CTSA Program Webinar

01/25/2023

Agenda

TIME	TOPIC	PRESENTER(S)
2:00 pm ET	Welcome	**Sanae ElShourbagy Ferreira, PhD, MA** *Health Specialist, Division of Clinical Innovation*
2:03 pm - 2:20 pm	NCATS & CTSA Program Updates	**Michael G Kurilla, MD, PhD** *Director, Division of Clinical Innovation*
2:20 pm – 2:40 pm	CCOS (Coordination, Communication, & Operations Support)	**Stephan Bour, PhD** *CCOS Principal Investigator*
2:40 pm – 2:55 pm	Advancing Dissemination and Implementation Sciences in CTSAs: Working Group Report	**Jane Mahoney, MD** *Working Group Co-Lead* **Tara Mehta, PhD** *Working Group Co-Lead* **Bethany Kwan, PhD** *Working Group Co-Lead* **Ana Baumann, PhD** *Working Group Co-Lead* **Andrew Quanbeck, PhD** *Working Group Co-Lead*
2:55 pm – 3:00 pm	CLIC Updates	**Deborah Ossip, PhD** *MPI, CLIC*
3:00 pm ET	Adjourn	

CLIC Center for Leading Innovation & Collaboration

CTSA Clinical & Translational Science Awards Program

In Memoriam
Ralph Sacco, MD

"Ralph had a tremendous impact on those that knew him, the University of Miami's Clinical Translational Science Institute, and the global translational science community."

Director, Multi-Principal Investigator University of Miami Clinical and Translational Sciences Institute

Chairman of Neurology

Olemberg Family Chair in Neurological Disorders

Senior Associate Dean for Clinical and Translational Science, Miller School Professor of Neurology, Epidemiology and Public Health, Human Genetics, and Neurosurgery

Executive Director of the Evelyn McKnight Brain Institute, and Chief of the Neurology Service at Jackson Memorial Hospital

National Center for Advancing Translational Sciences

CTSI MIAMI CLINICAL & TRANSLATIONAL SCIENCE INSTITUTE

In Memoriam
Susan Smyth, MD, PhD

""Susan was a remarkable leader, colleague and friend who will be deeply missed by many across our state, especially those of us fortunate enough to work with her. Her death is a great loss for UAMS, our state and all who knew her. She will be remembered not just today, not just a year from now. She will be remembered 50 years from now."

Executive Vice Chancellor and Dean of the College of Medicine, University of Arkansas for Medical Sciences

Arkansas Medical Society Distinguished Dean's Chair

Senior Associate Director for the Kentucky Center for Clinical and Translation Science

Physician, Investigator Lexington Veterans Affairs Health Care System as a physician and investigator.

American Society for Clinical Investigation, Member, Past President, Association of University Cardiologists

served on the CTSA Steering Committee

UAMS | Translational Research Institute

National Center for Advancing Translational Sciences

Translational Science 2023 Award
in honor of Rebecca (Becky) Dorothy Jackson, MD

ACTS Distinguished Educator Awards

Two awards will be presented during Translational Science 2023 to clinical and/or translational investigators who have distinguished themselves as an educator, mentor and leader, resulting in significant scientific accomplishments by the next generation of clinical and translational researchers.

This award recognizes global innovation and impact in education and mentorship for the health sciences. Students and trainees are also invited to submit nominations. The recipients of these awards will each receive a complimentary registration to Translational Science 2023 and reimbursement for up to $500 in travel expenses.

ACTS | ASSOCIATION FOR CLINICAL AND TRANSLATIONAL SCIENCE

The Rebecca Jackson Award for Outstanding Achievement in Education Innovation: Recognizes distinguished educators with significant accomplishments and widely recognized innovation and impact in health sciences education and clinical research training.

https://www.actscience.org/Translational-Science/2023-Award-Submissions

Appropriations - FY 2023

➢ **Consolidated Appropriations Act, 2023** (P.L. 117-328)
  ➢ Signed by President – 12/29/22

$ (in millions)	FY 2022	FY 2023	
NCATS	**Enacted**	**Enacted**	**Difference**
Total	**882.3**	**923.3**	**+41.0 (4.6%)**
CTSA	606.6	629.6	+23.0 (3.8%)
Non-CTSA	275.7	293.8	+18.1 (6.6%)
CAN*	Up to $60M	Up to $70M	

*All CAN projects are funded through the non-CTSA budget.

NIH National Center for Advancing Translational Sciences

2024 Steering Committee Co-Chair Designate

- **Ruth O'Hara, PhD**
- Stanford University
- UL1 Member

Incoming 2023 Steering Committee Members

Doris Rubio, PhD
University of Pittsburgh
KL2 Member

Steven Reis, MD
University of Pittsburgh
ENACT Representative

Arleen Brown, MD, PhD
UCLA
UL1 Member

Jessica Kahn, MD, MPH
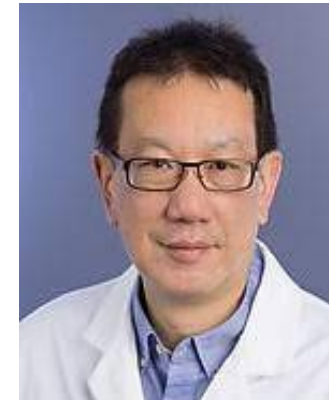University of Cincinnati
UL1 Member

Randall Urban, MD
UTMB Health
UL1 Member

Rosalind Wright, MD, MPH
Icahn School of Medicine at
Mount Sinai
UL1 Member

Kathryn Sandberg, PhD
Georgetown University
TL1 Member

Theodore Wun MD, FACP
UC Davis Health
UL1 Member

CTSA Clinical & Translational Science Awards Program

NIH National Center for Advancing Translational Sciences

Steering Committee Pod Discussions Through January 2023

- Opportunities for the CTSAs to communicate various themes and emphasis of their individual hubs

- How to communicate high level achievements from individual hubs (e.g. # K scholars with subsequent funding, high impact CTs by the consortium) and to have a generalized CTSA-wide dissemination approach

- Transitions of activities between CLIC to CCOS, with CCOS volunteering to meet with individual pods if they have questions

Full Pod Submissions here and CTSA Program Steering Committee meeting slides and minutes here

November 2022 CTSA Roundtables

Themes

The most important work our CTSA does is:

The most important work the CTSA Program as a whole does is:

Nov 4

Nov 14

Nov 17

At my institution, having a CTSA provides:

Notification of the Release of Information on the CTSA Program Websites

Date of Release	Website(s)	Description
9.2022	CTSA Program UM1 Budget Request Tables	Updated CTSA Partner List for FY22
8.2022 10.2022 12.2022	Application Information for CTSA Program Research Training and Career Development Awards	Updated FAQs
8.2022 10.2022 12.2022	Application Information for PAR-21-293 (UM1 & RC2)	Updated FAQs
11.2022	CTSA Program Funding Information	Technical Assistance Webinar Information

Reminder: Proper Use of Federal Funds

- NCATS has become aware that some meetings and events that occur in combination with CTSA functions may involve advocacy, lobbying activities and/or discussions regarding lobbying.

- NCATS is required to remind all grant recipients about 31 U.S.C. 1352, which is incorporated in the NIH Grants Policy statement under 4.1.17 Lobbying Prohibition and 4.2.6. Lobbying-Appropriation Prohibition. **It states that recipients of federal grants cannot use federal funds and/or approved voluntary committed cost share to pay the salary and/or expenses related to any activity designed to influence the enactment of legislation, appropriations, regulation, administrative action and/or other actions pending before any branch of federal, state or local government**.

- Additional information can be found at Lobbying Guidance for Recipient Activities | grants.nih.gov.

Notices of Interest

- ([NOT-OD-23-045](#)) Publication of the Revised NIH Grants Policy Statement (Rev. December 2022) for Fiscal Year 2023

- ([NOT-OD-23-047](#)) Updates to the Non-Discrimination Legal Requirements for NIH Recipients

[(NOT-OD-23-056)](#) Guidance on Salary Limitation for Grants and Cooperative Agreements FY 2023

Notices of Interest

[NOT-TR-23-005](): Notice of Termination for PAR-22-122 Limited Competition: CTSA Consortium-Wide Centers: Resources for Rapid Demonstration and Dissemination

Please direct any inquiries to the NCATS Point of Contact, Audie Atienza, Ph.D. [audie.atienza@nih.gov]().

[https://ncats.nih.gov/ctsa/funding]()

N3C PHASTR

The following questions are open for application:

Is Long COVID associated with an increased risk of mortality?

Long COVID (post-acute sequelae of COVID-19) has been associated with a variety of clinical manifestations that may produce lasting morbidity, but the impact of Long COVID on mortality risk remains

Application Deadline: 02/15/2023
Contract Amount: $50,000

Use of the N3C enclave and machine learning to create generalizable algorithms that predict patient outcomes at (a) diagnosis, and (b) time of hospitalization

Over the last three years, many studies have sought to identify risk factors for more severe SARS-CoV-2 infection and adverse outcomes of COVID-19.

Application Deadline: 02/15/2023
Contract Amount: $50,000

Does the use of UDCA (ursodeoxycholic acid) at baseline reduce the incidence and/or severity of COVID-19?

Recently published preclinical data (link below) suggest ursodeoxycholic acid (UDCA) may inhibit SARS-CoV-2 infection through downregulation of expression of the ACE2 receptor.

Application Deadline: 02/15/2023
Contract Amount: $50,000

https://covid.cd2h.org/phastr

Upcoming Dates to Remember

- **NCATS Advisory Council**

  January 26, 2023; 1-6 PM ET. [Watch Videocast](#).
- **Next CTSA Program Webinar**

  February 22, 2023; 2-3 PM ET. [Register here.](#)

- **Rare Disease Day at NIH**

  February 28, 2023; 9 AM-5 PM ET. Bethesda, MD and Videocast

  [Register here.](#)
- ***Save the Date*: CTSA Spring Group Meetings**

  April 21, 2023; Washington D.C. Capitol Hilton

NIH National Center for Advancing Translational Sciences

Introduction to CCOS and CLIC Transition Update

Clinical and Translational Science Awards Program

Coordination, Communication, & Operations Support

Stephan Bour, Ph.D.

CCOS Principal Investigator

CTSA Webinar

25 January 2023

CCOS

- CCOS is the successor of the Center for Leading Innovation and Collaboration (CLIC)

- CLIC will wind down operations gradually, as services and systems are transitioned to CCOS

- CLIC will cease operation by June 2023 at the latest

Contents

- The CCOS Mission
  - Scope
  - New Contract Mechanism
- The CCOS Team
  - Organization
  - Experience
  - Expertise
- Status of the Transition from CLIC to CCOS

The CCOS Mission

1. Bring **efficiencies** to the operation of the CTSA

2. Promote and coordinate team science and **collaboration**

3. Develop and maintain internal and external lines of **communication**

4. Articulate and codify an **Impact** Assessment Framework for the CTSA

5. Develop metrics to support NCATS' gap analyses and **strategic decision-making**

Scope of Activities

Six broad task areas synergize to promote specific program outcomes:

1. Logistical Support
2. Cross-CTSA Communication
3. Technical Development
4. Training and Support
5. Collaboration and Team Science
6. CTSA Impact Analysis

A New Contract Mechanism

- Major change in procurement: U24 <u>grant</u> to a cost reimbursement <u>contract</u>, awarded to Digital Infuzion

- Provides NCATS with more direct control over the priorities of the CCOS

- Ability to pivot nimbly and rapidly leverage the CCOS resources to support the strategic priorities for the CTSA

- Dr. Jennie Conroy (NCATS DCI) is the CCOS Contracting Officer Representative (COR) and directs the work of the CCOS prime contractor
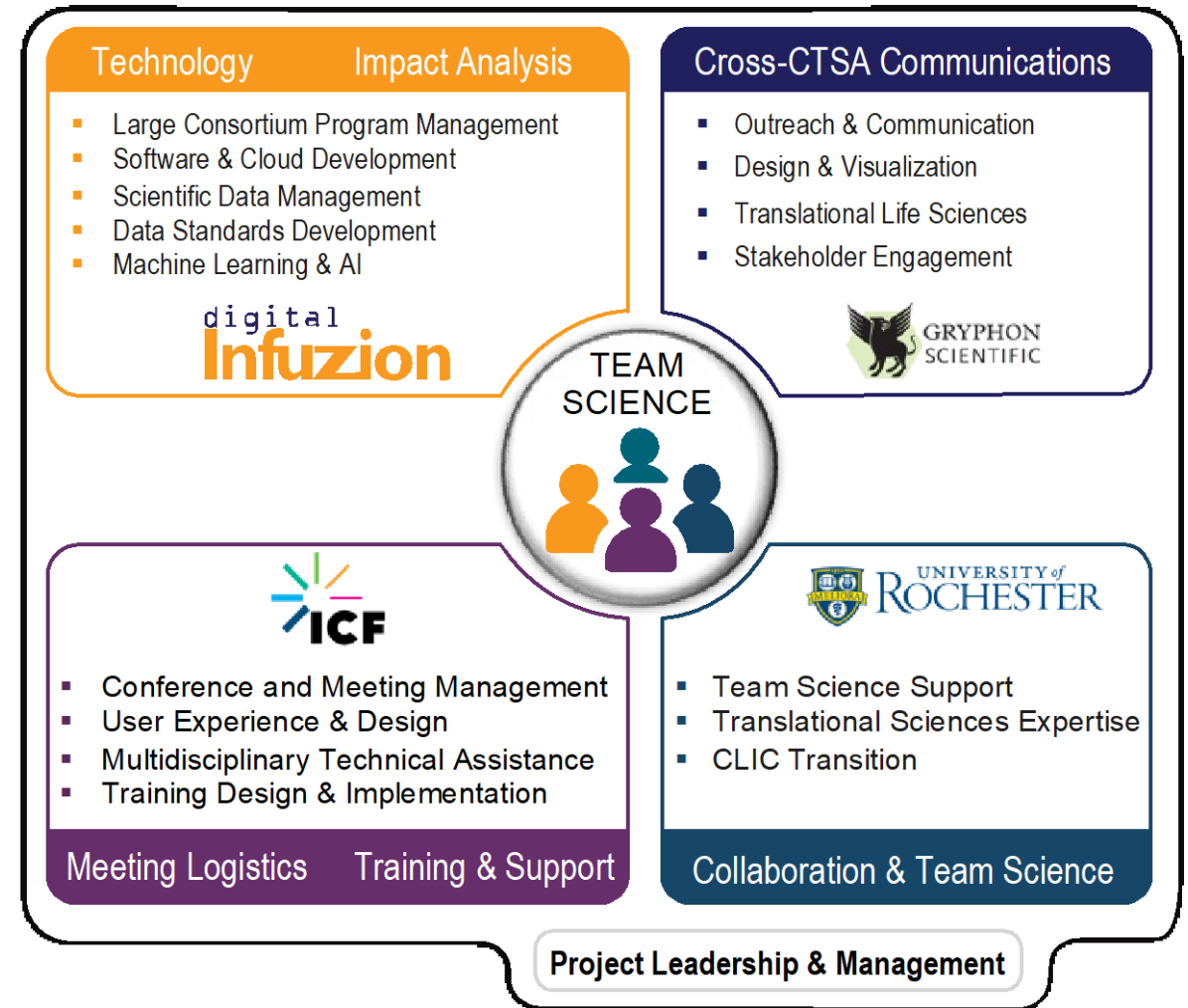
The CCOS Team

CCOS Team Partners

- Led by Digital Infuzion (DIFZ), a biomedical technology company headquartered in Rockville, MD

- Cross-disciplinary team contributed by partners ICF, Gryphon Scientific, and University of Rochester

- Each partner brings specific skills that are leveraged across all task areas as a matrixed organization

Technology   Impact Analysis
- Large Consortium Program Management
- Software & Cloud Development
- Scientific Data Management
- Data Standards Development
- Machine Learning & AI

digital **Infuzion**

Cross-CTSA Communications
- Outreach & Communication
- Design & Visualization
- Translational Life Sciences
- Stakeholder Engagement

GRYPHON SCIENTIFIC

TEAM SCIENCE

ICF
- Conference and Meeting Management
- User Experience & Design
- Multidisciplinary Technical Assistance
- Training Design & Implementation

Meeting Logistics   Training & Support

UNIVERSITY of ROCHESTER
- Team Science Support
- Translational Sciences Expertise
- CLIC Transition

Collaboration & Team Science

Project Leadership & Management

CCOS Leadership

Maria Beltre
Scrum Master

Project Leadership — digital Infuzion

Omanma Adighibe, MD, Ph.D.
Center Coordinator

Stephan Bour, PhD
Principal Investigator

Project Management — ICF

Kerry James, MPH, PMP
Project Manager

Technical Development — digital Infuzion

Monikka Ravichandran
Software Engineering Team Lead

Logistical Support — ICF

Lauren Fitzharris
Logistics Team Lead

CTSA Impact Analysis — digital Infuzion

Claudia Avalos, MD, PhD
Data & Program Metrics Analysis Team Lead

Training and Support — ICF

Luz Mercier
Training/User Experience Team Lead

Mikaela Finnegan
Communications Team Lead

Cross CTSA Communication
GRYPHON SCIENTIFIC

CCOS TEAM

Martin Zand, MD, PhD
Director of Team Science Programs

Project Management
UNIVERSITY of ROCHESTER

Jeanne Holden-Wiltse
Collaboration & Team Science Team Lead

Collaboration Team Science
UNIVERSITY of ROCHESTER
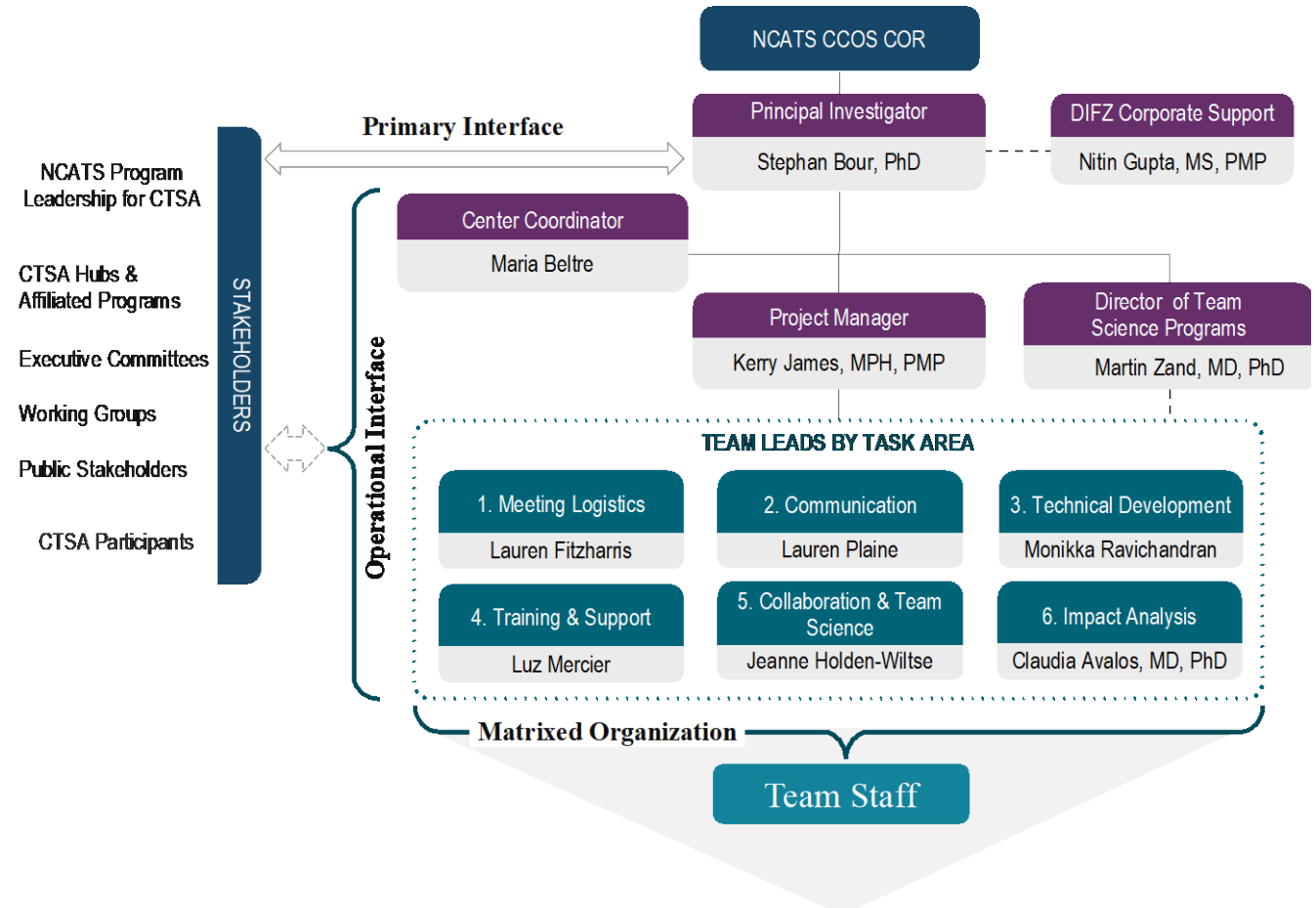
Our Organization

- Strong leadership team that coordinates directly with the CCOS COR and CTSA Program leadership

- Team Leads representing each of the Task Areas of the CCOS scope of work

- Matrixed organization that assembles inter-disciplinary teams across partner companies to deliver services and deliverables

CLIC to CCOS Transition

- Seamless and largely transparent to end users

- Clear and proactive communication

- Ongoing guidance by NCATS and close collaboration with CLIC

- All transition activities to be completed by June 2023

Transition Status By Task Area

1. Meeting Logistics
   a. Spring 2023 Meeting
2. Communications
3. Technical Systems and Web Content
4. Training/Education & Support
5. Team Science Initiatives
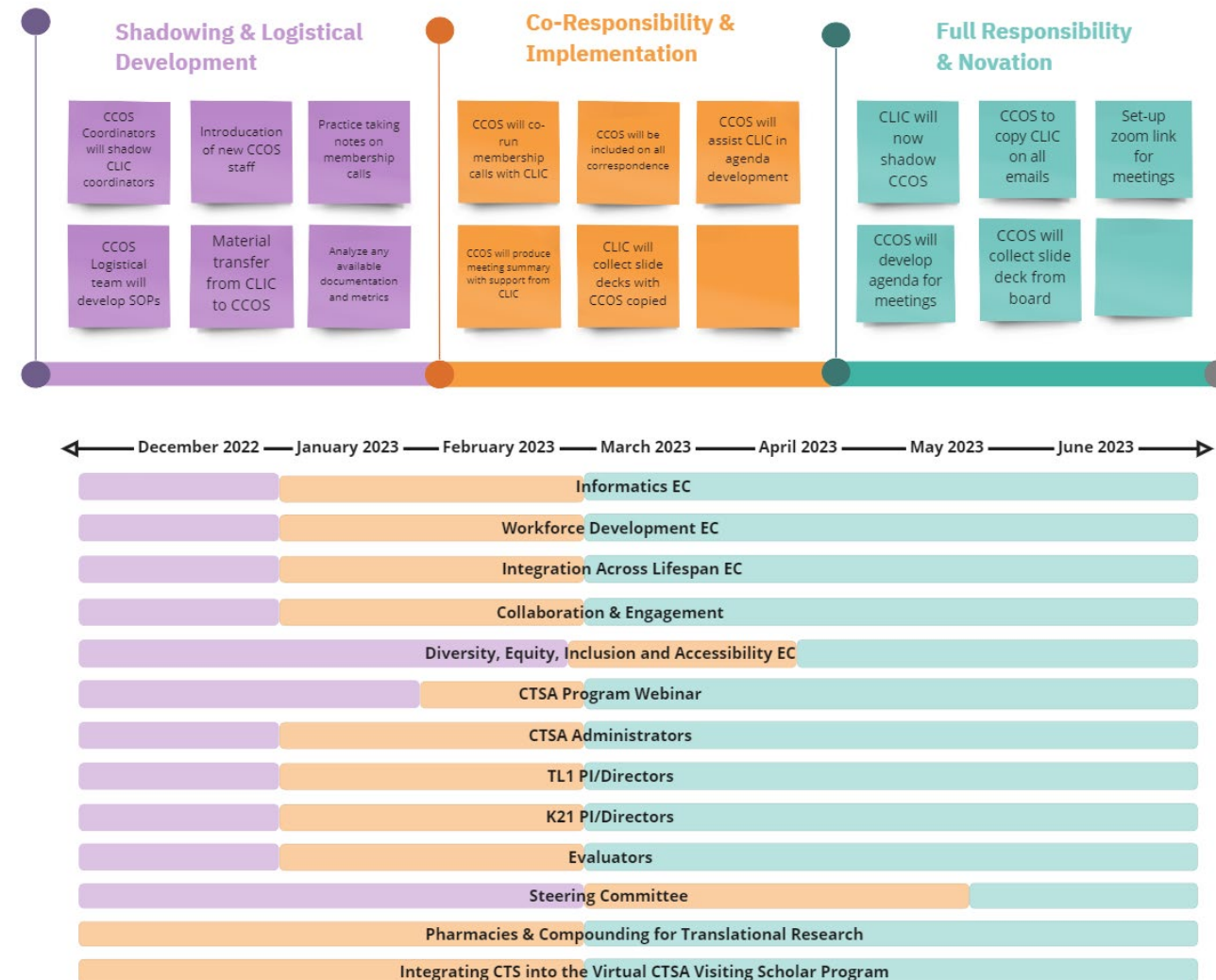6. CTSA Impact Analysis

Meeting Logistics - Status

- The transition began in December with CCOS staff shadowing CLIC coordinators in CTSA meetings.
  - Step 1: Shadowing
  - Step 2: Co-Responsibility
  - Step 3: Full Responsibility

- CCOS meeting coordinators will assume full responsibility for most CTSA groups by **March 2023.**

- CCOS will have a longer transition for the Steering Committee. We will assume full responsibility closer to **June 2023.**

CLIC to CCOS Logistics Transition Schedule

Shadowing & Logistical Development
- CCOS Coordinators will shadow CLIC coordinators
- Introduction of new CCOS staff
- Practice taking notes on membership calls
- CCOS Logistical team will develop SOPs
- Material transfer from CLIC to CCOS
- Analyze any available documentation and metrics

Co-Responsibility & Implementation
- CCOS will co-run membership calls with CLIC
- CCOS will be included on all correspondence
- CCOS will assist CLIC in agenda development
- CCOS will produce meeting summary with support from CLIC
- CLIC will collect slide decks with CCOS copied

Full Responsibility & Novation
- CLIC will now shadow CCOS
- CCOS to copy CLIC on all emails
- Set-up zoom link for meetings
- CCOS will develop agenda for meetings
- CCOS will collect slide deck from board

December 2022 — January 2023 — February 2023 — March 2023 — April 2023 — May 2023 — June 2023

- Informatics EC
- Workforce Development EC
- Integration Across Lifespan EC
- Collaboration & Engagement
- Diversity, Equity, Inclusion and Accessibility EC
- CTSA Program Webinar
- CTSA Administrators
- TL1 PI/Directors
- K21 PI/Directors
- Evaluators
- Steering Committee
- Pharmacies & Compounding for Translational Research
- Integrating CTS into the Virtual CTSA Visiting Scholar Program

Meeting Logistics – Next Steps

- Timing of new invites for CTSA groups
  - CCOS will begin sending invites in mid to late February 2023 for most meeting groups with calls scheduled for March 2023
  - CCOS will take full responsibility for all virtual meetings by June 2023
- Working with CLIC to plan for transferring meeting notes, agendas, and transcripts from CLIC's website
  - Meeting group materials will be available on the CCOS website or archived per NCATS guidance
- Planning for 2023 in-person Spring Meeting is underway
- Planning for 2023 in-person Fall Meeting to start in coming weeks

CTSA Spring 2023 Meeting - April 20-21st in Washington DC

- **Steering Committee** will meet on April 20th in the afternoon at the Washington Hilton (**same hotel as the ACTS Conference)**

- The **Enterprise Committees and Communicators** will meet on April 21st at the Capital Hilton (~2 mi from the Washington Hilton)

CTSA Meeting Groups	Meeting Time
Collaboration & Engagement EC	9-12am
Integration Across the Lifespan EC	9-12am
Workforce Development EC, KL2 PI Directors and TL1 PI Directors	9-12am
Informatics EC	1-4pm
Communicators Group	1-4pm
DEIA EC	1-4pm

Next steps

- Spring Meeting information to be posted to CLIC website
- Save-the-Date announcements (January Webinar and CTSA group calls)

Communications - Status

- CCOS Branding
  - Color palette and logo have been approved
  - Social media account branding is underway
- Social media
  - Social Media Strategy was submitted for approval
  - Plan for transitioning the CLIC Twitter to CCOS has been finalized
  - CCOS LinkedIn page is being built
- Ansible Newsletter
  - Transition plan complete
  - CCOS shadowing CLIC during Ansible development
- Developed and began executing editorial calendar
- Plan for communicating transition milestones and progress

Communication – Status (Cont')

- CCOS Website Design
  - Completed review of CLIC website content for CCOS website and began selection of content to transition vs. archive
  - Selected website domain name (ctsa-cc.org)
  - Designed sitemap for CCOS public website
  - Designed Home Page
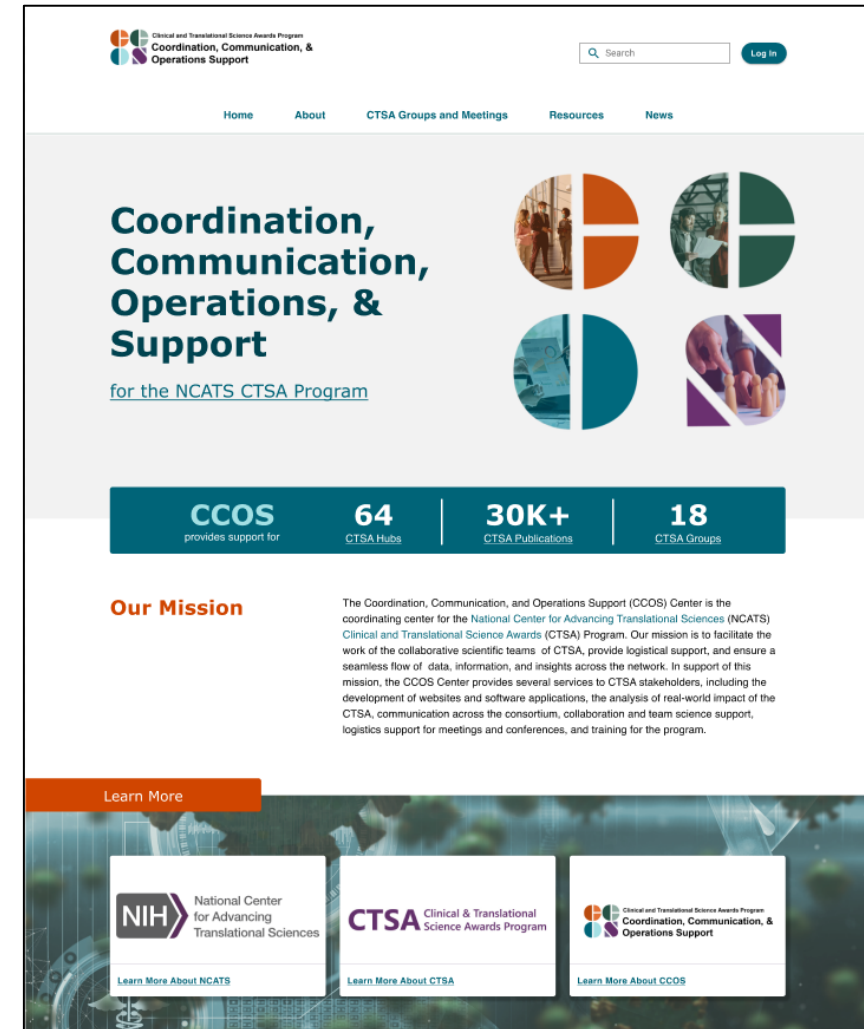
Design for CCOS Home page

Communication – Next Steps

- Continue design of CCOS website
  - Use sitemap to design additional pages of the CCOS public website
  - First priority: Working Groups pages
- Develop CCOS Communications Plan
  - Define goals and metrics for different communication channels

Design for CCOS Homepage

Technical Systems - Status

- Build CCOS technical systems in the AWS Cloud

  - Ongoing setup of CCOS AWS accounts in collaboration with the NCATS ITRB

  - Completed setup of DIFZ AWS development account for internal use

- CLIC Website

  - Maintain CLIC site at its current location until new CCOS website is ready

  - Ongoing development of the CCOS public website Home page

  - Identified CLIC content for archival vs. migration to CCOS

Technical Systems – Status (Cont')

- Google Workspaces (documents) and Discussion Forums
  - No change in technical platform (NCATS G Suite managed by NCATS ITRB)
  - CCOS team obtained G Drive account management credentials
  - Likely sunsetting of the CLIC-hosted discussion forums/message boards
- Email distribution and subscription lists
  - Migrated from the NCATS and CLIC systems
  - No expected interruption of distribution service

Technical systems – Next Steps

- Extend sign-in options using the Unified NCATS Authentication (UNA) system

- Discuss preserving existing user accounts or recreating

- Design the new CCOS Private Portal
  - New information model
  - Access permissions based on user roles
  - Set up shared drives in NCATS Google Drive
  - State-of-the-art search engine

Training & Support - Status

- Conducted discovery and requirements gathering to **inventory existing training and education assets** on the CLIC Education Clearinghouse

- Analyzed Google and Hot Jar metrics to **evaluate usage** of the Education Clearinghouse, Career Development Community, and Opportunities Board

- Determine which content should be **ported** to the new website vs. **archived**

- Implemented journey maps to **better understand** audience, needs, and areas of improvement

- Developed a wireframe for the proposed layout for the new **Education & Career Gateway** section of the CCOS website

Training & Support – Next Steps

- Improve indexing and optimize search functionality

- Promote the **DIAMOND** (Development, Implementation, and Assessment of Novel Training in Domain-based Competencies) Portal as a Career and Professional Development resource

- **Develop SOPs and other training assets** for internal CCOS team to standardize processes

Team Science Initiatives - Status

- Surveys
  - Ongoing surveys and analyses will be completed by May 2023
  - New survey approval process will be established
- REDCap
  - For surveys and team science activities, REDCap will remain in place
- Survey team focus
  - Continued support for Working Group surveys
  - Higher number of opinion, resource, and activity surveys and landscape analyses

Team Science Initiatives – Status

- Un-meetings and workshops
  - Strategic planning of **2023 un-meetings** and workshops as directed by NCATS with input from the CTSA Consortium
  - 1-2 virtual or in person un-meeting/workshops annually as directed by NCATS
- Synergy papers and special issues
  - Assessment of CTSA consortium and NCATS **priorities during transition**
  - Coordinate with the CCOS Communication team

CTSA Impact Analysis – Status

- Learned from **previous** CTSA Impact Analysis work (Common Metrics Initiative, Insights to Inspire, and data collection methods (CM-Prism))

- Evaluated the Translational Science Benefits Model (TSBM) for institutional assessment of **clinical and community health impacts** of translational science

- Delivered the draft **Impact Analysis Plan** to NCATS, an iterative and consultative approach

CTSA Impact Analysis – Next Steps

We will engage with CTSA and NCATS stakeholders to:

- Create an inventory of CTSA-funded activities
  - Research projects
  - Initiatives (SMART IRB, Trial Innovation Network, etc.)
  - Training grants, etc.

- Define metrics of importance to the CTSA Program
  - Inputs: funding and resources provided for the activities' purpose
  - Outputs: direct results produced (qualitative or quantitative)
  - Outcomes: Immediate effects of the activity
  - Impacts: resulting benefits to health, society and translational science

- Refine the draft CTSA Impact Model, definitions, and metrics
- Define a data collection and implementation process

Questions?

Advancing Dissemination and Implementation Sciences in CTSAs: Working Group Report

August 2020 – July 2022

Our overarching goal is to enhance the efficient and effective translation of research by bringing to bear in CTSAs the insights, principles, and strategies of dissemination and implementation sciences.

Presenters

Facilitator: **Jane Mahoney, MD, University of Wisconsin-Madison**

Goal 1: To provide conceptual and practical guidance that CTSA hubs across the consortium can rely on for support in D&I integration to enhance capacity for translation.

      Tara Mehta, Ph.D., University of Illinois Chicago

Goal 2: To provide practical approaches to guiding and growing the D&I workforce

  2a. A catalog/environmental scan of capacity-building and career development resources CTSAs use to guide and grow the D&I workforce.

      Bethany Kwan, Ph.D., University of Colorado Anschutz Medical Campus

  2b. Identify steps Clinical Translational Science Awards (CTSAs) can take to build capacity for translational, dissemination and implementation research and practice?

      Ana Baumann, Ph.D., University Washington, St. Louis

Goal 3: Identify strategies for translating diverse (e.g. patentable, non-patentable) innovations into practice

      Andrew Quanbeck, Ph.D., University of Wisconsin-Madison

CLIC Center for Leading Innovation & Collaboration

CTSA Clinical & Translational Science Awards Program

Goal 1: Develop a manuscript to illustrate how Dissemination & Implementation Sciences can enhance the effectiveness of CTSAs

Background

- The National Center for Advancing Translational Sciences (NCATS) defines translation as the process of turning observations into interventions that are adopted, sustained, and ultimately improve health.

- Translation must attend to research and community systems and context at multiple levels, and to key stakeholders.

- Dissemination and implementation (D&I) sciences are informed by an understanding of the critical role of people and systems in disseminating, adopting, and sustaining innovations within real-world settings.

- D&I sciences provides a set of principles that can guide the translational work of Clinical and Translational Science Award (CTSA) programs from basic research to public health.

Process

- Convened a group of experts from the domain task forces of workforce development, methods and processes, evaluation, and collaboration and engagement/D&I to describe the integration of D&I Sciences into CTSAs with specific recommendations to accomplish this goal.

- Through a series of discussions, we identified strategies often utilized across CTSAs to integrate D&I sciences into our CTSAs to enhance translation that resulted in a set of recommendations and principles

Integrating dissemination and implementation sciences within Clinical and Translational Science Award programs to advance translational research: Recommendations to national and local leaders (Mehta, T. G., Mahoney, J., Leppin, A. L., Stevens, K. R., Yousefi-Nooraie, R.....& Moore, J. B., 2021).

Integration of D&I sciences and translation are overlapping circles of D&I research and practice. D&I research is the process of understanding the most effective strategies to implement effective practices; D&I practice is the process of applying these strategies of D&I sciences to successfully implement effective practices. Red lines indicate that D&I sciences could be useful in all stages.

Fig. 1. Integrating dissemination & implementation (D&I) research and practice.

Recommendations
- Methods and processes
- Workforce Development
- Evaluation

Dissemination

- Stevens K, Tobin J, Mahoney J, Leppin A, Quanbeck A. *Making Dissemination and Implementation Research Ubiquitous in Translational Science*. Panel Session at ACTS Translational Science Conference, April 2021.

- Mahoney, J. E., Stevens, K. R., & Mehta, T. (2022). Cross walk between consensus recommendations and new NCATS PAR-21-293 requirements for D&I in CTSA hubs. Journal of Clinical and Translational Science, 6(1). https://doi.org/10.1017/cts.2022.4

Goal 2a: To provide a catalog/environmental scan of capacity-building and career development resources CTSAs use to guide and grow the D&I workforce.

CTSA Compendium of D&I Catalogs

What is the CTSA Compendium of D&I Catalogs?

A curated list of resource catalogs relevant to the conduct of Dissemination & Implementation (D&I) science, developed by the **Clinical & Translational Science Awards (CTSA) Program's "Advancing Dissemination and Implementation Sciences in CTSAs" working group.** The resource catalogs gathered here include frameworks/theories/models, methods/measures, funding resources, practice resources, training, and health equity resources, and in most cases are open-access and sponsored by academic institutions.

How can our institution use the D&I Catalogs tool?

This free resource is provided in the form of an Airtable, a publicly-viewable database that is centrally managed by the CTSA D&I working group. This table can be viewed/filtered by category, and also identifies 'featured resources' in all categories. The Airtable can be embedded within any website using simple HTML code, and will continue to display the current, actively-updated Airtable going forward (no manual updates needed as new resources are added centrally), providing your investigators with an up-to-the-moment listing of high-quality resource catalogs to help them in any stage of their D&I skill-building.

We have a D&I resource catalog! Can I add it to the D&I Catalogs tool?

Yes! Use this D&I Resource Suggestion Form to suggest a new catalog for inclusion.

How do I add the D&I Catalogs tool to my institution's website?

First, identify where on your site you'd like the D&I Catalogs tool to appear. Then, just send the introductory text and embed code contained in the Usage Guide to your website manager. For an example of how to do this, view the Colorado Clinical and Translational Sciences Institute (CCTSI) D&I webpage.

CTSA Compendium of D&I Catalogs - Airtable

Dissemination and Implementation   D&I   Clinical and Translational Science   Working Groups

CTSA

clic-ctsa.org

CTSA Compendium of D&I Catalo

CTSA Compendium of

What is the CTSA Compendium of D&I Catalogs?

A curated list of resource catalogs relevant to the conduct of Dissemination & (CTSA) Program's **"Advancing Dissemination and Implementation Scie** frameworks/theories/models, methods/measures, funding resources, practic sponsored by academic institutions.

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CTSA Compendium of D&I Catalogs - Airtable

Dissemination and Implementation | D&I | Clinical and Translational Science | Working Groups

CTSA Compendium of D&I Catalogs: Resource Suggestion Form

The "Advancing Dissemination & Implementation (D&I) Sciences in CTSAs" Working Group recognizes the need for a centralized, readily accessible repository for resources to guide capacity building and application of D&I science methods in CTSAs. Please use this form to suggest new resources to include in the CTSA Compendium of D&I Catalogs, which is a central hub for sharing D&I resource cataloging efforts.

Submissions sent thru this form will be reviewed by the D&I CTSA Repository Subgroup and added to the D&I Catalogs tool as appropriate. If the subgroup has questions about your suggested resource, we will contact you via email. Note that resources submitted for inclusion should be catalogs rather than single resources, and should be intended for an academic research audience. For this purpose, a 'catalog' includes resources with the following characteristics:

1) contains multiple resources that are systematically organized;
2) is actively maintained and up-to-date;
3) is open-access; and
4) is curated/sponsored by academic and non-profit organizations with expertise in D&I.

Questions about this form? Email lindsay.lennox@cuanschutz.edu.

Your Name

Short answer text

Short answer

Center for Leading Innovation & Collaboration

clic-ctsa.org

CTSA Clinical & Translational Science Awards Program

CTS

CTSA Compendium of D&I Catalogs
Usage Guide

What is the CTSA Compendium of D&I Catalogs?

A curated list of resource catalogs relevant to the conduct of Dissemination & Implementation (D&I) science, developed by the **Clinical & Translational Science Awards (CTSA) Program's "Advancing Dissemination and Implementation Sciences in CTSAs" working group**. The resource catalogs gathered here include frameworks/theories/models, methods/measures, funding resources, practice resources, training, and health equity resources, and in most cases are open-access and sponsored by academic institutions.

How can our institution use the D&I Catalogs tool?

This free resource is provided in the form of an Airtable, a publicly-viewable database that is centrally managed by the CTSA D&I working group. This table can be viewed/filtered by category, and also identifies 'featured resources' in all categories. **The Airtable can be embedded within any website using simple HTML code**, and will continue to display the current, actively-updated Airtable going forward (no manual updates needed as new resources are added centrally), providing your investigators with an up-to-the-moment listing of high-quality resource catalogs to help them in any stage of their D&I skill-building.

We have a D&I resource catalog! Can I add it to the D&I Catalogs tool?

Yes! Use this D&I Resource Suggestion Form to suggest a new catalog for inclusion.

How do I add the D&I Catalogs tool to my institution's website?

First, identify where on your site you'd like the D&I Catalogs tool to appear. Then, just send the introductory text and embed code on the following page to your website manager. See image at right for an example of the embedded Airtable.

Figure: example of the D&I Catalogs text and Airtable embedded in a local CTSA institution website (click image to view website).
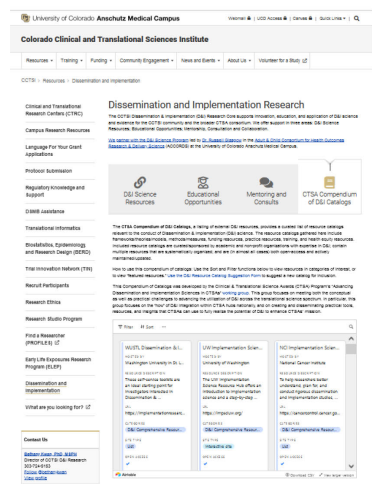
CTSA Compendium of D&I Catalogs
Usage Guide

Introductory Text - *please include the text below, either in full or displayed using a 'read more' button, where you embed the D&I Catalogs tool:*

The **CTSA Compendium of D&I Catalogs** provides a curated list of resource catalogs relevant to the conduct of Dissemination & Implementation (D&I) science. The resource catalogs gathered here include frameworks/theories/models, methods/measures, funding resources, practice resources, training, and health equity resources. Included resource catalogs are curated/sponsored by academic and non-profit organizations with expertise in D&I; contain multiple resources that are systematically organized; and are (in almost all cases) both open-access and actively maintained/updated.

How to use the D&I Catalogs tool: Use the Sort and Filter functions below to view resources in categories of interest, or to view "featured resources." Use this D&I Resource Suggestion Form to suggest a new catalog for inclusion.

This resource was developed by the Clinical & Translational Science Awards (CTSA) Program's "Advancing Dissemination and Implementation Sciences in CTSAs" working group. This group focuses on meeting both the conceptual as well as practical challenges to advancing the utilization of D&I across the translational science spectrum. In particular, this group focuses on the "how" of D&I integration within CTSA hubs nationally, and on creating and disseminating practical tools, resources, and insights that CTSAs can use to fully realize the potential of D&I to enhance CTSAs' mission.

Embed Code - *use this code to embed the Airtable directly into your institutional website:*

```
<iframe class="airtable-embed" src="https://airtable.com/embed/shrNMQsn5TR6Ssfhw?
backgroundColor=gray&viewControls=on" frameborder="0" onmousewheel="" width="100%"
height="533" style="background: transparent; border: 1px solid #ccc;"></iframe>
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CTSA Compendium of D&I Catalogs - Airtable

Dissemination and Implementation | D&I | Clinical and Translational Science | Working Groups

CTSA Compendium of D&I Catalogs – Early Adopter Experience Survey

Approach

- Identified a group of eight "early adopters" from the D&I Working Group who were willing to implement the Compendium on their institutional websites, and provided this group with the Usage Guide in October 2022

- Surveyed this group in December 2022 to learn about their experiences

Results

- Of 6 survey responders, 4 had implemented the Compendium on at least one institutional website. All 4 implementers described the implementation process as 'easy'.

- 100% of responders said the dynamically-updated aspect of the Compendium was 'valuable' or 'very valuable'.

- 100% of responders said this resource was worth the effort needed to implement on their institutional websites.

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Goal 2b: What steps can Clinical Translational Science Awards (CTSAs) take to build capacity for translational, dissemination and implementation research and practice?

- The CTSAs can play a leading role in advancing these fields by developing and leveraging infrastructure and research that advance broad understanding of how best to bridge the research to practice gap to improve health outcomes.

- Understanding TDI competencies would help us develop training strategies and tools
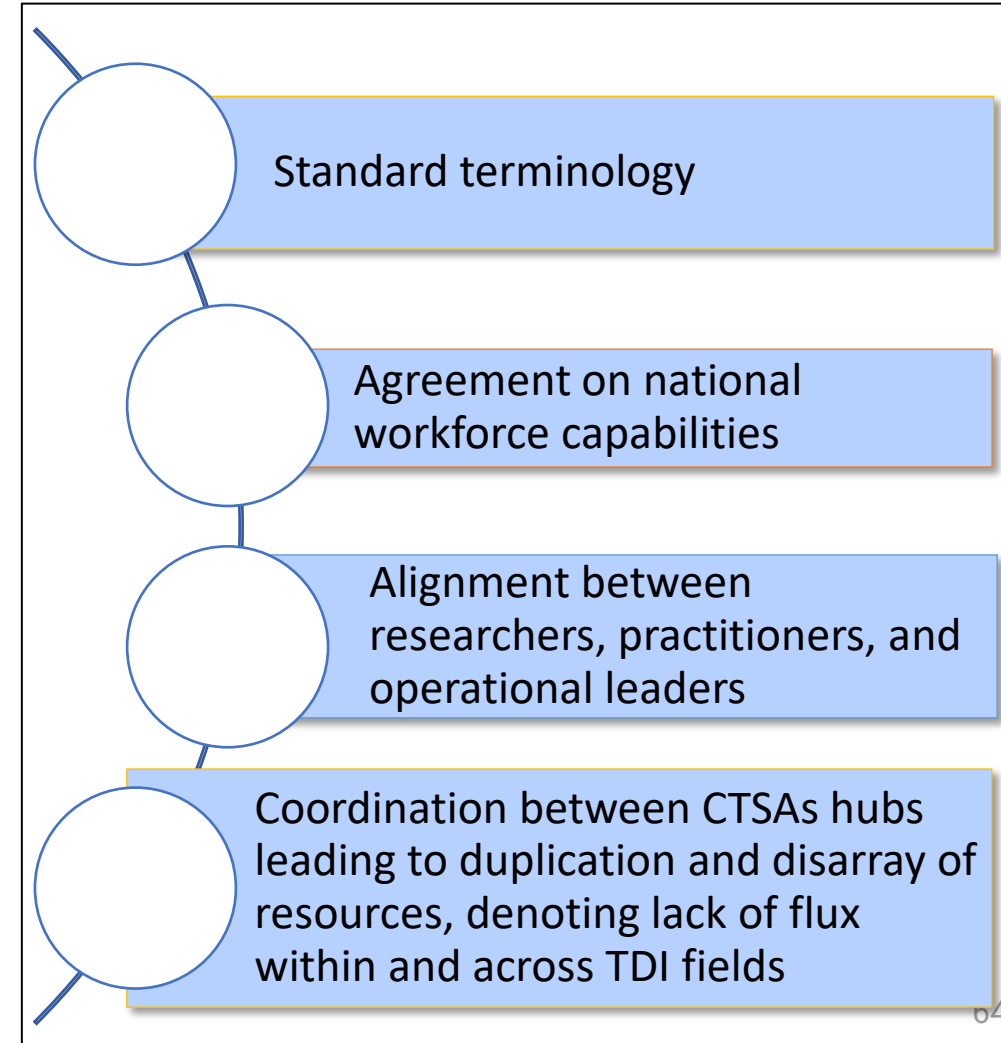
Methods

- Narrative review of the literature on training programs focused on D&I capacity building.

- Snowball citation.

- Results: We compiled 36 studies.

Results

- Most studies about capacity building are from the U.S., Canada, and the U.K.

- Not all trainings explicitly defined training goals and/or guiding frameworks that informed their training programs.

- Competencies are bundled in "D&I"; no training focused on translational science.

- Most trainings focused on researchers or practitioners with very few focusing on both.

- Length of available training varies (semester, 2 years).

- Trainings varied in terms of target audience (graduate students, junior researchers, implementation practitioners) with few trainings aimed at mixed audiences.

- Competencies about how to achieve equity were absent.

- Competencies varied in terms of knowledge (e.g., knowledge about the field), skills (e.g., collaboration and teamwork), grant writing and management (e.g., planning and project management), and attitude (e.g., having trust).

- Lack of:

  Standard terminology

  Agreement on national workforce capabilities

  Alignment between researchers, practitioners, and operational leaders

  Coordination between CTSAs hubs leading to duplication and disarray of resources, denoting lack of flux within and across TDI fields

Goal 3: Exploring CTSA strategies for commercializing non-patentable health innovations

Purpose:

- Identify the most promising and effective approaches CTSA hubs use to support commercialization and business development around non-patentable research products (e.g., behavioral interventions, digital health apps)

- We conducted an environmental scan of the CTSA landscape consisting of structured interviews of key stakeholders within D&I programs at CTSA hubs (n=16 interviews, 26% response rate) and their university-associated technology transfer and commercialization offices (n=13 interviews, 23% response rate)

- Respondents represented 19 states and 24 institutions nationwide

Interviewees Represented
- 1 Interviewee
- 2 Interviewees
- 4 Interviewees
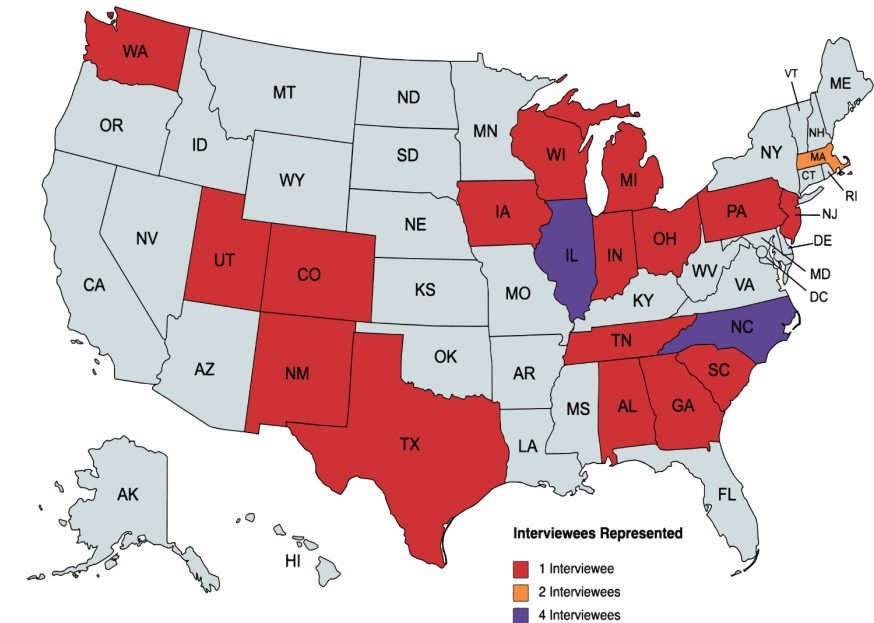
Results

Key barriers identified:

- Lack of funding;

- Slow translation period;

- Lack of support personnel;

- Lack of faculty knowledge of commercialization;

- Difficulty identifying industry partnerships; and

- Lack of faculty support resulting from a lack of compensation and tenure track requirements.

Promising practices identified:

- Providing educational programs on intellectual property, D&I, and commercialization motivates faculty engagement;

- Marketing support services and funding opportunities are key to spreading understanding of commercialization opportunities; and

- Increasing support staff of non-patentable innovations in D&I and Tech Transfer offices may decrease time for translation processes.

Dissemination & Next steps

- Poster presentation at ACTS annual research conference (April, 2022):

  Quanbeck, A., Saha-Muldowney, M., Mahoney, J., Garza-Hennessy, R., Meline, R., & Hirschfield, S. (2022). 382 Strategies for commercializing non-patentable innovations developed at CTSA hubs. *Journal of Clinical and Translational Science*, *6*(s1), 72-72.

- Final Project Report: Commercializing non-patentable innovations at CTSA hubs and universities' associated technology transfer offices (UW-Madison)

- We are currently converting the final project report into a peer-reviewed journal article for submission to JCTS (spring 2023)

Next steps for the D&I Working Group

- Community of Practice meets monthly to share best practices in application of D&I within CTSA's to enhance translational science.
  - 64 universities (many associated with CTSA hubs) engage in monthly Community of Practice teleconference
  - Led by:
    - K. Stevens Univ Texas Health Sciences Center San Antonio
    - Reza Yousefi-Nooraie, Univ of Rochester
    - Jonathan Tobin, Rockefeller Univ
- Plan to submit new WG application in 2023
- To get involved: Contact Reza Yousefi-Nooraie
  - Reza_Yousefi-nooraie@URMC.Rochester.edu

CLIC Updates

Deborah Ossip, PhD
MPI CLIC

Themed Issue Call for Manuscripts

Advancing Translational Science through Real-World Data and Real-World Evidence
Goal is to assemble a set of manuscripts that highlight the translation of RWD from a range of sources into RWE that can enhance the full translational science continuum
Submissions due January 31, 2023

Innovations for Enhancing the Informativeness and Quality of Clinical Trials
This themed issue of JCTS is expected to address broad issues related to improving the informativeness and quality of clinical trials.
Submissions due January 31, 2023

Decentralized research: realizing the promise of virtual clinical trials NEW
This themed issue of JCTS will cover the current state of knowledge around decentralized trials, disseminate the innovations and approaches that are being successfully deployed, and will highlight the regulatory, ethical, and methods developments needed to accelerate the migration of research from the hallowed halls of healthcare into the homes of patients and their families.
Submission due March 30, 2023.

Well-Being in Clinical and Translational Science
The themed issue seeks to provide a venue for identifying and improving health and well-being concerns across different stages of the translational science workforce.
Submission due April 1, 2023.

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Reminders

- **The next scheduled CTSA Program Webinar:**
  - **Date: February 22, 2023**
  - **Time:** 2:00-3:00pm Eastern Time.
  - **New Series Registration Link (July 2022 – June 2023)** https://rochester.zoom.us/webinar/register/WN_JrgtrbvmSZmbURZTyN5Yog

- **Group coordinator:**
  - ctsa_program_webinar@clic-ctsa.org

- **CTSA Program Webinar meeting archives/information:**
  - https://clic-ctsa.org/groups/ctsa-program-group

CLIC/NCATS Communication Channels

Sharing Content: CLIC Website

- ❖ News (Consortium News & Mike's Blog): clic-ctsa.org/news
- ❖ Events: clic-ctsa.org/events
- ❖ Education & Career Development Gateway: https://clic-ctsa.org/education-careers
  - ▪ Education Clearinghouse: clic-ctsa.org/education
  - ▪ Opportunities Board: https://clic-ctsa.org/opportunities-board
  - ▪ Diamond: https://clic-ctsa.org/diamond
- ❖ Funding opportunities (RFAs):
  - ▪ Synergy Papers: https://clic-ctsa.org/collaboration/clic-synergy-papers
  - ▪ Un-Meeting https://clic-ctsa.org/collaboration/clic-un-meetings

Twitter

- ❖ NCATS: twitter.com/ncats_nih_gov
- ❖ CLIC: twitter.com/CLIC_CTSA
- ❖ Hashtag: #CTSAProgram

CLIC Contact Us

- ❖ Have a question and not sure where to direct it? clic-ctsa.org/contact

Newsletters

- ❖ CTSA Ansible: Subscribe Here
- ❖ CLIC News Roundup: Subscribe Here
- ❖ NCATS e-Newsletter: ncats.nih.gov/enews

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CTSA Program Initiative Channels

ACT Network
❖ Website: http://www.actnetwork.us/National
❖ Subscribe to newsletter: https://bit.ly/2HQGsM5

IREx
❖ Website: https://www.irbexchange.org
❖ Subscribe to newsletter: https://bit.ly/2TtQG7b

National Center for Data to Health (CD2H)
❖ Website: https://ctsa.ncats.nih.gov/cd2h/
❖ To Join: N3C & CD2H Login/Registration

Recruitment Innovation Center (RIC)
❖ Website: https://trialinnovationnetwork.org/recruitment-innovation-center
❖ Subscribe to newsletter: https://bit.ly/2OpEDHc

SMART IRB
❖ Website: https://smartirb.org
❖ Subscribe to newsletter: https://bit.ly/2JFbiK3

Trial Innovation Network (TIN)
❖ Website: https://trialinnovationnetwork.org
❖ Subscribe to newsletter: https://bit.ly/2TXHQDZ

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