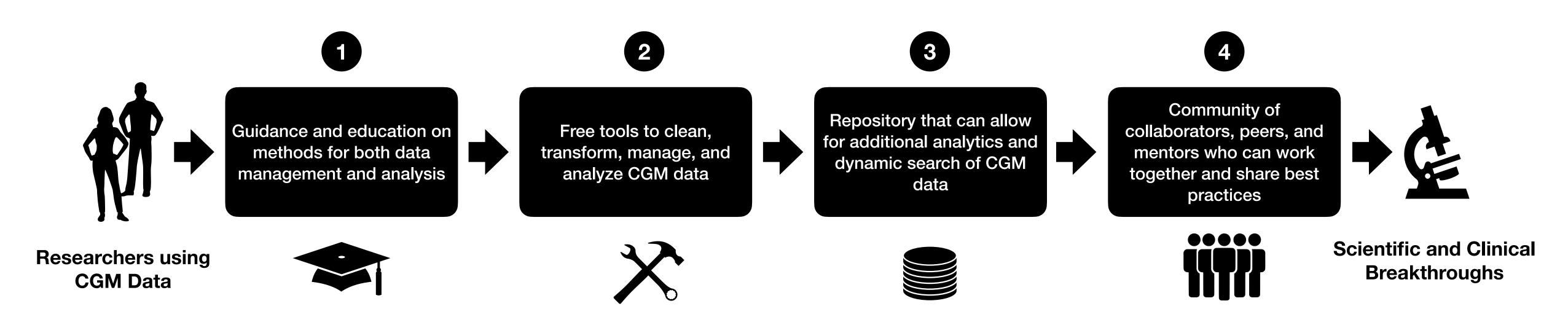
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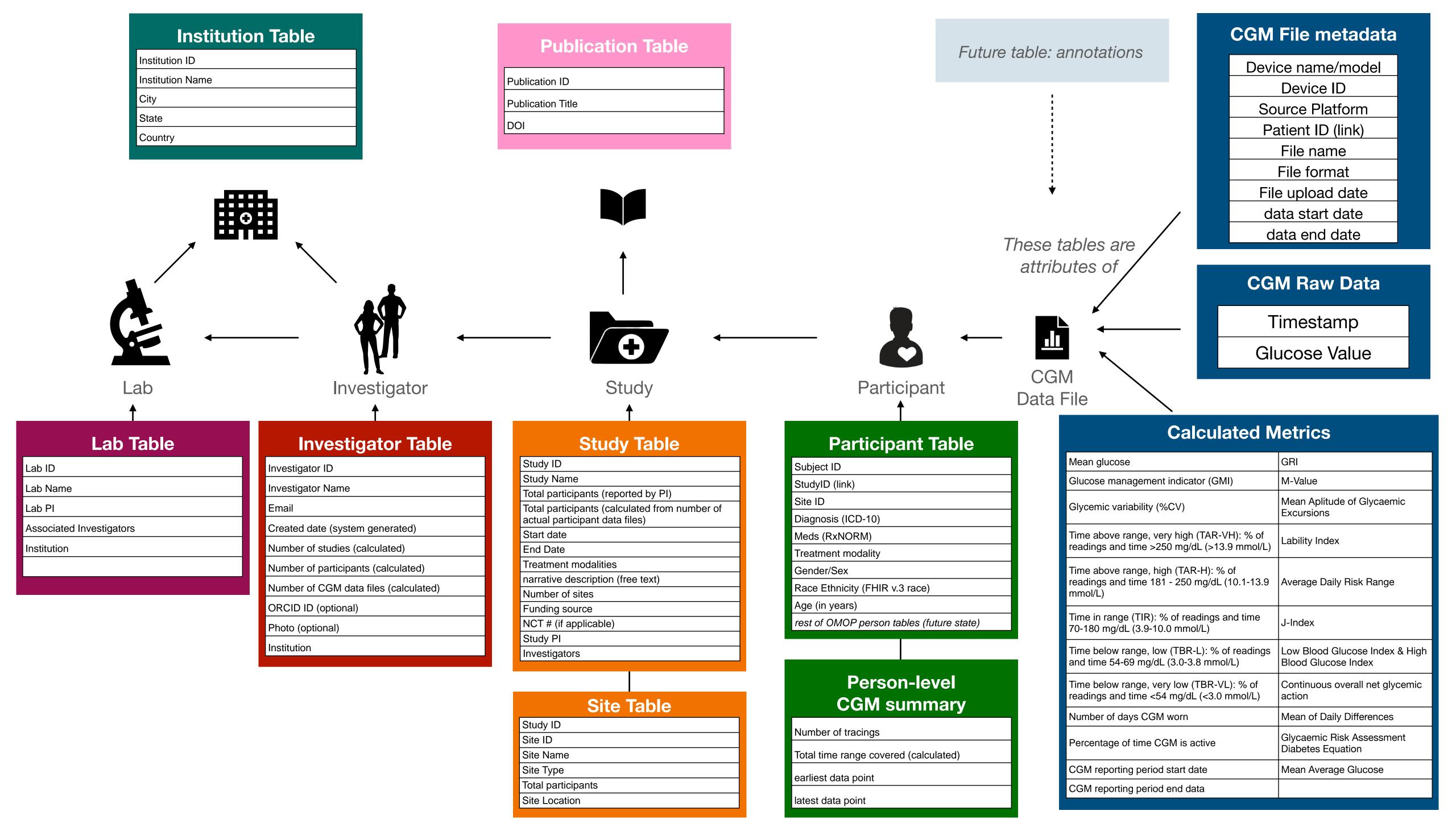
Data Points



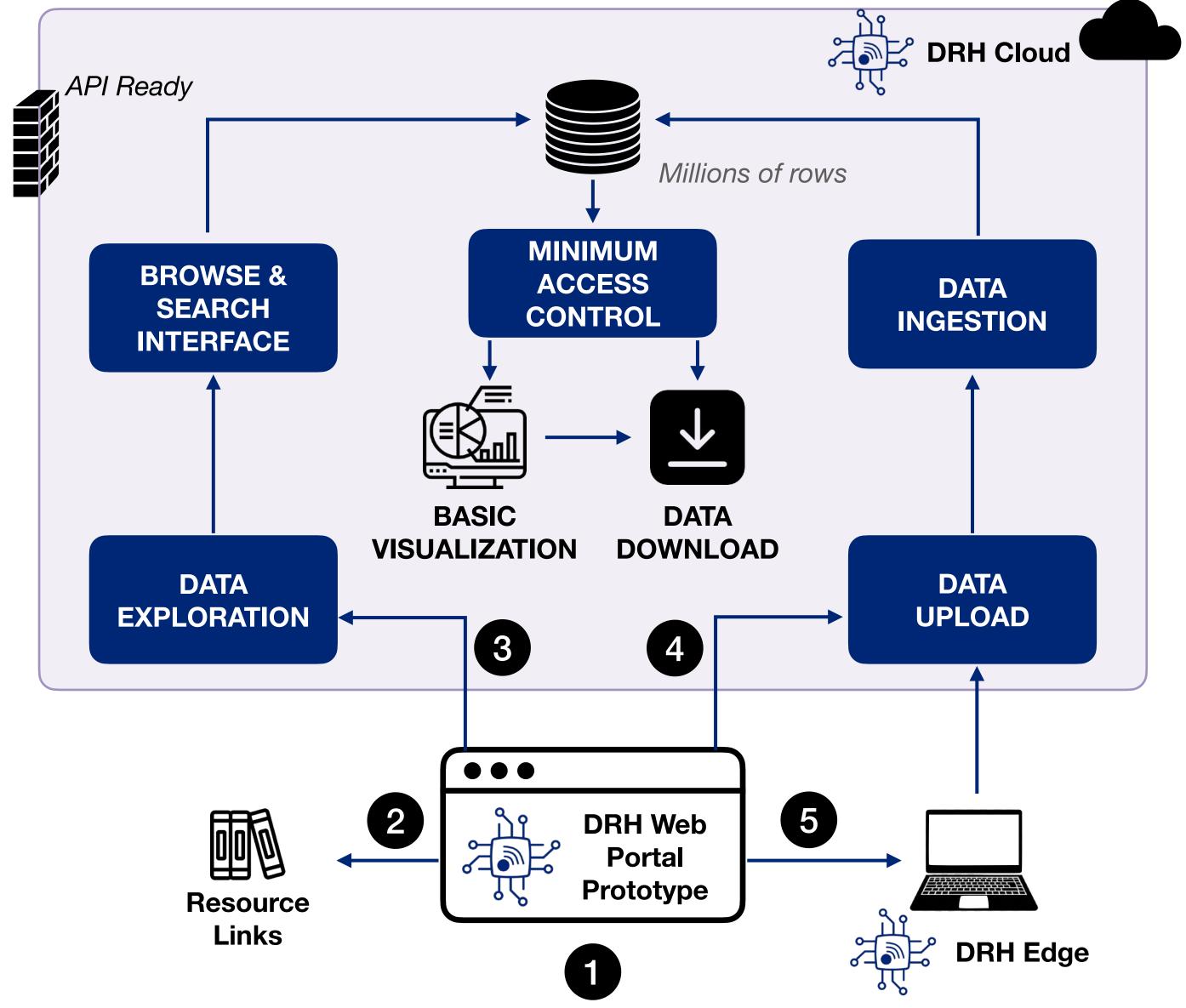
Diabetes Research Hub

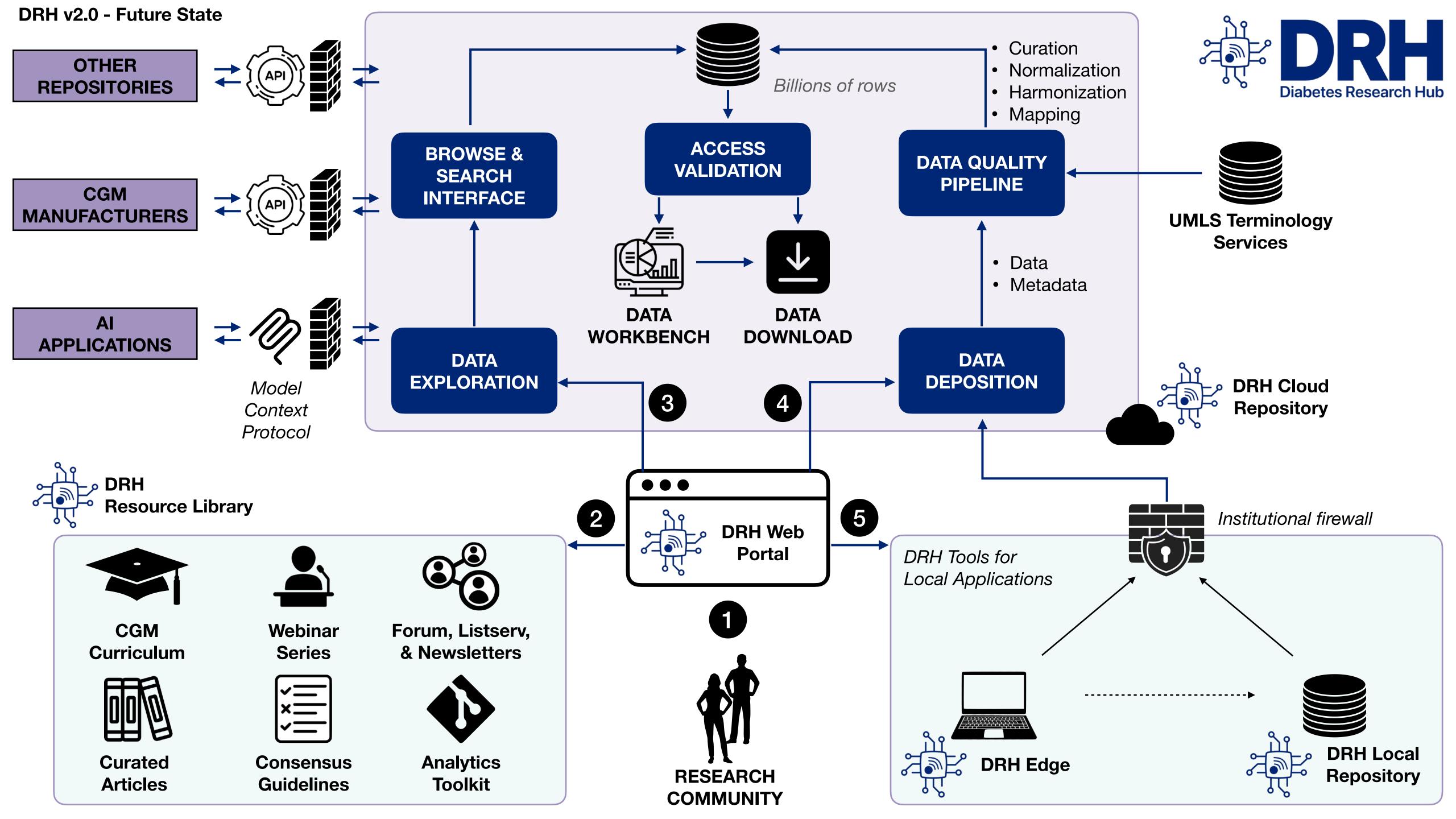
How the DRH Accelerates Diabetes and CGM Research





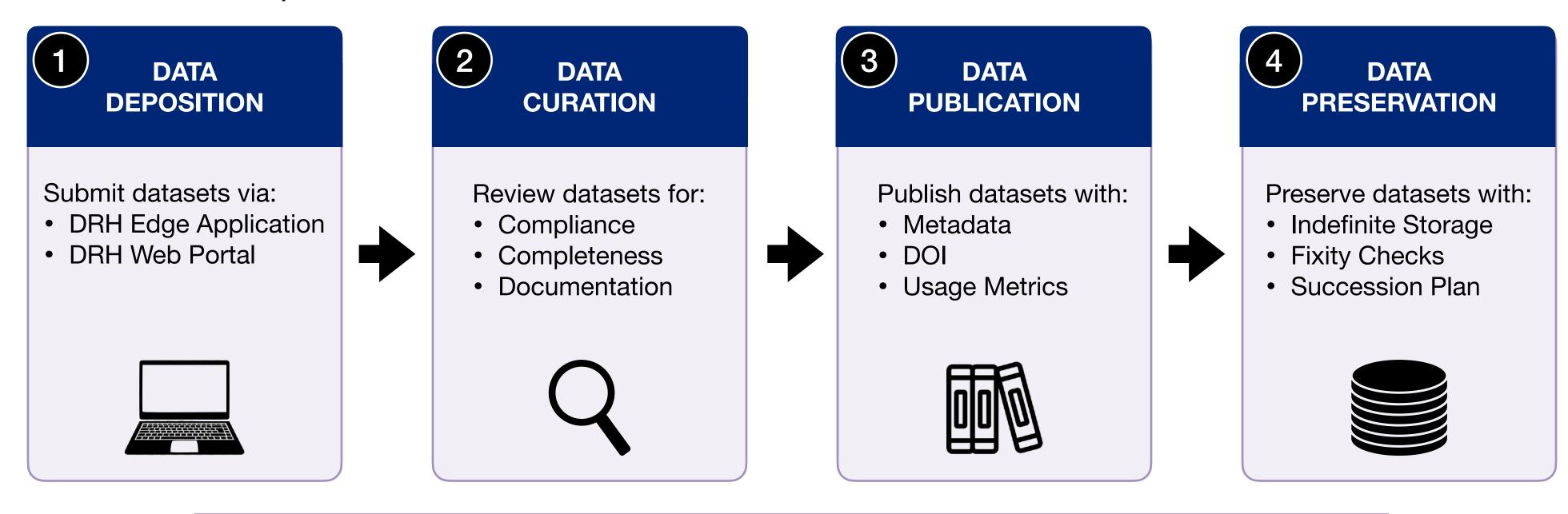








Open Data, Open Stack



DRH Tech Stack (Future State)	
Storage: PostgreSQL in Amazon S3	Author disambiguation: ORCiD
Application front end: Java + Spring Boot	Metadata schema: DataCite, schema.org
Data catolog platform: InvenioRDM	Audit Logs: ELK Stack
User Access Control: InCommon	Code Repository: GitHub
Minting DOIs: DataCite	Data use metrics, impact: Make Data Count

What's Next



Takeaways and Work still to do

What has worked well:

- Core philosophy: Adopt, Adapt, Create (in that order)
- Hyper-collaborative and open
- Patience it takes a while

• What's been hard:

- Standards work is rarely attractive to funders, so we often bootstrap
- Standards are compromises by definition they need to work for everyone

• What still needs doing:

- Policy changes to device data accessibility (RIN 0938-AV68 Comments due June 16th)
- Diabetes Technology CDEs for research
- Tabular data models -> Time series data models
- Device metadata standards, including reporting structure

Thank You.

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Please, give me feedback on today's talk:

https://tinyurl.com/JuanEval

https://airtable.com/shrgBH0ltwKdyyjDW



