

## Exceeding the standard

or at least getting it pretty much right

Angela Dappert,
The British Library





## Emerging community consensus

Information you need to know for preserving digital objects

**Preservation Metadata:**Implementation Strategies

mantic repeatability obligation Cred management systems Value metadata p ry object identifier bitstream rationals repeatability obligation Creation tent systems Value metadata preservation htifier bitstream rationale definition Second obligation Creation digital object of

PREMIS Data Dictionary

#### for Preservation Metadata

version 3.0

June 2015

#### Contents:

Acknowledgments

Introduction

Background

The PREMIS Data Model

General Topics on Structure & Use

Implementation Considerations

The PREMIS Data Dictionary Version 3.0

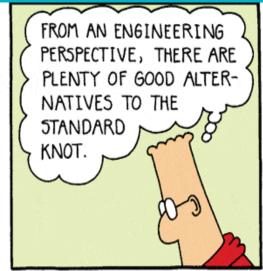
**Special Topics** 

Glossary

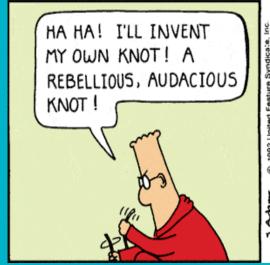
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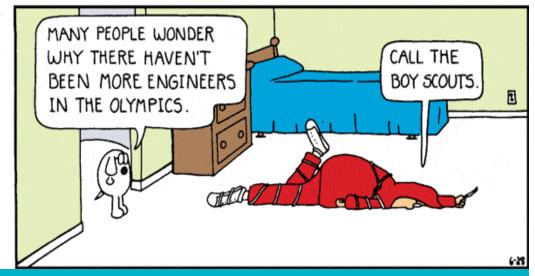






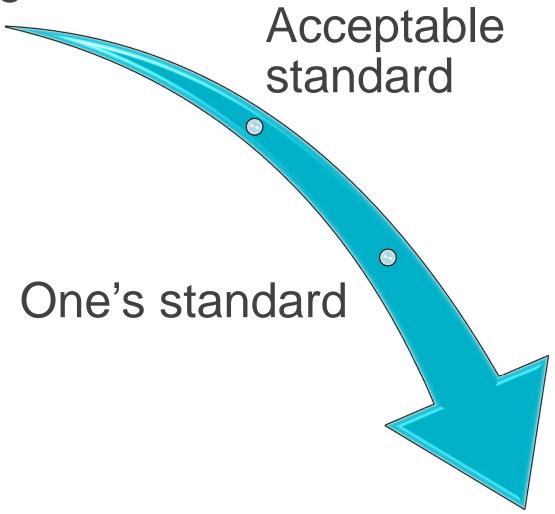






# Standard issue





Gold standard



# What and why

WHAT	WHY (Direct benefits)
	Add benefit and value
Processes, workflows	Easier to manage and automate; reduce deviations; create operational efficiencies, ability to scale
Templates, forms	Uniform processing; achieve scale
Results	Quality, reliability, repeatability; enabling interoperability and exchange of results
Languages (taxonomies, vocabularies)	Model thinking, encode policy; create a community language; inform budget items and management categories



## Large-scale benefits

- Security and confidence
  - Domain know-how
- Brand or community definition
  - Serendipity



#### **Drivers**

Confusion



**Error proneness** 





Inefficiency



### **Drivers**





Consumer pressure





**Opportunities** 



# Catastrophes cause standards





#### Markets / user demand create standards

EU Radio Equipment Directive, 2014

" This serves the interests both of consumers and the environment. It will put an end to charger clutter and 51,000 tonnes of electronic waste annually"

Rapporteur Barbara Weiler

Draft law approved by 550 votes to 12

www bl uk

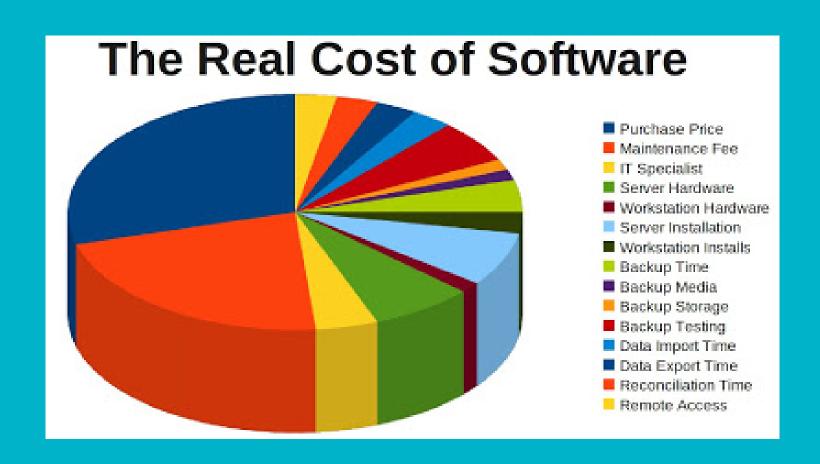


# New opportunities cause standards





## New opportunities cause standards



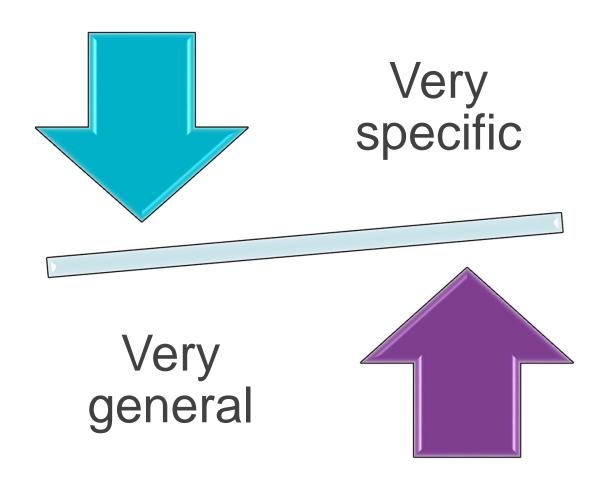


# Designing standards

# The right balance between general and specific solutions



14





#### Standards architecture

- A tidy scope
- Aligned with well-adopted related standards
  - Well defined extension points
- Modular and layered/ or nested architecture
- Best practice guidelines for combining standards

# The right balance between general and specific solutions



#### Off-the-shelf systems

- Predefined metadata profiles
- Out-of-the-box tools

#### Configured, extended, adapted

Metadata profiles and tools

#### Custom-built systems

Metadata profiles and tools



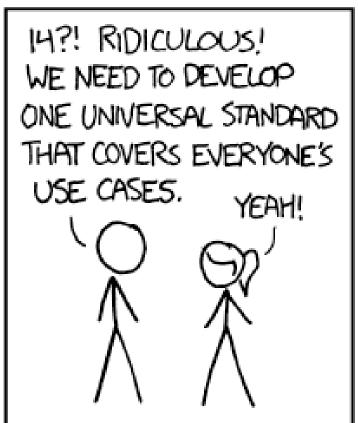
# Using standards

# Making a standard your own vs. making your own standard



HOW STANDARDS PROLIFERATE: (SEE: A/C CHARGERS, CHARACTER ENCODINGS, INSTANT MESSAGING, ETC.)

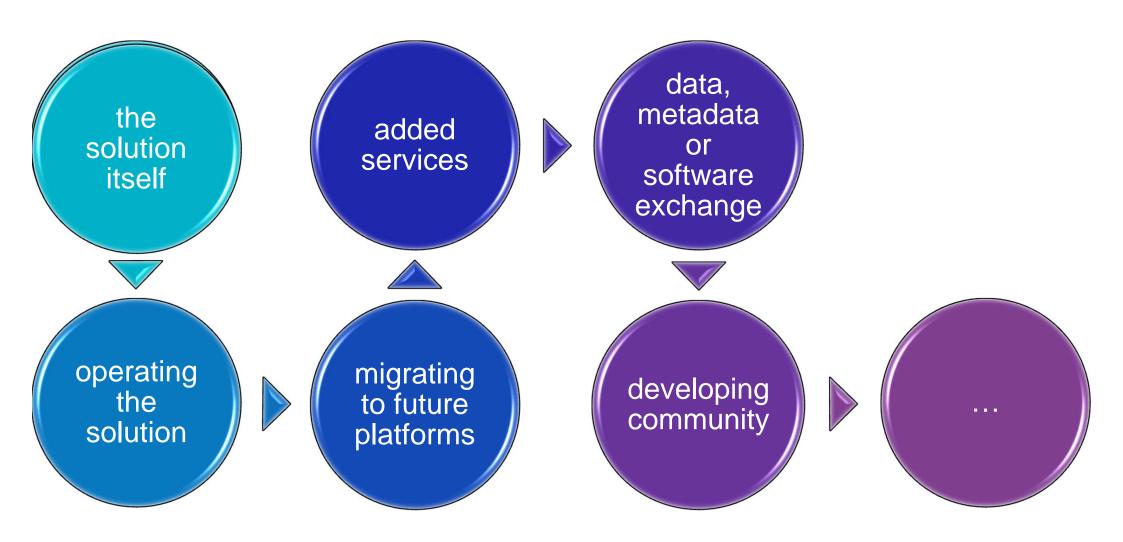
SITUATION: THERE ARE 14 COMPETING STANDARDS.



500N: SITUATION: THERE ARE 15 COMPETING STANDARDS.

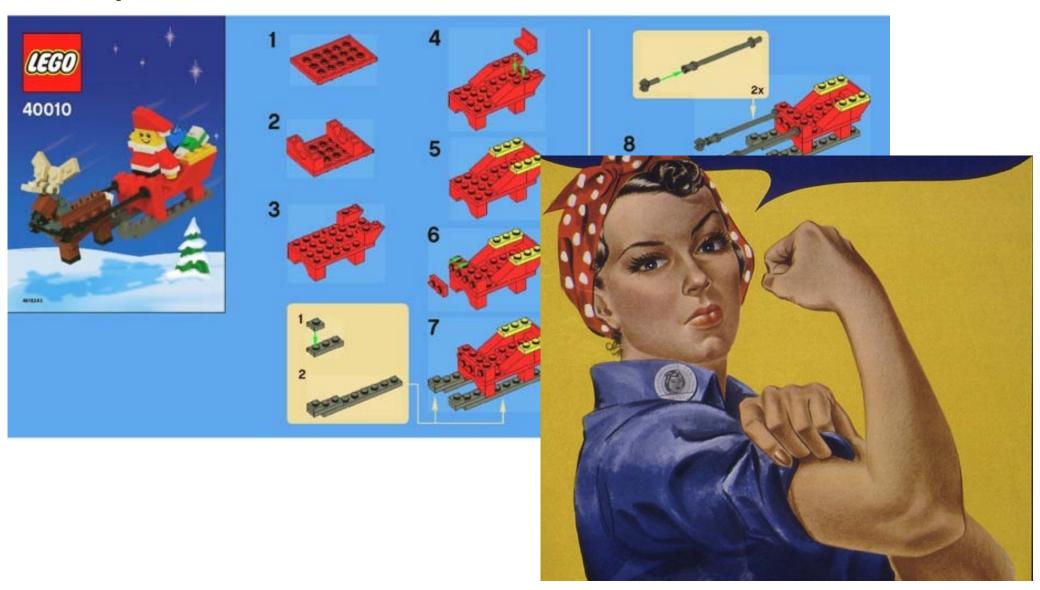


#### Non-standard solutions



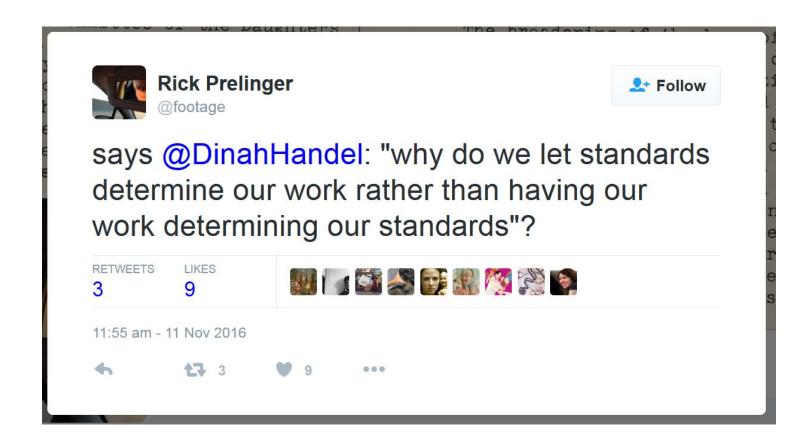


# Expectations



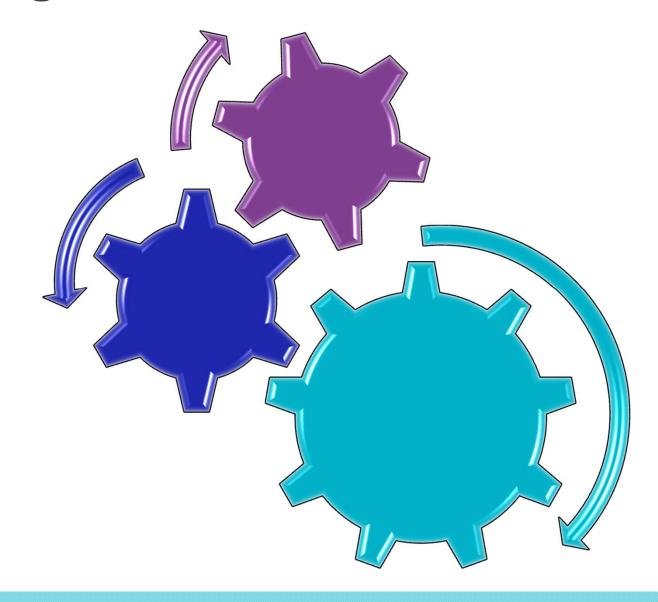


## Perceptions





# Combining standards is hard

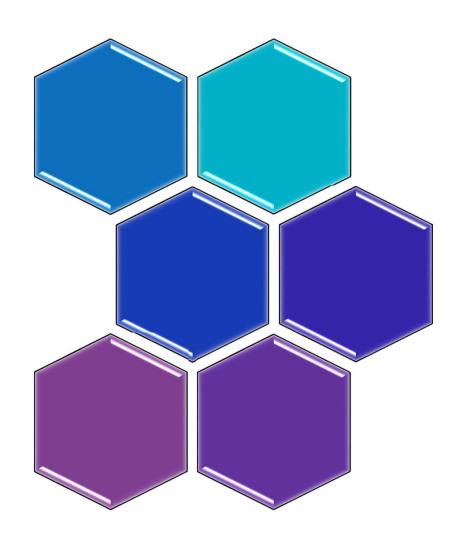




# Adopting standards



# Including all



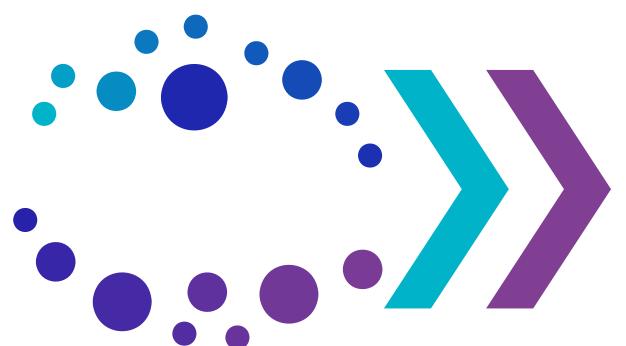


#### Different communication needs





#### Different communication needs



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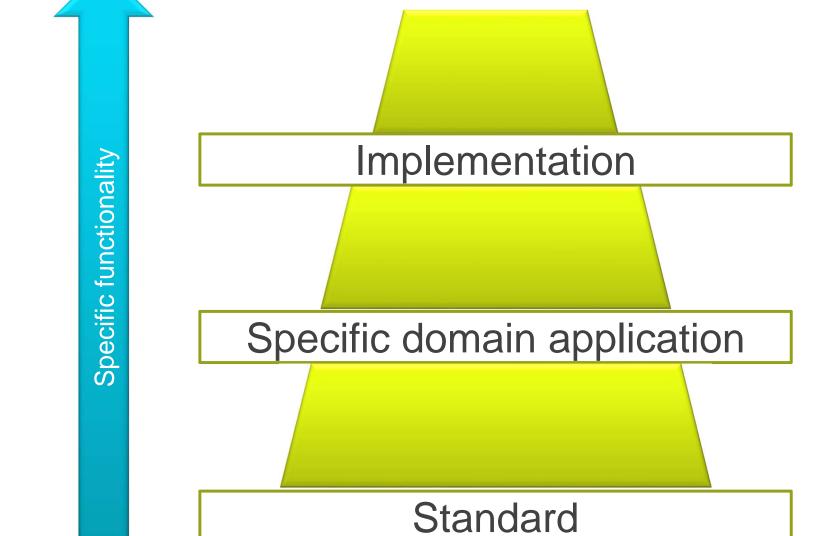
# Digital Preservation Metadata for Practitioners

Implementing PREMIS



# Standardised ways of using a standard - profiles





Specific implementa -tion

ERMS to archive, DB to archive, ...

PREMIS, METS, EAD, ...

# Abstracting away our differences through technology



Variant 1 Variant 2 Variant 1

Variant 2

Variants of basic functionality

Function 1

Function 2

Modular functions

Semantic interpretations

Semantic interpretations

Tree structures

Computational data structures







Consumer pressure





**Opportunities** 





#### Issues

Raise awareness of the need for and the availability of longterm solutions

Awareness, knowledge, and best practice transfer

Identify intrinsic and perceived differences

Map local implementations to abstracted IT solutions

Making standard shareable and accepted

Design appropriately modularised and easily configurable IT tools

Spread adoption beyond our own echo chambers



## Images

http://www.staples.com/Great-Papers-Star-Gold-Certificate-Seal-96-Pack

http://dilbert.com/strip/1992-06-28

http://www.janeslondon.com/2011/08/fire-insurance-plaques.html

http://www.wired.co.uk/article/common-charger-vote, Shutterstock

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