

Digital Preservation

New Challenges for Software Maintenance

Design for Future @ WSR 2012 Sven Euteneuer, Daniel Draws SQS Software Quality Systems AG





WHO is TIMBUS



CMS	DPC	INESC-ID	Intel
Caixa Mágica	Digital Preservation Coelision	inesc id	intel
iPharro	KIT	LIP	LNEC
iPharro	Kartsruher Institut für Technologie		LANGERO DE PRODUCTION DE L'ANGERO DE L'ANG
SAP	SBA	SQS	WWU
SAP	Secure sba-research.org	Excellence through Independence	WESTFÄLISCHE WILHELMS-UNIVERSITÄT MÜNSTER





What is this artefact?

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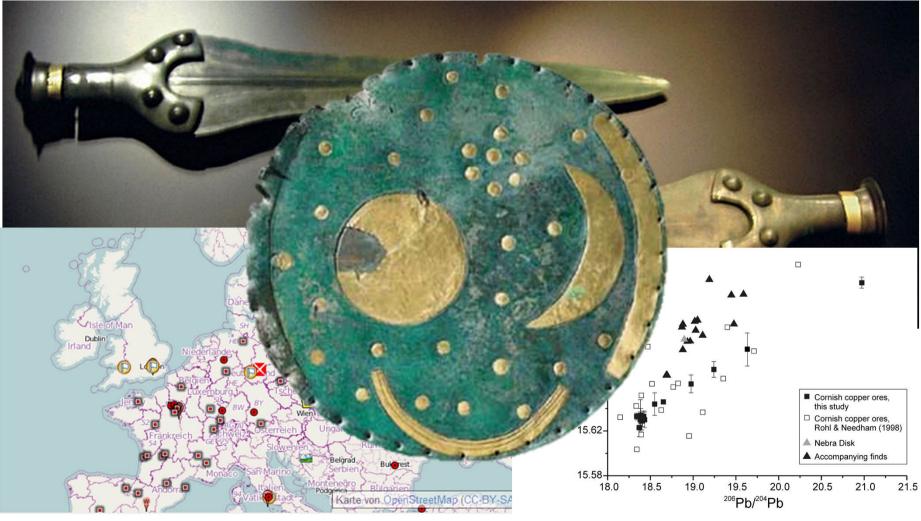




Context...

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Three "releases" of the disk

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Some more context...











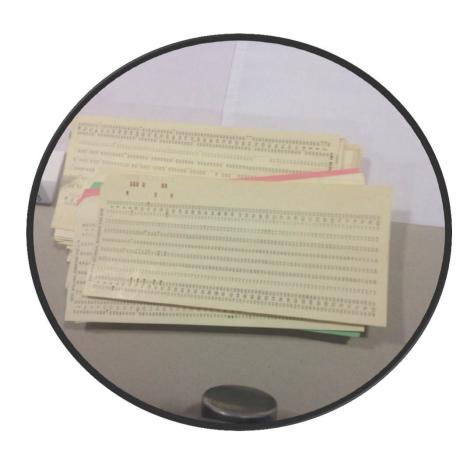


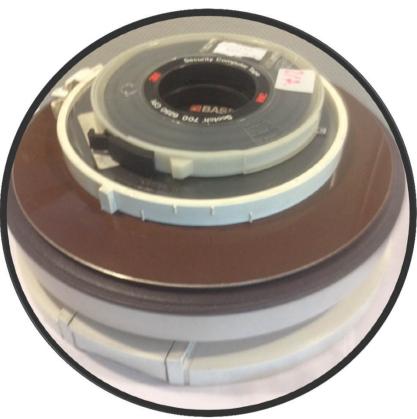


Our Sky Disks

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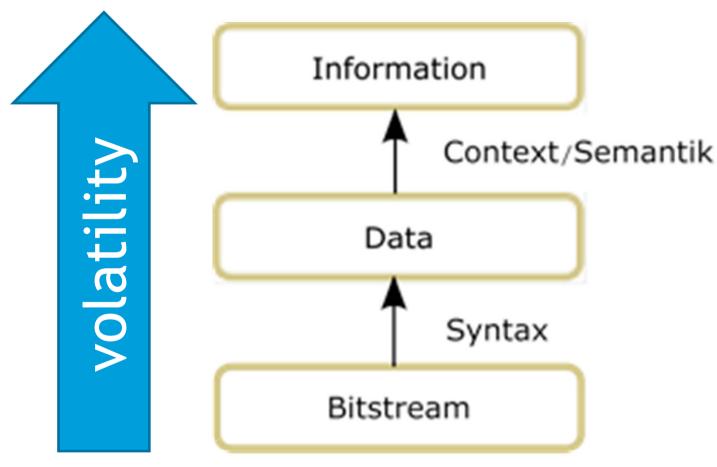




Digital Dark Ages

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State of the Research



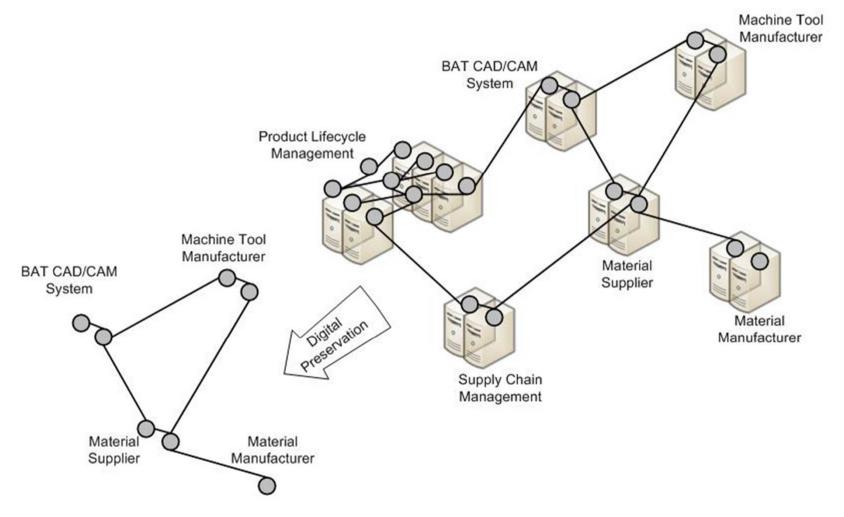


- OAIS as an ISO standard
- Different Research on:
 - FileFomat Databases
 - Onthologies
 - Emulators
 - Migration
- But...

- ... it's focused on artefacts



TIMBUS: How to preserve a process?







The role of Software...

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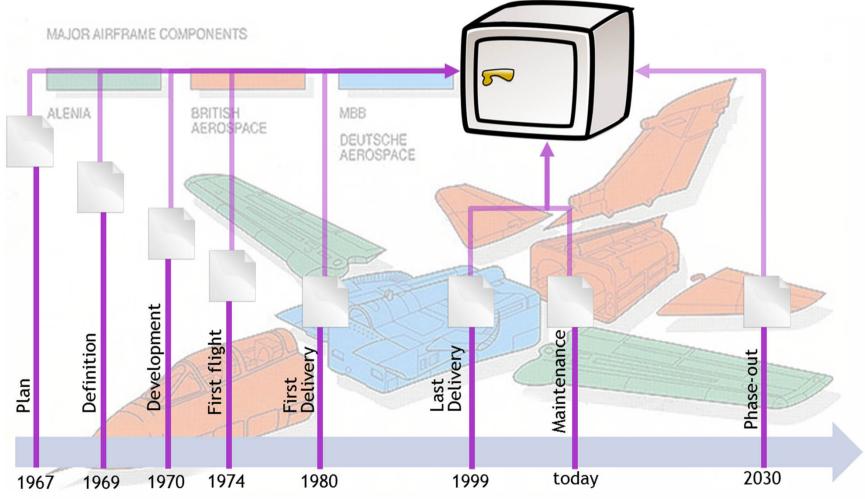






History of the Tornado!





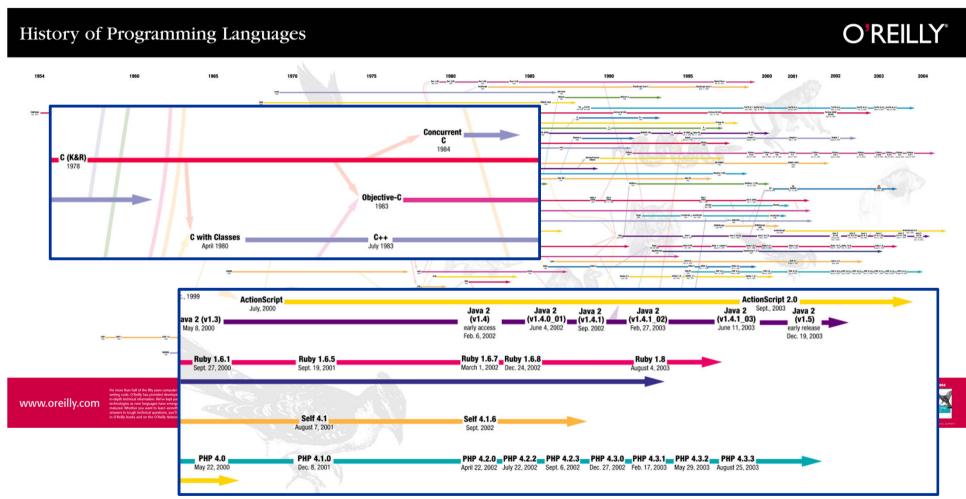




History of Languages

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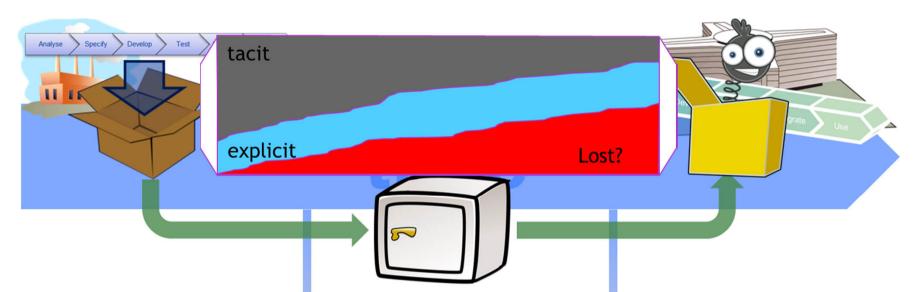






Communicate with the future





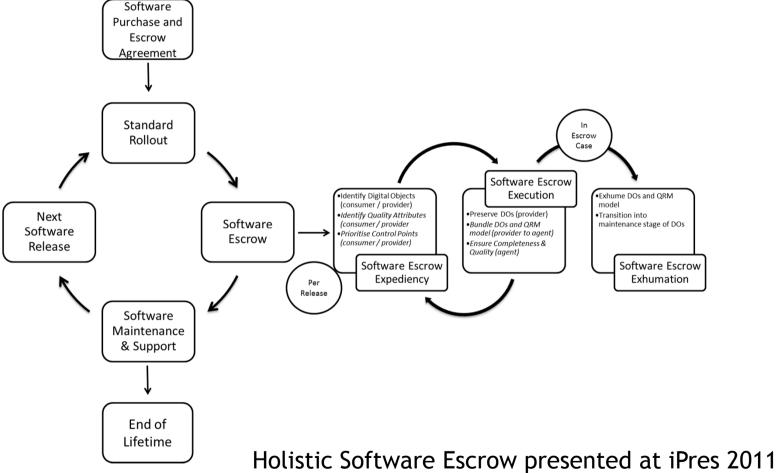
- Why preserve?
- What to capture in which quality?
- How to store?

- How to keep content readable?
- How to identify and assess?

- How to reinstantiate?
- How to analyse?

First Results: Holistic Escrow





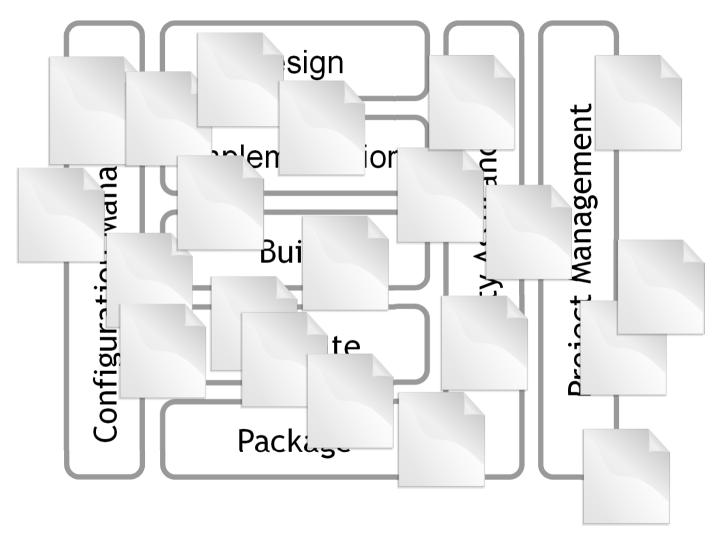




SW is more than code

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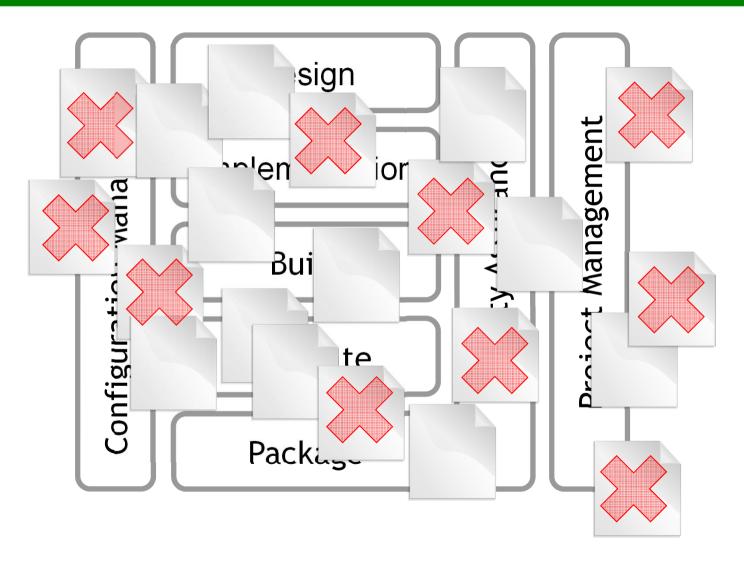






... but we still need to prioritize!

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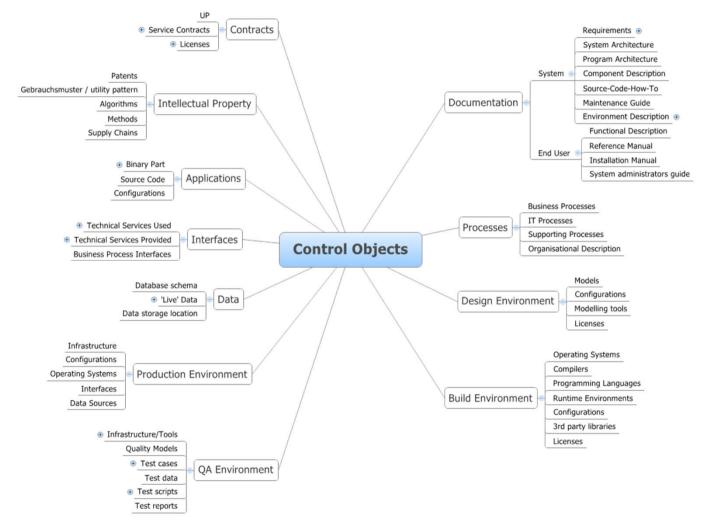






Catalogs of relevant Objects





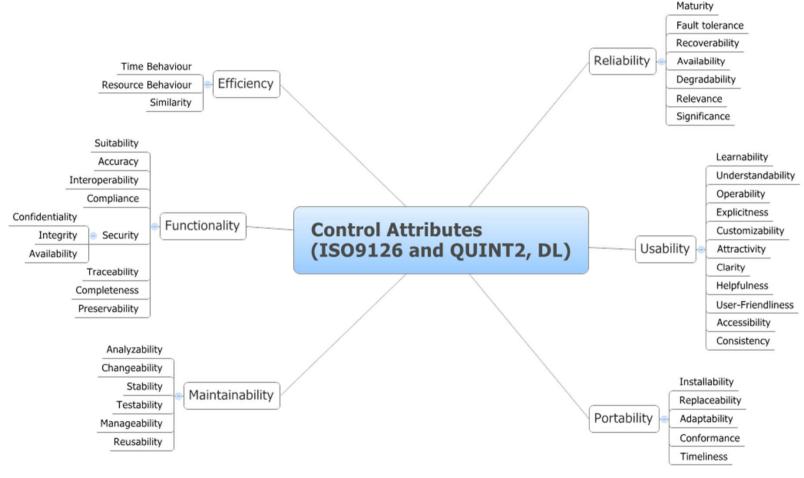




Catalogs of relevant Attributes

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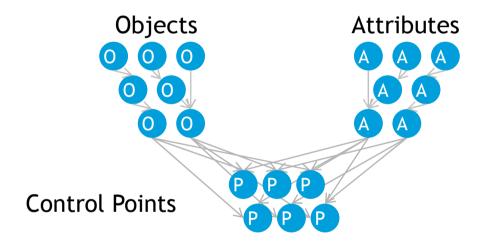






Combination: Control Points





Example: Legal Context

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Thank you for your attention!

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Can we really preserve

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...for more than 100.000 years









ISO 25010: Quality in Use

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