

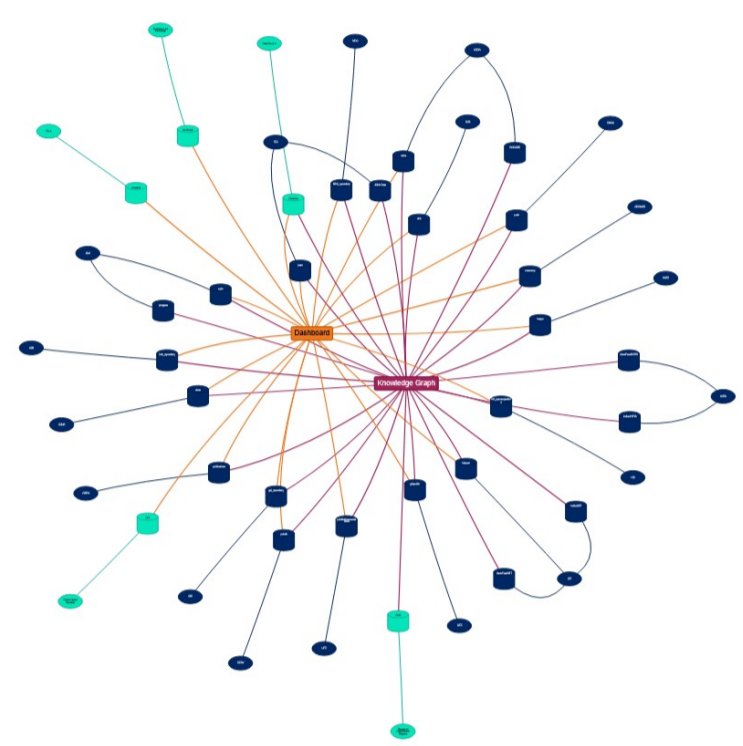
Assessing Metadata Quality Across Helmholtz Data Providers: A Practical Approach for Harmonization

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A Practical Approach for Harmonization

The challenge



- Heterogeneous systems
- Inconsistent metadata
- Local constraints

Our approach



- Metadata analysis
- Community workshops
- One-on-one consulting

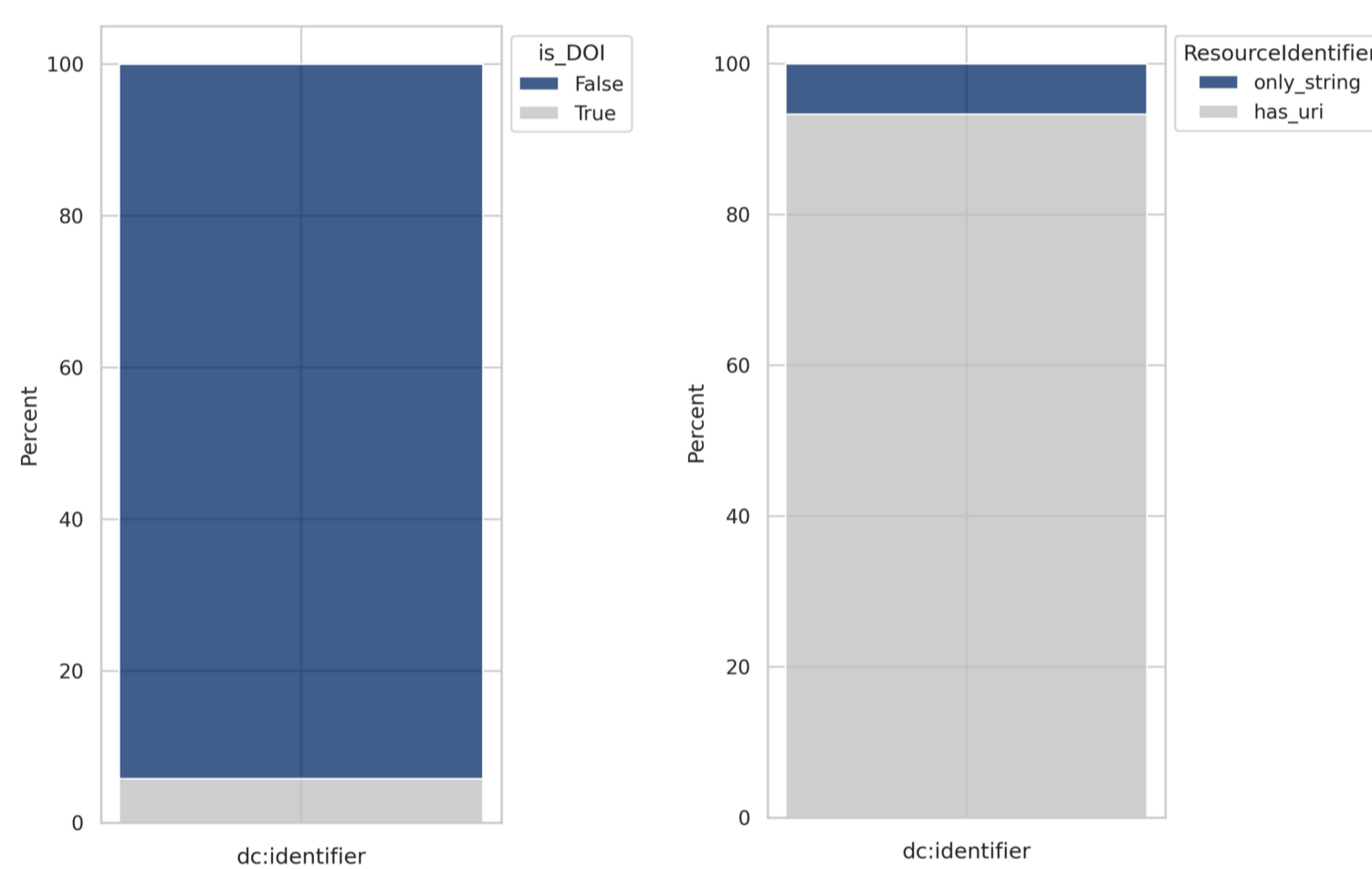
Expected impact



- Improved metadata consistency
- Increased KG connectivity
- Expanded FAIR Data Dashboard

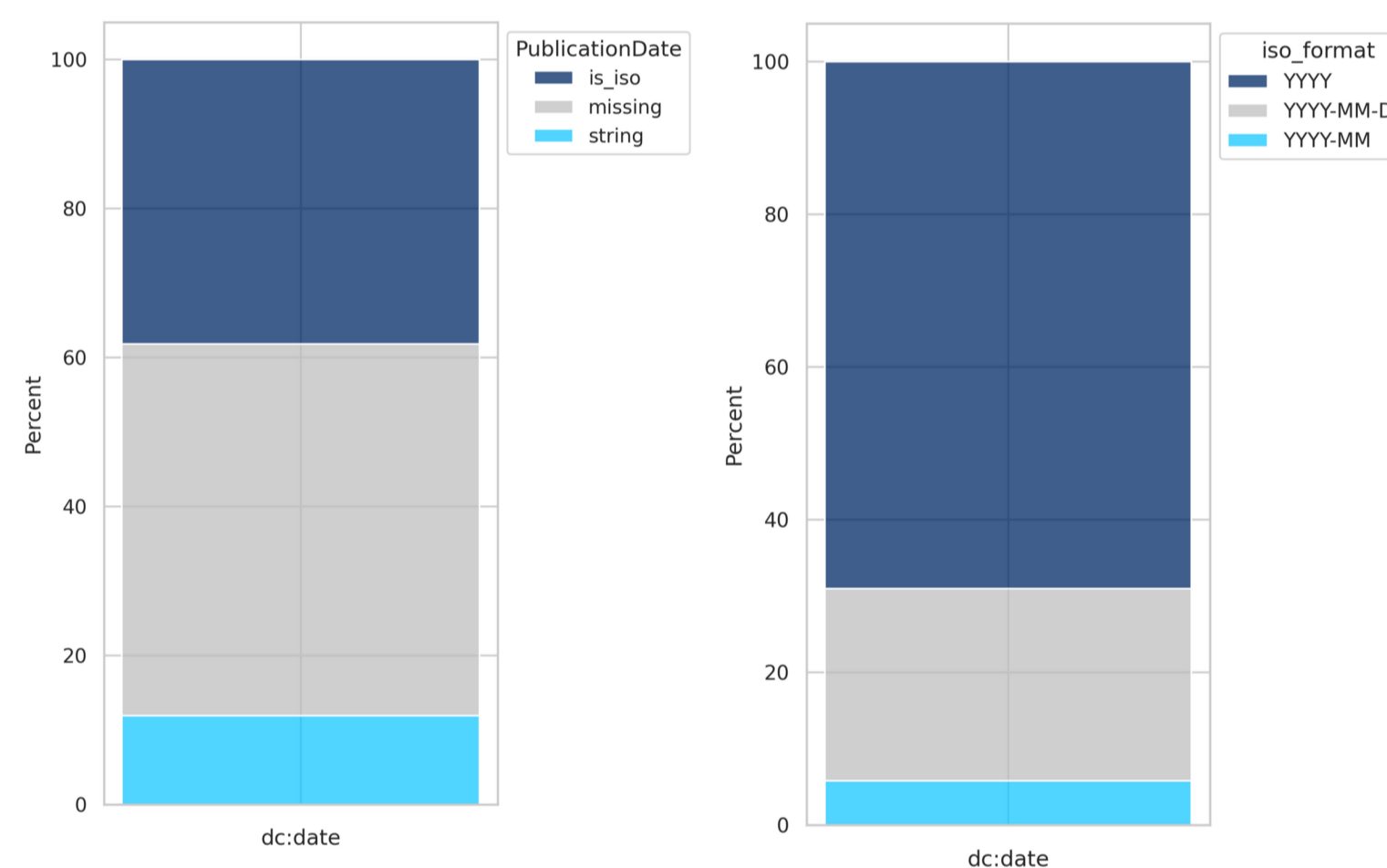
Gap Analysis: 3 million metadata records

Identifier (dc:identifier)



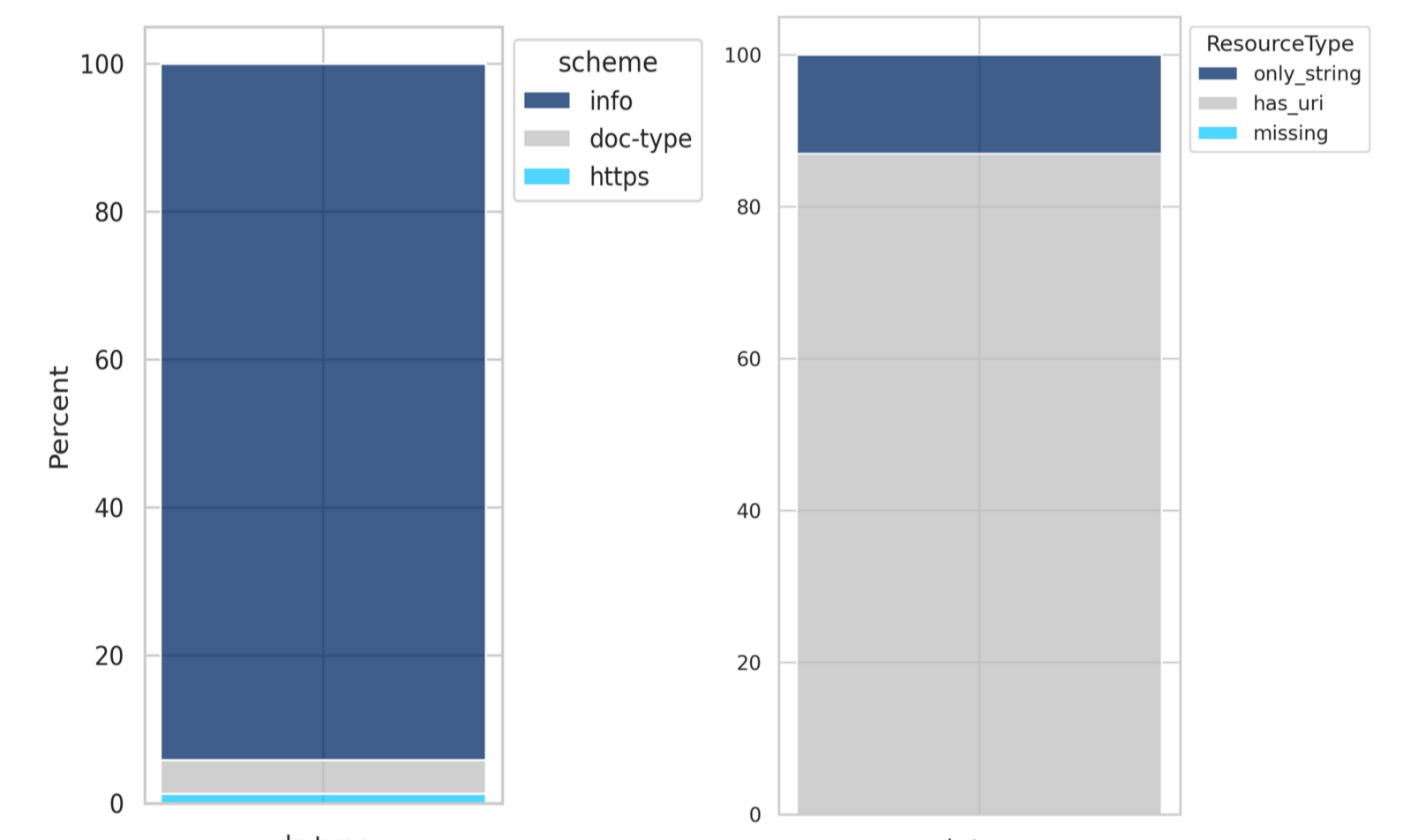
- Enables identification, linking, and retrieval
- High availability: 100% coverage
- 7% free-text reducing connectivity

Publication Date (dc:date)



- Enables temporal filtering and sorting
- Medium availability: 50% coverage
- 12% non-ISO 8601 compliant reducing machine readability

Resource Type (dc:type)



- Enables record classification
- High availability: 99% coverage
- 13% free-text reducing interoperability

Kick-off Workshop

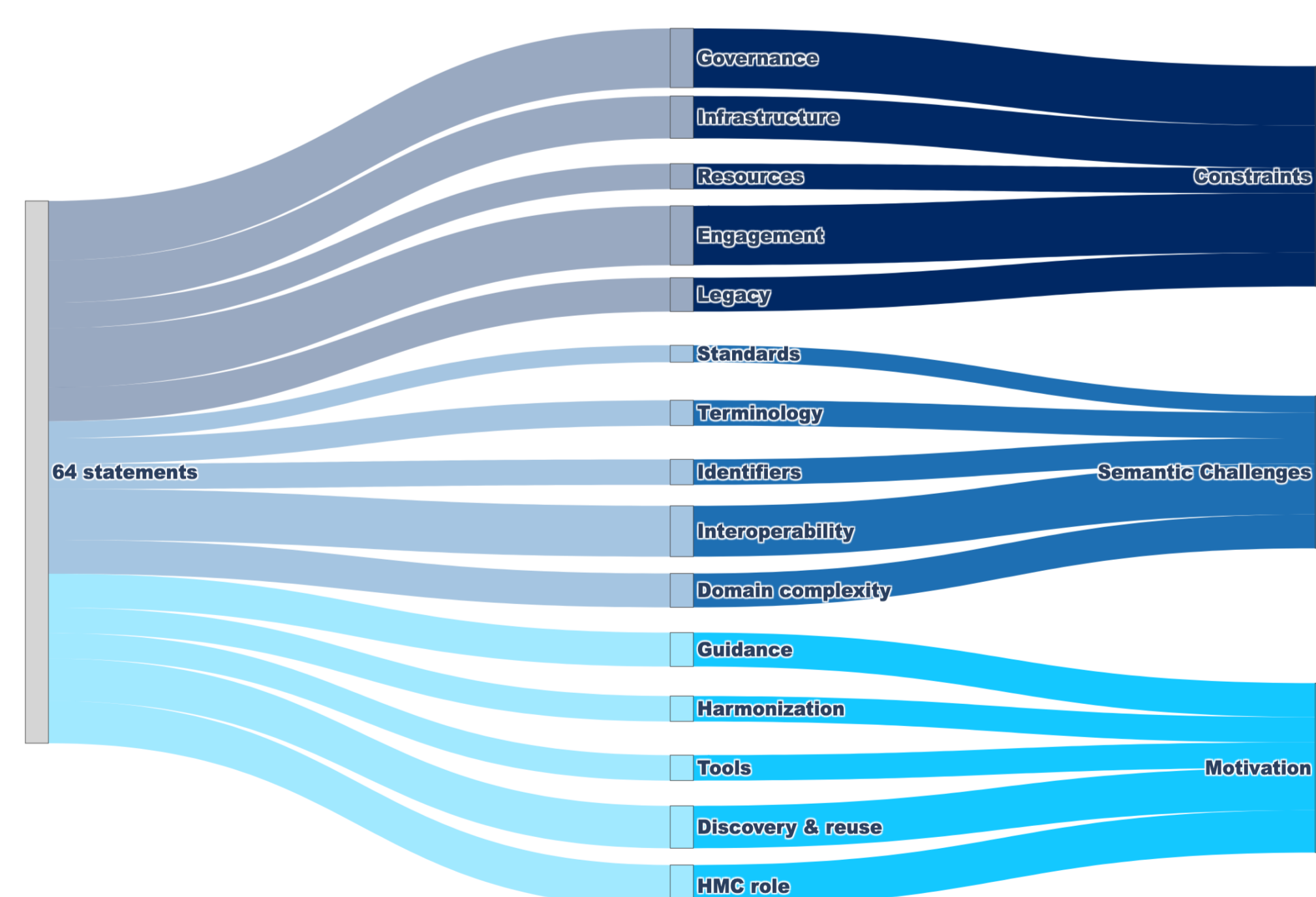
Overview

- 3-hour online workshop
- 17 Helmholtz centres represented
- plenary + breakout format
- structured group discussions

Voices from the workshop

“Metadata collection is manual and individual”
“Lack of resources for metadata implementation”
“Unclear responsibility for metadata definition”

Analysis of breakout discussions



Main results

Primary constraints

- Resource constraints
- Legacy systems
- Unclear responsibilities

Harmonization challenges

- Local practices & infrastructure
- Different interpretations of standards

What participants want

- Practical guidance and tools
- Center-specific support
- *Not one-size-fits-all solutions*

Next Steps

- Individual consulting sessions with providers
- Continued metadata analysis + feedback loop
- Publication workshop report



Get involved

Sign up for a consulting session today

