

Making an Impact with Research Data

Research Data...

'The recorded factual material commonly accepted in the scientific/research community as necessary to validate research findings' *EPSRC*

"In a world where data is in abundant supply, the ability to understand, visualise and communicate the messages in that data is becoming more and more important" (Thomson, 2017)

"Every day we create 2.5 quintillion bytes of data; 90% of the data in the world today has been created in the last two years alone" (J Balm, 2017)

Research Data & IMPACT...

Should be...

- Discoverable
- Accessible
- Open (unless confidentiality/commercial reasons)
- Easily accessible
- Useable
- Protected from loss and degradation
- Stored in a "trusted" repository
- Have a DOI
- Provide extra context
- Link to article/s
- Context... Explanations

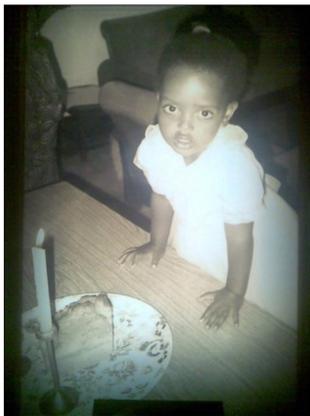


Images Need Data for Context



Images can add extra value to data

Combining Data with Images... Maximum Impact!



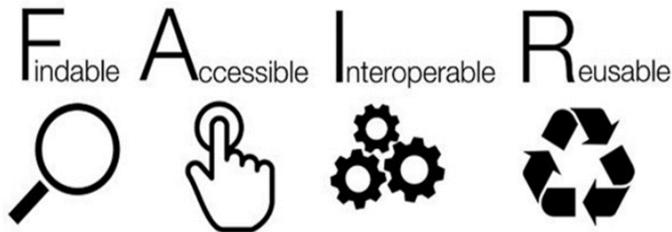
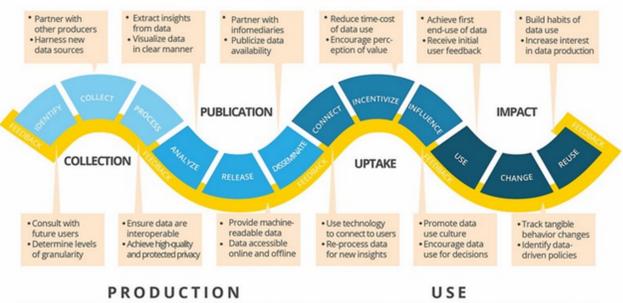
Name: Chanelle
 Age: 8
 Favourite Sport: Jogging with her father
 Favourite Sweet: Chocolate
 Favourite Drink: Milk
 Enjoyed: TV and music
 Cause of death: Hacked by machette

Name	Age	Favourite Sport	Favourite Food	Enjoyed	Cause of Death
Chanelle	8	Jogging	Chocolate	TV & Music	Hacked by Machette
Patrick	5	Cycling		Playing with sister	Hacked by Machette
Fidele	9	Football	Chips	TV and playing	Shot in the head



Data Needs Context... and to be preserved for future generations – the whole picture... not just the figures and facts... but the images that bring the data to life!

DATA VALUE CHAIN



Digital Archaeology @jim_boulton Follow

Most Scientific Research Data From the 1990s Is Lost Forever

A new study has found that as much as 80 percent of the raw scientific data collected by researchers in the early 1990s is gone forever, mostly because no one knows where to find it. theatlantic.com

6:24 PM - 10 Jul 2017
 93 Retweets 50 Likes

Peter Falkingham @peterfalkingham · 9m

Replying to @peterfalkingham
 Note that all our data, including model + the photos used to generate it, are open and available on @figshare:

8.5 m Ammonite tool mark (trace fossil of shell dr...
 An 8.5 m Ammonite Trace. From Lomax et al 2017, PLOS ONE. Contains model (*.obj), material (*.mtl), texture (*.jpg), and complete photoset used to genera... figshare.com

Dawn Hibbert, ORCID: 0000-0001-9741-5850

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Open Science Retweeted

Thomas Leeper @thosjeeper · 18h

This is why #openscience matters. It's about workflow, but also archiving, #opensource tools, and expecting the unexpected.

Terry McGlynn @hormiga

I just got an email asking about data in a 20 year old paper. I have a folder on my computer for this project, full of unreadable files.



Behind each of these photo's is a person's story – unfortunately – we will never know what that was, or even their names... All we know is their lives were ended too soon during the Rwandan genocide in 1994. (Used by permission, with thanks to the Kigali Genocide Memorial who work hard to preserve this data, in order that it will not be forgotten, or repeated).

