

# PATTERN.

## Empowering Higher Education Institutions by trainings for researchers on Open and RRI practices

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### METHODOLOGY

**01**  
Consolidation of knowledge

**02**  
Developing PATTERN Training Activities and Platform

**03**  
Testing PATTERN Training Modules

**04**  
Evidence for Policy Development

#### 8 TRAINING MODULES

- Open Access
- FAIR Data Management
- Citizen Science
- Research Integrity
- Gender, non-discrimination and inclusion in research
- Dissemination and Exploitation of results
- Science Communication
- Management and Leadership

### IN A NUTSHELL

PATTERN aims at promoting the practice of Open and Responsible Research and Innovation by developing and piloting training activities for researchers at all stages of their careers.

**8** transferable skills on Open Responsible Research and Innovation

**14** Higher Education Institutions testing PATTERN training

**8** training modules

**1** innovative PATTERN platform

**+100** training activities

### TARGETS

**Researchers**  
Who will benefit from the trainings

**Higher Education Institutions**  
Who is responsible for researchers' trainings

**Civil society**  
Who will interact with researchers trained through PATTERN

**Policymakers**  
Who will influence the trainings organization in HEIs

### Strengths in existing training

- Diverse training materials (e.g. various formats and media)
- Interactivity and knowledge exchange opportunities
- Orientation towards practice (e.g. step-by-step guidance, easily accessible tools and resources, realistic case studies, reflection questions, etc.)
- Inclusivity (e.g. meeting the needs of communities and underrepresented social groups/minorities, multiple languages, balanced gender portrayal, etc.)
- Clear structure (e.g. easy navigation/logical progression through content)
- Clear and engaging language
- Ease of implementation and adaptation (e.g. licences that allow open access and content adaptation, modular lesson packages, etc.)
- Addressing knowledge gaps and emerging issues

### Gaps and opportunities

- Multilingualism, creation of training courses that use local languages
- Lack of advanced level trainings
- Defining the needs of learners at different career stages
- Defining maturity models specific to each topic
- Certification and accreditation
- Intersectionality between training topics

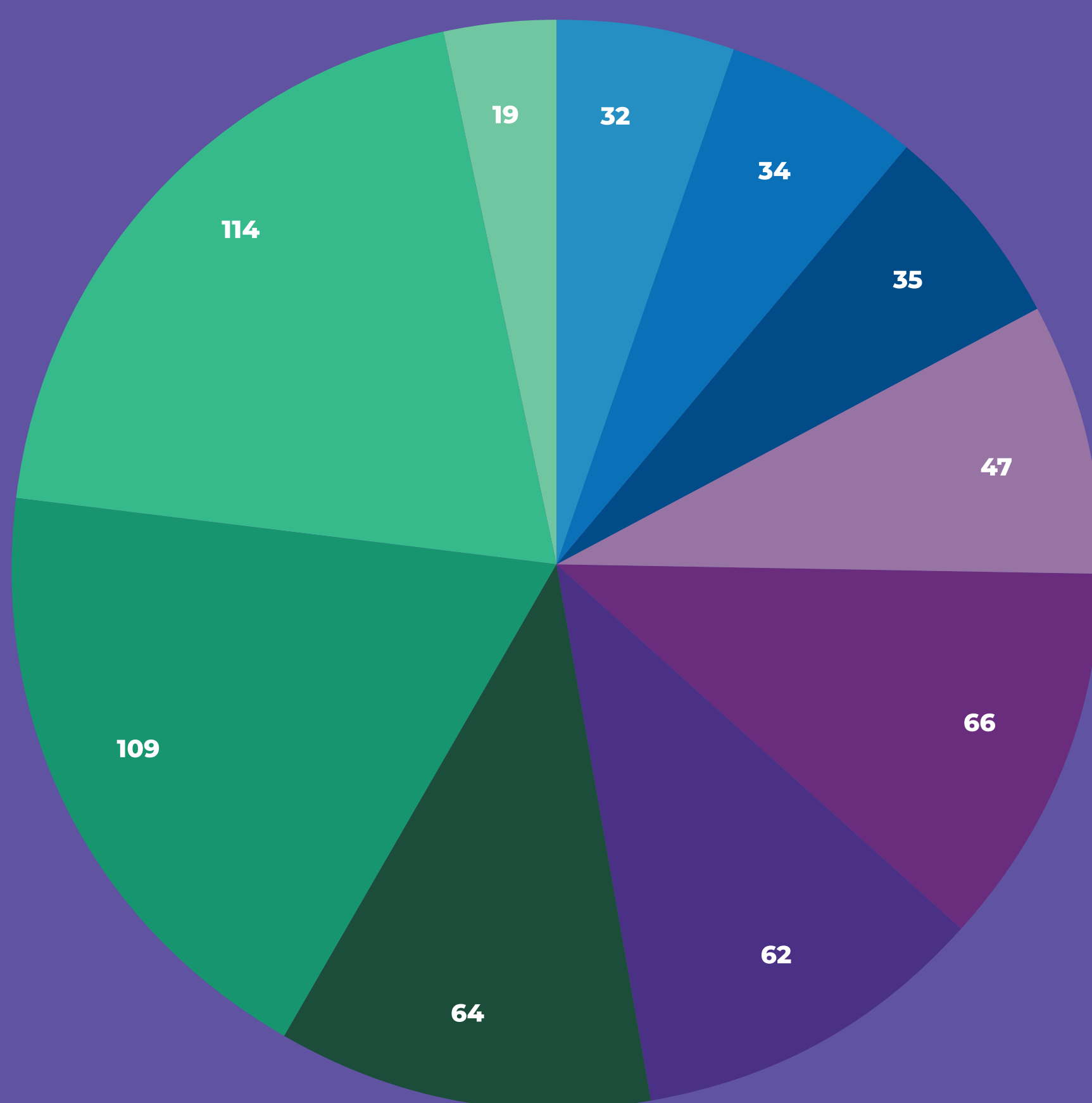
### Aims while developing training within Pattern

- Learner-centric** approaches: Interactivity, knowledge exchange opportunities, building supportive communities, and customised learning paths and a variety of learning formats.
- Integration across disciplines**, multidisciplinary and interdisciplinarity
- Repurposing** of training resources and **alignment** with the existing needs and training frameworks in RPOs
- 'Learn by doing' and 'Problem based learning', with trainees working on problems or data that interests them results in good engagement. Similarly, tangible examples are key.
- Integrating theory** into practice for a richer training experience.
- 'Train-the-Trainer' courses paying special attention to pedagogy, with comprehensive supporting materials that allow for local adaptation.

### Methodology

#### 1. Consolidation of knowledge:

Through collective knowledge gathering in the Pattern consortium, desk research, and a survey, PATTERN has mapped over 500 training resources covering Open Access; FAIR Data Management; Citizen Science; Research Integrity; Gender, non-discrimination and inclusion in research; Dissemination and Exploitation of Results; Science Communication and Management and Leadership



Total resources mapped: 571

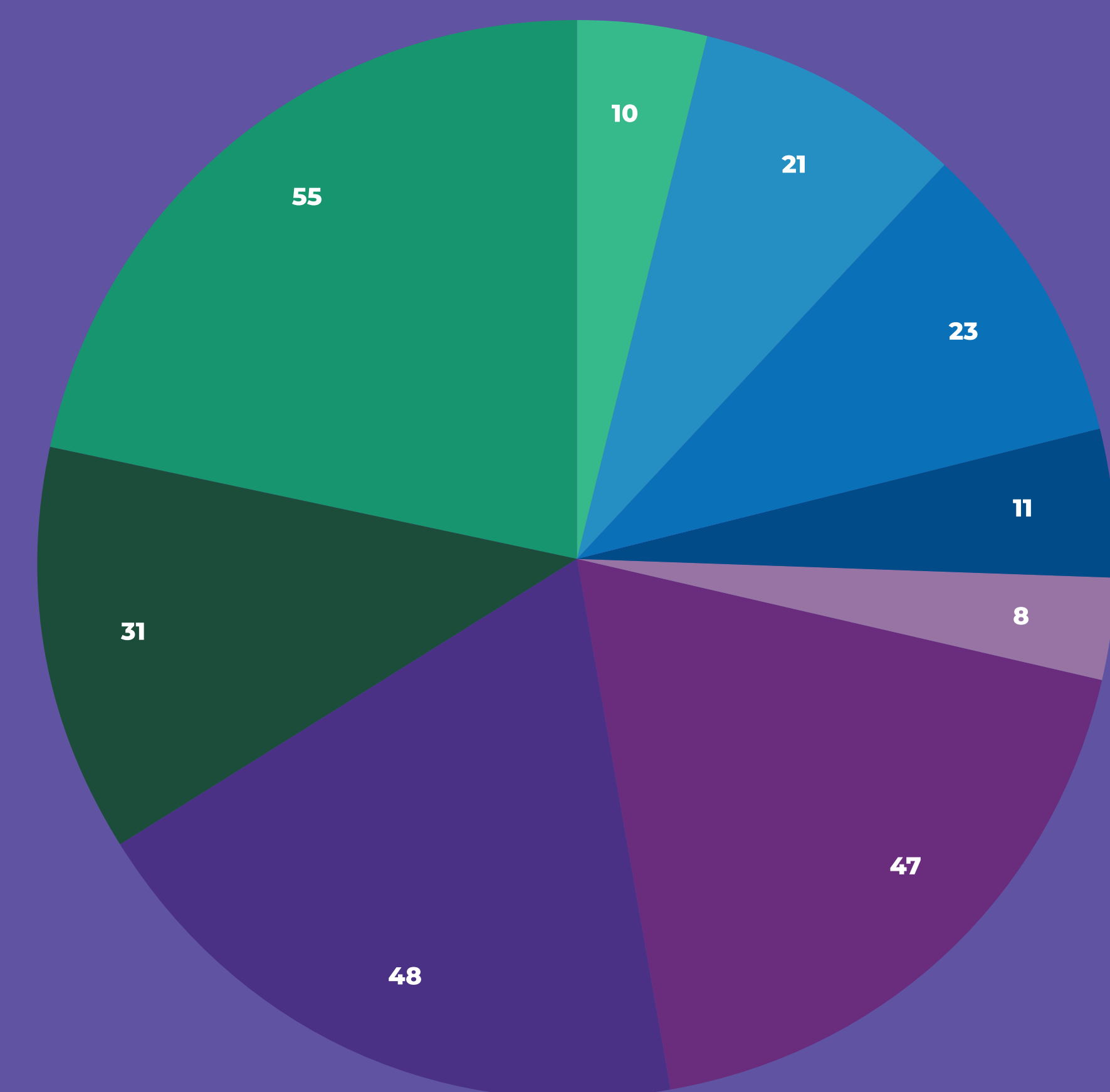
- Research Integrity
- Open Access
- Dissemination/Exploitation
- OS & RRI
- FAIR and RDM
- Gender, non-discrim. & Inc.
- Citizen Science
- Sci Com (Media & Policy)
- Management/Leadership
- Collections Catalogues Platforms

Report on the analysis of existing training activities and quality assessment. <https://doi.org/10.5281/zenodo.10640916>

### Sub-set of training resources undergone quality assessment

#### 2. A sub-set of training resources of each area has undergone quality assessment according to the following criteria:

- resource accessibility
- readability and legibility
- clear aims, goals and methods
- ease of implementation and reuse/adaptation
- image and audio quality



Total resources assessed: 254

- Research Integrity
- Open Access
- Dissemination/Exploitation
- OS & RRI
- FAIR and RDM
- Gender, non-discrim. & Inc.
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### Courses

Courses being developed within the project, by topic area: Under preparation and to be piloted by the project partner institutions. These courses will be open and publicly available via the project website and Open Plato (<https://openplato.eu/>).

Transferable skills	Courses
Open Access	Open Access publishing: overcoming the challenges and busting the myths
	Empowering Researchers: Retaining Copyright and Maximize Your Impact in Open Access Publishing
	Meeting Funder Requirements: Navigating Open Access Publishing
	Trusted Publishers for my research: decoding good practices & overcoming predatory publishers
	Mastering Open Peer Review: Evaluating and Engaging in Transparent Scholarly Discourse
	Integrating Open Access Publishing into my research: putting into practice
	Designing my research project Open Access strategy: meeting funder requirements
FAIR Data Management	What is FAIR RDM and why should we do it?
	Planning for FAIR: Introduction to RDM and DMPs
	Getting started with putting FAIR RDM into practice
	A deeper dive into putting FAIR RDM into practice. Part 1. A deeper dive into putting FAIR RDM into practice. Part 2.
Citizen Science	An introduction to Citizen Science
	Participant Management and Community engagement
Research Integrity	Introduction to Research Integrity and the Good Scientific Practice in Responsible Research and Innovation
Gender, non-discrimination and inclusion	Unconscious biases
	Inclusive Language
	Inclusive working environment
	Gender-sensitive research
	Gender and FAIR data
Science Communication	Gender and inclusion dimension in research funding
	Science Communication towards media and policy makers
Dissemination and exploitation	Get Funding for your Research, then disseminate, communicate and exploit the research results
Mental Health Leadership	Mental Health Leadership for early career researchers

#### Consortium



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