



THE EFFECTIVENESS OF RESEARCH DATA MANAGEMENT (RDM) ONLINE TRAINING AT MACQUARIE UNIVERSITY

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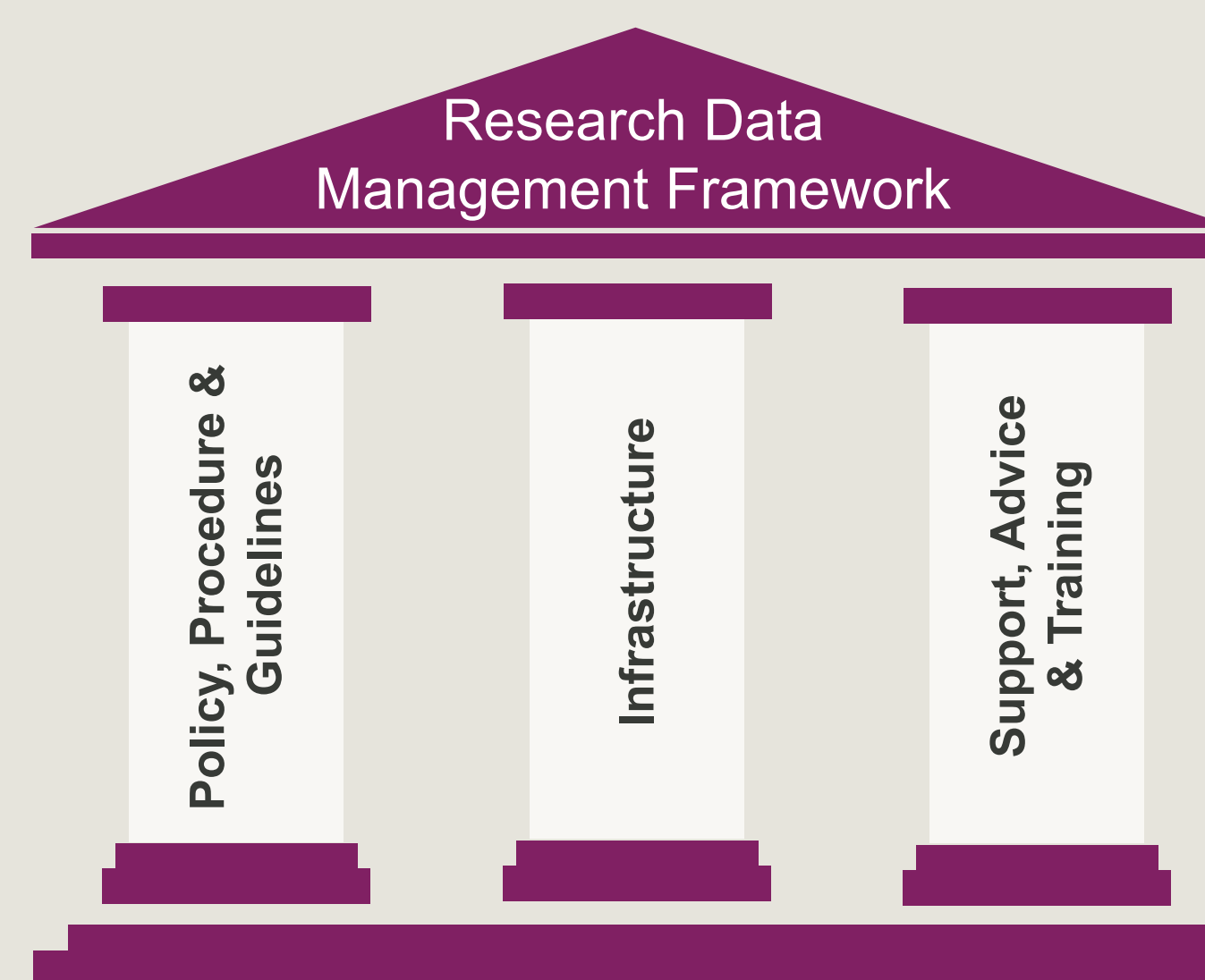
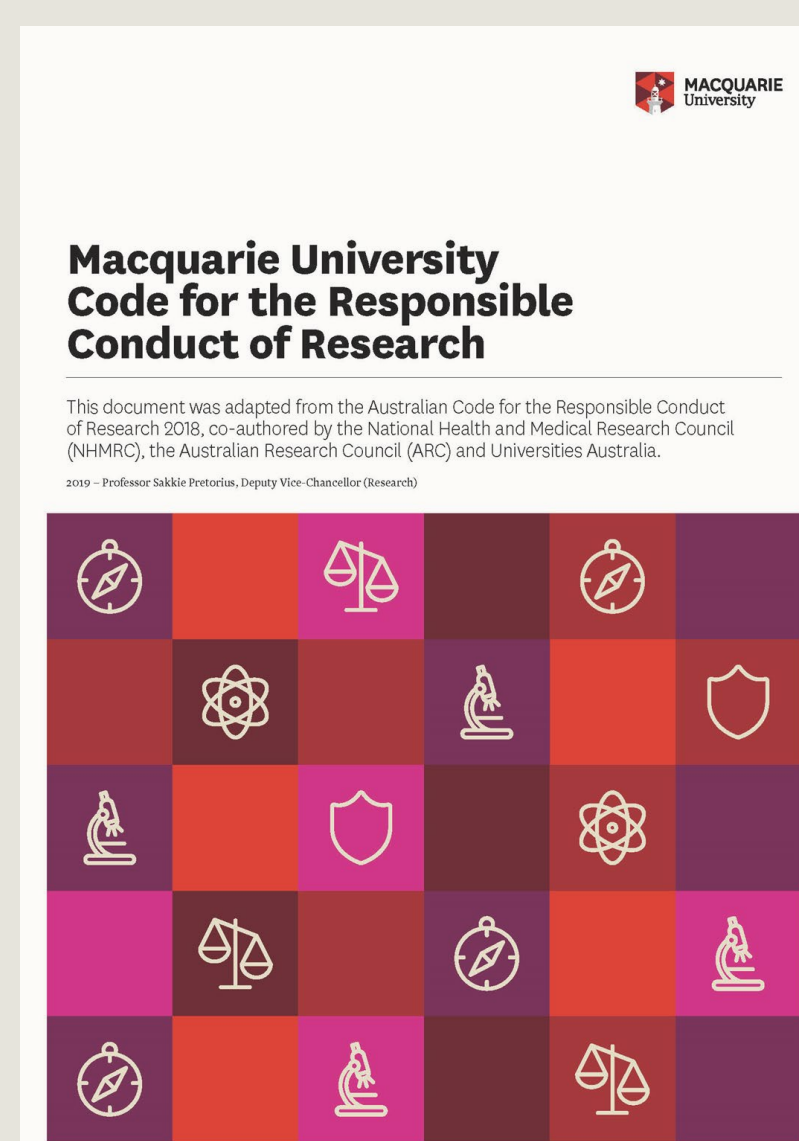
RDMOnline course available (CC BY-SA 4.0)

CONTEXT



Transparency & Reproducibility

'Open as possible, closed as necessary'



CULTURE CHANGE via:

- Sustainable
- Relatable
- Engaging
- Relevant and
- **Effective Training**

RDM ONLINE TRAINING MODULE

Aim: Explore the effect of bespoke RDM Online training on awareness, understanding & intent through a pre- and post- training survey.

Crawl



Fundamental questions about research data

- What is it?
- Why should I care?
- The data life-cycle?

Walk



Consider how to handle different types of data

- What is sensitive & highly sensitive data?
- Where should I store my data?
- How can I keep data safe and secure?

Run



Think about how to care for data & ensure it is valuable in the long run.

File naming, folder structures, metadata, sharing data, repositories & human ethics.

Jump

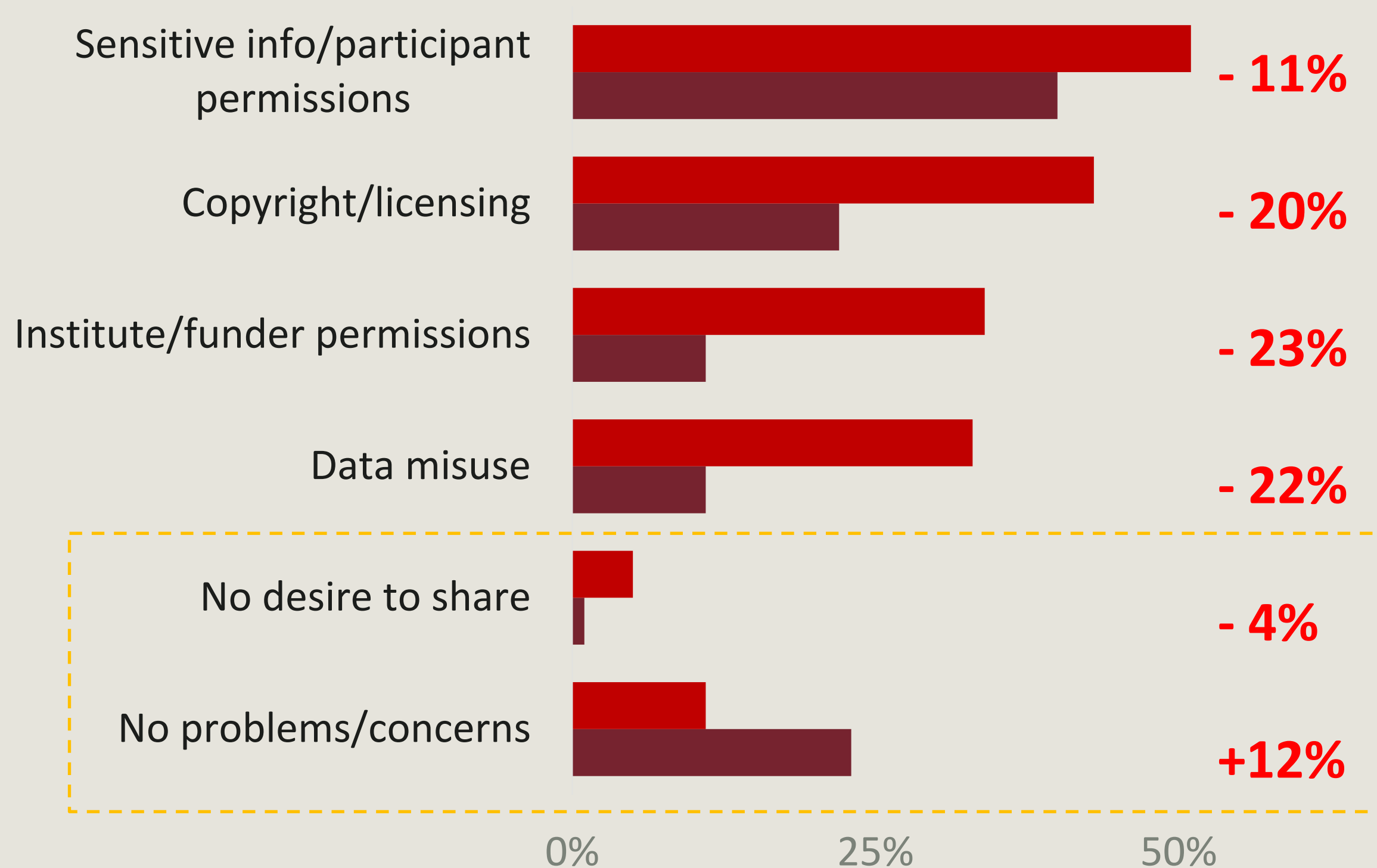


Learn about best practices in research data management for integrity & impact.

PRE- & POST-TRAINING SURVEY

Sharing datasets concerns: attitudinal change post-training

■ Pre-training ■ Post-training

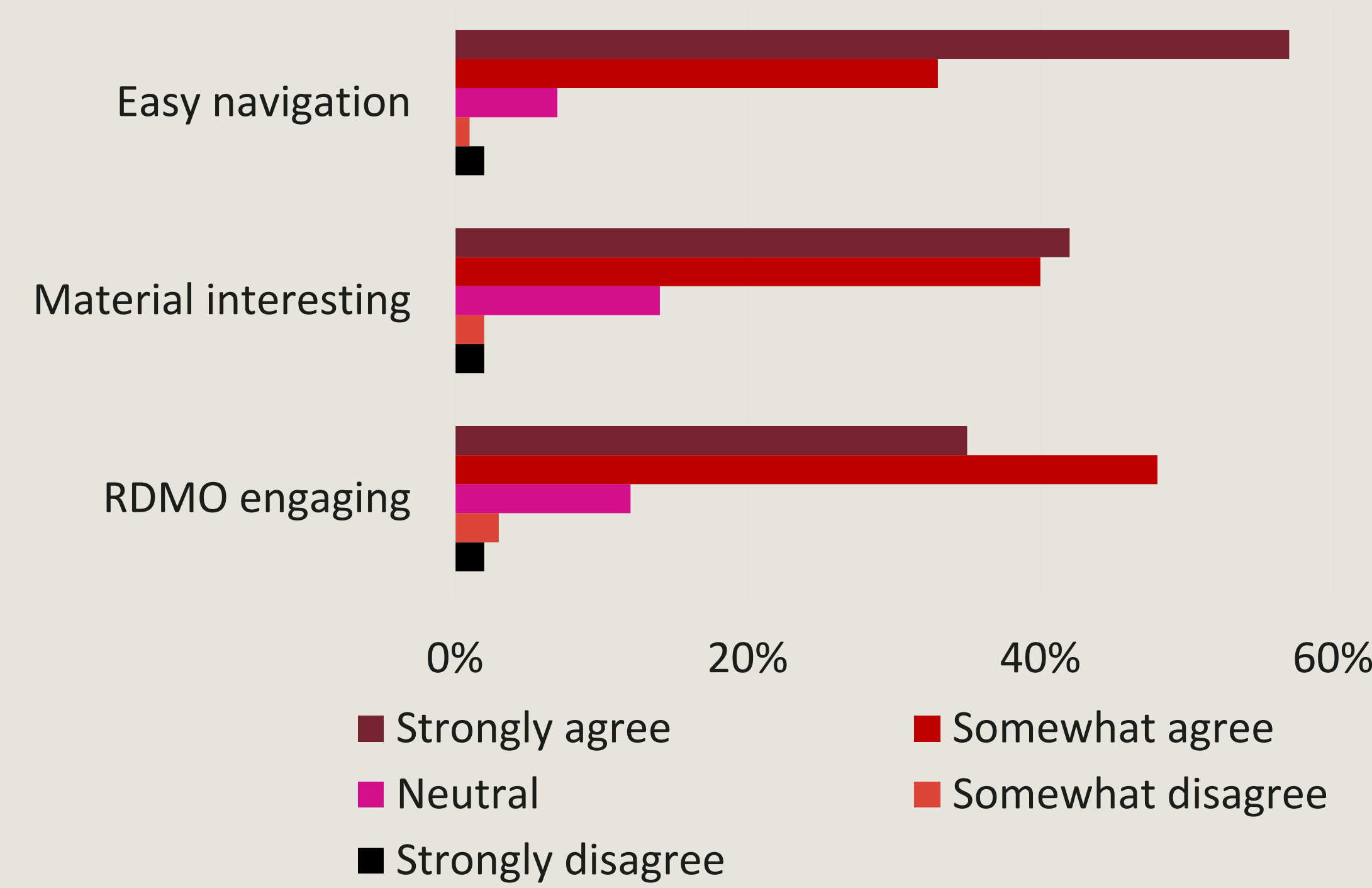


RESEARCH STUDENTS (n=473)

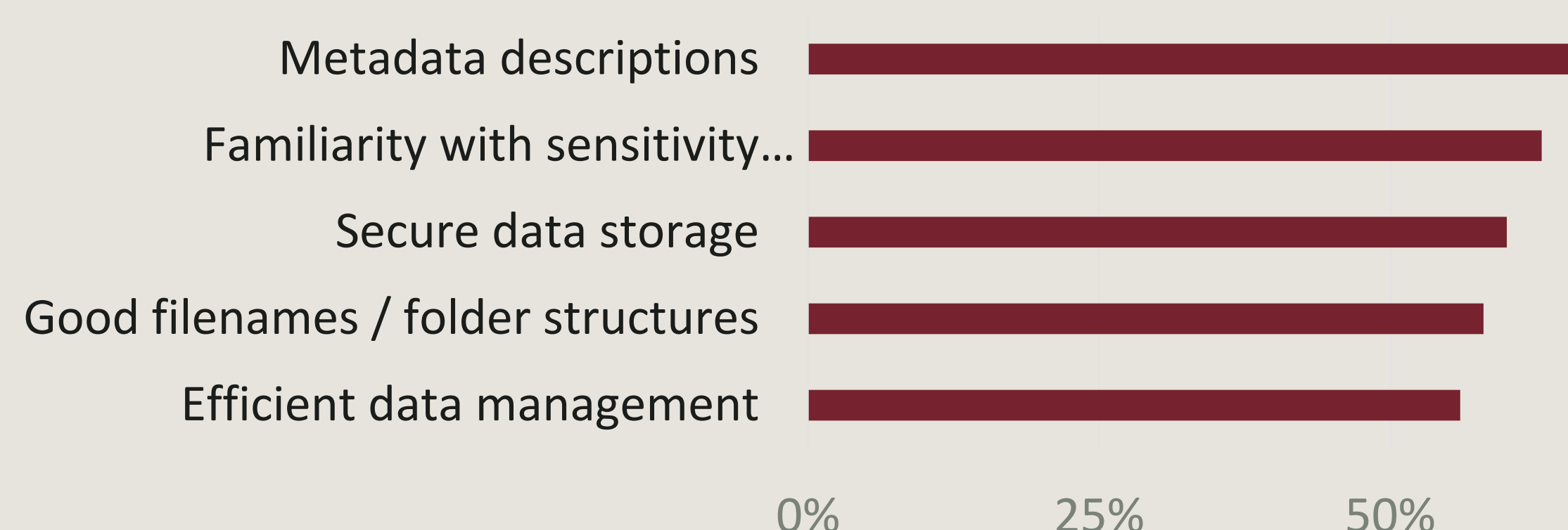


RESULTS & IMPACT

RDM Online evaluation



Change in self-assessment of RDM skills



Anticipated challenge to their Data Management Plan (DMP)	n=473
None	37%
DMP might be too ambitious	30%
Might change research	29%
Not enough time to implement	19%
Will forget to follow DMP	18%

"Established the ground rules convincingly"
"Covers points I had never considered"
"It was amazing, I can't believe I had not been offered this info before."
"It wasn't boring! I found it easy to follow along and it felt friendly yet informative/serious"
"clear, succinct information" "...almost perfect"
"Make it compulsory university-wide so all researchers have this knowledge - this will change the culture around research data management ..."

CONCLUSIONS & FEEDBACK

- >80% agreed RDM Online was engaging, interesting and easy-to-follow
- Improved >90% of respondents' self-assessed RDM abilities
- ~40% of respondents didn't anticipate any challenges creating/implementing DMP
- 2X the number of researchers who had no concerns to sharing data
- Reduced the primary data sharing concerns by ~10-20%
- Decreased five-fold those researchers unwilling to share data
- Influenced views on the importance of factors that determine open data quality (90%) & integrity (70%)



RDM @MQ culture change report including training quiz & surveys

Macquarie University Human Research Ethics Committee Approval Project No: 11557

Funding: ARDC Discovery Activities project "Implementing FAIR: Standards in Research Data Management" and ARDC Institutional Underpinnings "Focus on Higher Degree Research Students Through the 'Culture-Change Looking Glass'"

Acknowledgements: Mark Hooper, Jennifer Rowland, Felicity Clive, Katherine McClennan, Josephine Morton & Shawn Ross