

Engaging Researchers with Data Management: The Cookbook

James Savage, Raman Ganguly, Connie Clare



27th February 2020, RDA Webinar.

RESEARCH DATA ALLIANCE

Webinar Outline

- Introduction & Overview (James Savage)
- Data collection & Processing (Raman Ganguly)
- Case studies & Book Sprint (Connie Clare)
- Publishing & Final thoughts (James Savage)
- Questions & Discussion

A long-exposure photograph of a starry night sky, showing curved star trails in a spiral pattern. In the foreground, the dark silhouette of a person stands looking up at the sky.

Engaging Researchers with Data Management: The Cookbook

<https://www.openbookpublishers.com/product/1080>

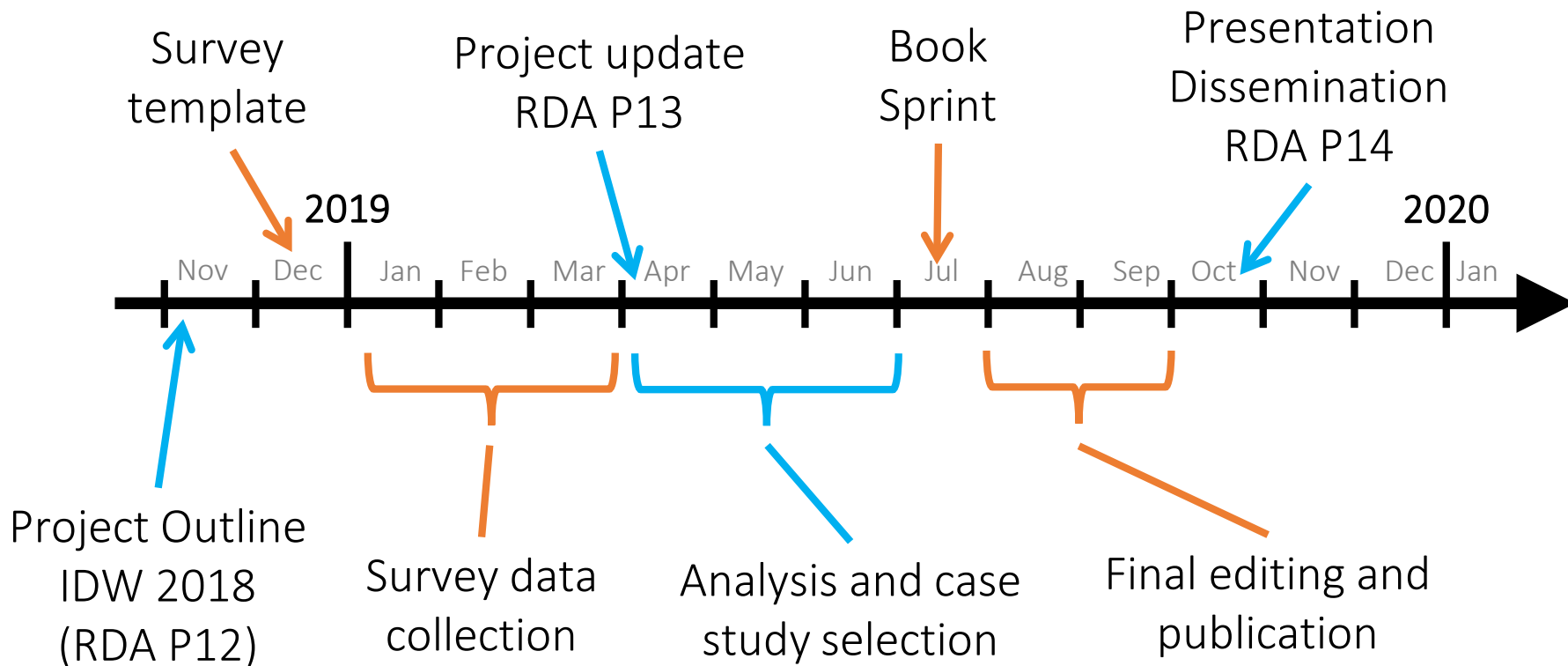
DOI: 10.11647/OBP.0185

24 case studies describing institutional strategies for engaging researchers with effective Research Data Management.

Engaging Researchers with Data Management
The Cookbook

CONNIE CLARE, MARIA CRUZ, ELLI PAPADOPOULOU, JAMES SAVAGE,
MARTA TEPEREK, YAN WANG, IZA WITKOWSKA, AND JOANNE YEOMANS

Project Timeline





Stage 1: Starting the project

Engaging Researchers with Research Data: What works?

Project lead: Marta Teperek (Data Stewardship Coordinator, TU Delft).

Aim: Find innovative ways of engaging researchers with research data, and make this information accessible to others

Outputs: Textbook and Website, based on analysis of survey data and detailed case studies of existing RDM strategies.

Engaging Researchers with Research Data: What works?

Steering board (10): Lauren Cadwallader, Julien Colomb, Maria Cruz, Mary Donaldson, Lambert Heller, Rosie Higman, Elli Papadopoulou, Vanessa Proudman, **James Savage**, Marta Teperek.

Task Leaders (6): Julien Colomb, Maria Cruz, **Raman Ganguly**, Reme Melero, Marta Teperek, Iza Witkowska.

Book authors (8): **Connie Clare**, Maria Cruz, Elli Papadopoulou, **James Savage**, Marta Teperek, Yan Wang, Iza Witkowska, Joanne Yeomans

Project members (48).

Libraries for Research Data Interest Group (<https://www.rd-alliance.org/groups/libraries-research-data.html>)



Engaging Researchers with Research Data: What works?



My Background

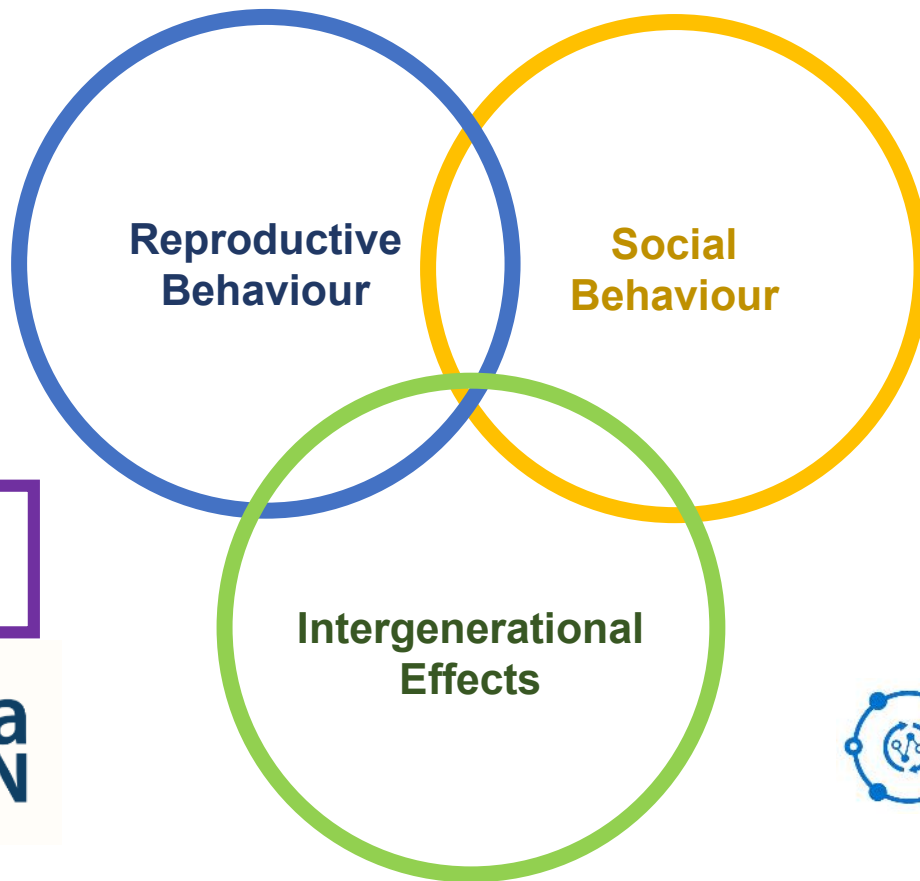


The
University
Of
Sheffield.

Diversity



Athena
SWAN



Reproductive
Behaviour

Social
Behaviour

Intergenerational
Effects



UCC

University College Cork, Ireland
Coláiste na hOllscoile Corcaigh



UNIVERSITY OF
CAMBRIDGE

Open Science



Cambridge
Data Champions



CODATA



My talk: Establishing, developing, and sustaining a community of Data Champions

Session 181: Motivations and recognition for good data stewardship (Marta Teperek)

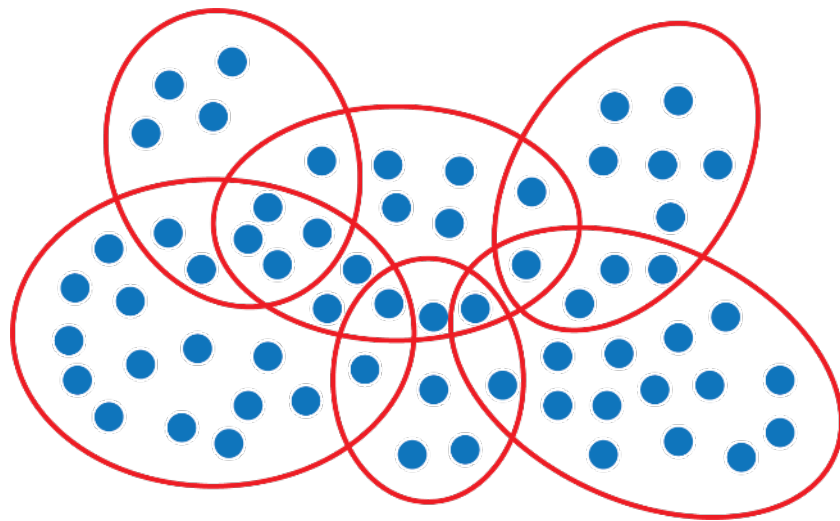


Stage 2: Data Collection

Raman Ganguly, University of Vienna

Engaging Researchers with Data Management: What Works?

Collecting data | Raman Ganguly | University of Vienna



The Survey

- Questions about the institution?
- How you engage with your research community about data management?
- Survey was online in March 2019
- Presentation about the state of the project at RDAs 13th plenary in Philadelphia
- 60 funders and 80 research institutions
- 28 mailing lists

The Raw Data

- 216 responses
 - 50 unique scientific institutions
 - 88 described activities
-
- used GitHub as a data repository
 - quantitative data analysis
 - preparing case studies



The Case Studies

- Categorisation
- Selected 24 case studies
- Running interviews



Stage 3: Case Study Selection

Survey Data Collection in Numbers

- 40 + project members worldwide
- Created a survey to collect examples of institutional practice
- Contacted 60 funders, 80 scientific institutions, used 28 mailing lists
- Received 216 responses:
 - 50 unique scientific institutions
 - 88 described their activities
- Which (and how many) survey responses to include in the final cookbook?

Case Study Selection

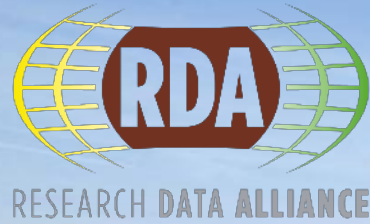
- Three steering group members independently created lists of the most interesting/diverse examples for inclusion
- From consensus, 24 examples selected as in-depth case studies
- Not all 24 were from the survey – we pursued other examples that had not been submitted when we thought they were particularly valuable.
- We then contacted key staff involved with those strategies for interviews



Stage 4: Case Study Interviews & Book Sprint

Connie Clare, University of Nottingham / TU Delft

Thank you!



About Me



University of
Nottingham
UK | CHINA | MALAYSIA



Developmental Biology



3-month internship working with the Data Champions.





Lack of Funding? Need More RDM Support? Build a Community-Based Model

Implementing a network of Data Champions can provide a cost-effective solution to improve RDM support. Essentially, Data Champions are

menting a network of Data Champions can provide a cost-effective solution to improve RDM support. Essentially, Data Champions

Why build a community of Data Champions?

- Diverse nature of subjects and disciplines – RDM is not one size fits all!

Researchers do not:

- Possess relevant skills or expertise
- Know of available resources
- Have sufficient time for RDM
- Appreciate the benefits
- See the value as it is not adequately rewarded

Support of a
diversity of
disciplines...

Provide targeted
training,
workshops, one-to-
one

Raise awareness
about RDM

Relieve
workload from
central support

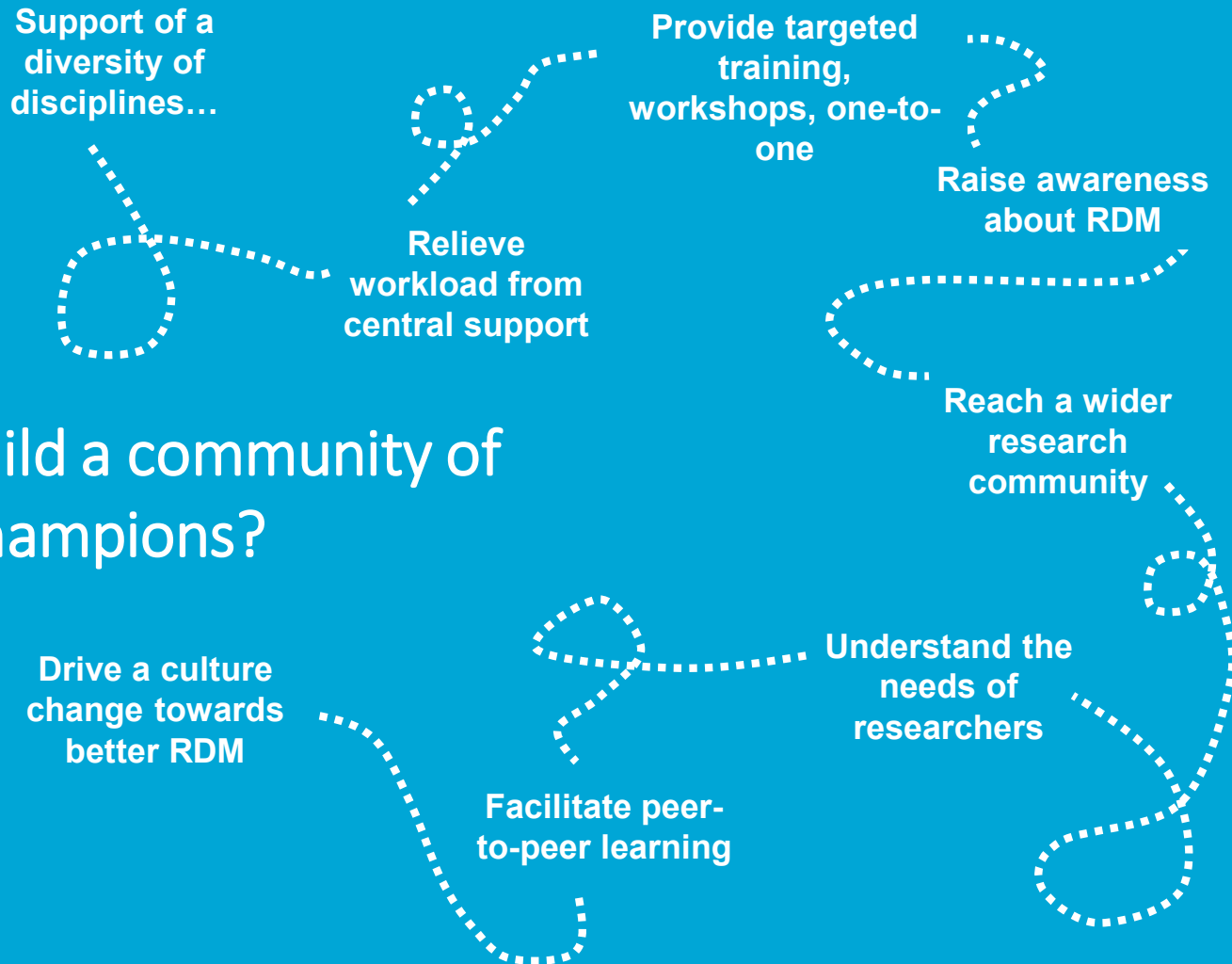
Reach a wider
research
community

Why build a community of Data Champions?

Drive a culture
change towards
better RDM

Understand the
needs of
researchers

Facilitate peer-
to-peer learning



5.1. Data Champion Programme at the University of Cambridge

Author: Connie Clare

Contributors: Lauren Cadwallader, Sacha Jones,
James Savage

The University of Cambridge links central RDM support to a network of volunteer Data Champions to efficiently disseminate RDM knowledge and training, start conversations across research units, and gather discipline-specific expertise for input on policy.

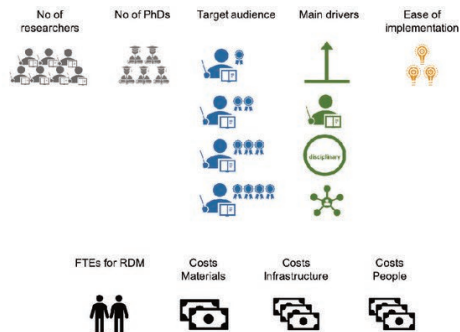


Table 5.1, CC BY 4.0.

5.2. TU Delft Data Champions

Author: Connie Clare

Contributor: Yasemin Türkyilmaz-van der Velden

RDM staff at TU Delft reflect on the value of their network of volunteer Data Champions for engaging with the research community, and explore how Data Champions can be appropriately rewarded for their contributions.

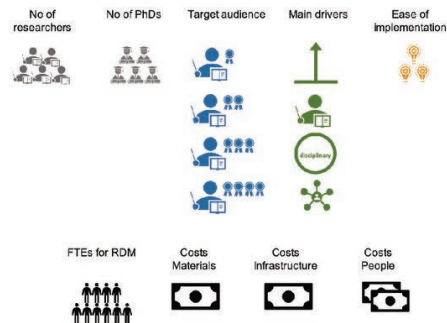


Table 5.2, CC BY 4.0.

5.3. Data Stewards at Wageningen University and Research

Author: Connie Clare

Contributors: Saskia van Marrewijk and
Erik van Den Bergh

Wageningen University's network of Data Stewards will be formed primarily from existing academic and research-related staff given new formal roles and responsibilities around supporting RDM.

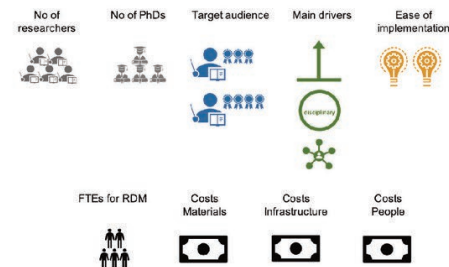



Table 5.3, CC BY 4.0.

What is a Data Champion?

TU Delft Data Champion

noun **UK**  /'deɪ.tə/ /'tjæm.pi.ən/

An individual who volunteers their discipline-specific expertise, promotes FAIR data principles and advocates proper research data management (RDM).

An individual who uses their passion for knowledge exchange and their desire to build a collaborative and researcher-led community to drive the uptake of good RDM within their faculties and departments.





Book Sprint Success: Top Tips

On your marks, get set, go!

- Start the sprint with clear aims and objectives
- Stick to schedule, the road is long...
- Free your creative mind. Take a break and recharge.
- 'Engaged' or 'Vacant' – post-it notes!
- Work hard, play hard...

Make friends...
And, enjoy the process!





Book Sprint Success: A Team Writing Exercise For The Win.

By *Connie Clare*

<https://www.rd-alliance.org/blogs/book-sprint-success-team-writing-exercise-win.html>



Following in the footsteps of the [Open Science Training Handbook](#), we share our book sprint success story and some ideas to help with your collaborative writing.

On 10th July our multidisciplinary team of dedicated volunteers checked-in at a hotel in the Hague, Netherlands, to participate in a three-day book sprint. For those unfamiliar with the concept, a 'book sprint' is an exercise of writing a book collaboratively in a short period of time, usually less than a week. Yet, together we learned that a book sprint is much more than a mere writing exercise; for us it was a truly rewarding and memorable experience that we can all reflect back on with pride. Here, we share our book sprint success story and reasons for why we advocate collaborative writing.



Stage 5: Publication

We now had full drafts of all the case studies. How to turn this into a finished output?

[illegible]

Public consultation

- Post book sprint editing 12th – 22nd July to prepare a full draft
- Opened for public consultation via Google Docs 22nd July
- Fantastic engagement from the wider community
- Community peer-review, many suggestions taken on board

Finding a publisher

We Needed:

- Fast publication
 - Open Access
 - Relatively inexpensive
 - Quality controlled
-
- Contacted Open Book Publishers (Cambridge UK) in August 2019
 - Peer-review occurred alongside our community review process
 - Small amounts of funding for publication sourced from several institutions/organizations





Stage 5: What's Next?

Birds of a Feather sessions at RDA P14/15

Researcher Engagement IG - Draft Charter | Proposal

Name of Proposed Interest Group:

Engaging Researchers with Data Interest Group (short name: Researcher Engagement IG)

Introduction

A brief articulation of what issues the IG will address, how this IG is aligned with the RDA mission, and how this IG would be a value-added contribution to the RDA community:

Good Research Data Management (RDM) is a key component of research integrity and reproducible research. Consequently, funding bodies, governments, research institutions and other agencies have emphasised the value and importance of good data management. However, discussions about data management and sharing are sometimes limited to librarians, data professionals, or researchers who are already passionate about data stewardship and open science. In order to implement good RDM practice within research communities, a cultural shift is necessary. Effective engagement with researchers, who are the main data producers and re-users, is essential for this shift to happen.

This group will exchange practice on how to effectively engage with researchers about research data and develop resources to help various research organisations increase engagement with their research communities.

The motivation behind this group is to build social bridges to enable open sharing and re-use of data

-> trigger

- Overwhelming response to the survey
- Diversity of responses
- Strong existing network

-> focus

Going beyond institutional practices

-> aim

Build on the first output

Aims and Objectives of new Interest Group

Provide a forum to exchange information on new innovative approaches

-> sequel of “Engaging Researchers with Research Data: The Cookbook”

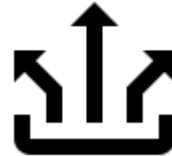
Follow up with the case study contributors

-> revised version “Engaging Researchers with Research Data: The Cookbook”

Develop a website to further promote the studies and share our findings

Methods and Outputs

- **Survey** (qualitative and quantitative results)
 - Involve more people and increase **international representation**
 - Utilise **multiple channels** for outreach
- Website
 - More “Cookbooks”
 - Methodologies and workflows





Thanks for Listening!

Questions / Comments?