

# OND

# **Designing a Sustainable Future** An approach to the Assessment, Archiving and **Preservation of Digital Projects**





## We are

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## How do we conceptualize the relation between society and technology? [ culture scholarship everyday life

From

innovation

# How a Group of Hackers, Geniuses and Geeks Created the Digital Revolution the INNOVATORS Walter Isaacson Author of STEVE JOBS





Walter Isaacson, The Innovators: How a Group of Hackers, Geniuses, and Geeks Created the Digital Revolution, Simon & Schuster, 2014



BLOG

MAILING LIST



#### **The Maintainers: A Conference**

APRIL 7-9, 2016 · STEVENS INSTITUTE OF TECHNOLOGY · HOBOKEN, NEW JERSEY, USA

MAINTAINERS II CFP

WELCOME

2016 PROGRAM

## To maintenance



[potential title of unpublished manifesto] "The Maintainers: How a Group of Bureaucrats, Standards Engineers, and Introverts Made Digital Infrastructures That Kind of Work Most of the Time" themaintainers.org





### Hail the maintainers

Capitalism excels at innovation but is failing at maintenance, and for most lives it is maintenance that matters more Andrew L. Russell & Lee Vinsel, *Hail the Maintainers*, *Aeon* (April 7, 2016)



"What happens *after* innovation is more important. Maintenance and repair, the building of infrastructures, the mundane labour that goes into sustaining functioning and efficient infrastructures, simply has more impact on people's daily lives than the vast majority of technological innovations."

Andrew L. Russell & Lee Vinsel, Hail the Maintainers, Aeon (April 7, 2016)





# Making the case for Sustainability and Maintenance of Digital Humanities Projects

#### A fight worth fighting

"to create, to endure and continue to provide **value** well beyond the term of the grant, long-term success"

Maron et al. (2009). Sustaining Digital Resources: An On-the-Ground View of Projects Today. Ithaka Case Studies in Sustainability





## We are not alone in this.

JISC / Ithaka-Strategic Content Alliance

"We define 'sustainability' as having a mechanism in place for generating, or gaining access to, the economic resources necessary to keep the intellectual property or the service available on an ongoing basis". (Guthrie et al., 2008: 10)

- Arts and Humanities Data Service (AHDS) <http://www.ahds.ac.uk/>
- Digital Preservation Coalition's < www.dpconline.org >
- Promoting and Enhancing Reuse of Information throughout the Content Lifecycle taking account of Evolving Semantics (PERICLES), <a href="http://www.pericles-project.eu/">http://www.pericles-project.eu/</a>>





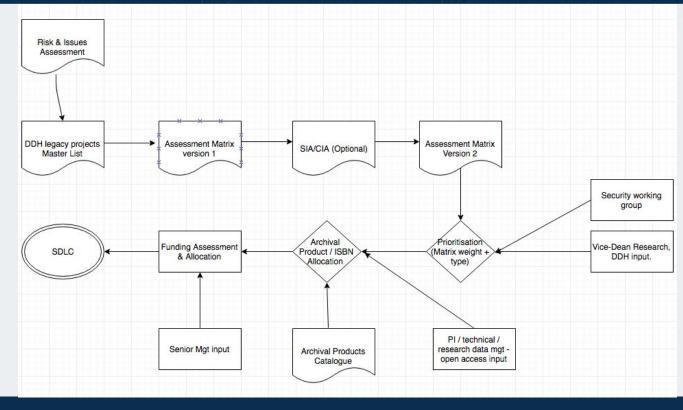
## KDL approach to Sustainability (in a nutshell)







# Process workflow







## **Projects Master List**

20 years

164 projects - and still counting





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## **Assessment matrix**

Institutional reputation (Brand impact)

Research impact Research value Web Traffic Altmetrics Linked data dependencies Copyright / licencing

#### Costs of Publication

Bugs Infrastructure costs Development costs Security risk Archiving & preservation difficulty

grade	1	2	3
Institutional reputation			
research impact			
research value	94 - 18		
traffic			
altmetrics			
linked data dependencies			
copyright / licencing	94 20		
Costs of Publication			
bugs			
infrastructure costs			
development costs			
archiving & preservation costs			
security risk			
archiving & preservation difficulty			
SIA / CIA (ONLY in phase 2)			







# Stakeholder Impact Assessment /Change Impact Assessment







. Stakeholder I	dentifica	ition	_					Program Version:		Cont 0.1	tract Mapping			
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2. Key Stakeholder Change Impact				Programme:	[Insert Name]			
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Programme/Project Name:		Stakeholder (organisation type of functional unit impacted):						
Change Impact Ratings								
Level of impact (on the stakeholder):		Difficulty to achieve		Contribution to benefit rea	alisation			
None – No change impact Low – Minimal or low levels of change that can be accommodated within business as usual activity		None – No change impact Easy –Support for the change and change can	be meet within available resources	None or limited contribution to the achievement of benefits Moderate contribution to the achievement of benefits				
Medium – Requires changes to how the organisation/unit operates requiring additional investment of time and resources to achieve		Medium –Variable support for the change and t accommodate the change within available reso		Substantial contribution to the achievement of benefits				
tigh – Requires significant change to how the organisation/unit operates (involving a significant investment of time and resources)		Hard – Low support for the change and/or chan resources	ge can not be met within available	Critical contribution to the achievement of benefits				

6	Future environment	Current environment (Only include points of difference to the future environment)	Level of impact	Difficult y to achieve	Contrib - ution to benefit realisati on	Required actions	Due Date	s Statu	Cost proje ct (\$,00 0)	Annu al cost ongo ing (\$,00 0)	Fund er
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Culture/behaviours: e.g. Relationship (internal and external), Leadership, Knowledge sharing, Culture											
People: e.g. Capability, capacity, accountabilities, organisation design			2				- 20				8
Processes: e.g. Clinical and business delivery processes, reporting processes, policies and procedures	5										
Interfacing technology: e.g. hardware, software, information standards											
Government policy and legislation											
Patients/individuals: e.g. use of patient information, behaviours and activities, privacy*											





# **Archiving solutions catalogue**

- 1. Data only
- 2. Web connector / backend support
- 3. Maintained VM
- 4. Offline or Unmaintained VM
- 5. Cloud hosting
- 6. Static website
- 7. "Active" maintenance
- 8. ISBN/ISSN allocation







## Challenges

Risks and Issues ?

Is it feasible ?

Built-in or Add-on Sustainability ?



# Thank you !

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