Research Data Management Skills Development Through Game-Based Learning

MANAGING AND SHARING RESEARCH DATA 19 May 2021

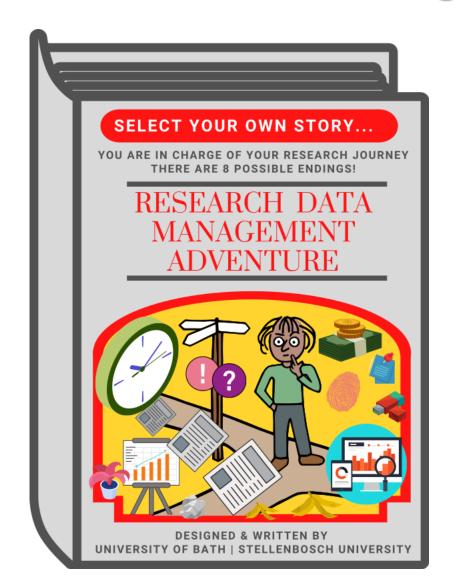


KNOWLEDGE WITHOUT BOUNDARIES

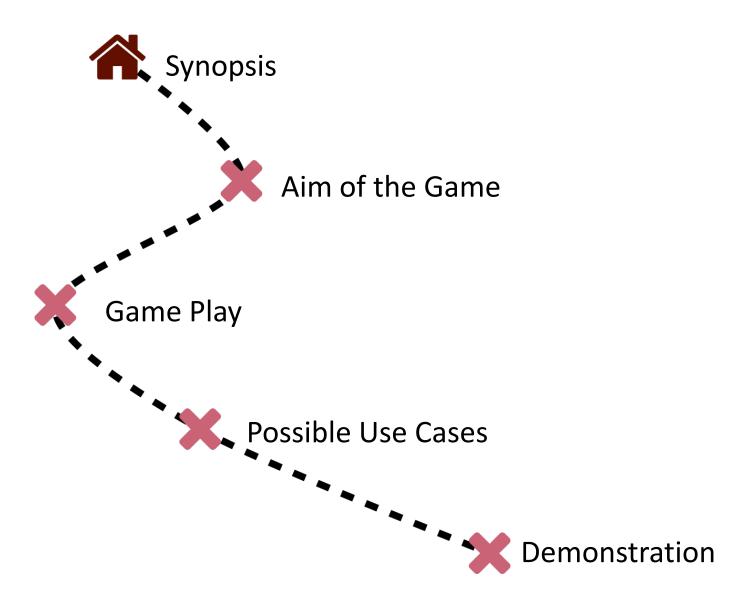
Samuel Simango

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E-mail: ssimango@sun.ac.za



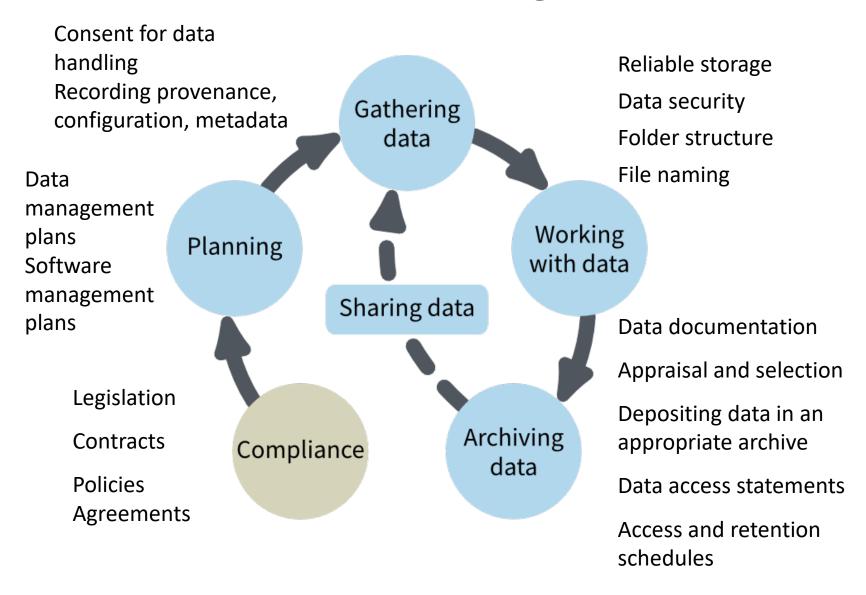
Map





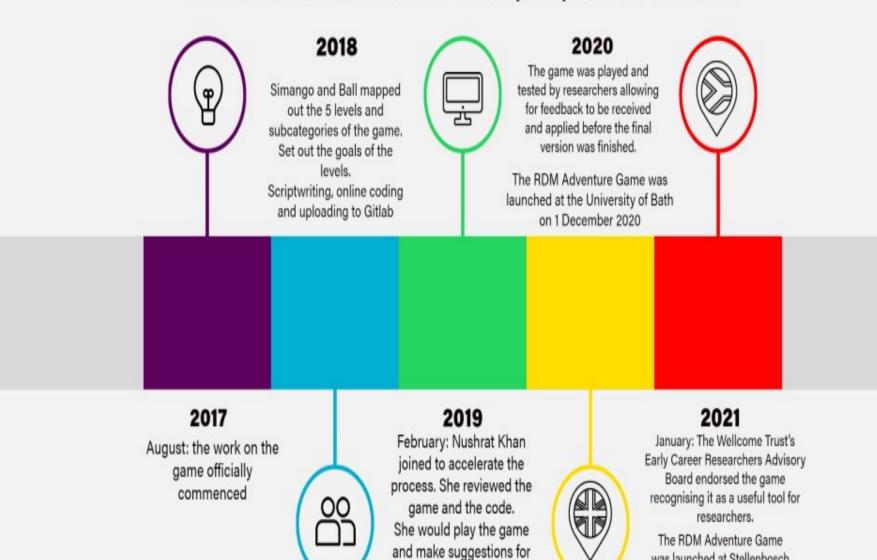


Research data management





The development process of THE RESEARCH DATA MANAGEMENT (RDM) ADVENTURE GAME



improvements which were

then applied.

was launched at Stellenbosch

University on

8 March 2021.

SOURCE: Samuel Simango



It is important that your data are Findable, Accessible, Interoperable, and Reusable (FAIR). The following guides will help you make your data FAIR:

- · Guidance from our data champions.
- · Guidance from the Wellcome Open Research Early Career Researchers Advisory Board.
- · Guide to making data FAIR.

PLANNING

Here are some quick guides to help direct you when it comes to preparing and organising your data.

- Formatting your data in spreadsheets:
- Selecting an appropriate repository;
- Choosing an appropriate license.

PROCESSING

- head to our page on Data Notes.
- · Read our collection of data stories, where researchers share the challenges, learnings and benefits of making their data open.

RE-USE

SUCCESSFUL APPLICATION

COLLECTION & ANALYSIS

Managing data collection can seem daunting. Here are some data collection tips and resources. supplied by our data champions.

PUBLISHING & SHARING

- Ease anxieties you have about sharing your data with our myth busting piece.
- If you have concerns about protecting research participants, while openly sharing your data, see this guide on sharing sensitive personal data.

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Wellcome Open Research









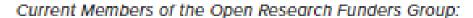
Policy Implementation Tools

RESOURCE: Research Data Management Adventure Game

FOR PROFIT: No

DESCRIPTION: The Research Data Management Adventure Game is a text-based role-playing interactive fiction serious game, based on the data management challenges of a research project. The game takes the form of an online choose-your-own-adventure format in which game players take a simulated research project through the following processes: data management planning, data collection/generation, data organisation, data description and research publication, while encountering data management challenges along the way.

RELEVANCE TO FUNDERS: The Research Data Management Adventure Game is a fun, engaging way to demonstrate good practice in research data management.









































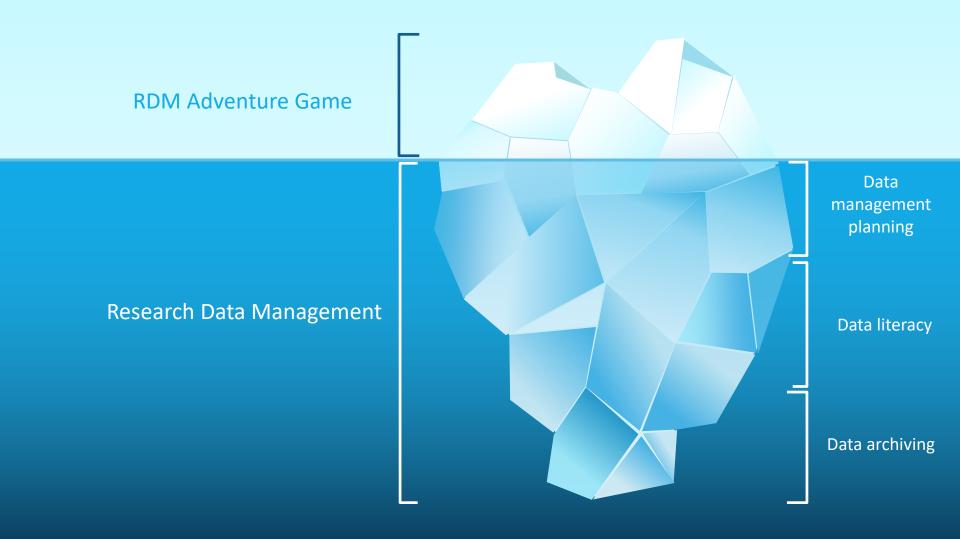




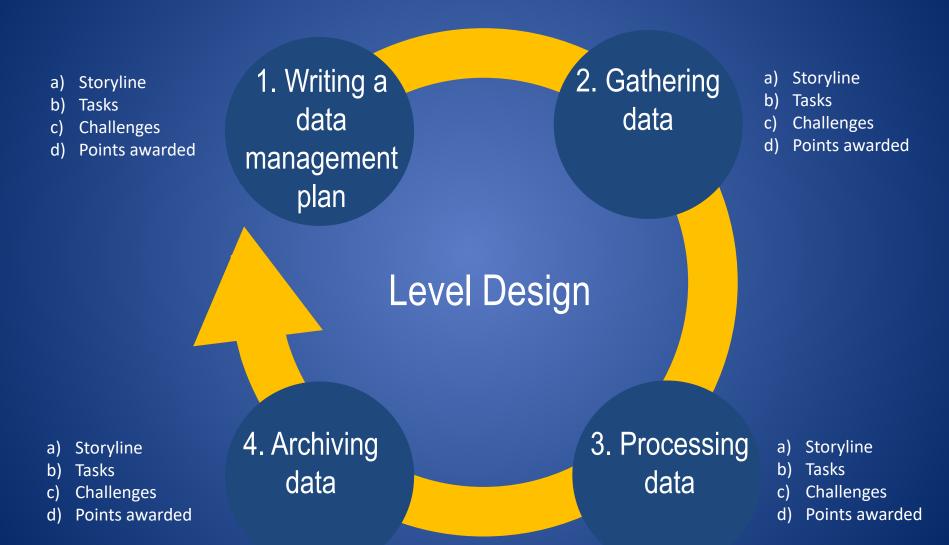


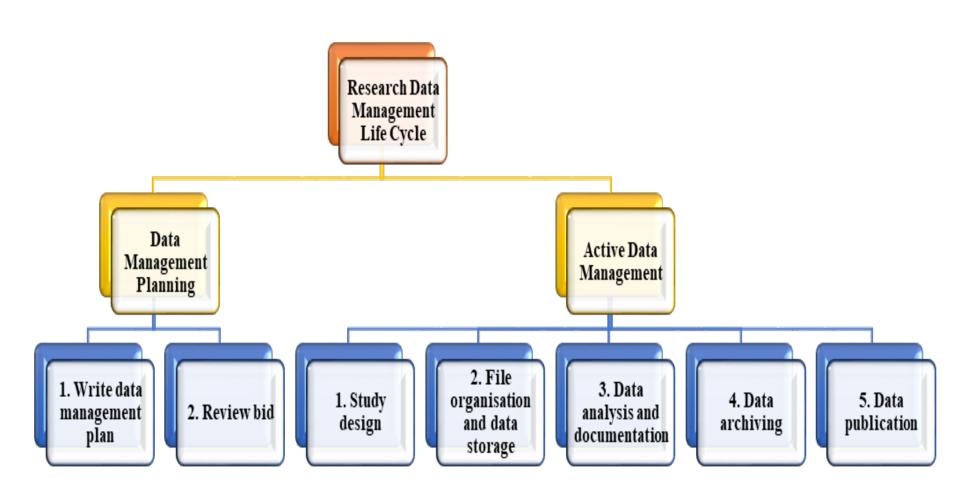


Tip of the Iceberg

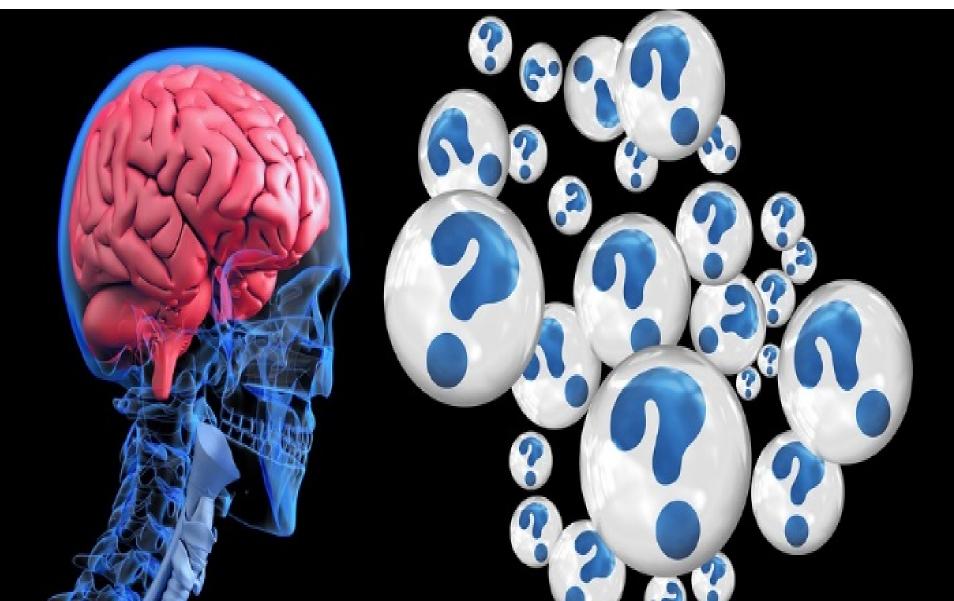


Simulated Activities





How could the game be used?

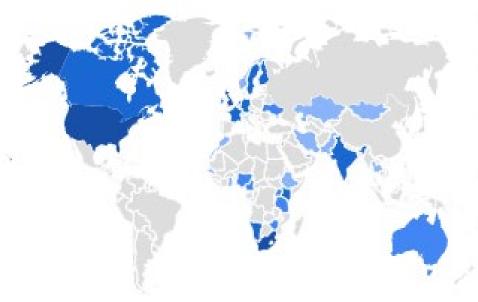


Interactive Training

Virtual Training

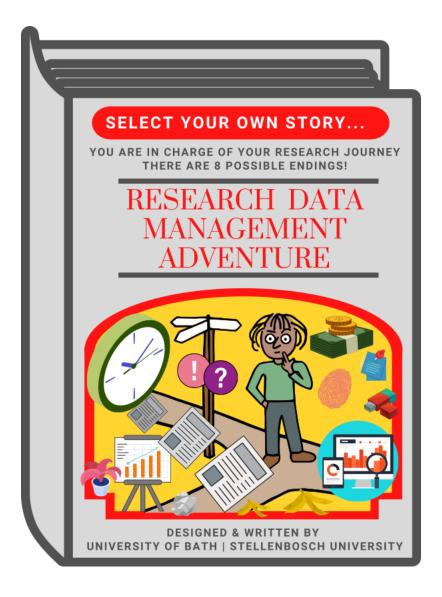
WHERE ARE YOUR USERS VISITING FROM?

Users ▼ by Country



COUNTRY		USERS
South Africa	306	-
United Kingdom	205	† 2,462
United States	72	
France	27	-
Netherlands	18	-
Germany	9	-
Sweden	9	-





I wonder if there are any questions?



Further Reading

- Ball, A. 2020. Fancy a Game of Research Data? University of Bath: Library News.
 Available: https://unibathlibrary.wordpress.com/2020/12/01/fancy-a-game-of-research-data/
- Ball, A and Simango, S. 2018. **Serious Gaming: Creating a Research Data Management Adventure**. *15th Stellenbosch University Library Symposium*.
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- Bolarinwa, S. 2021. **SU Academic Gamifies Research Data Management.** MatieMedia. Available: https://www.matiemedia.org/su-academic-gamifies-research-data-management/
- Everson, Z. 2021. University of Bath and Stellenbosch University collaborate on new Research Data
 Management Adventure. Available: https://blogs.bath.ac.uk/iro/2021/04/23/university-of-bath-and-stellenbosch-university-collaborate-on-new-research-data-management-adventure/.
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 https://www.force11.org/blog/adventures-research-data-management-become-reality.
- Simango, S. 2021. **Research Data Management Adventure Game Launched.** Stellenbosch University News. Available:
 - https://www.sun.ac.za/english/Lists/news/DispForm.aspx?ID=8048#:~:text=The%20RDM%20Adventure%20Game%20was,and%20is%20hosted%20on%20GitLab.