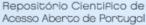
Large Scale Repository Auditing to ISO 16363

José Carvalho – jcarvalho@sdum.uminho.pt

















Topics

- RCAAP Project
- ISO 16363
- Methodology
- Results (preliminary audit)
- Future steps



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RCAAP Project



Audit Team – KEEP Solutions



11/06/14



RCAAP Project

THE CONTEXT



Scientific Open Access Repository of Portugal

RCAAP PROJECT





Main Goals of the Project

- Increase the visibility, accessibility and dissemination of Portuguese research results
- Facilitate access to information about Portuguese scientific output
- Integrate Portugal in the wide range of international initiatives in this domain

Repository Hosting Service (SARI)

Search Portal

Journal Hosting Service

Common Repository

OAI-PMH Validator

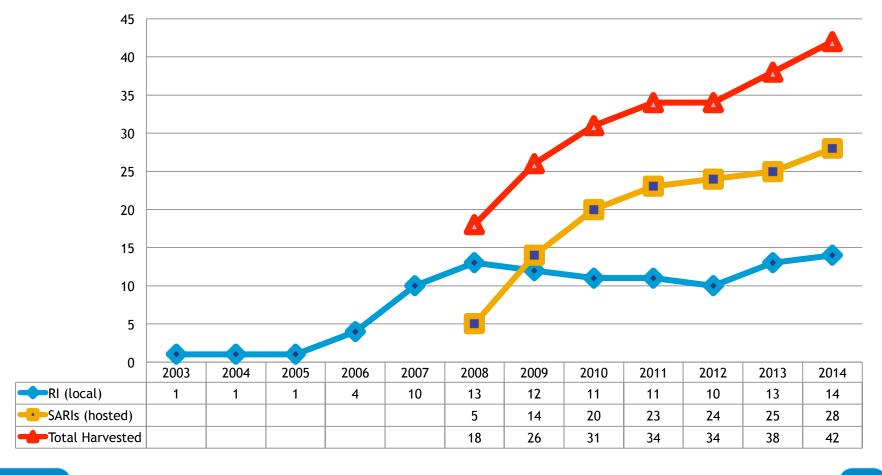
Data Repository

Usage Statistics

Services RCAAP



Repository Evolution in Portugal





Governance

FCT / FCCN

General Coordination & infrastructures



University of Minho

Scientific and technical coordination



Universidade do Minho



More about RCAAP Project

• Friday - 2014-06-13 @ 9:00 - 10:15

Paasitorni - Siltasaari Hall

RCAAP - Building and maintaining a national repository network



Audit and Certification of Trustworthy Digital Repositories

ISO 16363



WHY AUDIT? WHERE ARE WE?





Why audit?



Know more about the repositories



- To know more about the repositories
- To improve where something is missing



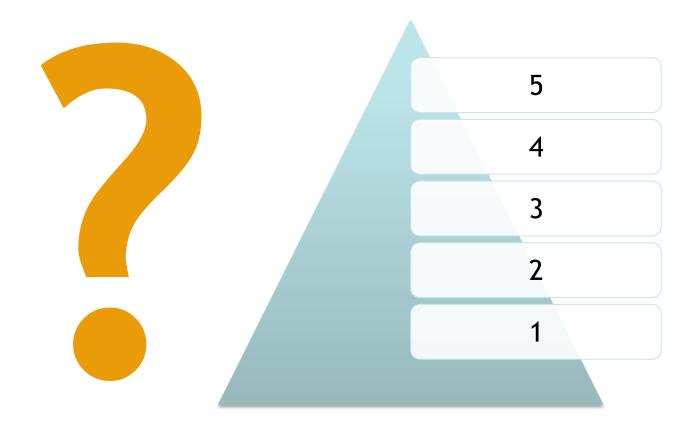
- To know more about the repositories
- To improve where something is missing
- To provide new services



- To know more about the repositories
- To improve where something is missing
- To provide new services
- To shift the community of repository managers!



The Question: Where we are?





ISO 16363:2012

- Defines practices to audit and certification process for assessing the trustworthiness of digital repositories.
- Includes normative metrics which a digital repository can be assessed.

Based on **TRAC** project



3 Sections (with responsibilities)

- 1. Organizational Infrastructure (the repository manager)
- 2. Digital Object Management (RCAAP Project)
- 3. Infrastructure and Security Risk Management. (RCAAP Project)



Large Scale Repository Auditing to ISO 16363

METHODOLOGY



General Plan (1 year duration)

Step	Designation	Description	Date
1	Diagnosis Audit	Preliminary audit to all the repositories	Nov. 2013 - Fev. 2014
2	Action Plan	Actions to improve the repository compliance	March 2014
3	Implementation	Repository managers should implement the suggested improvements	March - Set. 2014
4	Final Audit	Final audit to validate the action plan and define the new level of compliance	October 2014



Diagnosis Audit

- The responsible evaluates the repository for each item of the standard
- The responsible must provide evidences for each item
- The audit team evaluates the results based on the evidences
- Audit team provides feedback with suggestions of improvements



Conformity levels adopted

Level	Name	Description
1	Unmanaged	The repository has not adopted any action for this requisite.
2	Incipient	The repository is aware of the need for this requisite but it isn't formalized or is executed randomly
3	Formative	The repository implements processes for this requisite but they are not yet totally implemented.
4	Operational	There are explicit policies, procedures or processes that for this requisite
5 ECM3 Matur	Proactive	There are explicit policies, procedures or processes and monitoring with improvements and they are part of the strategic plan of the institution



RESULTS OF THE PRELIMINARY AUDIT



Preliminary Audit Results (from Repository Managers)

ORGANIZATIONAL INFRASTRUCTURE



 The <u>average maturity level</u> of all 26 repositories on the standard group of requirements "Organizational Infrastructure" was 2.1 on a scale of 1 to 5.



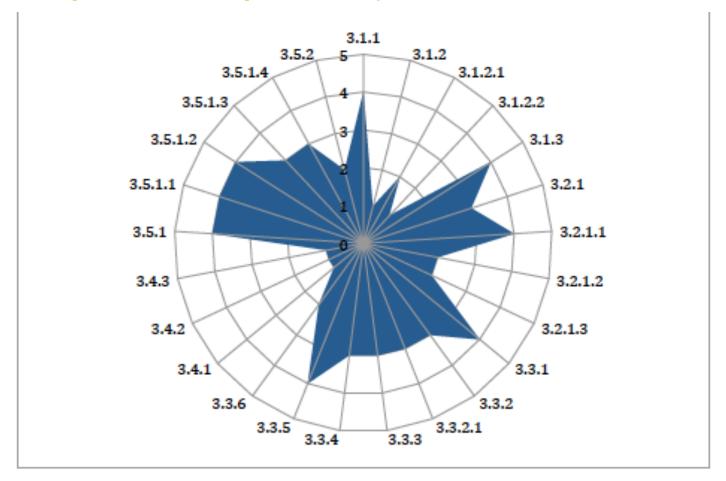
The <u>perceived maturity</u>, i.e. the maturity indicated by repository manager, was
 2.7.



 On the same note, the most mature repository scored 3.0 while the least mature repository scored 1.1.

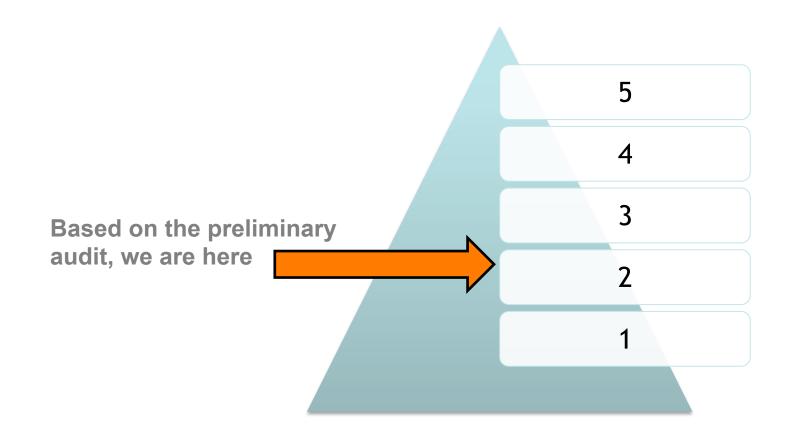


Example of Repository Evaluation





Where we are?





 Difficulties in providing evidences of financial practice.

• If one ignores the 3 requirements related to financial sustainability, the average maturity level increases to 2.2.



Preliminary Audit Results

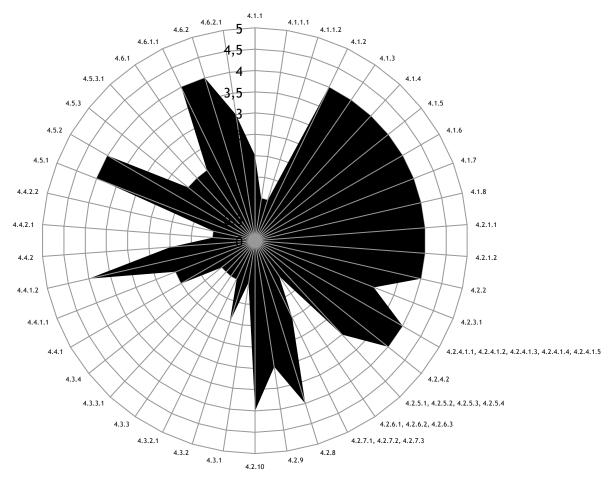
DIGITAL OBJECT MANAGEMENT



- The hosting service provider showed a self-perceptional maturity level of 3.2.
- The audit team scored its ability of manage digital objects and associated risks at 2.8.



Digital Object Management





Preliminary Audit Results

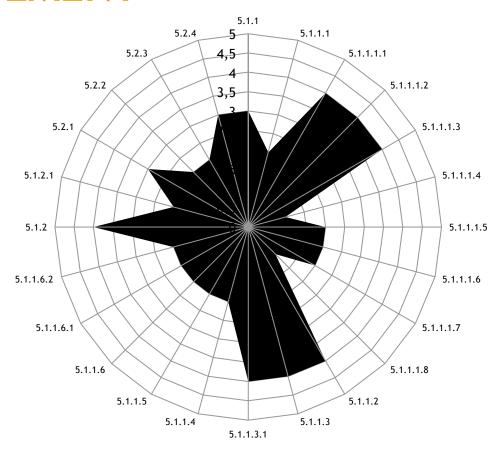
INFRASTRUCTURE AND SECURITY RISK MANAGEMENT



• On the "Infrastructure and Security Risk Management" front, the hosting service showed a self-assessment score of 3.1, while the audit team rank it at 2.6.



INFRASTRUCTURE AND SECURITY RISK MANAGEMENT





Large Scale Repository Auditing to ISO 16363

CURRENT STATUS & FUTURE STEPS



Currently...

 At step 3 - Identification and implementation of the improvements based on the preliminary audit.

 Workshops (face2face and online) with repository managers

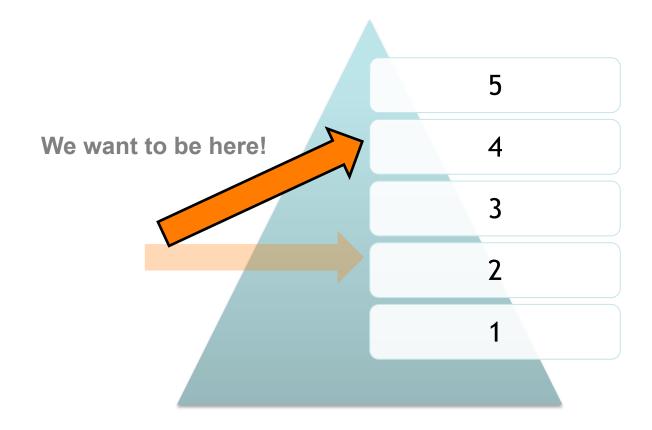


Future steps

- Implement the actions
- Final Audit



Where we want to be?





Thanks!



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