Towards Building a Trustworthy Repository Ecosystem

RDA's 16th Plenary Meeting

12:00 - 1:30 AM UTC (11 November) | Breakout 4

Housekeeping

- The session is being **recorded** and will be made available on the RDA website

- Please **mute** yourself when not talking

- We mainly communicate via the **chat function**. Use it to raise your hand, add comments, ask questions

- Engage in the session by asking **questions** (using the chat or the collaborative notes) and taking part in the discussion

- Collaborative Notes Link: **https://bit.ly/2U74xTM**
  - **Sign in under Participants List!**

Meeting Objectives

To continue discussions on the overview and recommendations for effective implementation of certification of digital repositories. For this plenary these discussions will focus on current questions and towards building a trustworthy repository ecosystem:

- The impact of the recently released TRUST principles - released in May 2020, what has their impact been so far? How are they viewed by repositories? Funders? Publishers?

- Accounting for a variety of repository types within the TRUST principles and certification processes
  - How do generalist repositories view the TRUST principles in supporting and accomplishing their missions?
  - How do generalist repositories and technical service providers fit within the CoreTrustSeal certification process?

- Adoption of repository certification processes such as the CoreTrustSeal - What are successes and challenges in driving adoption of available repository certification processes?

Agenda

1. **Welcome and introduction (5 min)**

2. **TRUST principles**
   1. Review and impact so far (5 minutes) - Marisa DeGuisti, Universidad Nacional de La Plata
   2. Commentary on TRUST principles (5 minutes) - Representatives of TRUST Principle Endorsers
   3. Discussion time (20 minutes)

3. **CoreTrustSeal position paper on specialist and generalist repositories and technical service providers**
   1. Review of position paper and comments towards this second version (5 minutes) - Rorie Edmunds, World Data System
   2. Response of a generalist repository on the CoreTrustSeal position paper and TRUST principles (5 minutes) - Lisa Johnston, University of Minnesota
   3. Discussion time (15 minutes)

4. **Efforts to engender certification of data repositories**
   1. Successes and challenges of efforts from AGU's Enabling FAIR Data project (5 minutes) - Rebecca Koskela, RDA/US
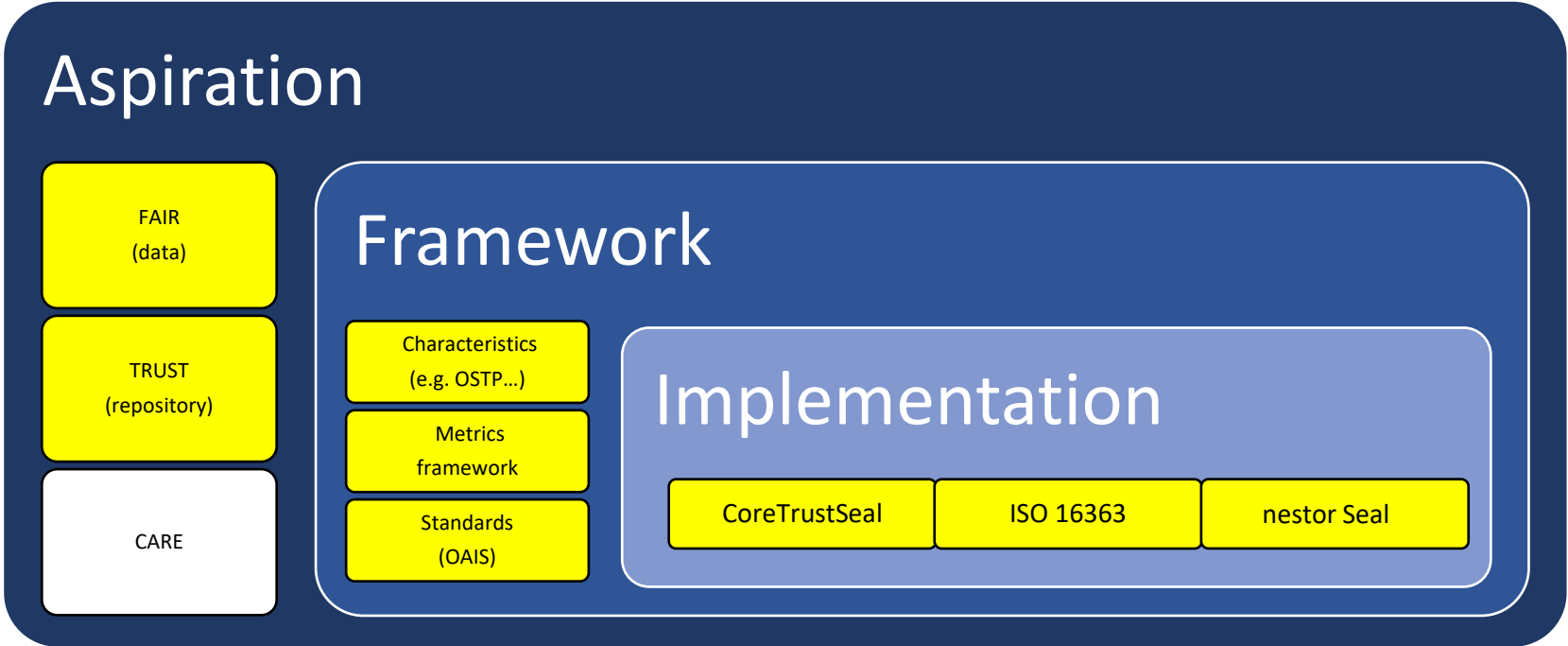   2. Discussion time (15 minutes)

5. **Next steps and closure** (5 minutes)

Video

Review and impact so far
Marisa DeGuisti, Universidad Nacional de La Plata

The Concept Landscape of Data Repositories

Aspiration

FAIR
(data)

TRUST
(repository)

CARE

Framework

Characteristics
(e.g. OSTP…)

Metrics
framework

Standards
(OAIS)

Implementation

CoreTrustSeal

ISO 16363

nestor Seal

Wim Hugo, Kim Pruitt, and others

Responses to the TRUST Publication

TWITTER DEMOGRAPHICS   MENDELEY READERS   ATTENTION SCORE IN CONTEXT

The data shown below were collected from the profiles of **154** tweeters who shared this research output. Click here to find out more about how the information was compiled.

131

7 citations as of Nov. 10, 2020

1   25

Geographical breakdown   **Demographic breakdown**

https://www.nature.com/articles/s41597-020-0486-7

A Survey to the TRUST Endorsers

- **Why did your organization endorse the TRUST Principles?**
- **What has been the impact (if any) of the TRUST Principles and/or your endorsement of them on your organization?**
- **What has your organization done towards implementing the TRUST Principles? What difficulties have you faced in their implementation?**

A Survey to the TRUST Endorsers

Why did your organization endorse the TRUST Principles?

- Represent the commitment to promoting best practices and improving normative structures.
- Ensure the alignment of practices and policies with community endorsed values.
- Provide an excellent and necessary addition to the FAIR principles for data
- Address gaps of the trustworthiness and certifications of digital repositories.
- Be part of the movement to help the entire research repository landscape forward towards a more open and sustainable future.

Responders: Figshare, DANS, GigaScience, University of Arizona Library, CARL Portage

A Survey to the TRUST Endorsers

What has been the impact (if any) of the TRUST Principles and/or your endorsement of them on your organization?

- Supported the intellectual merit of proposals.
- Reaffirmed the repository's missions.
- Showed stakeholders to take the long term preservation of data holdings seriously.
- Demonstrated to the community to adhere to international best practices.
- Made the leadership at all level to re-affirm the commitment to operate trustworthy repository services.
- No huge amount yet, but expected to improve the understanding of the priorities of trustworthy digital repository certifications.

Responders: Figshare, DANS, GigaScience, University of Arizona Library, CARL Portage

A Survey to the TRUST Endorsers

What has your organization done towards implementing the TRUST Principles? What difficulties have you faced in their implementation?

- Continued to promote within the user community.
- Enhanced certain areas more than before, like transparency, increasing discoverability, accessibility, interoperability, for users.
- Guided the certification process.
- Aligned with the existing practices and guided future planning.
- Hosted seminar, symposiums and is launching a repository certification project.

Responders: Figshare, DANS, GigaScience, University of Arizona Library, CARL Portage

Specialists, Generalists, and Technical Repository Service Providers

Brief Update on the CoreTrustSeal Position Paper

Rorie Edmunds, World Data System-International Programme Office / Head of CoreTrustSeal Secretariat

Introduction

- Traditionally **domain data repositories** have sought certification.

- However…the **diversity of organizations** applying for certification has been **increasing**.

- CoreTrustSeal wishes to help **provide certification tools** to such applicants, and is **examining the characteristics** of organizations to understand how we can **best serve** the community.

Why is this Process Important?

- Demand for **definitions**. In particular, the need for a definition of a **specialist Trustworthy Data Repository**.

- Need to ensure **all entities** in the data ecosystem designed to preserve and protect the world's digital legacy are appropriately **recognized as being trustworthy**.

- Digital preservation is carried out in increasingly **complex partnerships**; functions and responsibilities are **distributed and shared** among different organizations.

The Process and Next Steps

- Following an increasing number of applications outside of the scope for CoreTrustSeal certification, a WG was created to look at certification of generalist repositories and TRSPs.

- To make significant progress an **initial CoreTrustSeal viewpoint was needed to stimulate discussion**. A position paper was released to the community in June 2020 with a four-week request for feedback.

- The position paper focusses on the **certification of generalist repositories in comparison to specialist curators**. It also starts to look at the **definition of TRSPs**, the categorization of which is complex and which needs to be broken down.

The Process and Next Steps

- 37 different individuals/groups/organizations responded, and 552 individual comments/pieces of feedback.

- After consolidating and categorizing all responses, the Board was requested to review the feedback, with an eye to
  - **Revising the document according to community consensus**
  - **Identify open questions/challenges that require more thought by CoreTrustSeal, by the community, or by both.**

- A **second version of the paper** will be released soon, and **Individual responses** given to specific feedback.

- After another round of consultation, a **final version** of the position paper will be released. The paper may also be published as a **journal article** with additional explanation.

Overview of Responses

- **Background Information (R0)**

  - No need to differentiate between generalist and specialist repositories or TRSPs. However, clarifications were suggested.

- **Organizational Infrastructure (R1–R6)**

  - R1–R5 are equally relevant to generalist and specialist repositories, as well as TRSPs
  - R6 'Expert Guidance' less relevant to TRSPs.

Overview of Responses

- **Digital Object Management (R7–R14)**
  - Need to distinguish specialist and generalist repositories practices and evidence. More specialized services and Designated Community needs mean more complex/specialized practices.

- **Technology (R15–R16)**
  - Same level of practices and evidence expected.
  - Security practices need to be informed by data type (e.g., if sensitive data is stored)

Remaining Challenges

- Will everything be solved by CoreTrustSeal, or will the **community work with us** to solve them?

- Familiarity with the concept of **three tiers of certification** that are **dependent**; each builds upon lower tiers.

- CoreTrustSeal must ensure that we get the definitions of **'preservation'** and **'Designated Community'** correct.

- **Outsourcing of long-term preservation** must ensure a level of **oversight and control** by the applicant. This is will be explored further.

- The **position paper is only the start**, and continued discussions are needed. Anything that impacts the CoreTrustSeal Requirements must form **part of the next official review of CoreTrustSeal in 2022**.

Video

Response on the CoreTrustSeal position paper and TRUST principles
Lisa Johnston, University of Minnesota

Video

CoreTrustSeal - Earth, Space and Environmental Science Repository Community Cohort
Rebecca Koskela, RDA/US