

Machine-actionable Data Management Plans

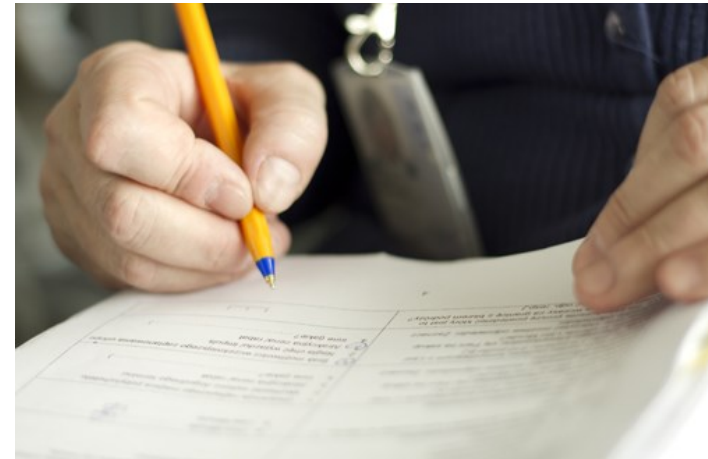
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Data Management Plans (DMPs)

- manually created text documents
- considered as bureaucracy
- created too late
- vague
- depend on human factor
 - scrupulousness
 - awareness



Data Management Plans



How to discover these tools?
Which one do I need to use?
Why do I have to provide the same
information again?

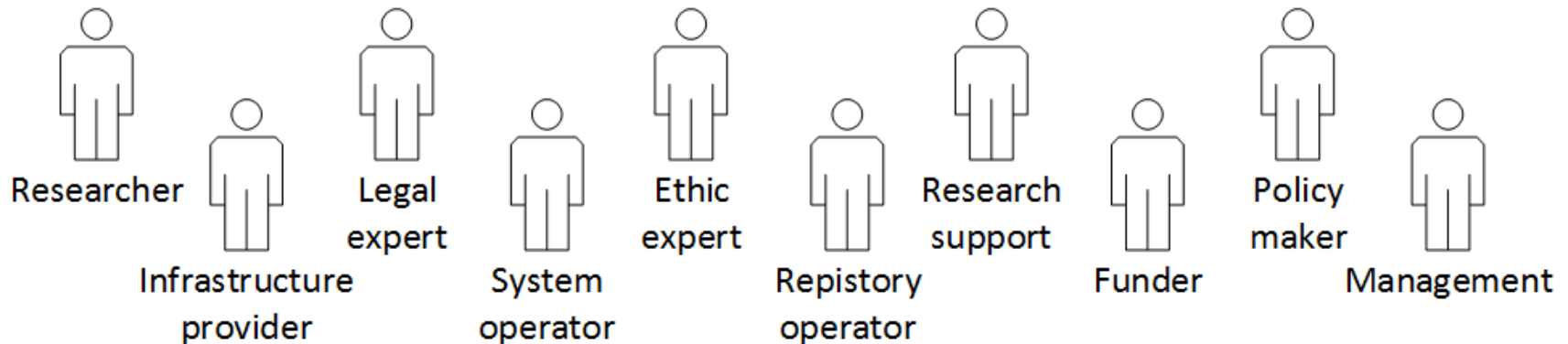


Why haven't they consulted us before?
Who is going to pay for this?
We don't have enough people for that!

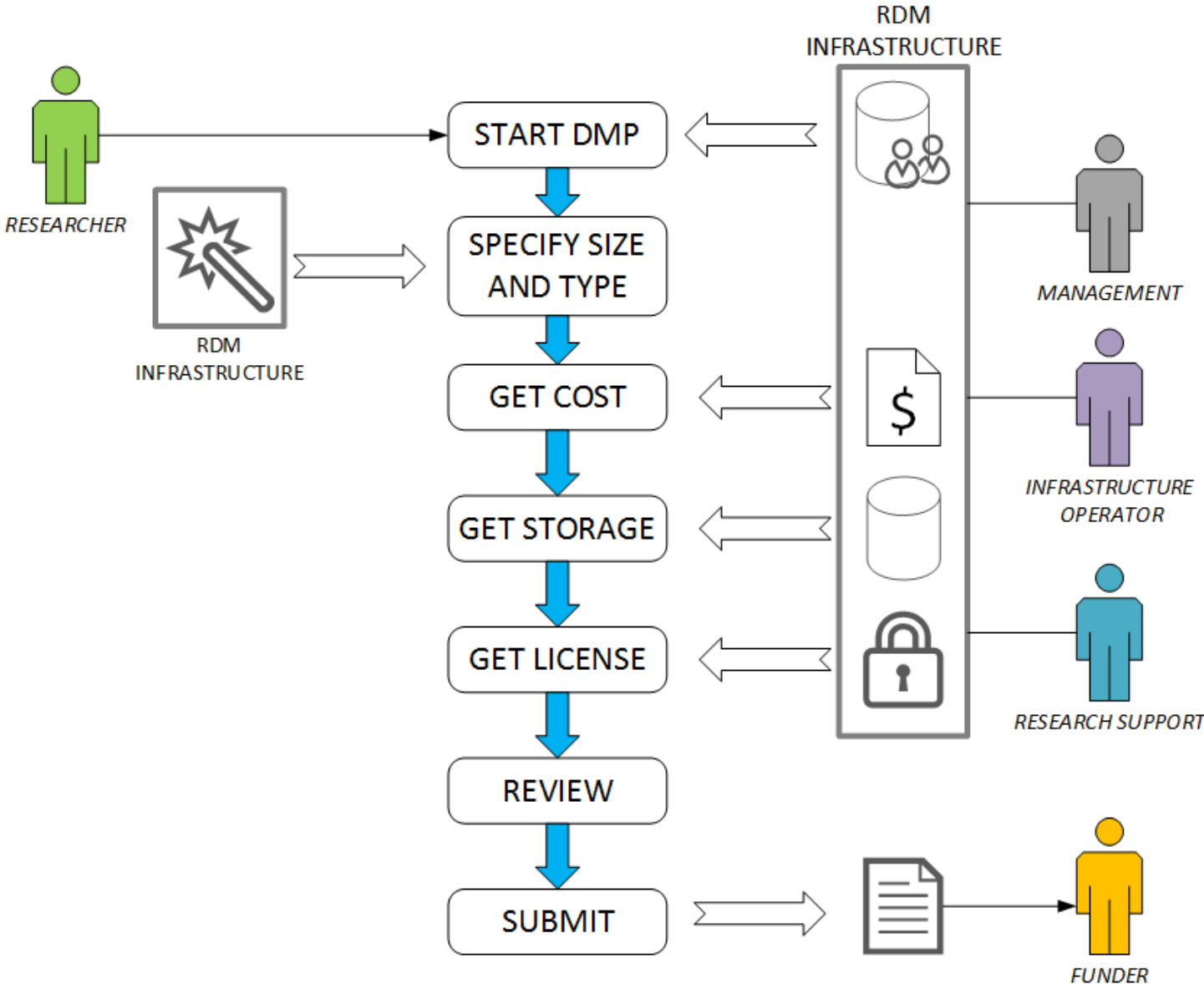


Research data lifecycle

- Stakeholders involved in research data management
 - require information at certain stages
 - can provide information if requested at a proper stage
- Many problems can be avoided when
 - timing is right
 - information flow is ensured



Automated Data Management Workflow

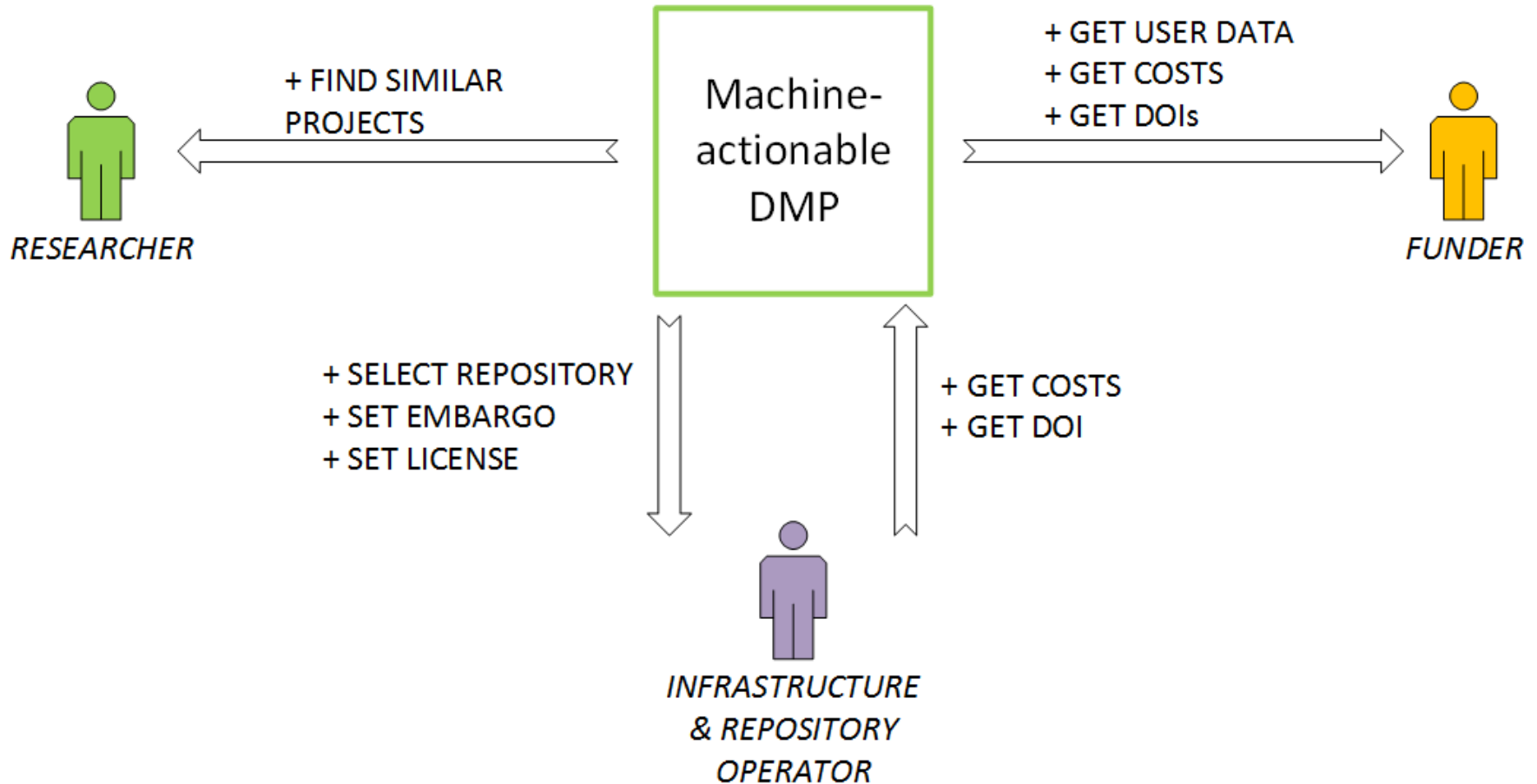


Machine-actionable DMPs

- living documents
- automate data management
 - collect information from systems
 - trigger actions in systems
- facilitate validation
- This requires
 - well-defined RDM workflows
 - data management infrastructure
 - common data model

```
"dc:creator":[ {  
  "foaf:name":"John Smith",  
  "@id":"orcid.org/0000-1111-2222-3333",  
  "foaf:mbox":"mailto:jsmith@tuwien.ac.at",  
  "madmp:institution":"AT-TU-Wien"  
}],
```

Machine-actionable DMPs



- RDA DMP Common Standards working group
 - goal is to define common data model for DMPs
- Join open consultation on GitHub
 - <https://github.com/RDA-DMP-Common/user-stories>
- Attend meeting in Vienna
 - 22 Nov 2017, 14:00-17:00
 - Universitätsbibliothek Wien
 - <https://goo.gl/forms/kyW0nK2QUmGkSpVV2>
 - pre-workshop meeting



Conclusion

- Shortcomings of existing DMPs
 - manually completed, vague, not updated, ...
- Machine-actionable DMPs
 - living documents
 - automate data management
 - collect information from systems
 - trigger actions in systems
- Implementation requires
 - well-defined data management lifecycle
 - data management infrastructure
 - common data model



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Machine-actionable DMPs are not utopia!