DATA ARCHITECTURE IN AGILE, MULTIDISCIPLINARY TEAMS

Applying data architectural rigour to the software production process

THE ROLE OF THE AGILE DATA ARCHITECT

How the data architect integrates into the agile development process

What?

The data architect

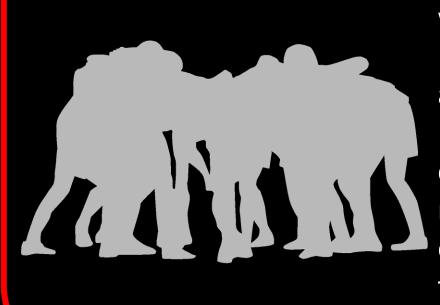


Habitat: Libraries, archives, quiet reading spaces

Behaviour: Solitary, bookish, contemplative

Description: Given to long periods of semantic ontological contemplation resulting in the production of ideologically faultless and wholly impractical taxonomies

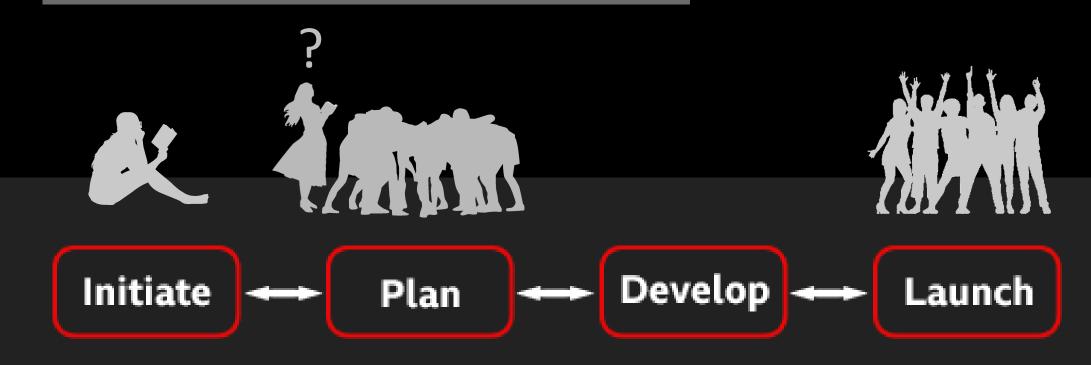
The agile team



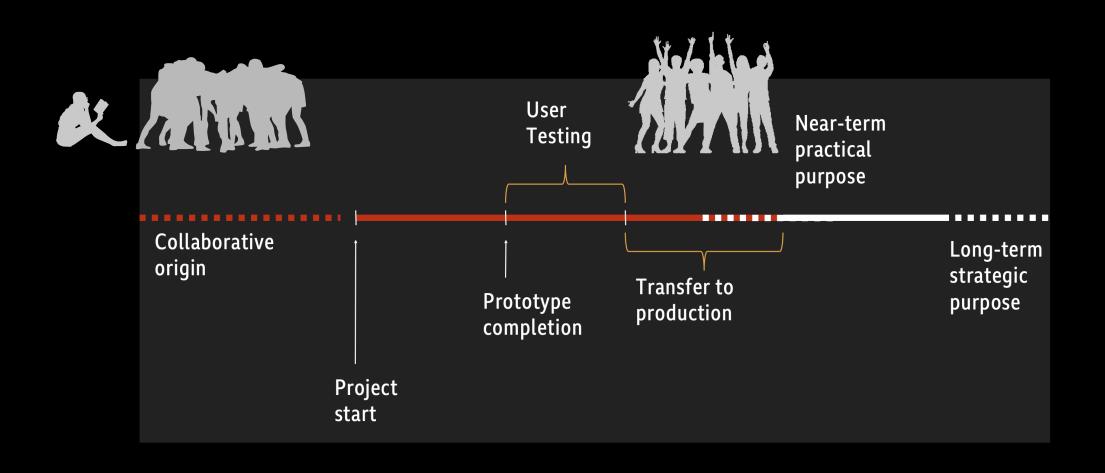
Habitat: Collaborative spaces, whiteboards

Behaviour: Pack animal. Uses speed and agility to bring down its quarry Description: Fast paced and creative, quite happy to learn by mistakes and plunge headlong into error prone scenarios as part of the learning process

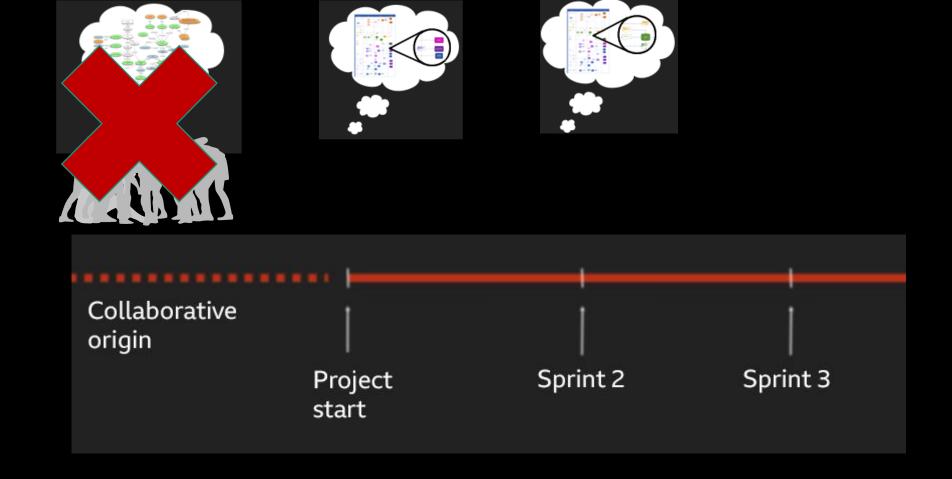
Traditional process



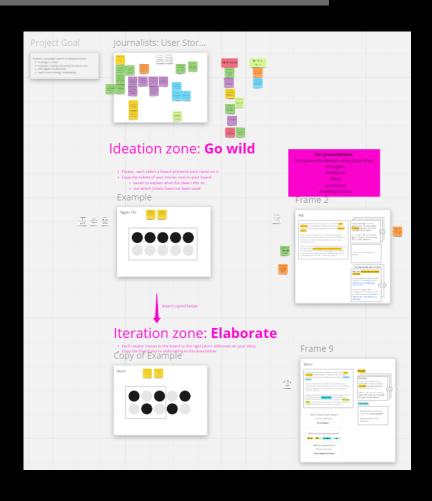
Agile development process



Agile sprint process

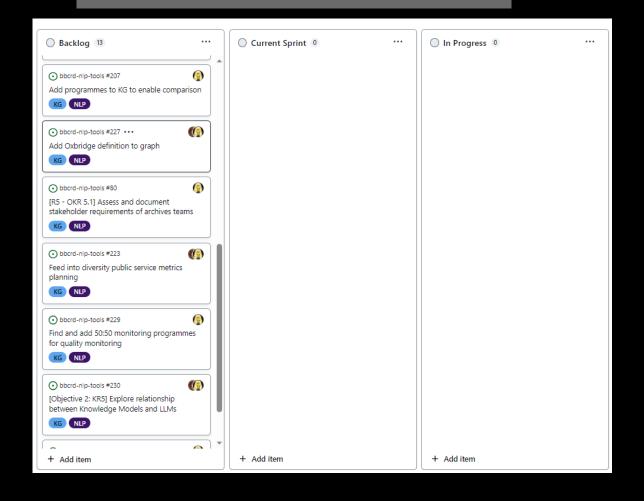


Ideation



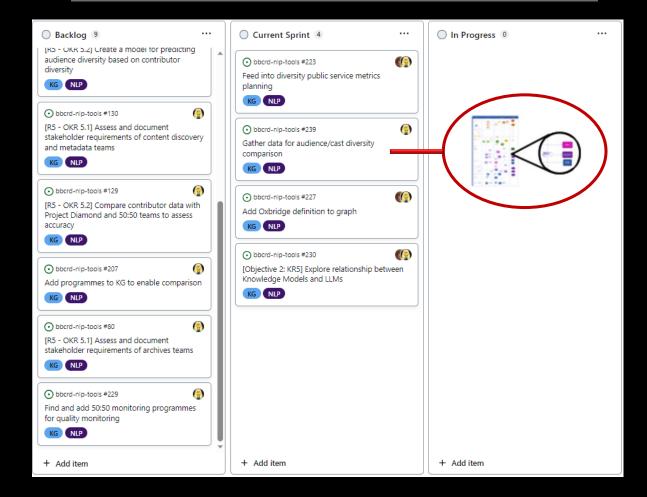
Data architect contributes to ideation sessions and research, everyone's ideas are equally valid here

Project start



Data architecture tasks are part of the process and live on the board alongside the others

Sprint planning



Individual tasks are worked on where necessary to the shared team goal

Project retro/review

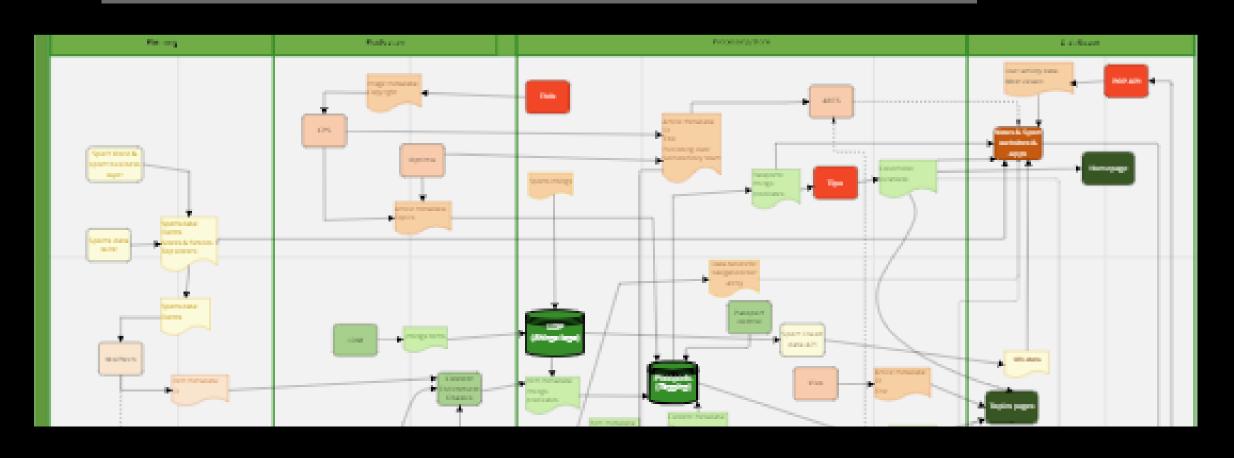


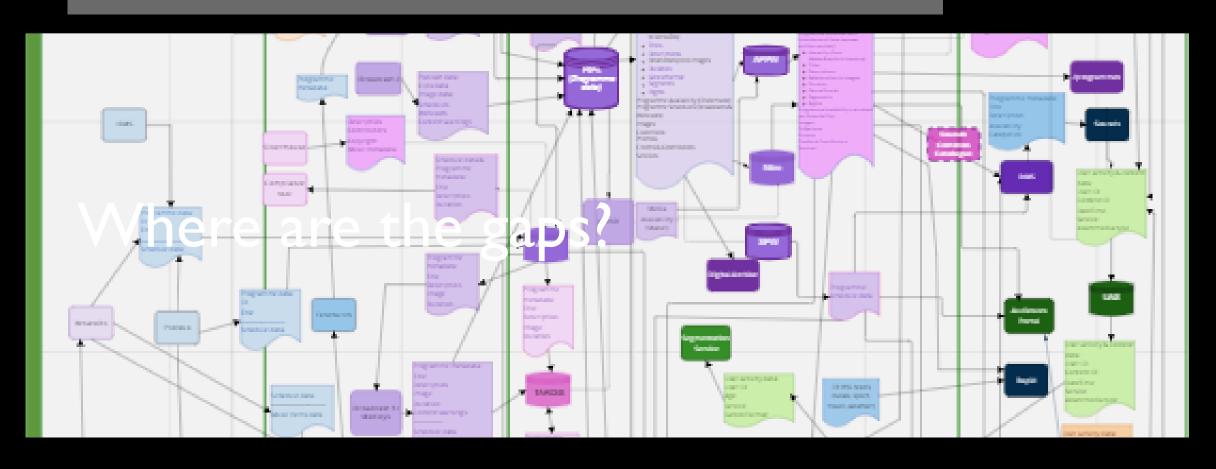
Data architects raise points alongside others so understanding is shared

MAPPING THE DATA ENVIRONMENT

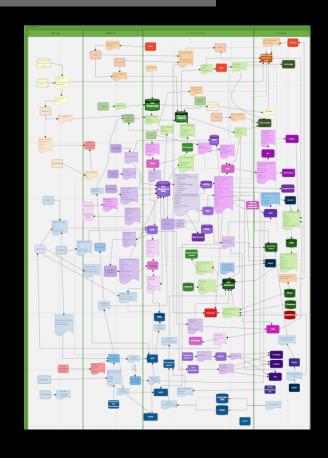
Getting to grips with the data ecosystem to maximise potential opportunities

- Do you know where you're trying to get to?
- Do you know where you are now?
- Do you have a map?



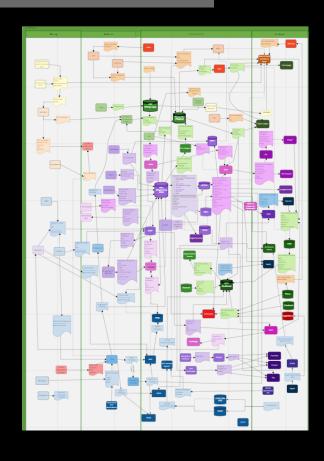


Where are the overlaps?





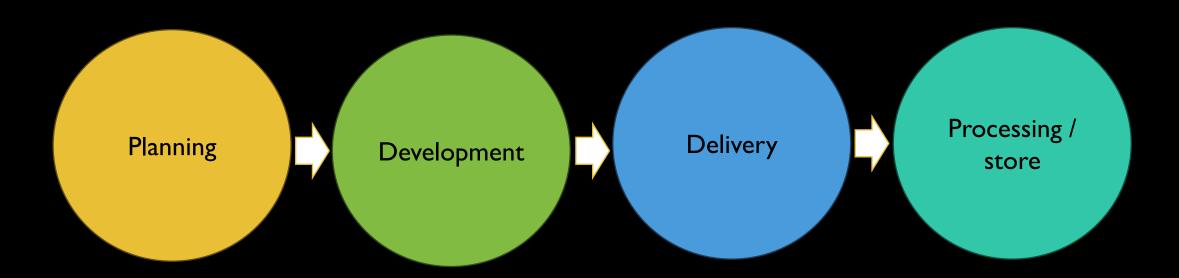
Where is the buried treasure?



ORIGINATING DATA ARCHITECTURE PROJECTS

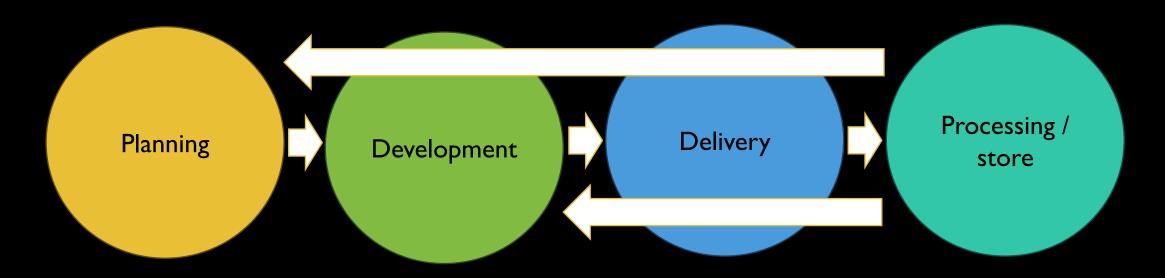
How the data architect originates projects drawing on the data ecosystem

Using the data ecosystem map



What is being lost?

Using the data ecosystem map



Are you using what you have?

Thank you

jo.kent@sciencemuseum.ac.uk

https://www.linkedin.com/in/kentjo/