

The KRDS Benefit Analysis Toolkit: Development and Application

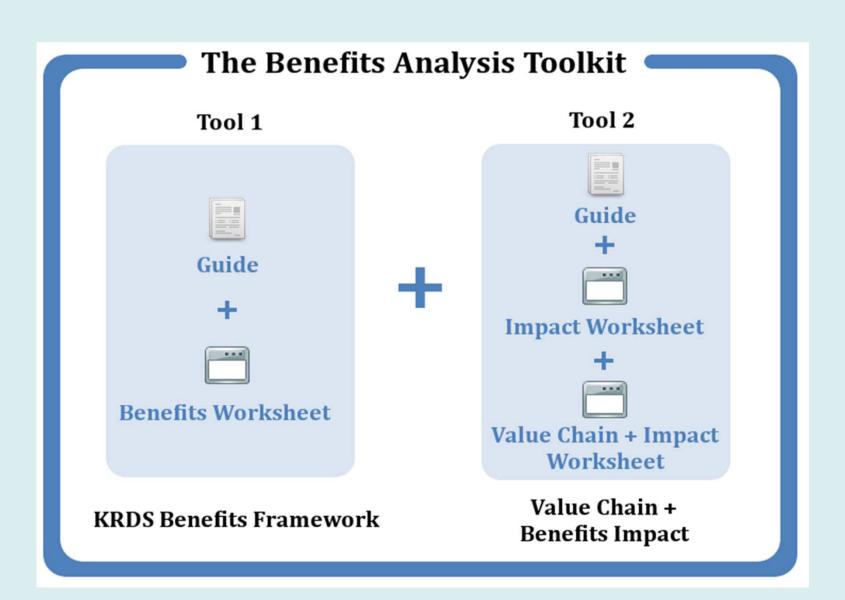
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IDCC Bristol December 2011

The Benefits Analysis Toolkit

Toolkit & Components



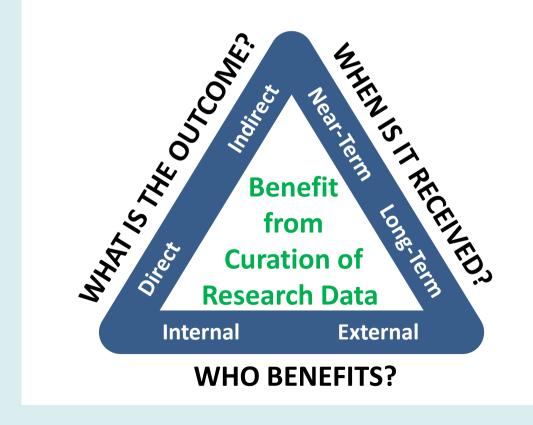


The KRDS Benefits Framework



The Framework

- Framework arranged on 3 dimensions with two subdivisions each; Pick list of common generic benefits
- Individual benefits identified and assigned within this



Worksheet



KRDS BENEFITS FRAMEWORK - WORKSHEET (V. 6.4 - JUNE 2011)

Introduction

The Keeping Research Data Safe (KRDS) Benefits Framework is a tool for identifying, assessing, and communicating the benefits from investing resources in the <u>curation</u>/long-term preservation of research data. This Worksheet accompanies the Guide to the KRDS Benefits Framework, which provides guidance on its use.

Pick List of Popular Generic Examples of Benefits for you to use/ delete/add to/ modify and expand as needed to help populate your Benefits Framework New research opportunities No re-creation of data No loss of future research opportunities Input for future research Secures value to future researchers & students Motivating new research New research funding Protecting returns on earlier investments Increasing research productivity Lower future preservation costs Stimulating new networks/collaborations Planned management from an early stage in the research life-cycle is ultimately more cost-effective Knowledge transfer to other sectors than late intervention (providing proper selection of what to keep is done) Knowledge transfer to industry Re-purposing data for new audiences Commercialising research Use by new audiences Increasing skills base of researchers/ students/staff Re-purposing methodologies Increasing economic growth Enhancement of research tools and software by testing on a range of well-curated datasets Catalysing new companies and high skills employment Scholarly communication/access to data Verification of research/research integrity Long-term re-use of well curated data Fulfilling organisational mandate(s) Short-term re-use of well curated data Fulfil research grant obligations Adds value over time as collection grows and

Dimension 1: What are the outcomes?

Indirect Benefits (e.g. costs avoided)
[insert here]

Dimension 2: When are the benefits received?

Long-Term Benefits (5 years+)	
[insert here]	

Dimension 3: Who benefits?

Internal Benefits	External Benefits	
[insert here]	[insert here]	

Example generic benefits



- Increasing research productivity
- Secures value to future researchers & students
- Increasing skills base of researchers/students/staff
- Verification of research/research integrity
- Availability of data underpinning published findings
- Stimulating new networks/collaborations
- New research opportunities
- Motivating new research
- Knowledge transfer to industry
- Commercialising research

Value Chain & Impact Analysis Tool

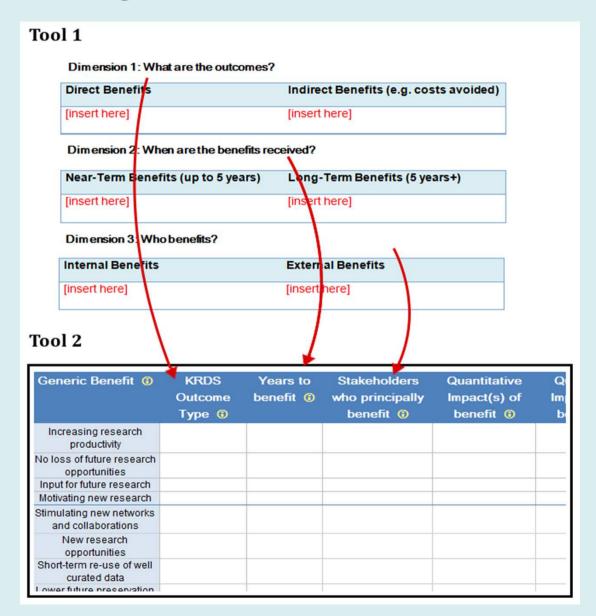
Value Chain & Impact Analysis Tool



KRDS Lifecycle Phase (1)	KRDS Activity (6)	Generic Benefit (1)	Your Expres Benefit
	Research (Pre- archive)	Increasing research productivity	
		No loss of future research opportunities	
		Input for future research	
		Motivating new research	
	Outreach ①	Stimulating new networks and collaborations	
		New research opportunities	
		Re-purposing and re-use of data	

Combining Use of the Tools Charles Beagrie

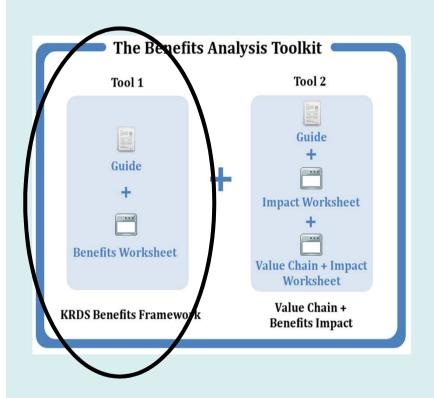




KRDS Benefit Framework and Value Chain: a use case for archaeology

Catherine Hardman
Archaeology Data Service

How we can foresee use of the Benefits Framework

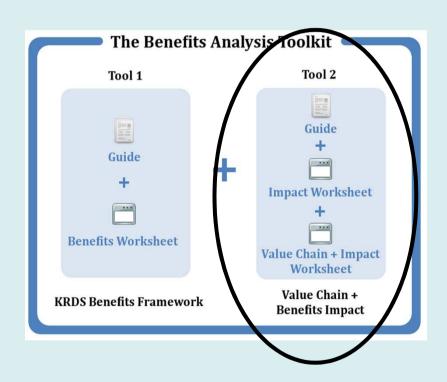


As a repository we often have to help justify the costs/effort associated with digital preservation.

The benefits worksheet (and associated guide) helps explain the benefits in structured and meaningful fashion.

http://archaeologydataservice.ac.uk

How we can foresee use of the Value Chain



- The issue of 'value' in archaeology is key
- Difficult to quantify the meaning of value in different subject areas

ADS thoughts

- A light touch in helping persuade projects or funders of the benefits of preservation in a structured and clear way...
- Or a deeper insight into project planning decisions when dealing with finite resources.

Application of the Benefits Analysis Tools for MRC population health studies

- Professor Dipak Kalra
- Centre for Health Informatics and Multi-professional Education(CHIME)
- University College London

Worked example: Re-purposing and re-use of data

- Localised expression: Lower costs of data collection and curation, faster route to usable data
- Action: Agree shared use of pre-existing data held by another study to avoid new data collection
- KRDS Outcome type: Indirect benefit, in 1 year
- Stakeholders: Internal: Pls, academics, data managers
- Quantitative benefit: Cost saving, shorter time to publications
- Qualitative benefit: ~
- Weighting: 4

Conclusions

- The Benefits Framework and the Impact Tool can accommodate the kinds of benefit from good data curation practice and from data sharing in MRC population health studies
- Detailing the active steps to realise each benefit, when the result might be realised and who benefits seem to be useful ingredients for putting forward a case for funding or for prioritising resource utilisation with a study
- Whilst initial population might be done by one person, completing the spreadsheet and working out weightings might be nicely undertaken in a team workshop

SageCite Project Monica Duke m.duke@ukoln.ac.uk

http://blogs.ukoln.ac.uk/sa gecite/



UKOLN is supported by:







What we have learnt

- The benefits framework was easy to apply and helped articulate benefits
- An intermediary may be required to facilitate the process
- Digital Management background and motivation matters
- Terminology matters

KRDS BENEFITS FRAMEWORK, VALUE-CHAIN AND BENEFIT ANALYSIS TOOLS: UK DATA ARCHIVE CASE STUDY

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IMPLEMENTATION TIPS

- Start with the Benefits Framework Worksheet and move on to the Value-Chain/Benefits Impact Worksheet(s)
 - easier to expand than reduce
- Use a customised spreadsheet to sort and configure
- Remember
 - quantitative impact of benefits must be measurable
 - qualitative impact of benefits can become case studies [note these can be powerful, but should be used in collaboration with quantitative evidence].
 - impact weight is subjective best developed as a team

Further Information

Information Leaflet + Abstract

Benefits Tools Webpage http://beagrie.com/krds-i2s2.php