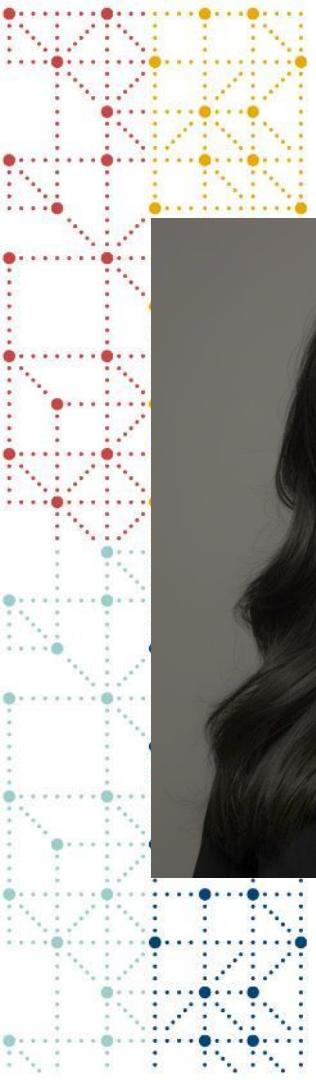


# CDISC Toolkit for Academic Professionals

Yen Phan/ Lecturer

Date: 21 November 2025





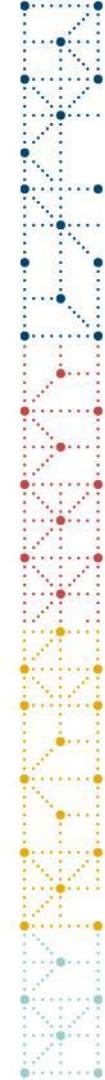
# Meet the Speaker

Yen Phan

**Title:** Lecturer

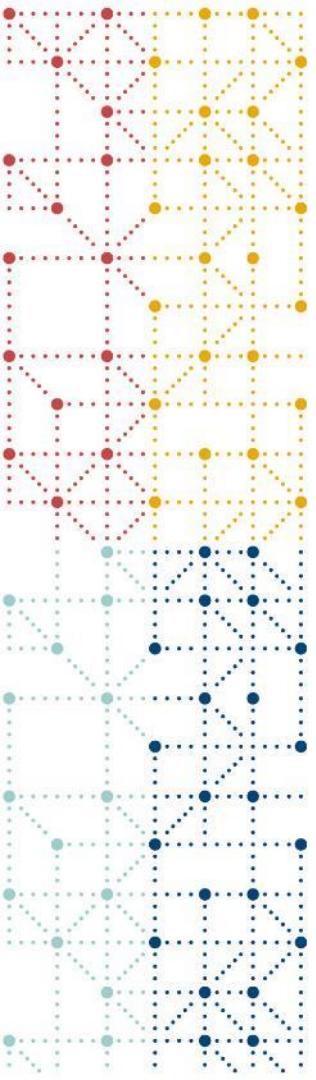
**Organization:** Technological University Dublin

Yen is a science lecturer at Technological University Dublin and a founder of CodLad, a consulting firm dedicated to advancing data integrity and compliance through the implementation of CDISC standards in clinical trials. Her work bridges academia and industry, focusing on educating future data professionals and promoting regulatory readiness in academic research environments.



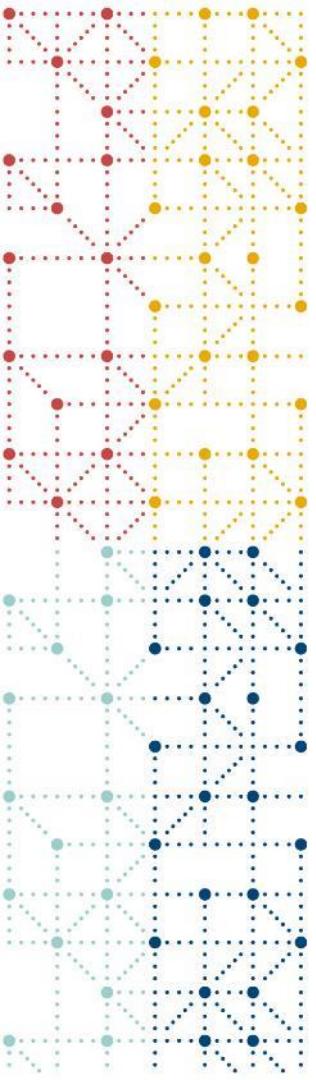
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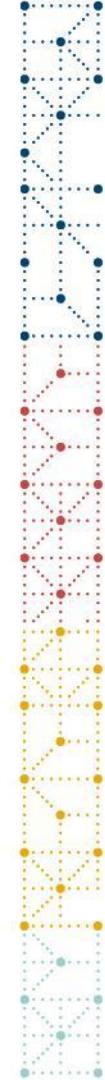
# Agenda

1. Project Background and Purpose
2. Toolkit Components
3. Evaluation Tools and Key Outcomes
4. Challenges and Lessons
5. Sustainability Strategy and Scalability Potential



# Project Background and Purpose

*Addressing the Academic Gap in CDISC Training*

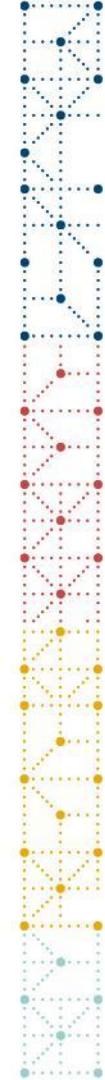


## Background:

- CDISC standards are essential in clinical research but largely absent in academic programs.
- Graduates lack readiness to handle regulatory-compliant data upon entering the workforce.
- Industry spends time and resources training new hires on CDISC standards.

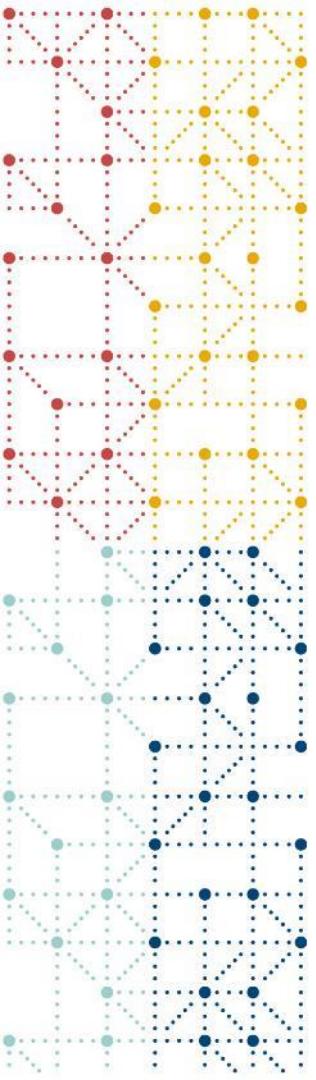
## Implications:

- Slower onboarding into clinical trial operations.
- Reduced research efficiency and potential non-compliance with regulators.
- Limited participation in multi-center, data-standardized collaborations.



## Project Purpose:

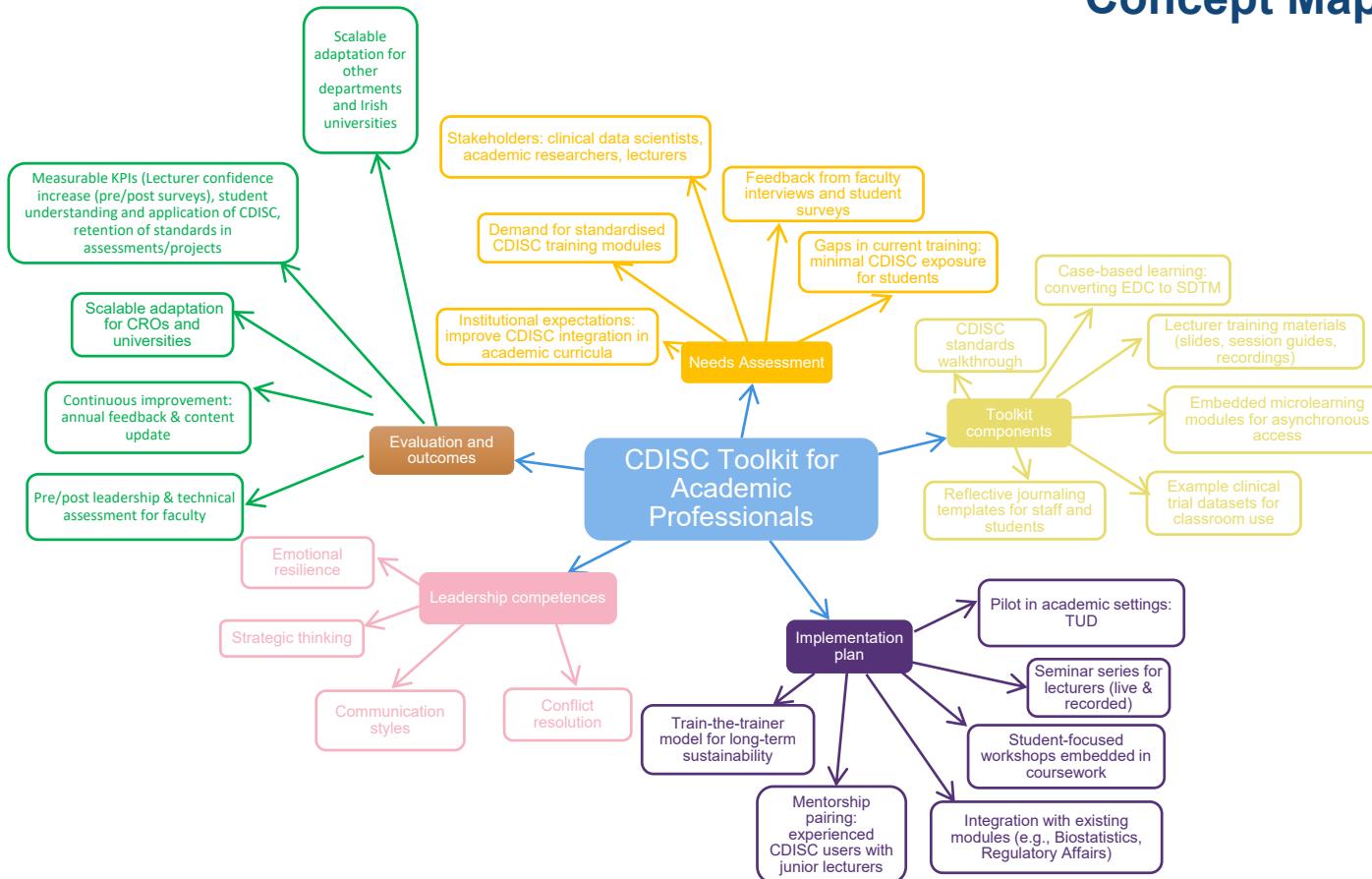
- Bridge the gap by developing a CDISC Toolkit for faculty training and curriculum integration.
- Pilot the toolkit at Technological University Dublin.
- Create scalable, evidence-based academic resources to embed CDISC standards into education.



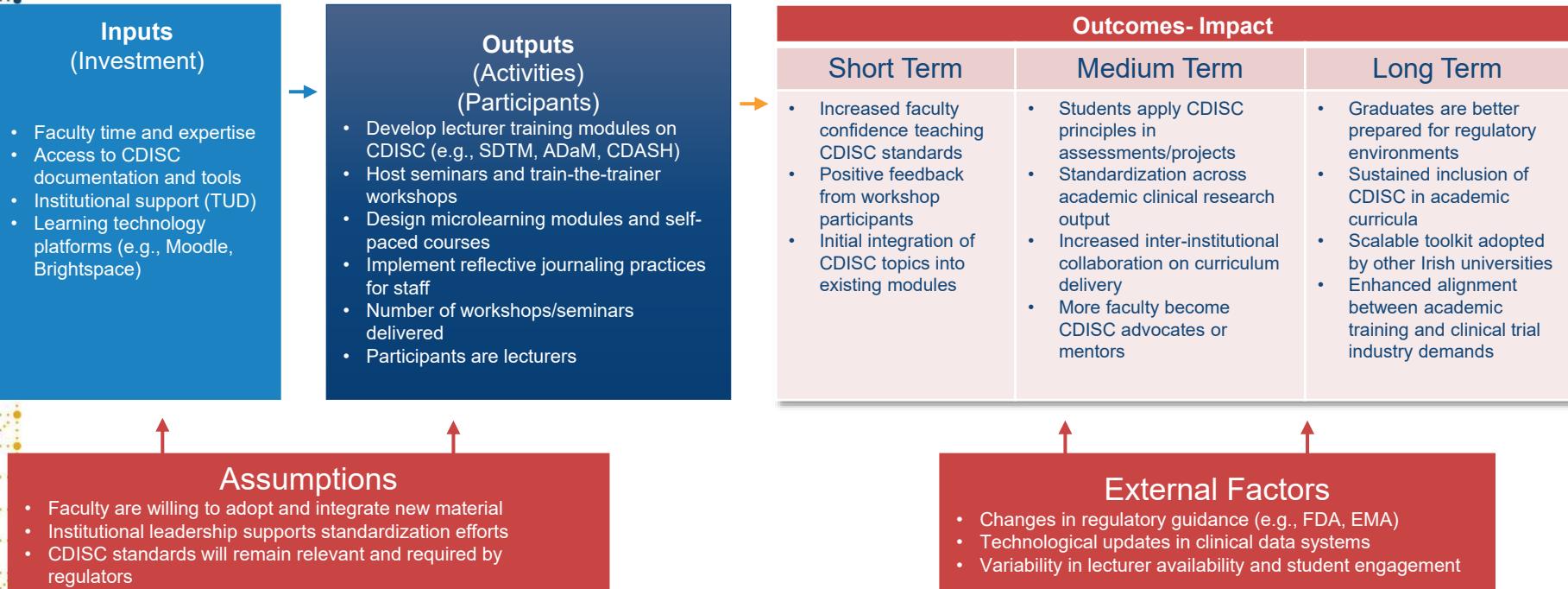
## Toolkit Components

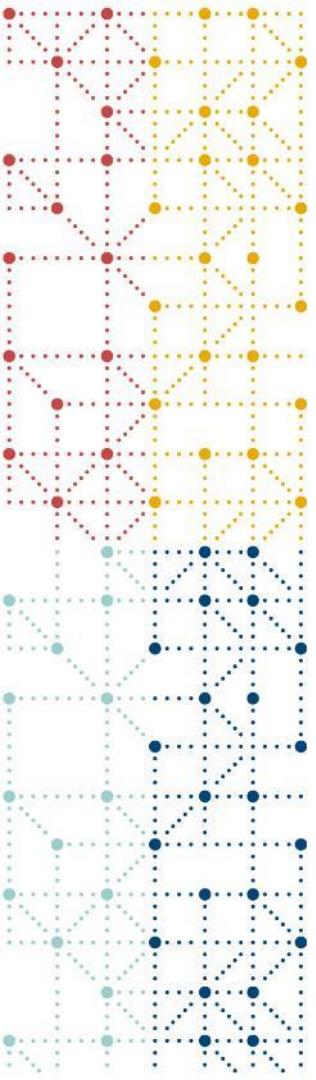
*Concept Maps, Logic Models, Modular Seminars and Practical Tools*

# Concept Map



# Logic Model





# Evaluation Tools and Key Outcomes

*Assessing Faculty Knowledge, Confidence, and Integration Readiness*

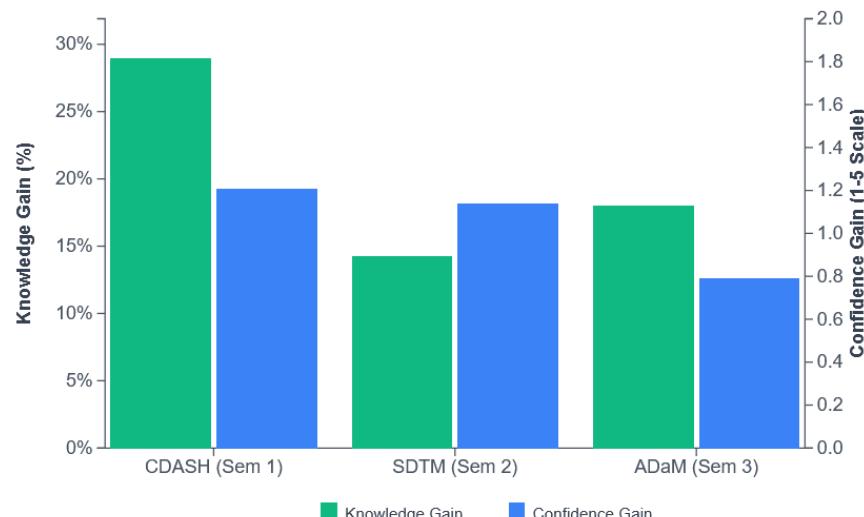
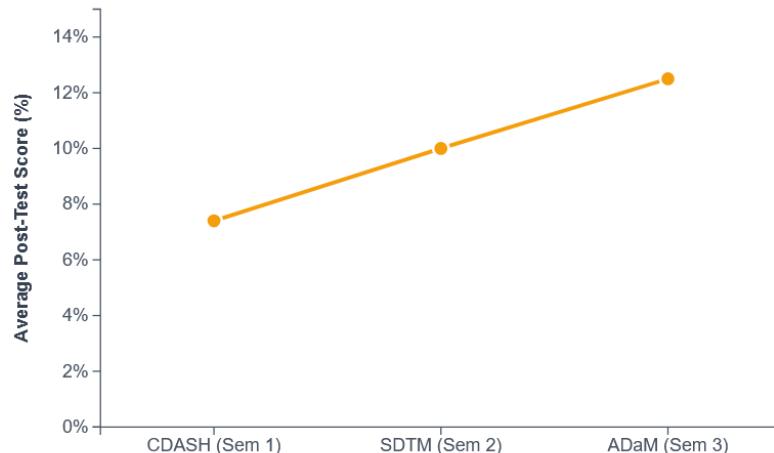
# Evaluation Form

<p><b>CDSC Toolkit Evaluation Form</b>  <b>Technological University Dublin</b></p> <p>Participant's role: _____ Campus: _____</p> <p>Date: _____</p> <p>Session Title: _____</p> <p><b>Section 1: Knowledge Assessment</b>  Please answer the following multiple-choice questions. Choose the best answer for each.</p> <p>1. The primary source of the Data Statistician Model (SDTM) is:</p> <ol style="list-style-type: none"> <li>Stat and clinical</li> <li>Building the structure of collected clinical trial data</li> <li>Concrete study results for application</li> <li>Medical and clinical</li> </ol> <p>2. The Analysis Data Model (ADaM) is most often used for:</p> <ol style="list-style-type: none"> <li>Create statistical analysis datasets from collected data</li> <li>by creating statistical analysis</li> <li>Format patient medical histories</li> <li>Product marketing</li> </ol> <p>3. The CDISC standard for clinical research is:</p> <ol style="list-style-type: none"> <li>DATA standard for clinical data collection</li> <li>Post-doc, statistical medicine</li> <li>Medical and clinical</li> <li>Medical coding systems</li> </ol> <p>4. Which regulatory agency requires CDISC standards for electronic submissions?</p> <ol style="list-style-type: none"> <li>EMA</li> <li>FDA</li> <li>ICH</li> <li>WHO</li> </ol>	 <p>TECHNICAL  UNIVERSITY  DUBLIN  TECHNICAL  UNIVERSITY  DUBLIN</p>
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- Section 1: Knowledge Assessment
  - Section 2: Confidence Rating Scale
  - Section 3: Qualitative Feedback

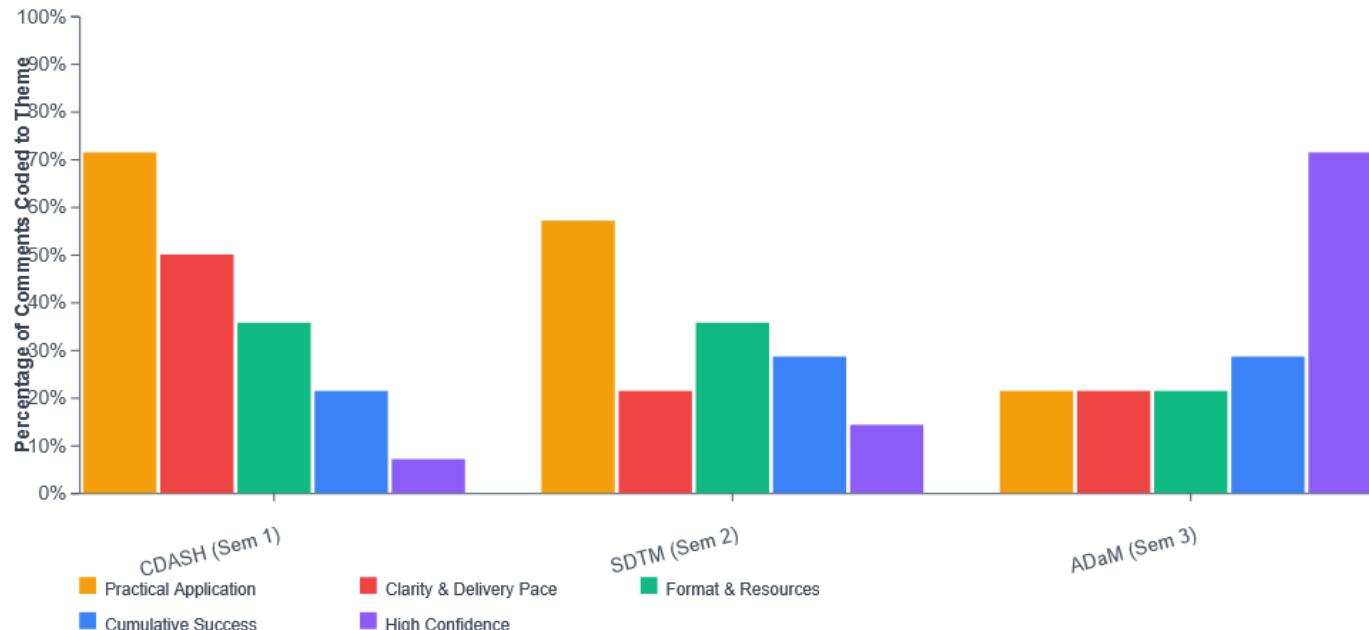
# Outcome

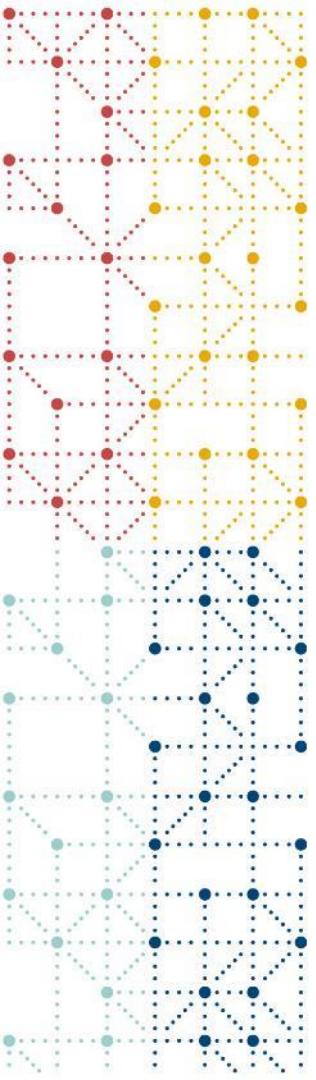
- Section 1: Knowledge Assessment & Section 2: Confidence Rating Scale



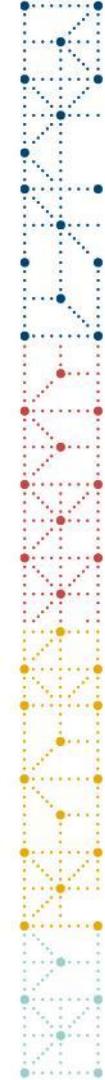
# Outcome

- Section 3: Qualitative Feedback





# Challenges and Lessons

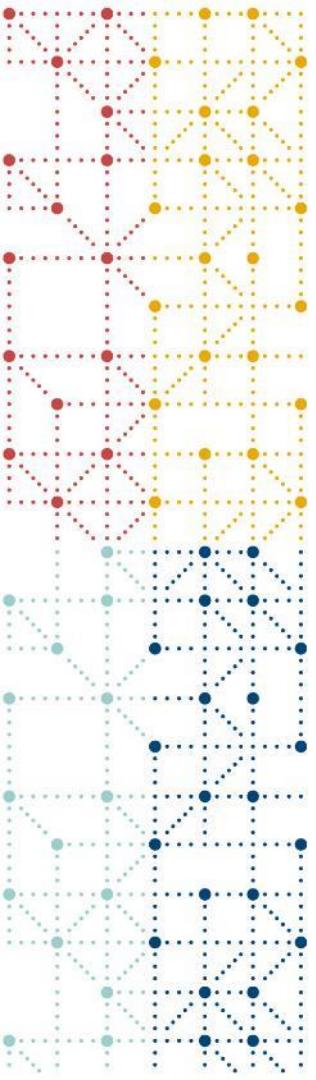


## Implementation Challenges:

- Some faculty members were unfamiliar with SAS export dataset formats.
- Not enough practices
- Overlaps occurred between seminar times and faculty teaching schedules.

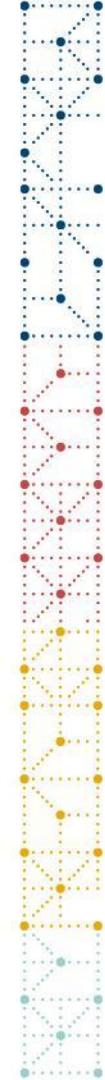
## Lessons Learned:

- Faculty expressed interest in additional hands-on sessions to reinforce CDISC application and retention.
- The planned 4<sup>th</sup> seminar faced low availability among participants due to time constraints.



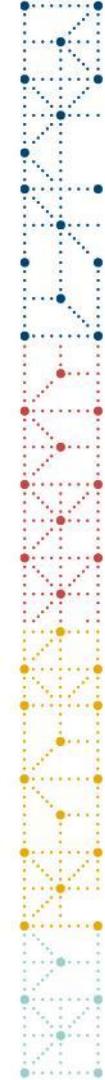
# Sustainability Strategy and Scalability Potential

*Toward Institutional Adoption and Global Academic Impact*



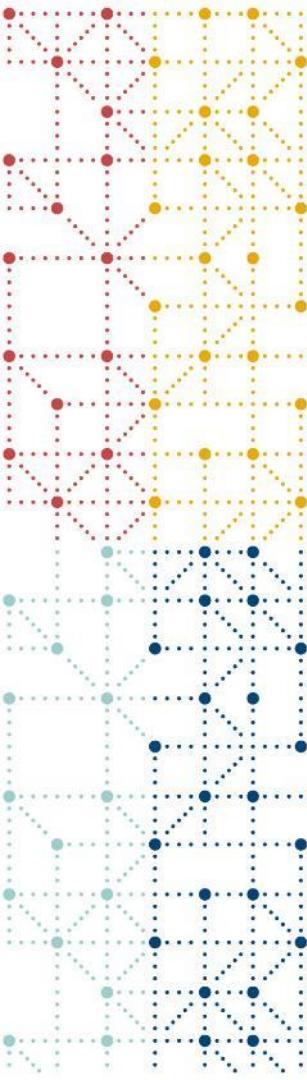
## Institutional Sustainability:

- *Curriculum integration*: formalize the CDISC content by transitioning from optional seminars to mandatory course modules within BSc/MSc programs (e.g., Clinical Data Science, Biomedical Science).
- *Faculty training pipeline*: establish a "**CDISC Champion**" mentorship program using the successful pilot faculty to onboard new lecturers annually, ensuring knowledge retention.
- *Persistent resource platform*: digitize the toolkit into an evergreen, modular repository (e.g., institutional learning management system) to facilitate easy access, version control, and resource maintenance.



## Scalability & Global Impact:

- *Formal train-the-trainer (TTT) model:* relaunch the 4th seminar as a Certified TTT Workshop focused on pedagogy and toolkit deployment, generating certified external faculty capable of replicating the training.
- *Modular toolkit architecture:* package CDASH, SDTM, and ADaM into self-contained, adaptable learning units that can be inserted into diverse academic curricula across different institutions.
- *Strategic academic partnerships:* leverage the pilot success to seed adoption across the Irish University Sector (IUS) and establish international partnerships with EU/US/Asia clinical research programs, supported by CDISC.
- *Measure institutional readiness:* develop a checklist for partner institutions to assess their capacity for CDISC integration, ensuring successful rollout.



Thank You!

