NATIONAL ARCHIVES OF AUSTRALIA

BUILDING TRUST IN THE PUBLIC RECORD

managing information and data
for government and community

INTEROPERABILITY SCENARIOS

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To understand common interoperability hurdles and successes, the National Archives of Australia consulted with Government agencies on their experiences. From this consultation we chose four interoperability scenario hurdles that are designed to be used with the interoperability development phases resource.

Use the scenarios as a guide to plan your own workflows with the skills and resources you have available. You can rearrange the order of the scenario steps; replace them with other actions; omit them or operate them in parallel.

Scenario 1 - Improve data integration to streamline business processes

Access your data more quickly using tools and technologies to streamline data access methods via data integration and handling.

Scenario 2 - Perform a data migration of legacy data to standardise compatible form

Migrate your old data located in legacy systems that hampers fast and efficient data analysis. Overcome this hurdle with an initial data assessment, followed by data migration.

Scenario 3 - Use standardised data exchange methods for both internal and external stakeholders

Meet your users' needs by improving data exchange for your external clients with standardised exchange methods. User research will clarify their needs and help identify the tools and technologies that enable secure, standardised 'self-serve' data exchange.

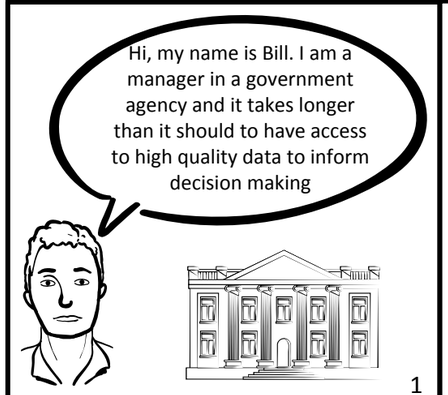
Scenario 4 - Use consistent metadata to support publication and exchange of data

Find data quickly by using metadata standards to make information about data (its metadata) easier to find. This process includes metadata architecture, and uses tools and technologies to support good metadata management.

Related links

- Interoperability development phases
- interoperability development phases resource.pdf
- Interoperability scenarios

Improve data integration to streamline business processes



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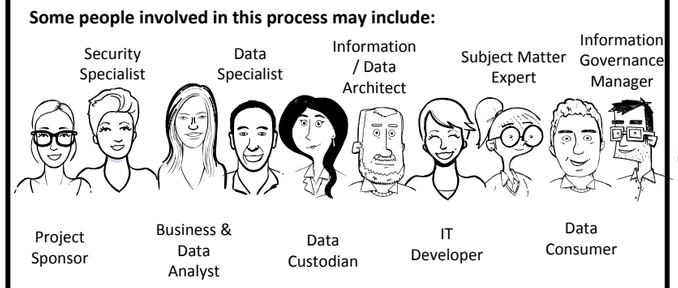
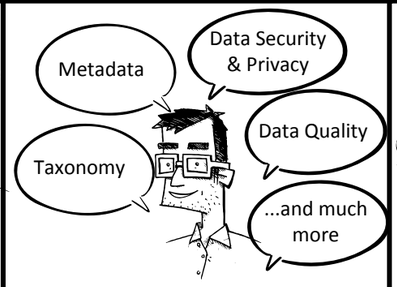


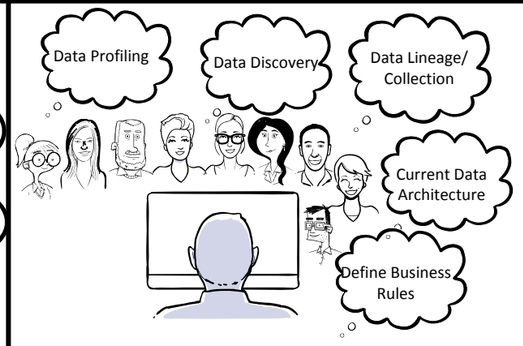
...Bill starts by understanding the people that should be involved in the improvement

3



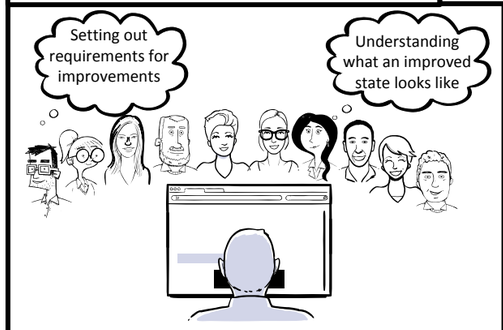
....**data & information governance** standards are understood

4



...the team kicks-off a **current state assessment**

5



...**future vision for an improved state** is created

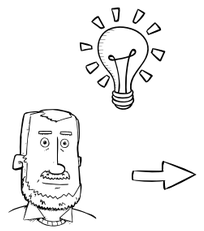
6

...a **gap analysis** is undertaken to understand what work is required

7

...Bill works with the team to **design a plan** & identify skills

8



...potential solutions could include:

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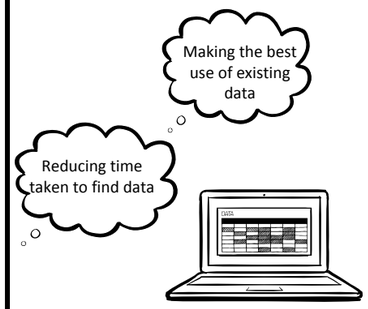
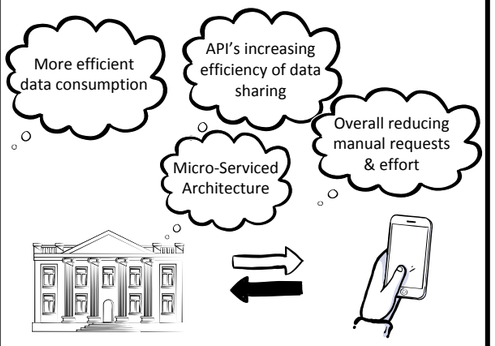


...**data indexing & discovery**

10

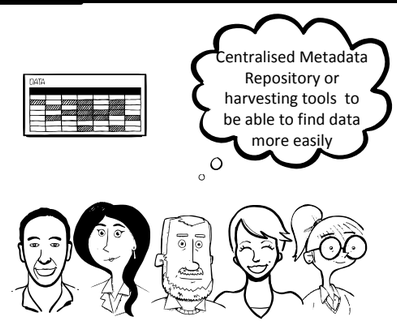


...**data integration** technologies & tools

11

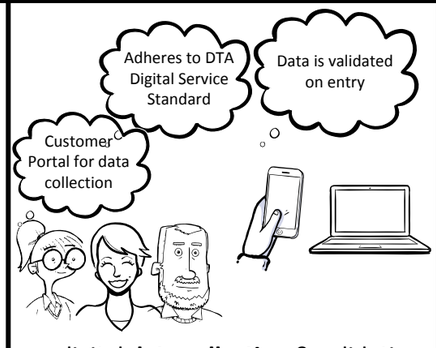
...**data flows** & **data services**

12



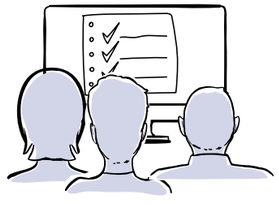
...metadata repository

13



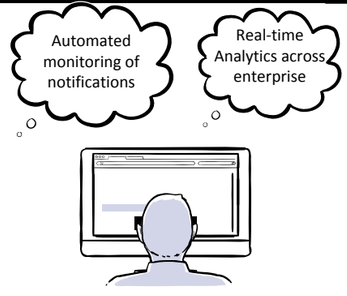
...digital **data collection** & validation mechanisms

14



...Bill ensures new process and applications are embedded in BAU

15



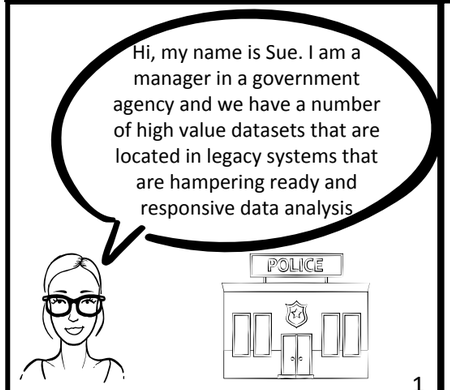
...Bill ensures **monitoring** is in place to drive **continuous improvement**

16

17

NATIONAL ARCHIVES OF AUSTRALIA

Perform a data migration of legacy data to standardised compatible form



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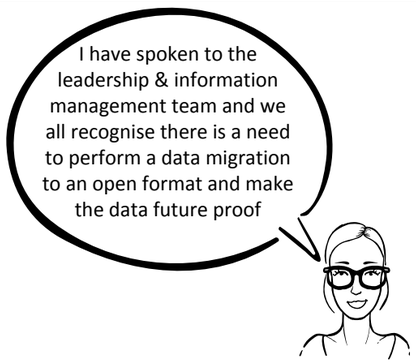

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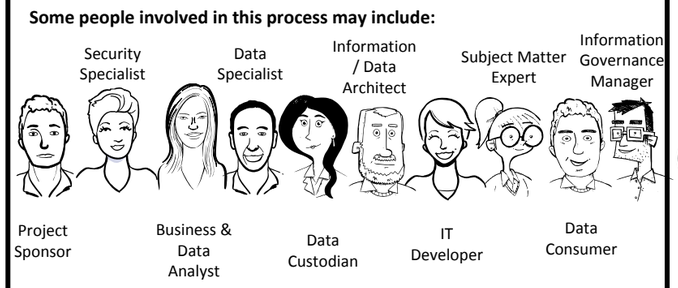
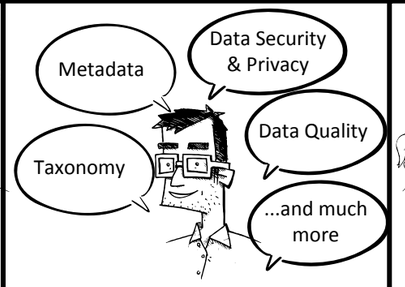
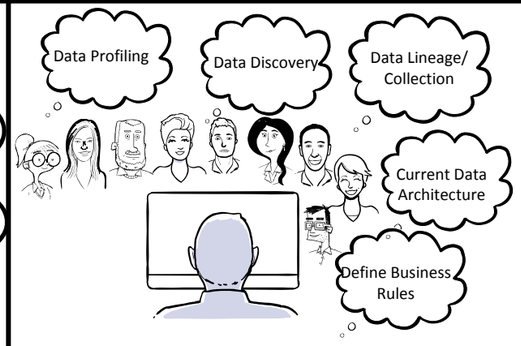


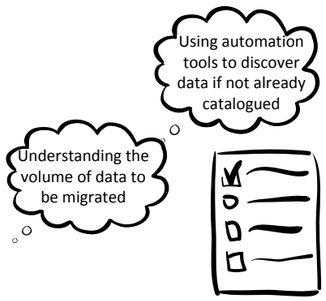
...Sue starts by understanding the people that should be involved in the improvement 3



....**data & information governance** standards are understood 4

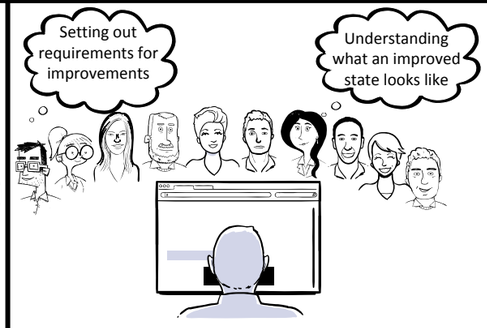


...the team kicks-off a **current state assessment** 5



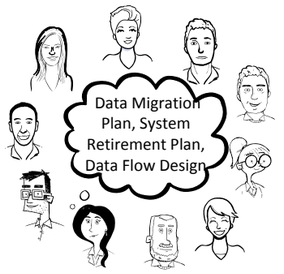
...this also includes conducting a **data holdings audit** 6

...and completing a **data quality assessment** 7

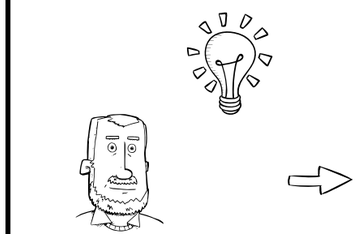


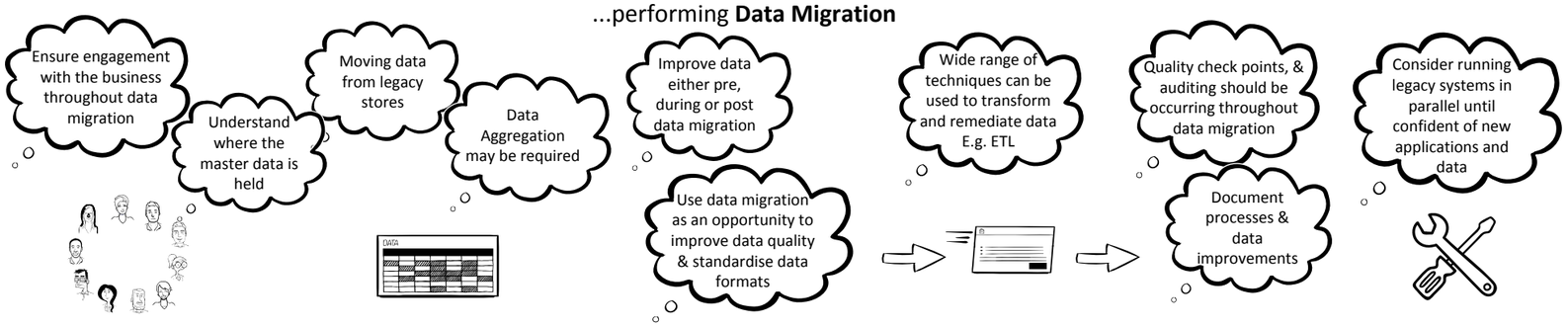
...**future vision for an improved state** is created 8

...a **gap analysis** is undertaken to understand what work is required 9



...Sue works with the team to **design a plan** & identify skills 10


...things to consider during a data migration include: 11



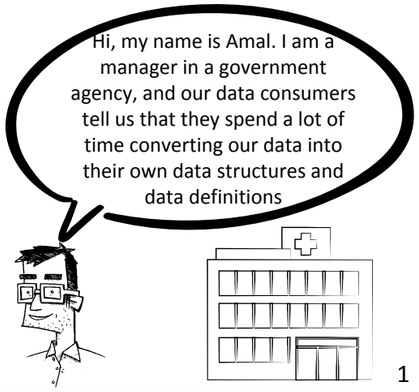
12

...Sue ensures **monitoring** is in place to drive **continuous improvement** 13

14

NATIONAL ARCHIVES OF AUSTRALIA

Use standardised data exchange methods for both internal and external stakeholders



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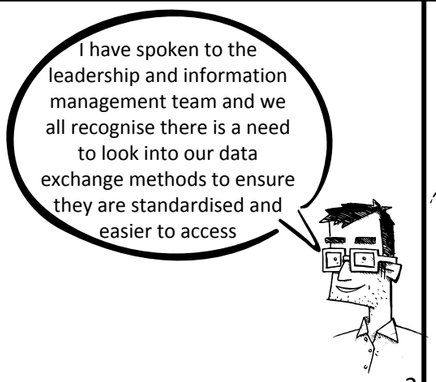

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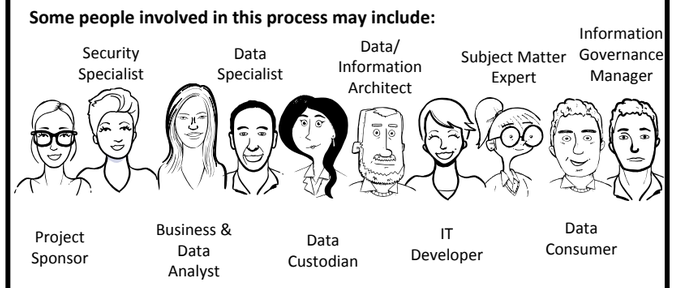
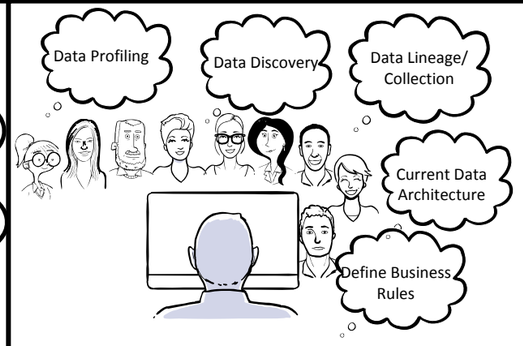


...Amal starts by understanding the people that should be involved in the improvement

3

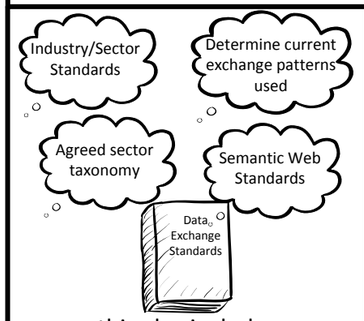
....**data governance** standards are understood

4



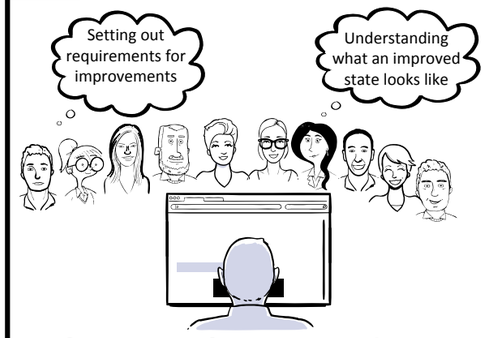
...the team kicks-off a **current state assessment**

5



...this also includes determining **data exchange standards** & **formats**

6



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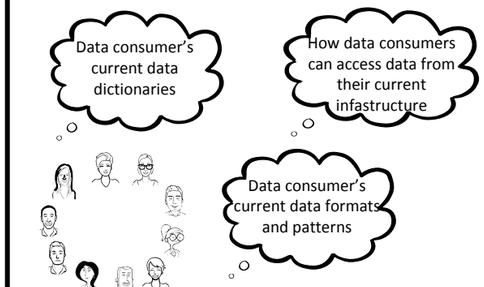


...this also includes conducting **user research** to ensure data exchange services are aligned with internal/external users

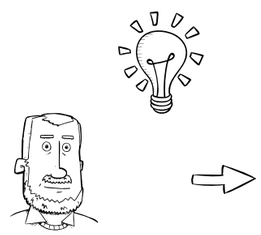
8

...a **gap analysis** is undertaken to understand what work is required

9

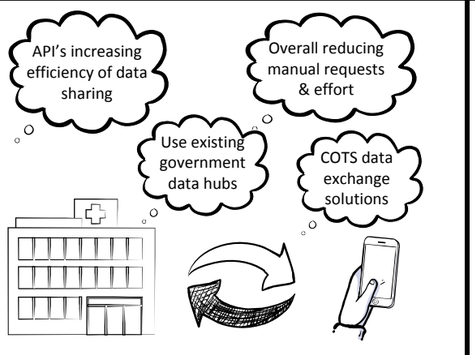
...Amal works with the team to **design a plan** & identify skills

10



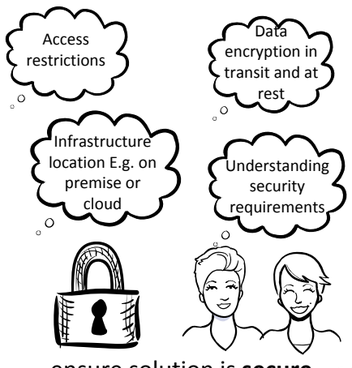
…some data exchange considerations include

11



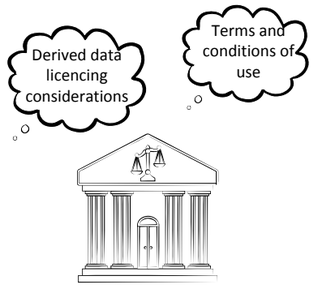
...**data exchange** solutions

12



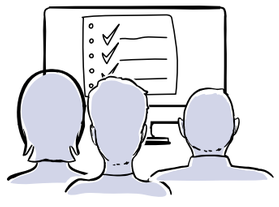
...ensure solution is **secure**

13



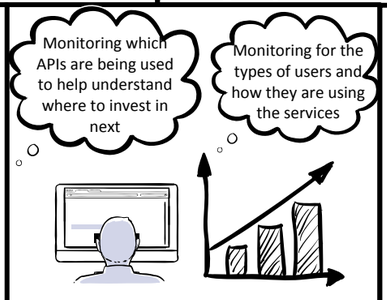
...ensure appropriate **licensing** & **terms of use** have been applied

14



...Amal ensures new process & applications are embedded in BAU

15



...Amal ensures **monitoring** is in place to drive **continuous improvement**

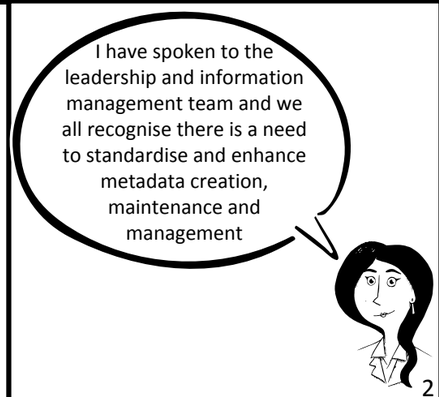
16

17

NATIONAL ARCHIVES OF AUSTRALIA

Use consistent metadata to support publication and exchange of data

1



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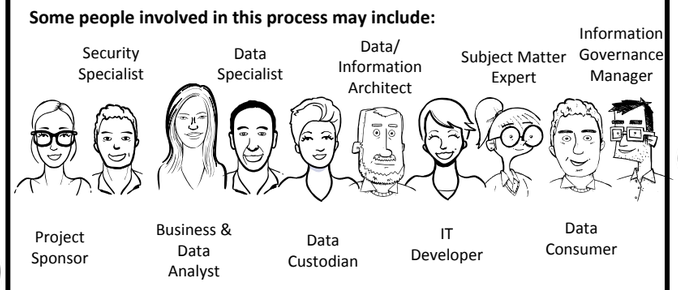

...Bao starts by understanding the people that should be involved in the improvement

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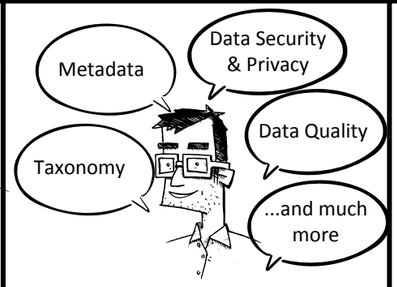

....**data governance** standards are understood

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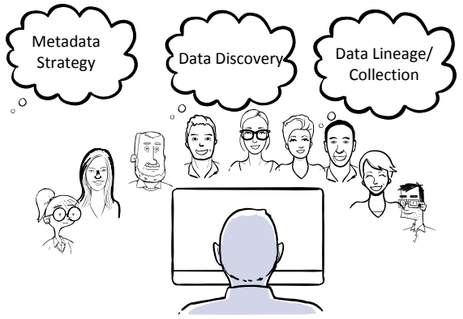

...the team kicks-off a **current state assessment**

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...**future vision for an improved state** is created

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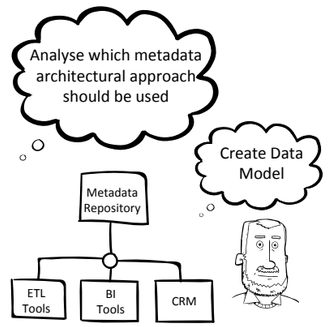

...this also includes defining **metadata architecture**

7

...a **gap analysis** is undertaken to understand what work is required

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...Bao works with the team to **design a plan** & identify skills

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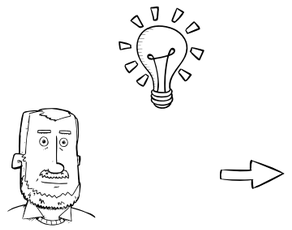

...some considerations for metadata improvement include:

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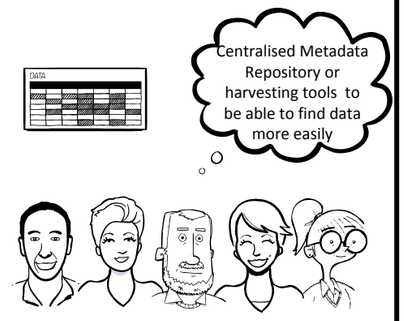
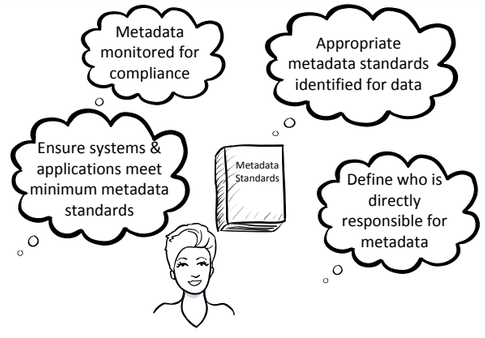


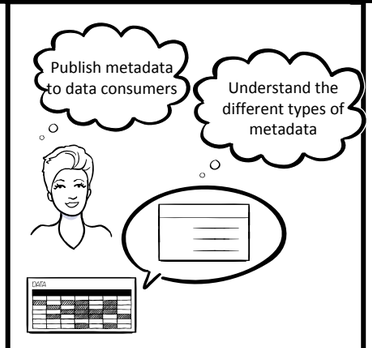
...creating **metadata repository**

11



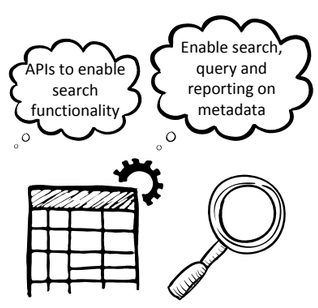
...ensuring **metadata standards** are being applied

12



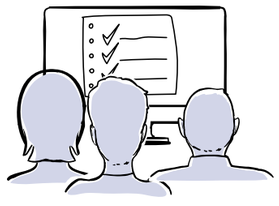
...**creating metadata**

13



...enabling **searching for metadata**

14



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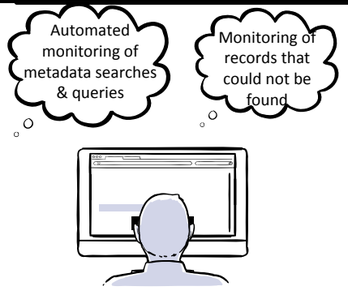

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