

# On the Current and Future Uses of Quantitative Scientometric Indicators (QSI) in Swiss Higher Education Institutions

Dr. Martin Jaekel<sup>1</sup>, Dr. David Johann<sup>2</sup>, Dr. Moritz Mähr<sup>2</sup>, Dr. Rüdiger Mutz<sup>3</sup>, Dr. Elena Šimuković<sup>1</sup>

<sup>1</sup>ZHAW Zurich University of Applied Sciences • <sup>2</sup>ETH Library, ETH Zurich <sup>3</sup>CHESS, University of Zurich •

## Overview

The NAIF (National Approach for Interoperable repositories and Findable research results) project aims to increase the visibility and findability of Swiss research output.[@naif]

- **DORA** — Declaration on Research Assessment[@dora]
- **CoARA** — Coalition for Advancing Research Assessment[@coara]
- **Leiden Manifesto** — Best practices for research metrics[@leiden]

**Track 1** focuses on the **responsible use of quantitative indicators** for research assessment, aligned with:

This poster presents results from a **workshop with 27 stakeholders** from Swiss Higher Education Institutions, including **Ginny Barbour** (DORA Co-Chair), and a **survey of swissuniversities member libraries**.

## Methods

### Workshop Design

- **Participants:** 27 stakeholders from Swiss HEIs, policy makers, and international experts
- **Focus:** Four key questions on QSI implementation and responsible use
- **Case Study:** ETH Zurich's approach to research monitoring

### Survey

- **Target:** swissuniversities member libraries
- **Scope:** Current practices, tool importance, and future needs

## Key Findings at a Glance

Aspect	Current State
✓ Framework Adoption	Growing alignment with DORA, CoARA, Leiden
⚠ Implementation	Struggles translating declarations into practice
🏛 Assessment Level	Organizational monitoring preferred over individual
📊 Data Quality	Critical prerequisite for meaningful metrics

## Acknowledgments

We thank all workshop participants, Ginny Barbour (DORA Co-Chair), and the swissuniversities member libraries for their valuable contributions.

## Contact

NAIF Track 1: Responsible use of quantitative indicators

<http://eth-library.github.io/naif/>

## Partner Institutions

**ETH zürich**

ETH Library



**Universität  
Zürich**  
UZH

**EPFL**

**zhaw**

**PH SG**

**UNI  
FR**

**unine**  
Université de Neuchâtel

**Universität St.Gallen**

**swissuniversities**

## ? Q1: How firmly is QSI embedded?

✓ **Adoption:** Significant momentum to align with DORA, CoARA, Leiden Manifesto

⚠ **Challenge:** Struggle to translate declarations into appropriate QSI practices

💡 **Core Values:** Indicators must be transparent, contextual, and fair — complement, not replace, expert judgment

## ? Q2: Where are QSI currently used?

🏛 **Organizational over Individual:** QSI favored for university/departmental monitoring, *not* individual researcher output (ETH Zurich case study)

📊 **Use Cases:**

- 📈 Research Profiles — Topics & evolution over time
- 🌎 Impact Analysis — Citations by discipline/country
- 🌐 Network Analysis — Collaboration patterns
- 📊 Strategic Initiatives — OA shares, funding sources

## ? Q3: How important are QSI tools?

📊 **Data Quality First:** Metrics often flawed or misapplied — requires multiple sources and rigorous cleaning

⌚ **Context-Based:** Tools only useful when context-based — first understand how users engage, then define QSI

🤝 **Collaboration:** Data specialists + subject experts working together

## ? Q4: Future of responsible QSI?

### Four Pillars

	Pillar
🤝	<b>Expert Collaboration</b> — Data + subject + methodology specialists
💬	<b>Dialogue-Based</b> — Clarify purpose and limitations upfront
⌚	<b>Context-First</b> — Build use cases, then define QSI
🌐	<b>Holistic Scope</b> — Beyond citations: ORD, Open Science, media

## 📌 Conclusion & Key Takeaways

The NAIF project will develop **guidelines** for Swiss HEIs applying transparent, context-specific research assessment aligned with international best practices.

#	Takeaway
1	<b>Start with context</b> , not indicators
2	<b>Organizational monitoring</b> over individual assessment
3	<b>Data quality</b> is non-negotiable
4	<b>Multi-stakeholder dialogue</b> drives implementation