A THEO
MURPHY
INITIATIVE

Re:produce workshop

10-11 DECEMBER 2019 BRISBANE

Session 5: Open Data,
Materials and Code

Session Plan

Session Introduction
reproducibility
5 minutes

Research compendia
brief introduction
5 minutes

Recorded talk
Prof Del Ponte
20 minutes

Discussions and Q&A
with speaker & panel
20 minutes

Hands on activity
OSF
20 minutes

Review and Wrap up
10 minutes

Reproducibility - open data, materials & code

- A growing collection of services allow researchers to conduct and present research reproducibly

- Using platforms like OSF, GitHub, Binder, Code Ocean, Colaboratory, Gigantum and Nextjournal — researchers can undertake, collate and present their code, materials and data openly.
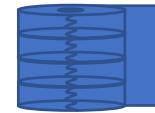
Ref: https://www.nature.com/articles/d41586-019-03366-x

Introduction to Research Compendia

A research compendium is an artefact that accompanies, enhances, or is a scientific publication providing:
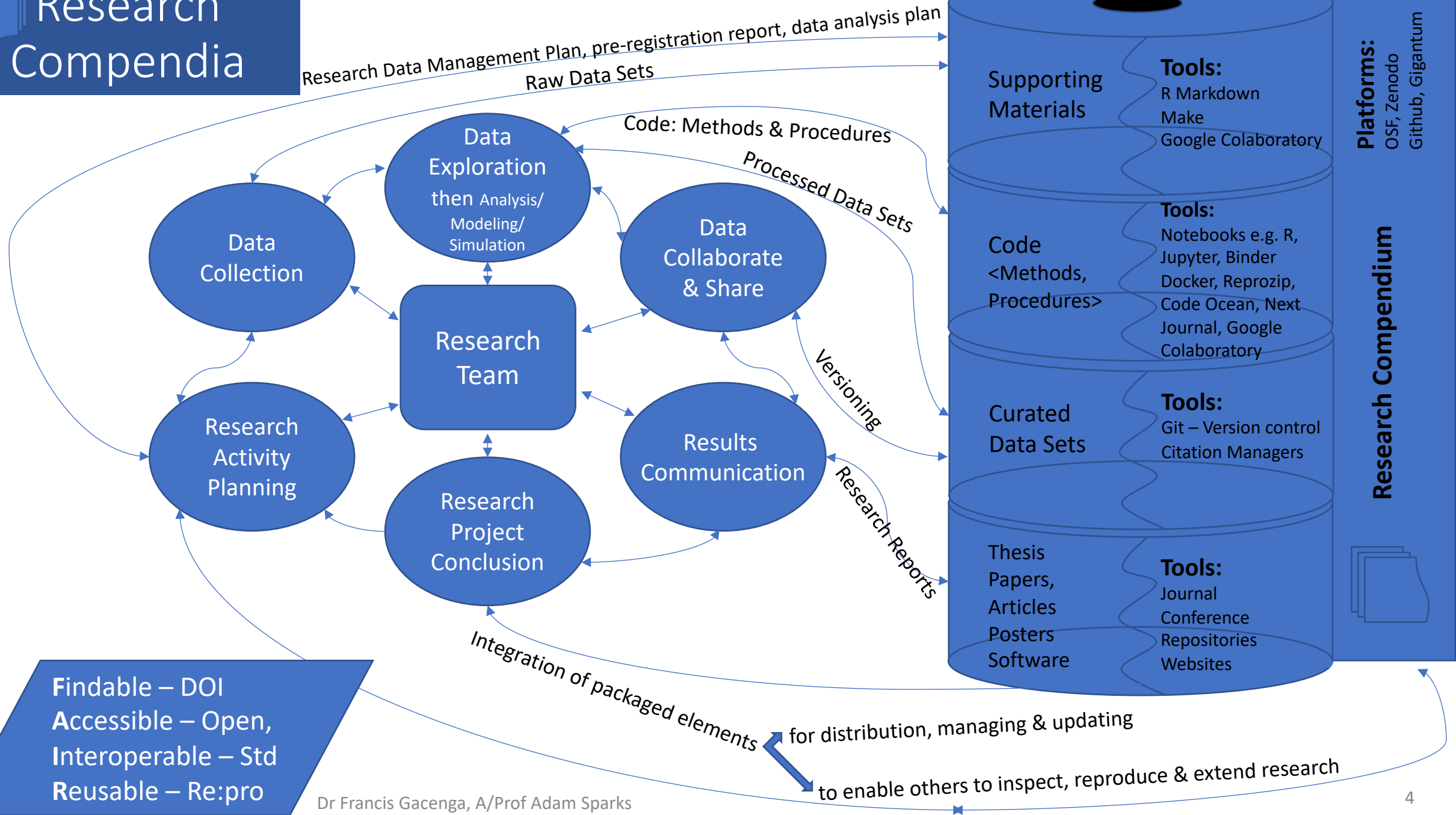
- data,
- code, and
- Materials (documentation)

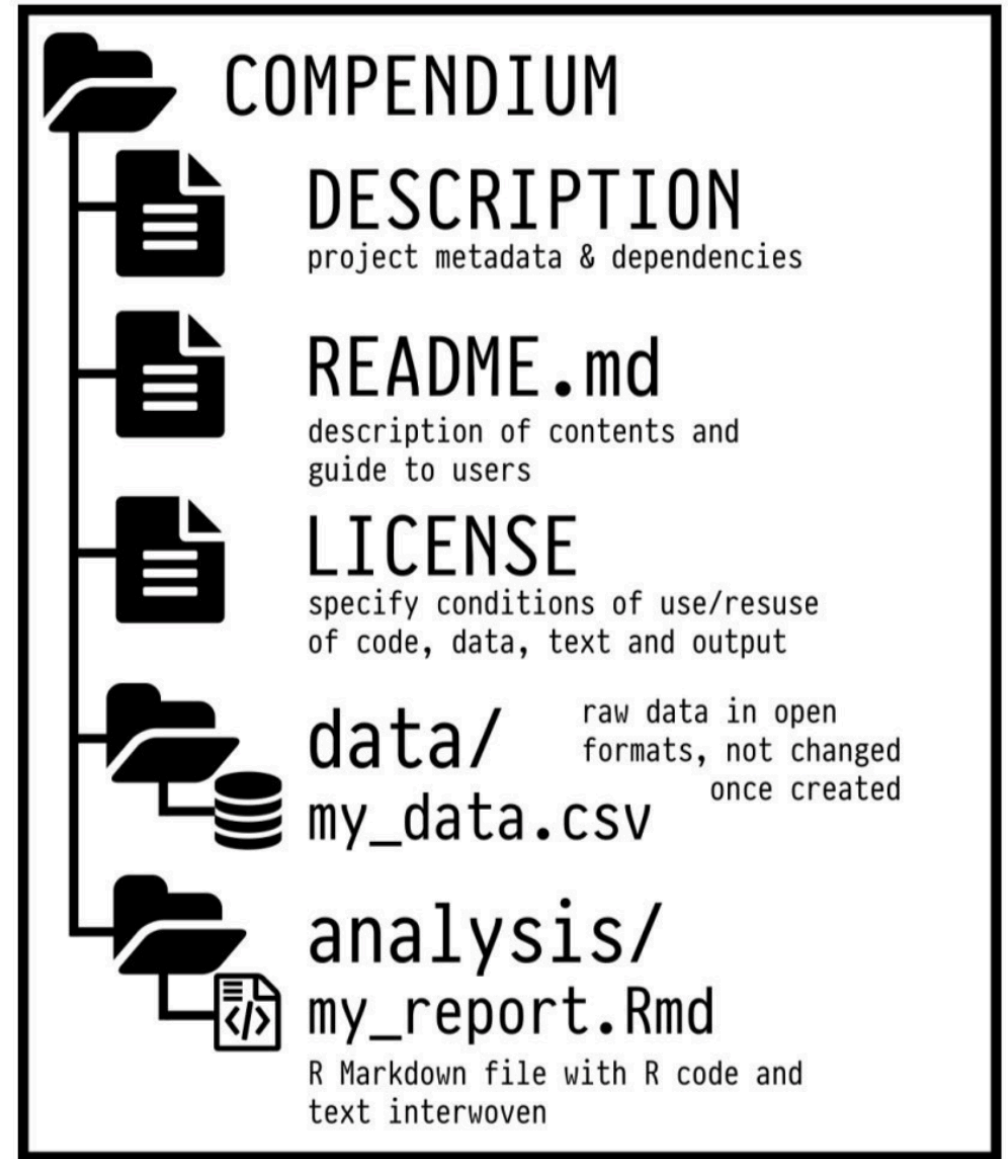for reproducing a scientific workflow.

It can be published on different platforms using the label (or tag, community, …) **research-compendium** (applied on GitHub, Zenodo, OSF) or as a fallback the term **"research compendium"** in the description (used on GitLab).
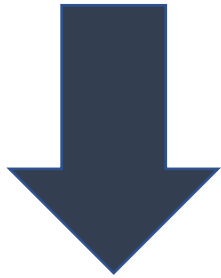
Source: https://research-compendium.science

Research Compendia

Research Compendia

Source: https://twitter.com/benmarwick/status/976465491941191680

Achieving Reproducibility with Research Compendia

Pre-recorded presentation by Prof Emerson del Ponte

Dr Francis Gacenga, A/Prof Adam Sparks

Discussion

- Q&A with Prof Del Ponte

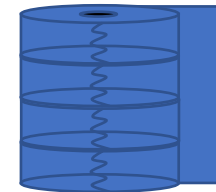- Panel – Belinda Weaver, Adam, Francis and Emerson

Re:produce open data, materials and code
hands on creating a research compendium

Download the files for the hands-on exercise

Using the materials you have already downloaded

Create a research compendium using OSF

Review and Wrap Up

Reproducible take away kit:

- Session materials for reuse: http://bit.ly/reproS5

- DOI Link for our materials: https://osf.io/8cszw/

- License:

    University of Southern Queensland 2019 under a Creative Commons Attribution-NonCommercial 4.0 International License