RISE Workshop

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Background: Capability Maturity Model

1. Definition

“A process improvement approach that provides organizations with the essential elements of effective processes, which will improve their performance”

2. History

Developed by Carnegie Mellon Software Engineering Institute to describe organizational capability to develop software reliably (i.e., predictably on time, within budget and with required functionality)
Some more background

• Represents our understanding of policy landscape, relevant standards and norms

• Designed to be easily applied in workshops based on DCC experience 2010-15, lessons learned from earlier model (CARDIO)

• 12 UK institutions involved in community review workshop 2016
Three models compared (a biased viewpoint)

<table>
<thead>
<tr>
<th></th>
<th>CMM for RDM</th>
<th>Kouper et al</th>
<th>RISE</th>
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</thead>
<tbody>
<tr>
<td>Very detailed level descriptions</td>
<td>Simple level descriptions</td>
<td>Detailed</td>
<td>Assess ability to add value rather than ‘maturity’ per se</td>
</tr>
<tr>
<td>‘Common features’ add clarity and potential to build in measurement</td>
<td>Reflects US library context</td>
<td>Assess ability to add value rather than ‘maturity’ per se</td>
<td>User guide based on application in context</td>
</tr>
<tr>
<td>Metrics not well defined</td>
<td>Content useful? Uptake?</td>
<td>More sensitive to change in policy and practice</td>
<td>More sensitive to change in policy and practice</td>
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<tr>
<td>Uptake?</td>
<td></td>
<td>Relatively wide uptake</td>
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Where has RISE been used?

DCC facilitated
- Cranfield
- Stirling
- Singapore
- Northumbria

Independently
- Cambridge
- Sussex
- 4TU.Centre Research Data (blog here)
- Melbourne
- Potsdam
- Leibniz Hannover
21 capabilities across 10 service areas

1. RDM Policy and Strategy
2. Business plans and sustainability
3. Training
4. Advisory services
5. Data Management Planning
6. Active data management
7. Appraisal and risk assessment
8. Preservation
9. Access and publishing
10. Discovery
RISE levels of capability

Level 1: Compliance with funder expectations

Level 2: Locally-tailored services

Level 3: Sector-leading
21 capabilities across 10 service areas

**Security management**

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<tr>
<th>Level One</th>
<th>Level Two</th>
<th>Level Three</th>
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<tr>
<td>The service provides authenticated access to storage that is protected from unauthorised data access, and researchers are made aware of procedures for data protection and de-identification.</td>
<td>The service provides tools/environments that enable researchers to de-identify, encrypt or control access to data as required.</td>
<td>The service provides researchers from across the institution with access to ISO 27001/2 or equivalently accredited facilities for analysis of shared sensitive data.</td>
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Using RISE to take stock and plan

1. Set the scope and identify context

2. Classify current provision for relevant capabilities

3. Identify any feasible changes to aim for

NB. ‘Right’ level is what makes sense in your institutional context, higher is not necessarily better

How to Use RISE: http://www.dcc.ac.uk/resources/how-guides/RISE
References and Acknowledgements

CMM for RDM  (Slides 23-28) Thanks to Kevin Crowston and Jian Qin

Wiki: http://rdm.ischool.syr.edu/xwiki/bin/view/CMM+for+RDM/WebHome

Data Management Framework CMM – Australian National Data Service

RISE - Thanks to Kevin Ashley and Jonathan Rans

Other recommended reading:
CESSDA Capability Development Model  https://www.cessda.eu/Projects/All-projects/CESSDA-SaW/WP3/CESSDA-CDM


Thank you!

With thanks to Angus Whyte

In collaboration with:
Group Exercise

Now that you have seen how RISE is designed to be implemented, we will now try it out using an online tool developed with SPARC Europe and which can be found here:

https://sparceurope.org/evaluate-your-rdm-offering/

Please implement the tool in groups and answer all questions to the best of your ability. Three graphs will be produced per group which we will then compare and contrast between groups.