



MedHealth STARTUP DAY

with the U.S. Department of Health and Human Services

Innovating Healthcare Together

Innovation from a Federal Lens

Ed Simcox, Chief Technology Officer, U.S. Department of Health and Human Services



Office of the
CHIEF TECHNOLOGY OFFICER

Detroit Startup Day

Ed Simcox

7/15/2019

HHS At A Glance



Cabinet-Level

\$1.1 Trillion
budget

80,000+ staff

Mission

To build an innovation-focused culture at HHS that improves health outcomes and reduces costs



“Working in tandem, the Government and the private sector can promote the nation’s economic growth through innovation”

- Michael Kratsios, Mick Mulvaney
August, 2017

Principles

1. Open data fuels insight and change
2. Partnerships accelerate mission
3. Consumer focus drives better healthcare

Inter-Agency Innovation Hub

Data

We open data to fuel internal & external innovation



Talent

We cultivate talent through Ignite, CoLab and EIR



Partnerships

We leverage prize authority to address market failures



Data



Data Insights Initiative

HHS Opioid Code-a-Thon
Connecting data to *Save lives*

Increasing interagency
data access

45 teams
3 \$10k prizes

Internal Innovation



Data Science CoLab
Ignite Accelerator



21 EIRs
15 projects

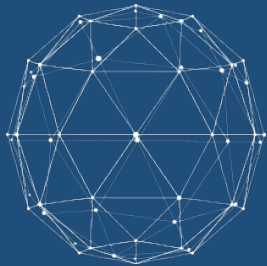
Partnerships



Public-private partnership
\$25M in prizes



5 cities
1000 participants



GLOBAL DIGITAL HEALTH
PARTNERSHIP

36 countries

Innovating Healthcare Together

KidneyX Challenge

Rachel Meyer, Director of Policy and Government Affairs, American Society of Nephrology

Accelerating Innovation in the Prevention, Diagnosis and Treatment of Kidney Diseases

Rachel Meyer

Director of Policy and Government Affairs
American Society of Nephrology

KIDNEYX
INNOVATION ACCELERATOR

MedHealth Start Up Day
Detroit, Michigan
Monday, July 15, 2019

Kidney X Mission:
**Accelerate innovation in the
prevention, diagnosis, and treatment
of kidney diseases.**

- **How public-private partnerships can drive progress in otherwise neglected areas**
- **How a small organization can create transformative changes**
- **How realigning incentives can help patient needs come first**

ADVANCING AMERICAN Kidney Health



“This executive order encourages private enterprises to partner with government to achieve incredible medical breakthroughs.

We are going to prioritize the development of an artificial kidney.”

**—President Donald J. Trump
July 10, 2019**

ADVANCING AMERICAN Kidney Health

Goal 1: Reduce risk of kidney failure

Goal 2: Improve access to and quality of person-centered treatment options

Goal 3: Increase access to kidney transplants

OBJECTIVE 3. Catalyze the development of innovative therapies including wearable or implantable artificial kidneys with funding from government, philanthropic and private entities through KidneyX, and coordinating regulatory and payment policies to incentivize innovative product development



700,000
Americans have
kidney failure

1% Medicare population has
kidney failure



7% Medicare budget
dedicated to their care

100,000 START DIALYSIS
every year: >50% of them will
DIE WITHIN 5 YEARS



\$35 BILLION
Annual Medicare Spend



12 Hours

A typical in-center hemodialysis patient spends 12 hours a week attached to a machine



93% Patients

Among patients ages 18-54 years old at the start of dialysis, 93% were classified as disabled



100,000

Each year, more than 100,000 Americans begin hemodialysis as a result of kidney failure



40 Million

40 Million adult Americans are currently classified as having chronic kidney disease



13 Patients

Every day 13 patients die waiting for a kidney transplant



48%

Of Stage 4 CKD patients, 48% were unaware of their severe CKD



3.5 Times

African-Americans are 3.5x more likely to develop kidney failure



1.5 Times

Hispanics are 1.5x more likely to develop kidney failure

SPOTLIGHT ON KIDNEY DISEASES IN MICHIGAN



1,331,312 PATIENTS WITH KIDNEY DISEASES

15,356 PATIENTS ON DIALYSIS

22,969 PATIENTS DIAGNOSED WITH KIDNEY FAILURE*

7,517 PATIENTS WITH A KIDNEY TRANSPLANT

**2,437 PATIENTS WAIT-LISTED FOR A KIDNEY
TRANSPLANT TODAY**



HHS

Research funder
Market regulator
Primary payer
Public health steward

ASN

Nephrology expertise
Global reach
\$25 million committed
Fundraising capacity



“There may be no better example than kidney care of how government domination of healthcare discourages innovation from providers...we need to flip that around.”

**– HHS Secretary Alex M. Azar II
July 10, 2019**

“Catalyze the Development of Innovative New Therapies”

1. Offer funding opportunities

Series of prize competitions

2. Coordinate regulatory and payment policies across HHS

Clarify paths to commercialization (FDA, NIH, CMS)

3. De-risk commercialization

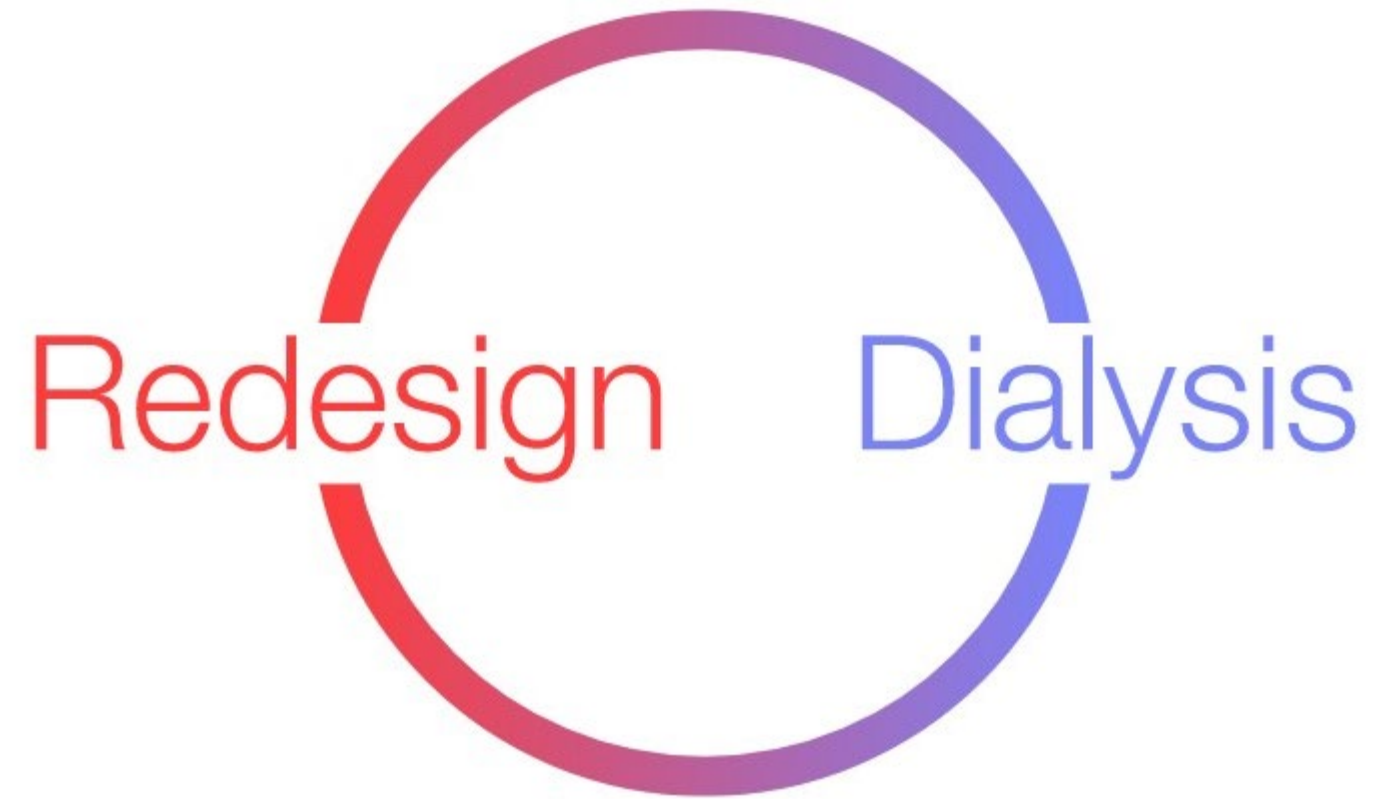
Attract outside investment capital

4. Create a sense of urgency

On behalf of people living with kidney diseases

KidneyX Principles

- **Patient-Driven:** Ensure all product development is patient-driven
- **Urgent:** Create a sense of urgency
- **Achievable:** Ground in scientifically-driven technology development
- **Catalytic:** Reduce regulatory and financial risks to catalyze investment
- **Collaborative:** Foster multidisciplinary approaches
- **Additive:** Addresses known barriers to innovation
- **Sustainable:** Invest in a diverse portfolio to balance risk



Redesign Dialysis: Solutions Sought

- Replacing kidney functions
- Improving patient quality of life
- Addressing engineering challenges
- Ancillary technologies
- Biomaterials development
- Biological and immunological modulation
- Biosensor development and safety monitoring



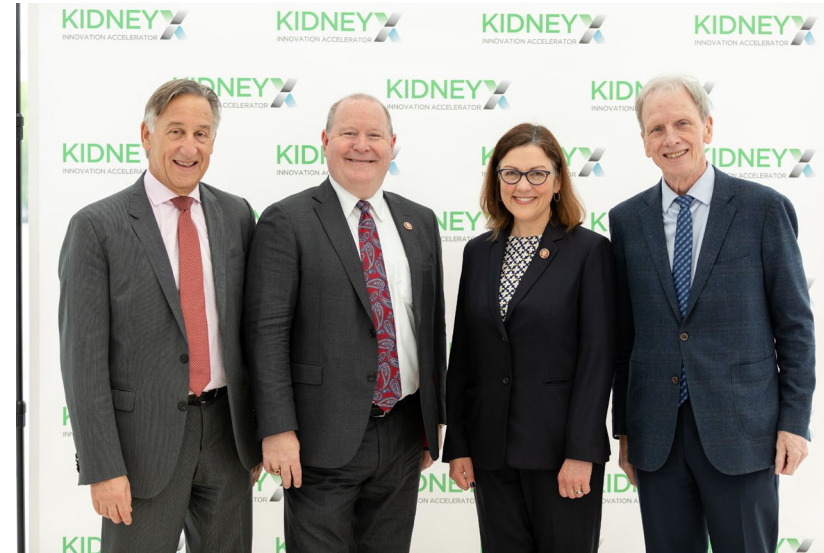
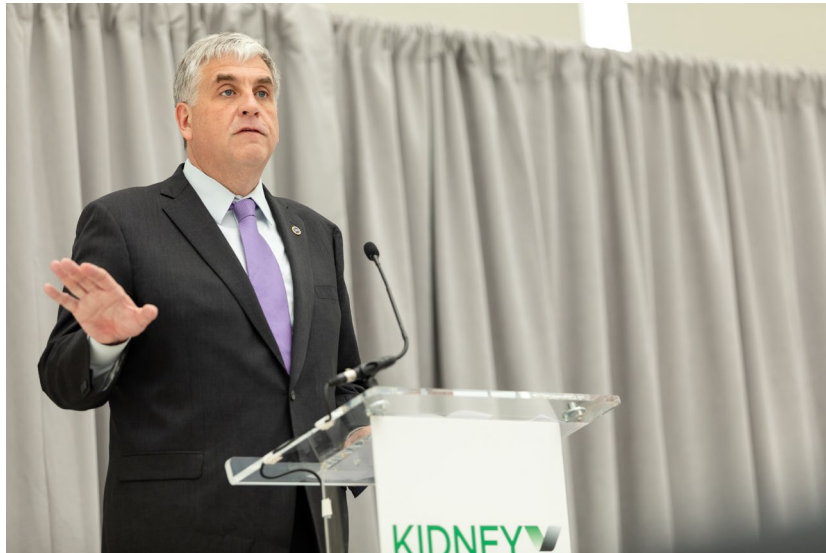
Phase One: Design Solutions

- Sought promising ideas *on paper*
- Awarded 15 teams \$75,000 in April 2019

“...we got 165 submissions, including a number of proposals that could help advance an artificial kidney...we’re thrilled with this level of interest, and it shows what a prize competition can drive.”

– HHS Secretary Alex M. Azar II

March 4, 2019



Phase Two: Develop Solutions

- Seek prototype or component technology
- Up to 3 prizes of \$500,000
- Submissions accepted Nov. 2019 – April 2020

Phase Three: Test Solutions in Human Trials

- Advancing American Kidney Health Initiative mandate
- Launch prize competition in 2020



REDESIGN DIALYSIS: October 2018 - Q2 2020

Wearable or implantable dialyzers, bio-artificial kidneys, xenotransplant technology, etc.



MEDICATIONS

Drugs specifically designed to treat and slow progression of kidney diseases, as well as encompass the needs of kidney transplant patients



DEVICES

Devices that support the management and treatment of kidney diseases that are not dialyzers (such as vascular access technologies, etc.)



DIAGNOSTICS

Point-of-care or at home testing kits, real time kidney monitoring, etc.



PATIENT-CENTERED TOOLS

Tools designed to identify and track disease, applications to empower patients to manage kidney diseases (e.g., apps)

Patient Innovator Prize: Announced July 10

- Seek hacks and creative solutions from patients themselves
- Call for new ideas to address patient needs
- Run August 1 – September 16, 2019

“KidneyX has given me hope. As I watch my husband's quality of life decline, I want to do more and proceed in a positive direction.

We devote about 32 hours/week to home hemodialysis. It is like having a full-time job again. We are searching for newer and better ways to treat my husband's kidney failure before he succumbs to it.

Please keep us informed about KidneyX.”

–Wife of dialysis patient



Public-private Partnerships

Partnering with the Food and Drug Administration

Kevin Go, Center for Devices and Radiological Health Innovation and Payor Communication Task Force, U.S. Food and Drug Administration

FDA as a Driver of Medical Device Innovation

MedHealth Start-Up Day

Kevin Go
CDRH Innovation
July 15, 2019

Patients are at the Heart of What We Do

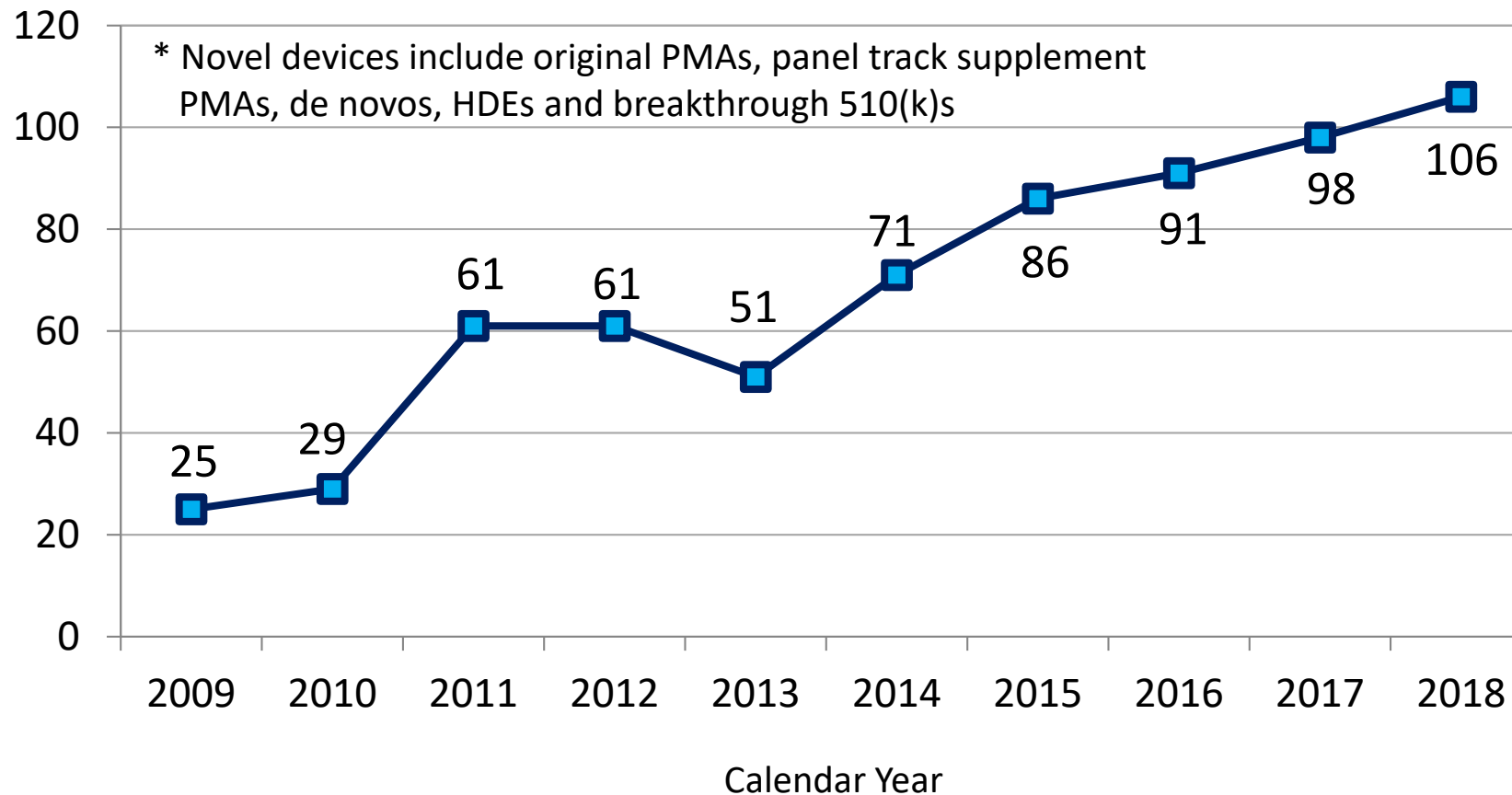


CDRH Vision

Patients in the U.S. have access to high-quality, safe, and effective medical devices of public health importance first in the world

Novel Device Approvals

>4-fold Increase in # of Novel Device Approvals



Early Feasibility Studies

- Voluntary, informal program that allows devices in the early stages of development to be evaluated in a small human clinical study in the US
- Intended to support the initiation of these trials in the US, providing access to US patients and physicians
- Pre-Submission interactions encouraged
- No formal request or designation process
- Additional **flexibility** and tools (e.g., Device Evaluation Strategy) support FDA's review
- Program support and division representatives



[Early Feasibility Medical Device Clinical Studies, Including Certain First in Human Studies](#)

Early Feasibility Studies: Perceptual Shifts in Ease of Conduct



	2014	2015	2016	2018
1	Australia	Australia	Australia	Australia
2	New Zealand	New Zealand	New Zealand	United States
3	Central America	Canada	Canada	Central America
4	Germany	Netherlands	Netherlands	New Zealand
5	Denmark	Germany	Denmark	Canada
6	Netherlands	United States	United States	Germany
7	Canada	Central America	Central America	Brazil
8	Brazil	Denmark	Germany	Netherlands
9	United Kingdom	United Kingdom	Brazil	France
10	United States	Brazil	United Kingdom	United Kingdom

*Data provided by Aaron Kaplan/Dartmouth Device Development (3D) Symposium
Annual Survey of 3D Participants

Breakthrough Devices Pathway (Formerly Expedited Access Pathway)



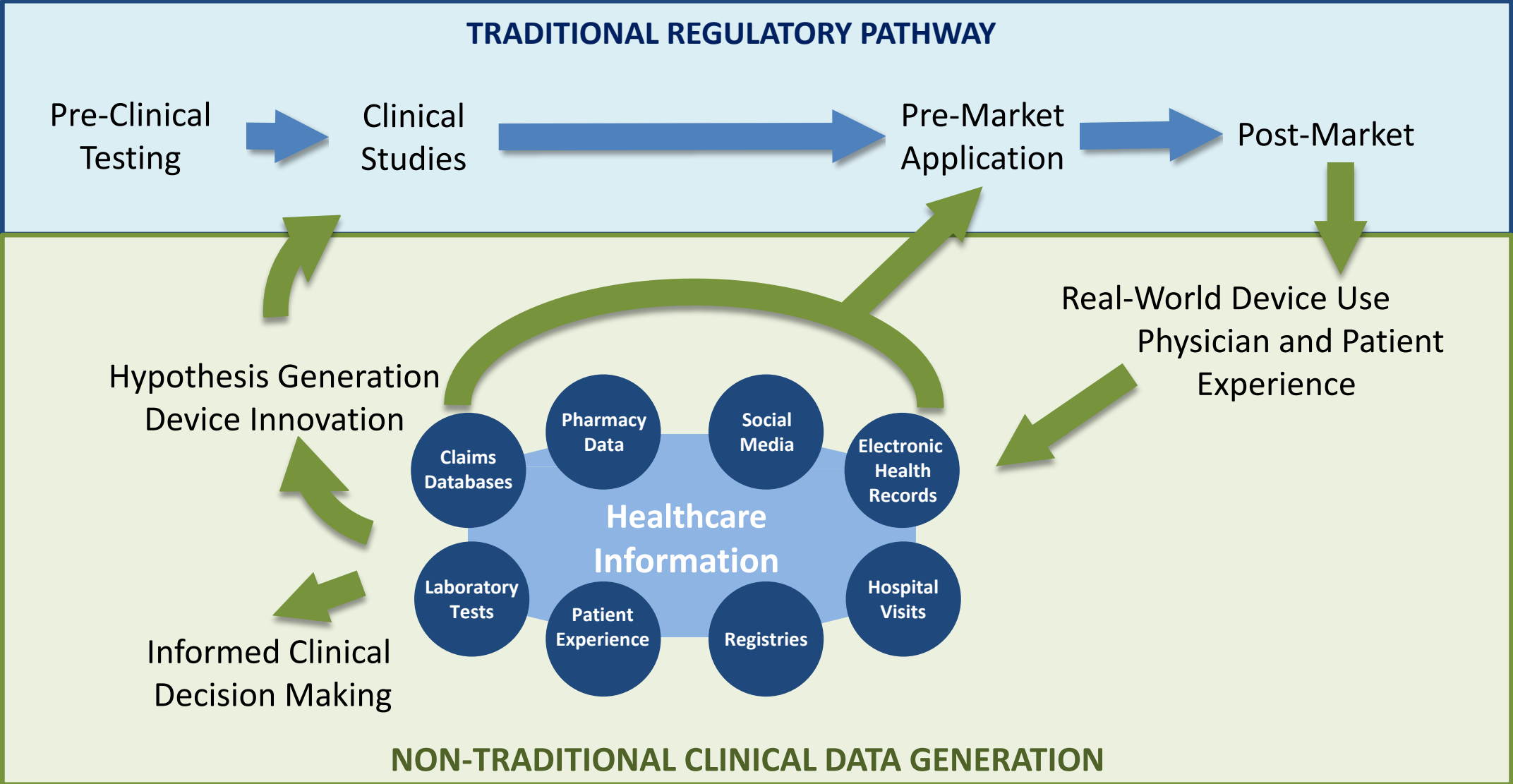
- 142** devices accepted into the program since April 2015
- 1st** breakthrough device approved December 2017
- 11** breakthrough devices granted marketing authorization

Breakthrough Devices Program Guidance for Industry and Food and Drug Administration Staff

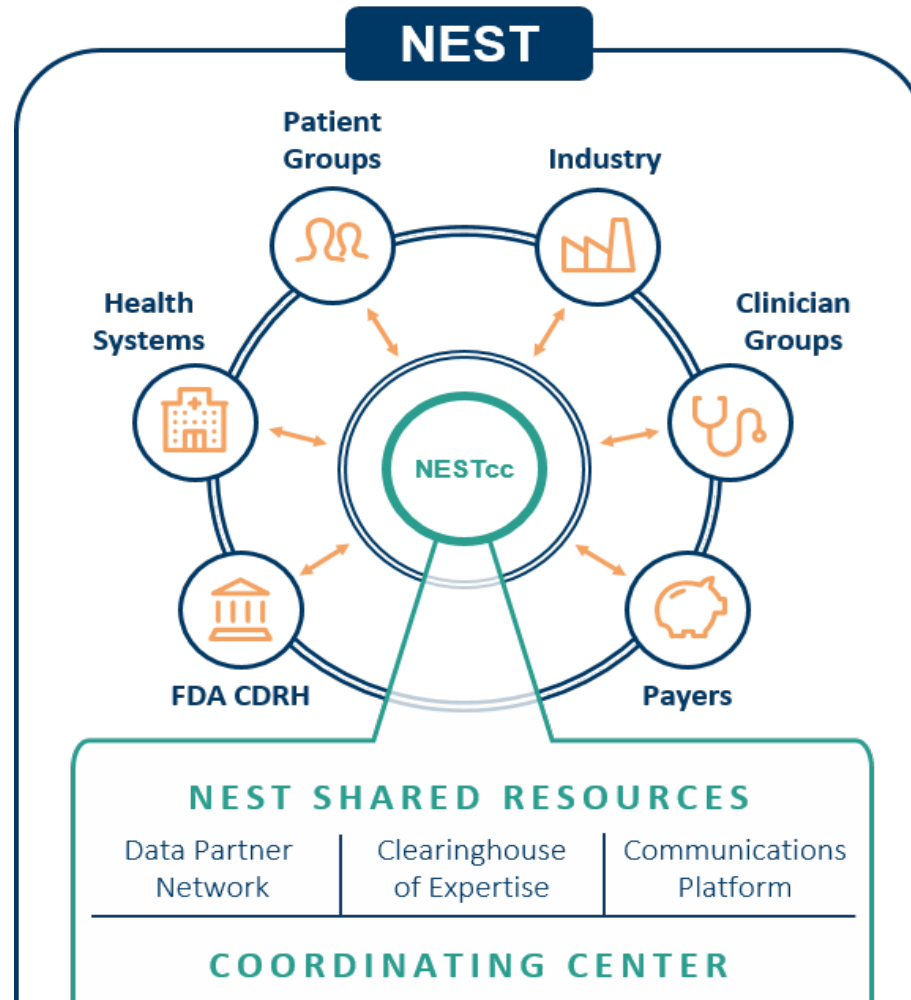
Document issued on December 18, 2018.

- Interactive & Timely Communication
- Pre-Postmarket Balance
- Flexible Clinical Study Design
- Senior Management Engagement
- Priority Review

Evidence in Regulatory Decisions



National Evaluation System for Health Technology



Clinical Trial Design Innovation:
Real-World Evidence
August 31, 2017

Contains Nonbinding Recommendations

Use of Real-World Evidence to Support Regulatory Decision-Making for Medical Devices

Guidance for Industry and Food and Drug Administration Staff

Document issued on August 31, 2017.

The draft of this document was issued on July 27, 2016

For questions about this document regarding CDRH-regulated devices, contact the Office of Surveillance and Biometrics (OSB) at 301-796-5997 or CDRHClinicalEvidence@fda.hhs.gov. For questions about this document regarding CBER-regulated devices, contact the Office of Communication, Outreach, and Development (OCOD) at 1-800-835-4709 or 240-402-8010.



U.S. Department of Health and Human Services
Food and Drug Administration

Center for Devices and Radiological Health
Center for Biologics Evaluation and Research

Communicating with FDA



Contains Nonbinding Recommendations

Requests for Feedback on Medical Device Submissions: The Pre-Submission Program and Meetings with Food and Drug Administration Staff

Guidance for Industry and Food and Drug Administration Staff

Document issued on September 29, 2017

Document originally issued on February 18, 2014

- Covers informational meetings to explain device concepts to FDA
- To obtain guidance/advice prior to submitting a device application.
- Knowing as much as possible prior to a formal device submission benefits both FDA and the sponsor

For questions regarding this document, contact the CDRH Program Operations Staff (POS) at 301-796-5640. For questions regarding submissions to the Center for Biologics Evaluation and Research (CBER), contact CBER's Office of Communication, Outreach and Development at 1-800-835-4709 or 240-402-8010.

FDA Approval ≠ Patient Access



New Program with Payors Aims to Accelerate Patient Access to Medical Devices

Posted on [September 5, 2018](#) by [FDA Voice](#)

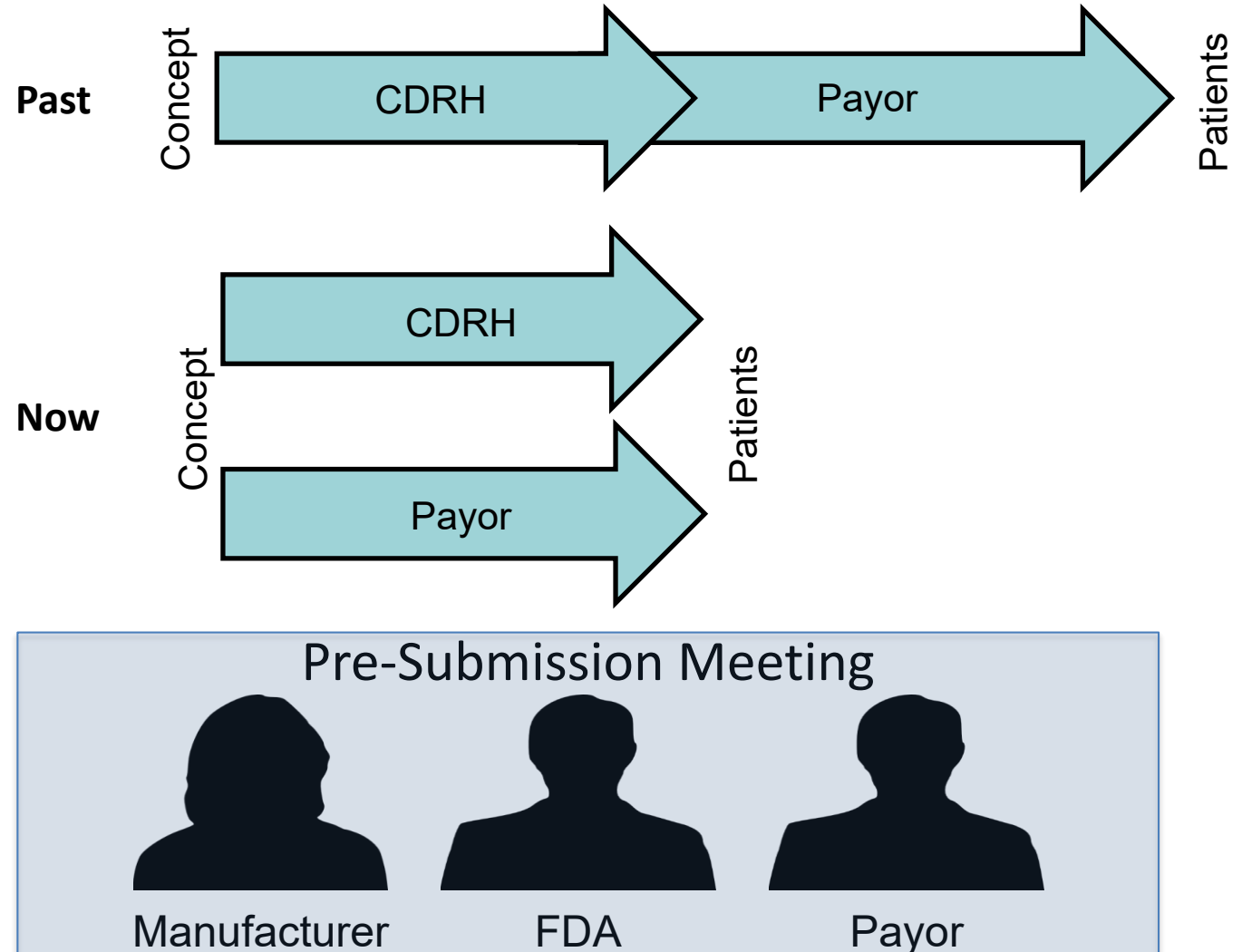
By: Scott Gottlieb, M.D.

Advancing the public health means helping to make sure patients have access to safe, effective medical products. Access is a matter of public health. And our commitments to patients don't stop at the time of a product's approval. We take many steps to make sure products can be safely accessed in the post-market setting, and that new innovations continue to deliver their anticipated benefits. We actively monitor for safety findings in the post-approval period. We have updated labeling to provide modern guidance to providers and patients. And as part of our dedication to the promotion of public health, we also look for opportunities to help advance wider access to safe and effective innovations.



Patients may not have access to an FDA approved or cleared device in the absence of adequate coverage. So, the FDA recognizes the importance of working collaboratively with the payor community to streamline the path from FDA market authorization to payor coverage and reimbursement.

Over the past few years, we've sought creative solutions to decreasing the gap between the FDA's decision to advance a product to the market and the time it takes both public (e.g., Medicare, Medicaid) and private payors to determine whether and how they will provide coverage.



Payor Programs

- **Private or Public Payor Pre-Submission Participation:** manufacturers may request payer input (public or private payer/HTA) on clinical trial design and other considerations. For questions email: CDRHPayerCommunications@fda.hhs.gov
- **Parallel Review:** a mechanism for FDA and the Centers for Medicare & Medicaid Services (CMS) to simultaneously review the submitted clinical data. For questions email: parallel-review@fda.hhs.gov

See our website for more details:

<https://www.fda.gov/aboutfda/centersoffices/officeofmedicalproductsandtobacco/cdrh/cdrhinnovation/ucm456149.htm>



U.S. FOOD & DRUG
ADMINISTRATION

& Devices

Thank You

Public-private Partnerships

Partnering with the Centers for Disease Control and Prevention

Paula Braun, Entrepreneur in Residence, Centers for Disease Control and Prevention

Public Health for Startups

Paula Braun
Entrepreneur-in-Residence
Centers for Disease Control and Prevention

July 2019









A SET OF DATA CLASSES TO SUPPORT NATIONWIDE INTEROPERABILITY

The USCDI Version 1 (USCDI v1) is proposed as a standard (§ 170.213). It reflects the same data classes referenced by the CCDS definition and includes new required data classes and data elements, noted below.

If adopted, health IT developers will need to update their certified health IT to support the USCDI for all certification criteria affected by this change.

USCDI v1

Assessment and Plan of Treatment



Care Team Members



Clinical Notes *NEW

- Consultation Note
- Discharge Summary Note
- History & Physical
- Imaging Narrative
- Laboratory Report Narrative
- Pathology Report Narrative
- Procedure Note
- Progress Note



Goals

- Patient Goals



Health Concerns



Immunizations



Laboratory

- Tests
- Values/Results



Medications

- Medications
- Medication Allergies



Patient Demographics

- First Name
- Last Name
- Previous Name
- Middle Name (including middle initial)
- Suffix
- Birth Sex
- Date of Birth
- Race
- Ethnicity
- Preferred Language
- Address *NEW
- Phone Number *NEW



Problems



Procedures



Provenance *NEW

- Author
- Author Time Stamp
- Author Organization



Smoking Status



Unique Device Identifier(s) for a Patient's Implantable Device(s)



Vital Signs

- Diastolic Blood Pressure
- Systolic Blood Pressure
- Body Height
- Body Weight
- Heart Rate
- Respiratory rate
- Body Temperature
- Pulse oximetry
- Inhaled oxygen concentration
- Pediatric Vital Signs *NEW
 - BMI percentile per age and sex for youth 2-20
 - Weight for age per length and sex
 - Occipital-frontal circumference for children < 3 years old



Reporting to
Public Health

Clinical Decision
Support



New Possibilities
for Public Health

FHIR-Connected
Health Agencies

Convenience Comes to Federal Grants

Download the Grants.gov Mobile App
to search and submit on the go.



SEARCH
GRANTS



GET
STARTED



GRANT
POLICIES



GRANT-MAKING
AGENCIES



PREVENT
SCAMS



COMMUNITY
BLOG



TWITTER
FEED



YOUTUBE
VIDEOS



ONLINE
HELP



SUPPORT
CENTER

Questions?

Paula Braun

Phone: 404-498-6809

pabraun@cdc.gov

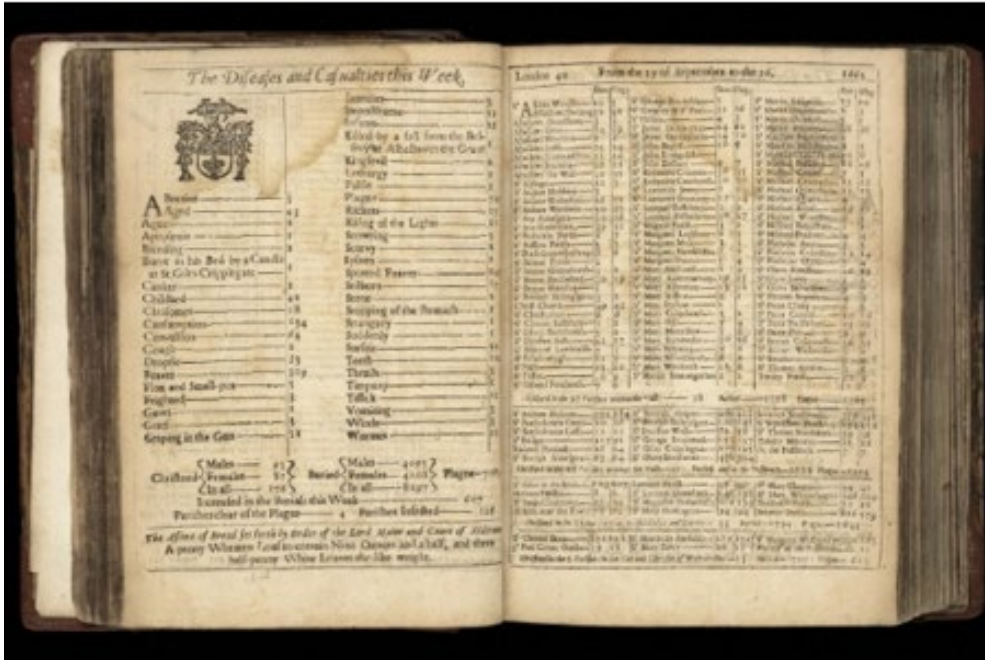
For more information, contact CDC
1-800-CDC-INFO (232-4636)
TTY: 1-888-232-6348 www.cdc.gov

The findings and conclusions in this report are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention.





Potential to Transform Public Health Surveillance



SOCIAL IMPACT ELEMENTS

What value to society?

**Self
transcendence**
TOMS
Seventh Generation

LIFE CHANGING ELEMENTS

How does it change my life?

Provides hope

GNC
Solid Gold

**Self
actualization**

Harley-Davidson
Leica

Motivation

Weight Watchers
Fitbit

Heirloom

Patek Philippe
Bentley

**Affiliation &
belonging**

Sierra Club
Boston Red Sox

EMOTIONAL ELEMENTS

How does it feel?

**Reduces
anxiety**

PayPal
AAA

Rewards me

American Airlines
Starwood

Nostalgia

Disney
Lego

**Design /
Aesthetics**

Nike
Lululemon

Badge value

BMW
Prada

Wellness

WebMD
CVS Health

**Therapeutic
value**

L'Occitane
Dr. Scholl's

**Fun/
Entertainment**

Busch Gardens
Celebrity Cruises

Attractiveness

Hugo Boss
Victoria's Secret

**Provides
access**

Ancestry.com
iTunes

FUNCTIONAL ELEMENTS

What does it do?

Saves time

E-Z Pass
Zappos

Simplifies

Google
Samsung

Makes money

Vanguard
American Funds

Reduces risk

Symantec
MetLife

Organizes

The Container Store
TurboTax

Integrates

Microsoft Outlook
Apple

Connects

Facebook
Verizon

Reduces effort

Cuisinart
Amazon

Avoids hassles

Amex
USAA

Reduces cost

Walmart
Prius

Quality

Tumi
Patagonia

Variety

Etsy
CarMax

**Sensory
appeal**

Starbucks
Sephora

Informs

Wikipedia
Consumer Reports

INWARDLY-FOCUSED VALUE

OUTWARDLY-FOCUSED VALUE

FHIR Projects in Public Health: Collaboration with GT



Online Master of Science in Computer Science

Are you ready to earn your master's in computer science but not ready to stop working? Do you want a top-ranked degree without the top-ranked price tag?

If so, Georgia Tech has the answer.

<https://cs6440.gatech.edu/>



Public-private Partnerships

Partnering with the Office of the National Coordinator for Health Information Technology

Stephen Konya, Senior Innovation Strategist, Office of the National Coordinator for Health Information Technology



Partnering to Support National Health IT Innovation

MedHealth Startup Day w/ HHS
July 15th, 2019

Stephen Konya, Senior Innovation Strategist, HHS-ONC



ONC's Mission

The Office of the National Coordinator for Health Information Technology (ONC) is at the forefront of the administration's health IT efforts and is a resource to the entire health system

“...to support the adoption of health information technology and the promotion of nationwide health information exchange to improve health care.”

ONC is organizationally located within the Office of the Secretary for the U.S. Department of Health and Human Services (HHS).

ONC is the principal federal entity charged with coordination of nationwide efforts to implement and use the most advanced health information technology and the electronic exchange of health information.

HITECH Act (3001(b)(10))

Among many duties, the National Coordinator is tasked with promoting:

- *“...a more effective marketplace*
- *greater competition*
- *greater systems analysis*
- *increased consumer choice, and*
- *improved outcomes in health care services”*

21st Century Cures Act

Interoperability

Information Blocking

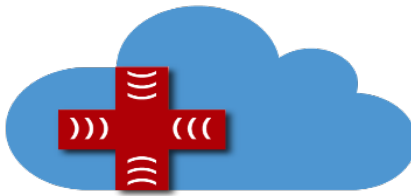
Open APIs

How does ONC support innovation?

#1: Direct (\$)	#2: Indirect
Challenge competitions	Toolkits / guides / technical resources
Cooperative agreements and grants	Role as a “National Coordinator”

National App & Idea Challenges

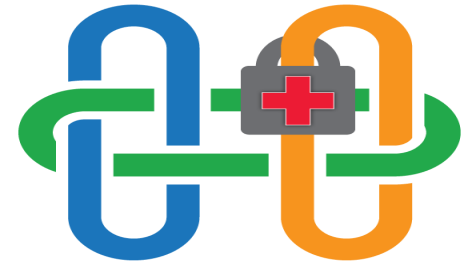
Consumer Health Data
Aggregator Challenge



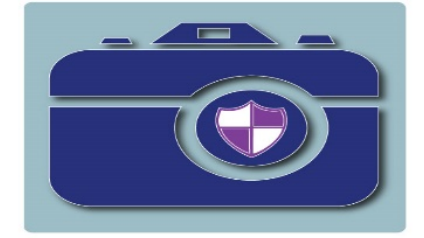
Provider User Experience
Challenge



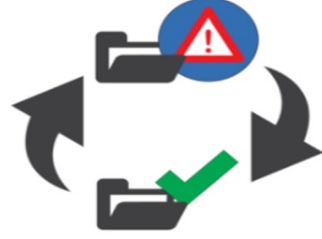
Blockchain Challenge



Privacy Policy
Snapshot Challenge



Easy EHR Issue
Reporting Challenge



"Oh, the Places Data Goes:
Health Data Provenance"
Challenge



Secure API Server
Showdown Challenge



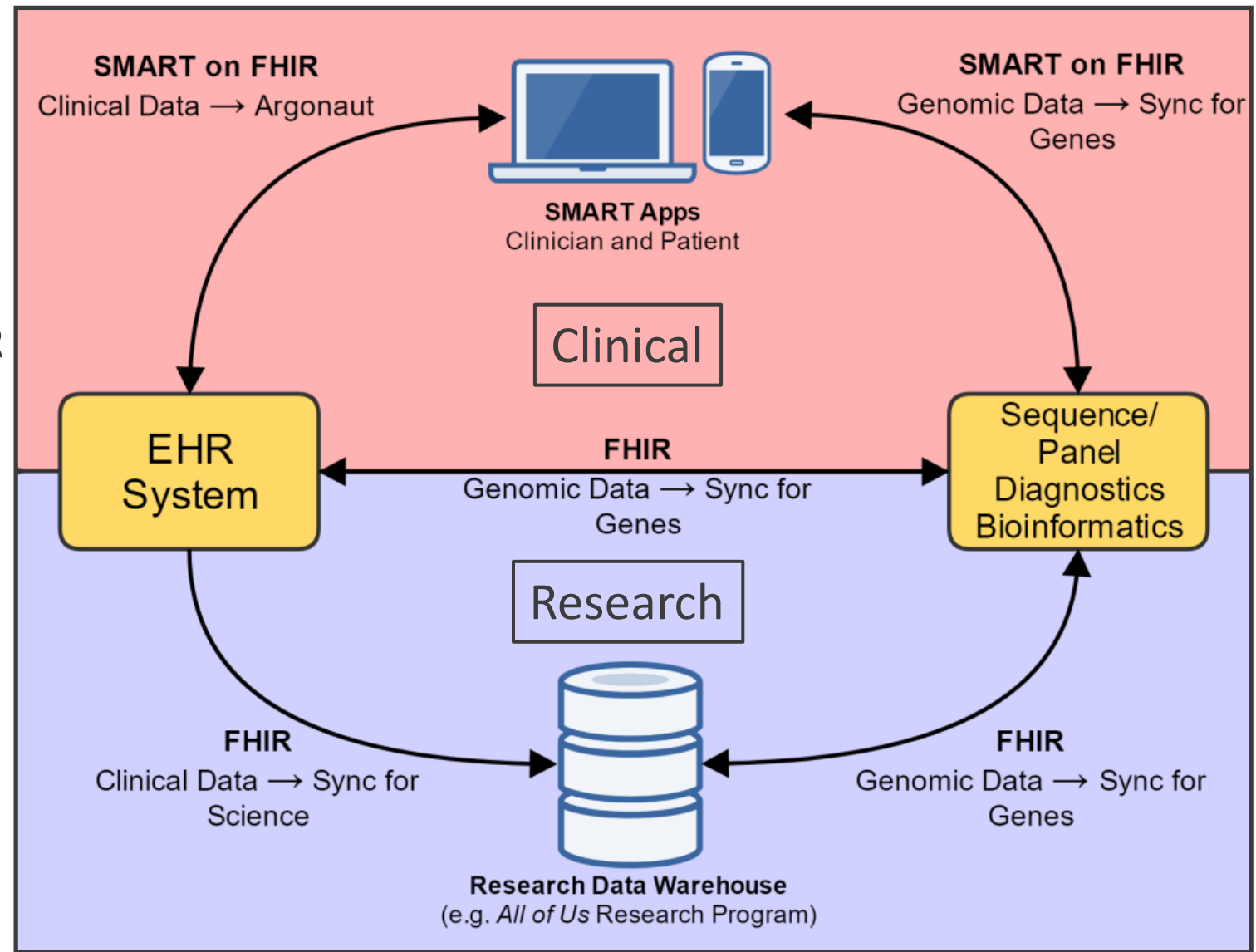
Patient Matching Algorithm
Challenge



Sync 4 Science / Sync 4 Genes

- ENABLING CLINICAL GENOMICS FOR PRECISION MEDICINE
- VIA HL7® FAST HEALTHCARE INTEROPERABILITY RESOURCES®

*Click here for the
[Sync for Genes Final Report!](#)
 (Nov2017)



Artificial Intelligence (Ai) for Health

- Collaboration with the Agency for Healthcare Research and Robert Wood Johnson Foundation
- Asked JASON to study the impact Ai can have on health and health care, specifically:
 - » How can Ai shape the future of public health, community health, and health care delivery from a personal level to a system level?
 - » Understand the *opportunities* and *considerations* that can better prepare and inform developers and policy makers and promote the general welfare of health care consumers and the public

Blog Post: <https://healthit.gov/buzz-blog/jason>

Full Report: <https://healthit.gov/jason>

SMART App Gallery and Data Sandbox

The screenshot displays the SMART App Gallery BETA interface. At the top, the header includes the SMART logo, the text 'SMART® App Gallery BETA', and navigation links for 'Add New Listing', 'Your Listings', a search bar, and a 'Login' button. The main content area is titled 'Risk Calculation'. On the left, a sidebar lists various app categories: 'Featured Apps', 'Care Coordination', 'Clinical Research', 'Data Visualization', 'Disease Management', 'Genomics', 'Medication', 'Patient Engagement', 'Population Health', and 'Risk Calculation' (which is highlighted). The main area shows two app listings. The first is 'Bilirubin Chart' by Intermountain Healthcare, described as a demonstration app for treating newborn hyperbilirubinemia, with a 'View' button. The second is 'BP Centiles v1 (Open Source)' by Boston Children's Hospital, described as a tool for calculating blood pressure percentiles, also with a 'View' button. Both listings include metadata for 'Support: Web', 'Specialties: Pediatrics', and 'Designed for: Clinicians'.


SMART® App Gallery BETA

Add New Listing Your Listings Search Login

Risk Calculation


Featured Apps

- Care Coordination
- Clinical Research
- Data Visualization
- Disease Management
- Genomics
- Medication
- Patient Engagement
- Population Health
- Risk Calculation**



Bilirubin Chart
Intermountain Healthcare
Demonstration app designed to help clinicians treat newborn hyperbilirubinemia appropriately.
View

Support: Web Specialties: Pediatrics Designed for: Clinicians



BP Centiles v1 (Open Source)
Boston Children's Hospital
Calculate a child's blood pressure percentiles, normalized by age, sex, and height.
View

Support: Web Specialties: Pediatrics, Cardiology Designed for: Clinicians

<https://apps.smarthealthit.org>

Informational Resources / Tools

**FEDERAL TRADE COMMISSION**
PROTECTING AMERICA'S CONSUMERS

Contact | Stay Connected | Privacy Policy | FTC en español

Search

ABOUT THE FTC | NEWS & EVENTS | ENFORCEMENT | POLICY | TIPS & ADVICE | I WOULD LIKE TO...

Tips & Advice » Business Center » Guidance » Mobile Health Apps Interactive Tool

Mobile Health Apps Interactive Tool



Developing a mobile health app?

Find out which federal laws you need to follow.



Produced in cooperation with the U.S. Department of Health & Human Services (HHS): the Office of the National Coordinator for Health Information Technology (ONC), the Office for Civil Rights (OCR), and the Food and Drug Administration (FDA)



TAGS: Advertising and Marketing | Health Claims | Privacy and Security | Consumer Privacy | Data Security | Tech | Health Care

Mobile Health Apps Interactive Tool

WHICH LAWS APPLY TO MY MOBILE HEALTH APP?

1. Do you create, receive, maintain, or transmit identifiable health information?

► YES

► NO



2. Are you a health care provider or health plan?

► YES

► NO



3. Do consumers need a prescription to access your app?

► YES

► NO



4. Are you developing this app on behalf of a HIPAA covered entity (such as a hospital, doctor's office, health insurer, or health plan's wellness program)?

One Stop “Shopping” for Policies



The screenshot displays the homepage of the Health IT Playbook. At the top right is a logo featuring a yellow star with a red and blue swoosh. The main heading reads "The Office of the National Coordinator for Health Information Technology" followed by "HEALTH IT PLAYBOOK" in large, bold, blue capital letters. Below this is a search bar with the placeholder text "Search the Health IT Playbook" and a magnifying glass icon. Under the search bar are four blue buttons arranged in a 2x2 grid. The top-left button is labeled "Introduction to the Health IT Playbook" with a play button icon. The top-right button is labeled "A Guide to Using the Playbook" with a clipboard icon. Below these buttons is the text "Or explore a topic area:". The bottom-left button is labeled "Electronic Health Records" with a laptop icon. The bottom-right button is labeled "Certified Health IT" with a checkmark icon.

The Office of the National Coordinator for
Health Information Technology
HEALTH IT PLAYBOOK

Search the Health IT Playbook

Introduction to the Health IT Playbook

A Guide to Using the Playbook

Or explore a topic area:

Electronic Health Records

Certified Health IT



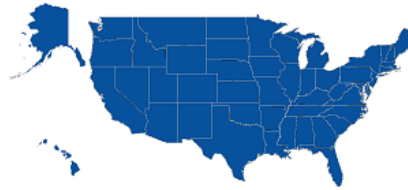
Interoperability Proving Ground (IPG)

Use the Active and Complete buttons to change the project view displayed below

Active

Complete

Click the map to see where interoperability projects are taking place



Active Projects

Add a Project

Show 25 entries

Showing 1 to 25 of 247 entries

Previous

1

2

3

4

5

...

10

Next

Export

Project Name

Project Description

Tags

Start typing to search

Start typing to search

Argonaut Phase 2 Implementation & Testing - Developing a Web Based Client

This is a personal project to test the FHIR (<http://hl7.org/fhir/index.html>) and Security standards (<http://fhir-docs.smarthealthdev.com/authorization>), that are currently being tested as part of the Argonaut Phase 2 Implementation & Testing Project (<https://github.com/argonautproject/implementation-program/wiki>). The project is currently developing a web based client to securely (via SMART OAuth2 profiles) to various FHIR servers that are being deployed by participants...

"MedMij": Personal Health Environment in The Netherlands

The Dutch Patient Association is setting up a framework of requirements for PHRs for the Dutch population. The framework includes infrastructure, interoperability standards, data formats, and judicial and financial requirements that PHRs will have to comply with to connect to health apps and EHRs in the back-end.

360X-C

360X strives to define implementation guidance to enable EHRT interoperability supporting the referral process. This guidance will provide the robust exchange of patient referral information between two providers using disparate EHRT by utilizing appropriate, standardized definitions, consistency, and clarity to make it consumable and reduce ambiguity. Finalize...

*...share, learn,
and be inspired!*

247
Shared
Projects

(as of 7/13/16)



Google

Map Legend: Active Complete



Standards Implementation & Testing Environment (SITE)

***“Learn,
Collaborate,
and Test!”***

CONSOLIDATED CDA (C-CDA) SANDBOX

This sandbox contains resources and test tools related to the Consolidated Clinical Document Architecture standard.

DIRECT TRANSPORT SANDBOX

The sandbox contains resources and test tools related to the Direct project and Direct systems registered by health IT developers that can be used by implementers to test interoperability.

PROVIDER DIRECTORY SANDBOX

This sandbox contains resources and test tools related to the IHE Healthcare Provider Directory (HPD) standard.

QUALITY REPORTING STANDARD SANDBOX

This sandbox contains resources and test tools related to the Quality Reporting Document Architecture (QRDA) Category I and QRDA Category III standards.

CLINICAL QUALITY MEASURES (CQM) SANDBOX

This sandbox contains resources and tools related to evaluating the accuracy of clinical quality measure calculations with Cypress.

PUBLIC HEALTH REPORTING SANDBOX

This sandbox contains resources and tools related to the Public Health Reporting Initiative.

LABORATORY STANDARDS SANDBOX

This sandbox contains resources and test tools related to Laboratory Standards.

ELECTRONIC PRESCRIBING SANDBOX

This sandbox contains resources and tools related to Electronic Prescribing.

SOAP TRANSPORT SANDBOX

This sandbox contains resources and tools related to SOAP Transport.



New “INFERNO” FHIR Testing Suite

INFERNO



Inferno is an open source tool that tests whether patients can access their health data through a standard interface. It makes HTTP(S) requests to test your server's conformance to authentication, authorization, and FHIR content standards and reports the results back to you.

- Open source tool (via GitHub)
- Tests conformance to SMART on FHIR requirements for;
 - app registration
 - app launch
 - authentication
- Tests conformance to the Argonaut Data Query Implementation Guide
- [Inferno Quick Start Guide](#) available on GitHub



Interoperability Standards Advisory (ISA)

Official Website of The Office of the National Coordinator for Health Information Technology (ONC)

Connect with us: [in](#) [Twitter](#) [YouTube](#) [RSS](#)

[Home](#) | [ISA 2017](#) | [ISA 2016](#) | [ISA 2015](#)

[Log in](#)

Search

Search

Interoperability Standards Advisory

2017 ISA Reference Edition

[View ISA as a Single Page](#)

Recent ISA Updates

[Introduction to the ISA](#)

[Section I: Vocabulary/Code Set/Terminology Standards and Implementation Specifications](#)

[I-A: Allergies and Intolerances
Representing Patient Allergic Reactions](#)

[Representing Patient Allergies and Intolerances; Medications](#)

[Representing Patient Allergies and](#)

Representing Patient Medications

[View](#)

[Revisions](#)



Type	Standard Implementation/Specification	Standards Process Maturity	Implementation Maturity	Adoption Level	Federally required	Cost	Test Tool Availability
Standard	RxNorm	Final	Production	●●●●●●	Yes	Free	N/A
Standard	National Drug Code (NDC)	Final	Production	●●●○○○	No		N/A
Standard	National Drug File – Reference Terminology (NDF-RT)	Final	Production	●●●○○○	No	Free	N/A
Standard	SNOMED CT®	Final	Feedback requested	Feedback Requested	No	Free	N/A
Emerging Standard	Medication Reference Terminology (MED-RT)	In Development	Pilot	●○○○○○	No	Free	N/A

Limitations, Dependencies, and Preconditions for Consideration

- The use of NDC in conjunction with RxNorm can help minimize gaps in representing medications, including compounded products, over-the-counter medications, and herbals.

Applicable Value Set(s) and Starter Set(s)

- Grouping Value Set: Medication Clinical Drug 2.16.840.1.113762.1.4.1010.4
 - Medication Clinical General Drug (2.16.840.1.113883.3.88.12.80.17)

21st Century Cures – Notice of Proposed Rule Making (NPRM)

- **ONC's Primary Landing Page:** www.HealthIT.gov/NPRM
- **Key ONC Presentations:**
 - » [API Conditions of Certification \(and more!\) \[PDF - 9.1 MB\]](#)
 - » [21st Century Cures Act: Interoperability, Information Blocking, and the ONC Health IT Certification Program Proposed Rule \(HIMSS Presentation\) \[PDF -1.9MB\]](#)

9 Fact Sheets Provided by ONC

[Implementation of Cures Act and Executive Orders \[PDF - 1.4 MB\]](#)

[Application Programming Interface \(API\) Permitted Fees \[PDF - 405 KB\]](#)

[U.S. Core Data for Interoperability \(USCDI\) \[PDF - 776 KB\]](#)

[Conditions and Maintenance of Certification Requirements \[PDF - 805 KB\]](#)

[API Certification Criterion and Associated Condition of Certification \[PDF - 1.1 MB\]](#)

[Electronic Health Information Export for Patient and Provider Access \[PDF - 1.6 MB\]](#)

[Health IT for Pediatric Care and Practice Settings \[PDF - 477 KB\]](#)

[Standards Version Advancement Process \[PDF - 442 KB\]](#)

[Information Blocking – Summaries of the 7 Exceptions \[PDF - 578 KB\]](#)

It Takes A Village...



Health IT Feedback Form

Do you wish to remain anonymous to ONC? *

- ☒ No
☐ Yes

First Name

Last Name

Email Address *

Category of Feedback: *

Category descriptions are available [here](#)

- ☐ ~~ONC Health IT Certification~~
- ☐ Information Blocking
- ☐ Interoperability
- ☐ Health IT Safety
- ☐ Usability
- ☐ Privacy and Security
- ☐ Data Breaches
- ☐ Medical Records Inquiries
- ☐ Certified Health IT Products List (CHPL)
- ☐ ONC Events, Media, and Web Inquiries
- ☐ ~~Health IT Standards~~
- ☐ Public Health
- ☐ Trusted Exchange Framework
- ☐ Other



Let's connect!

Stephen.Konya@hhs.gov
@StephenKonya



@ONC_HealthIT



@HHSOnc

HealthIT.gov

Pop-up Lunch

Connect with agency representatives over lunch at pop-up tables. Our program will resume at 1PM in this room.



MedHealth
STARTUP DAY

with the U.S. Department of Health and Human Services

Detroit-Windsor DNA

Moderator: Justin Robinson

Senior Vice President, Business Development,
Detroit Regional Partnership

Irek Kusmierczyk

Director of Partnerships, WEtech Alliance

Dr. Anne Snowden

Scientific Director and CEO, Supply Chain
Advancement Network in Health

Virginia Wilkinson

Director of Business Intelligence, Detroit Economic
Growth Corporation

Phillip Olla

CEO, Audacia Bioscience

Public-private Partnerships

Partnering with the National Institute of Health

Todd Merchak, Program Specialist, National Institute of Health Small Business Innovation Research

The National Institutes of Health



Todd Merchak
Program Manager, Small Business Programs
National Institute of Biomedical Imaging and
Bioengineering
Todd.Merchak@nih.gov



Detroit Startup Day with HHS
July 15, 2019



The National Institutes of Health

The Nation's Steward of Medical & Behavioral Research



“Science in pursuit of **fundamental knowledge** about the nature and behavior of living systems ... and the **application of that knowledge** to extend healthy life and reduce illness and disability.”



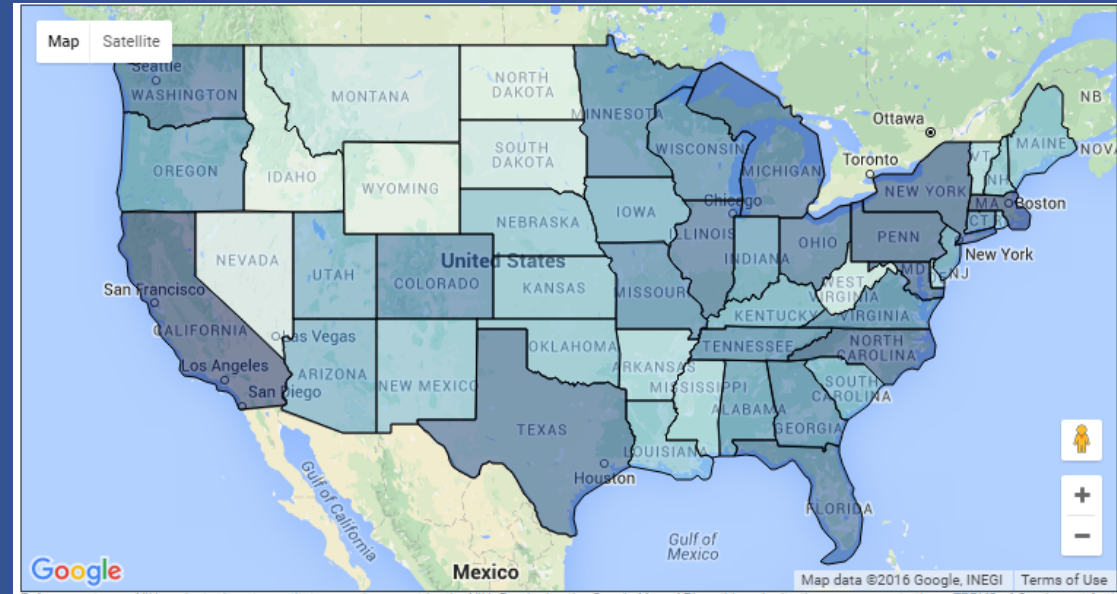
Understanding the Unique Nature of NIH



NIH **is** an institution
(Intramural Research)

- ~ 6,000 scientists

Fiscal Year 2017 Research Funding
across the United States



NIH **supports** institutions & people
(Extramural Research)

- >2,500 institutions
- >300,000 scientists & research personnel

What the NIH can offer to Biomedical Innovators



Expertise and Resources

- Product Development Support
- Clinical Trial Networks



NIH-developed technologies

- Over 1500 technologies and research tools available for licensing
- Special licensing terms for start-ups



Non-Dilutive Investment

- \$1 Billion dollars in SBIR/STTR grants for U.S.-owned small businesses
- Technical Assistance

NIH SBIR/STTR: A Multi-Phased Program

Discovery Phase I



Feasibility

Development Phase II



Full R/D

Competing Renewal Award Phase IIB

\$3M for up to 3 years

Commercialization Phase



Phase I → Phase II

Fast-Track

Direct-to-
Phase II

Concept to Clinic: Commercializing Innovation (C3i)

Goal

Provide NIH grantees with essential business tools and specialized mentoring for successful translation of biomedical technologies from lab to market

Objectives

- 1) Validate an unmet market need
- 2) Validate a viable business opportunity
- 3) Build a compelling pitch to secure support from investors and partners

Outcomes

- ✓ 37 SBIR/STTR companies and 17 R01 teams have participated over the past 4 years
- ✓ \$15M received in Phase II SBIR/STTR grants with success rate of 66%
- ✓ >\$94M raised in private capital to date
- ✓ 2 products received FDA 510(k) clearance



Facilitating Partnerships



ANGEL CAPITAL ASSOCIATION

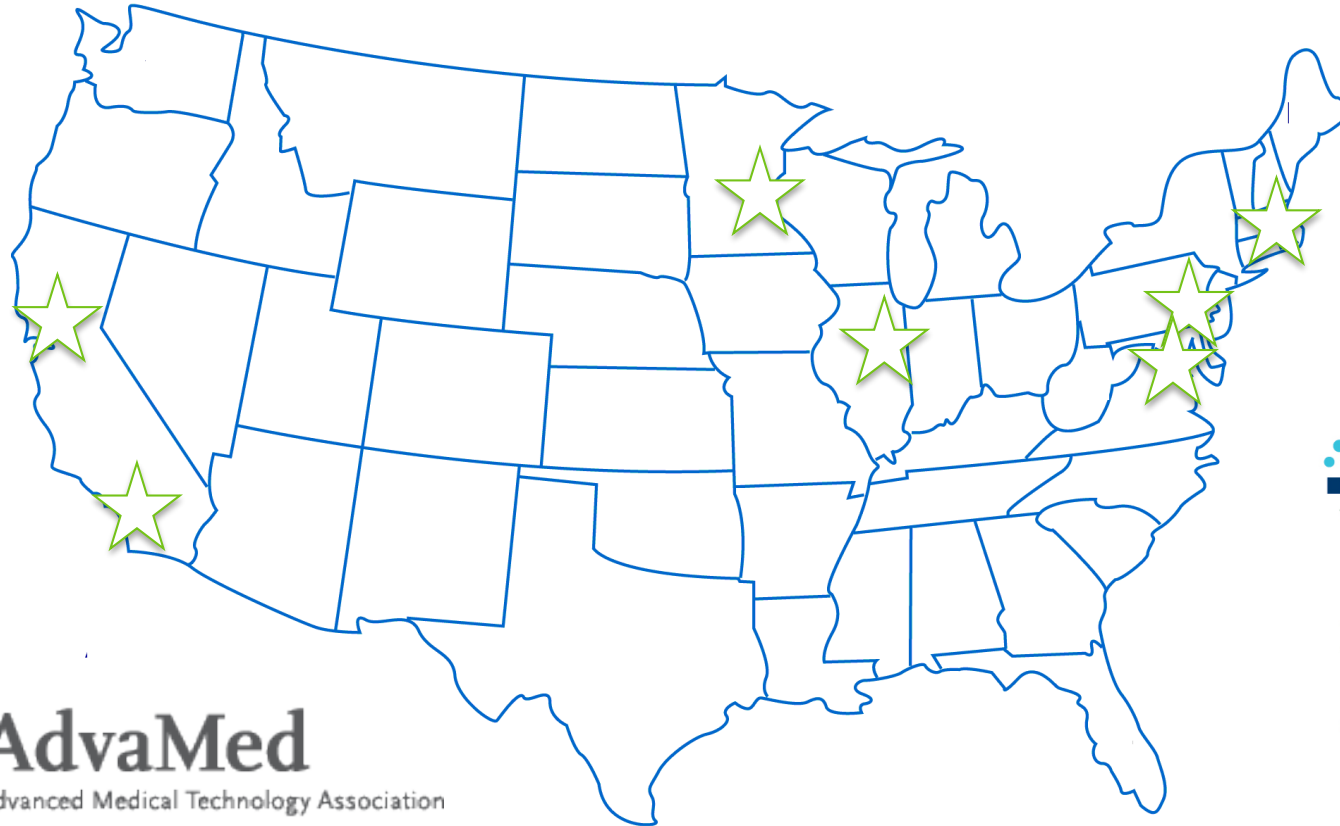


RESI

REDEFINING
EARLY STAGE
INVESTMENTS



LIFESCIENCES™
S U M M I T



**MEDTECH
INNOVATOR**



AdvaMed

Advanced Medical Technology Association



BIO

International
Convention

*The Global Event
for Biotechnology*

Research Funding

Scientific Program Areas

Division of Applied Science & Technology +

Division of Discovery Science & Technology (DDST) +

Division of Health Informatics Technologies (DHIT) +

Division of Interdisciplinary Training (DIT)

Funding

Funding Opportunities

Grant Programs & Mechanisms

Grants Process

NIH-wide and Trans-NIH Initiatives

Funding Policies

Funding Notices

Related Links

NIH Guide

NIH Parent Announcements

NIH Submission Dates

NIH RePORTER

Research Resources

NIBIB and the American Recovery and Reinvestment Act of 2009 (ARRA)

Entrepreneurial Finance for Biomedical Innovators

Share:



Overview

The National Institutes of Health (NIH) supports the development and commercialization of biomedical technologies through the Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) programs. With the goal of bringing life-saving innovations to market, NIH SBIR/STTR funding provides early-stage seed capital to US-owned small businesses. While the commercialization of biomedical technologies can require a significant amount of both time and money, rigorous financial planning can help navigate and mitigate risks for small businesses and can enhance chances of success along the pathway to market. For biomedical innovators considering funding through the NIH SBIR/STTR programs (<https://sbir.nih.gov>), it is imperative to evaluate the use of federal grant funding within the context of a broader financial plan.

Course Objectives

The purpose of this course is to present biomedical entrepreneurs with a detailed framework for building a step-wise, validated financial plan. Moving beyond the short-term perspective of immediate financing needs to a comprehensive, long-term financial plan will increase the probability of success for your venture. The primary learning objectives for this course are as follows:

- Understand the importance of financial planning for your small business
- Gain perspective on SBIR/STTR funding within the broader context of your financial plan
- Learn practical approaches to developing a long-term financial plan
- Evaluate the various sources of funding
- Examine the use of comparables in validating your financial plan

Course Materials

The course is presented in a series of five sequential videos. The video modules and course details can be found below.

+ **Module 1: Introduction to Financial Planning**

+ **Module 2: Assumptions and Personal Needs**

+ **Module 3: Building the Financial Plan**

+ **Module 4: Sources of Capital**

+ **Module 5: Exploring Comparables**

HEAL Initiative: At a glance



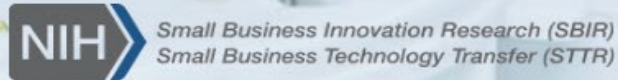
- **\$500M/year Trans - NIH effort**
 - Over \$850M to be obligated in FY2019
- **12 NIH Institute and Centers leading 26 HEAL research projects**
 - Over 20 collaborating Institutes, Centers and Offices
 - From prevention research, basic and translational research, clinical trials, to implementation science
 - Multiple projects integrating research into new settings
 - e.g. health care, criminal justice, Medicare populations etc.
- **Released 40+ funding announcements for FY2019**

Small Businesses and the HEAL Initiative: Enhancing Pain Management



NIH invites small businesses to submit research proposals on Enhancing Pain Management

- **HEAL includes set-aside funds for Small Business (SBIR/STTR) programs**
- **SBIR and STTR Omnibus/Parent Grant Solicitations**
 - **NOT-NS-19-014:** HEAL Initiative: Notice of Interest in Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) Applications Directed at Enhanced Pain Management and Improved Treatments for Opioid Misuse and Addiction
- **HEAL Enhancing Pain Management RFAs**
 - **RFA-NS-19-020:** HEAL Initiative: Optimization of Non-addictive Therapies [Small Molecules and Biologics] to Treat Pain - (U44 Clinical Trial Not Allowed)
 - **RFA-NS-19-017:** HEAL Initiative: Translational Devices to Treat Pain (U44 Clinical Trial Optional)



SBIR/STTR HOME

ABOUT
FUNDING
APPLY
REVIEW
POLICY
TECHNICAL ASSISTANCE
RESOURCES
STATISTICS AND SUCCESSES
ENGAGE AND CONNECT

New to SBIR/STTR

NIH Technical Assistance Programs

CELEBRATING
OVER 11 YEARS

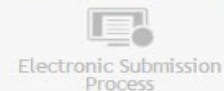
Niche Assessment
Program (NAP)

Commercialization
Accelerator Program
(CAP)

<http://sbir.nih.gov>

Email:

sbir@od.nih.gov



What are SBIR and STTR Programs?

The Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) programs, also known as America's Seed Fund, are one of the largest sources of early-stage capital for technology commercialization in the United States. These programs allow US-owned and operated small businesses to engage in federal research and development that has a strong potential for commercialization.

In Fiscal Year 2016, NIH's SBIR and STTR programs will invest over 870 million dollars into health and life science companies that are creating innovative technologies that align with NIH's mission to improve health and save lives. A key objective is to translate promising technologies to the private sector and enable life-saving innovations to reach consumer markets.

HHS SBIR/STTR COMPONENT PROGRAM LINKS

NEWS



Early Bird Deadline Rapidly Approaching!
Register today for the HHS SBIR/STTR
Conference **NEW**
August 10, 2016



The September 6th SBIR/STTR Deadline is
less than One Month Away
August 9, 2016



[@NIHsbir](https://twitter.com/NIHsbir)

Public-private Partnerships

Partnering with the International Trade Association

Murat Muftari, Senior International Trade Specialist, Department of Commerce, International Trade Administration

Our Mission



**U.S.
COMMERCIAL
SERVICE**

United States of America
Department of Commerce

Grow U.S. exports to increase U.S. jobs.



We have global **relationships** and **expertise** in
every major industry **sector**.

Leverage the strength of the U.S. government

Market access problems
Unfair contract competition
Meetings with the right partners
Getting paid



Country Commercial Guides
Your Starting Point for Global Success



EXPORTING BASICS
Episode 09: Sales Channels



You can also access self-help resources on
www.export.gov



Your **local** trade specialist can **counsel** you and
connect you to resources across the **globe**.

Supporting your
export growth every
step of the way.



A background image showing a business meeting. Several people are gathered around a table, looking at documents and a smartphone. The image is slightly blurred and has a warm, orange-toned lighting. A dark blue semi-transparent banner is at the top, and four dark blue rounded rectangular boxes are stacked vertically in the center.

Service highlight: In-country **business matchmaking** to connect you with the right **partners**.

Customized market and industry briefings

Post-meeting and follow-up strategies

Help with travel & interpreter service

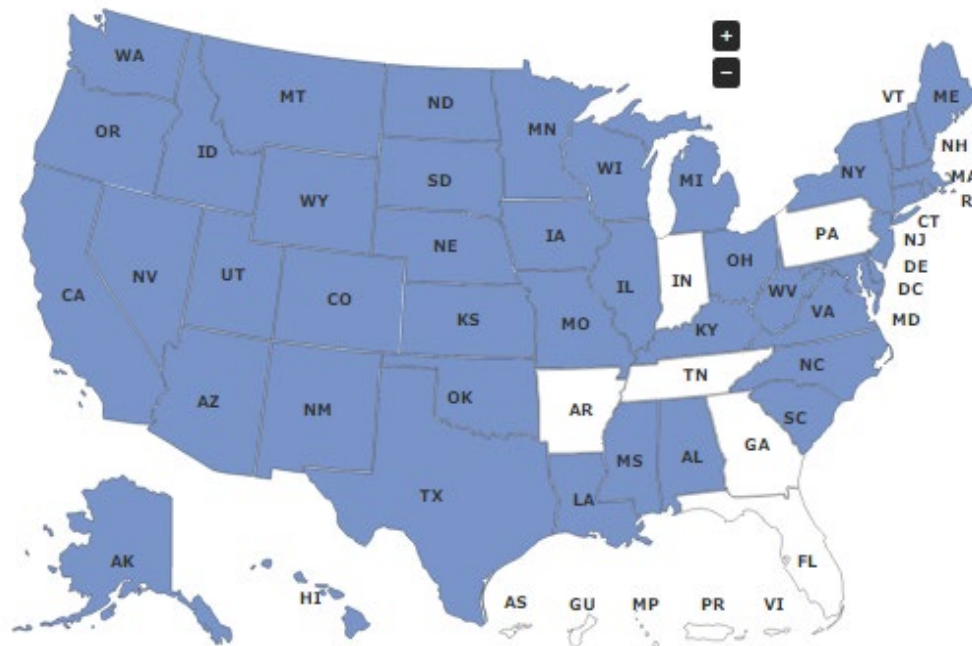
Appointments with prospective partners

STEP Program

STEP awards federal dollars to states and territories to fund eligible small business export development activities

FY 2016 Awards by State

Current STEP Awardees by State (in Blue)



STEP-supported export activities

- ✓ Participation in foreign trade missions, market sales trips, and trade shows
- ✓ Obtaining services to support foreign market entry (DOC)
- ✓ Website development to attract foreign buyers
- ✓ Design of international marketing products and campaigns

For Information:

<http://www.sba.gov/STEP>



**U.S.
COMMERCIAL
SERVICE**

United States of America
Department of Commerce

CONTACT US



Murat Muftari
Senior International Trade Specialist



(248) 296-2620



Murat.Muftari@trade.gov
www.export.gov

Public-private Partnerships

Partnering with VentureWell

Heath Naquin, Senior Global and Government Liaison Officer

Public-private Partnerships

Partnering with the Michigan Economic Development Corporation

Nadia Abunasser, Federal and Development Projects Director

Break and Transition

All attendees must exit the Garage to accommodate room transition to Bay One and Bay Two for breakout sessions.



MedHealth
STARTUP DAY

with the U.S. Department of Health and Human Services