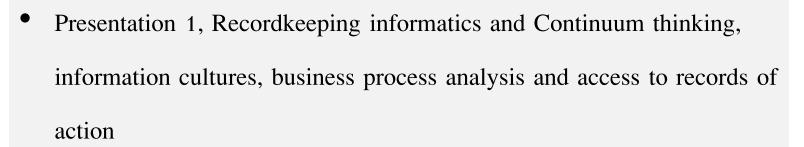


Recordkeeping Informatics

Visby, Sweden

Archives Week

16 May 2017



 Presentation 2, Recordkeeping metadata and the Implementation of Recordkeeping Informatics



What is Recordkeeping Informatics?

Informatics

- Technology
- Social Aspects
- Cognition [epistemology or lens]



Recordkeeping functionality

- Storage
- Appraisal (of applications)
- Source and Transmission
- Trust
- Audit
- Evolving functions, e.g. registration and workflow

The Parts of Recordkeeping Informatics

Building Blocks for a multidisciplinary approach

- Continuum thinking
- Recordkeeping metadata



Analytical facets for Recordkeeping functionality

- Information culture
- Business Process
- Access

The parts are more complex than the whole



Simplexity:

'The guiding motto of every natural philosopher should be to seek simplicity and distrust it'
A.N.Whitehead, 1919

The Continuum Episteme: The Flicker

But neither arrest nor movement. And do not call it fixity,

Where past and future are gathered. Neither movement from nor towards,

Neither ascent nor decline. Except for the point, the still point,

There would be no dance, and there is only the dance

• T.S.Eliot, 'Burnt Norton', II.



The Continuum Episteme: Digging into its Twentieth century archaeology

In a perduring epistemology:

- All is archive as historical practice
- Everything is in a state of becoming
- Everything is interconnected
- Problems are always breaking out in new idioms (i.e solutions are never simple]

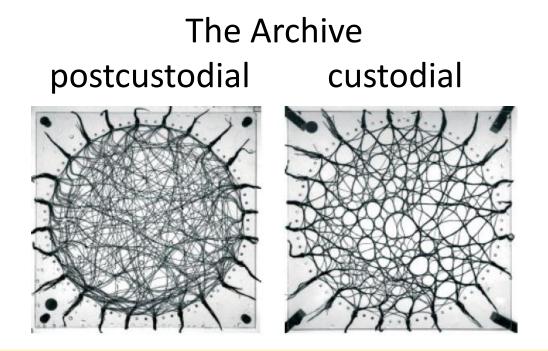
The Continuum Episteme: Its 19th and 20th century genealogy

- The original giant shoulders: Kant, Darwin, Marx as spacetime philosophers
- The next tier: Natural philosophers such as Einstein, (and many others) as well as archivists such as Jenkinson, Brooks or Maclean
- Subsequent natural tiers such as 'the Bergsonists' [e.g. Foucault, Derrida, Deleuze] mathematicians [e.g Mandelbrot, Lakatos] and continuum archivists.

The Continuum Episteme: The Archival Turn

The archive and desktop are already synonymous. Once denoting a material repository of documents governed by an established institution (e.g., a state archive), definitions of the archive continue to loosen. For a new generation of readers and writers, the archive may be known only as a site of virtual storage Kate Eichhorn.

The Continuum of Recorded Information and the Disrupted Archive



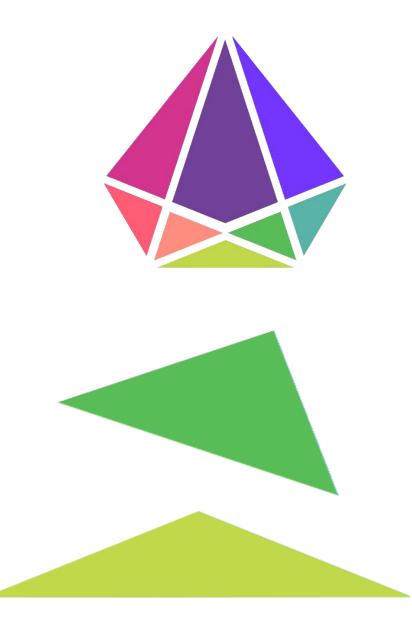
Nano-second archiving disrupts the traditional fixed order for archiving and generates chaos 'in the clouds'

Continuum modelling

Socio-technical models

- The Information Processing Continuum [creation, capture, organisation, pluralization]
- a multiverse of vectors]

Based on the ALL IS ARCHIVE form of cognition





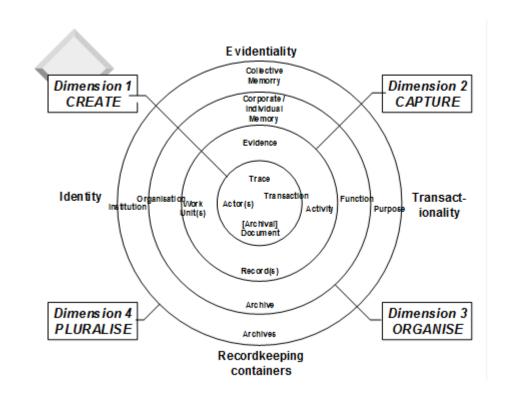
The Records Continuum Model

The four dimensions of the information processing continuum

Create, capture, organise, pluralise

Vectors

- Evidentiality
- Identity
- Transactionality
- Recordkeeping Containers



Other Continuum Models and Vectors

The cultural heritage continuum (CHCM)

The Information Continuum (ICM)

The Publishing Continuum (PCM)

The Information Systems Data

Continuum (DCM)

The Digital Forensics Continuum (DFCM)

*Time-space distancing *storytelling *Narrative scale *Cultural Heritage Containers

*Action & Structure *Categorization

*Technology *Storage and Memory

*Learned Knowledge *Reach

*Issuance *Publication Containers

*Power Modalities *Data Plumbing

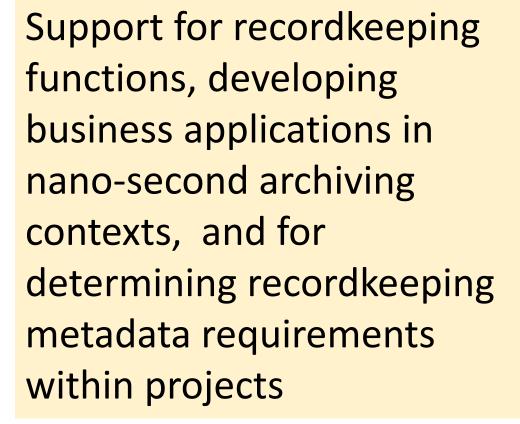
*Data Modelling Data Storage

*Weight of Evidence *Patterns of Evidence *Manifestation of Evidence *Kapaning of Evidence

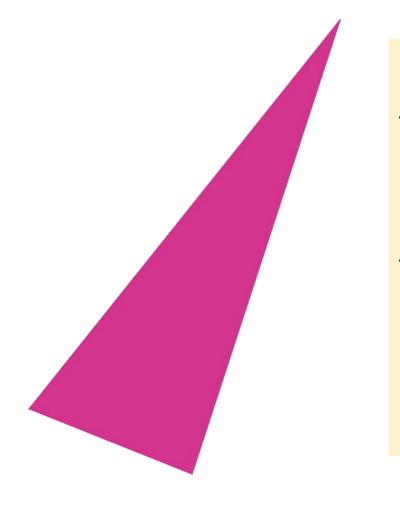
*Keeping of Evidence

The Analytical Facets of Recordkeeping Informatics

- Information culture
- Business Process
- Access



Information Culture



Individual

Values

Group

Attitudes

Organisational

Behaviours

Societal



Information cultures

From recordkeeping fundamentals and information management skills to changeable governance outcomes



III Governance Trust

П

Information management skills which can be acquired or extended in the workplace

Respect for records

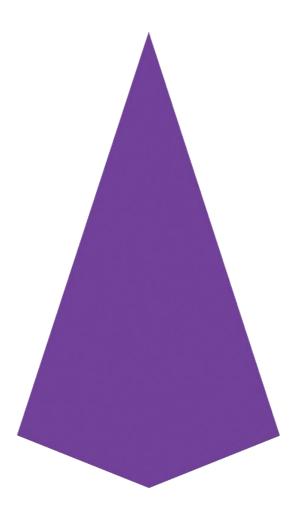
Willingness to share information

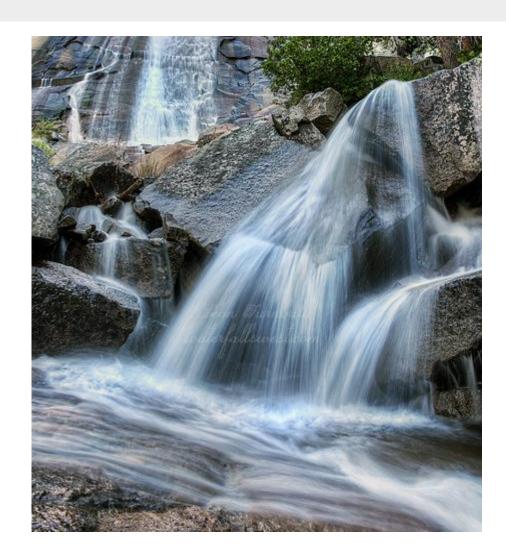
Preferred information sources

Language considerations

Regional technological infrastructure

Business process analysis









Cascading inscriptions

"An isolated image has no scientific referent – but it generates, of course, like all images, a virtual image, the 'what' that it is said to be the representation 'of'. Taken in isolation, an electron microscopic image of a virus, a photograph of a galaxy, and the drawing of a skeleton in a natural history museum, has no specific value (even though they might have powerful aesthetic, pedagogical, or rhetorical strength). If you want to understand what an isolated inscription means in science, you have to reinsert it inside the cascade of other inscriptions out of which it has been extracted." V.November, E.Camacho-Hubner, B Latour

Bundling of Activities and Recordkeeping Architectures

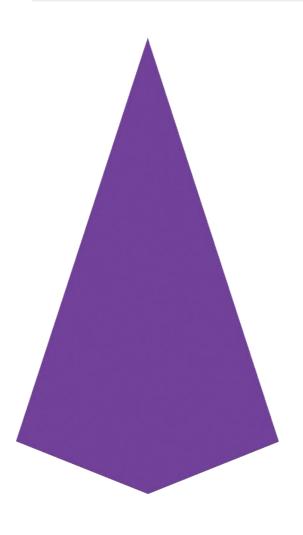
"...Organizations can now be conceptualized as bundles of activities grounded in language and communication ...

Information systems can now be viewed as architectures that define social relationships and organizational action ... "

Mark Aakhus, Pär Agerfalk, Kalle Lyytinnen and Dov Te'eni,



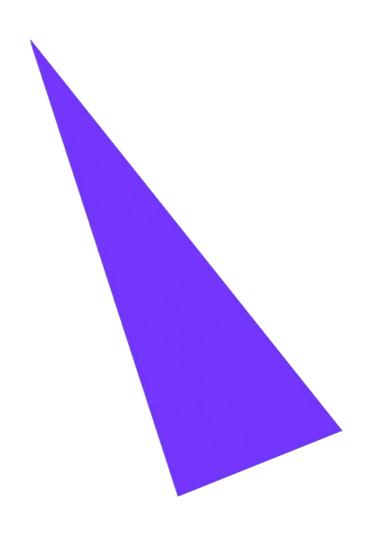
Bundling of Activities and Recordkeeping



Recordkeeping features [traditional]

- Organisations as bundles of activity
 {e.g Weberian bureaucracy)
- Linking cascading inscriptions
 Modern challenges
- Flood of inscriptions
- Nano-second archiving
- Disappearance of recordkeeping behind and beyond the screen

Access to evidence of action



allocative information resource management:

- the power of production (the expanding continuum)
- authoritative information resource management:
- spacetime management
- mutual association
- life-chances [Source, Anthony Giddens]

Access: Allocative Information Resource Management and Evidence



The expanding continuum of recorded information is a transformative force

- The Information superhighway
- 'Information wants to be free'
- but is too much information actually sludge because of lack of understandings, control, or management of provenance (source and transmission) data?

Access: Authoritative Information Resource Management and the Disruption to Evidence



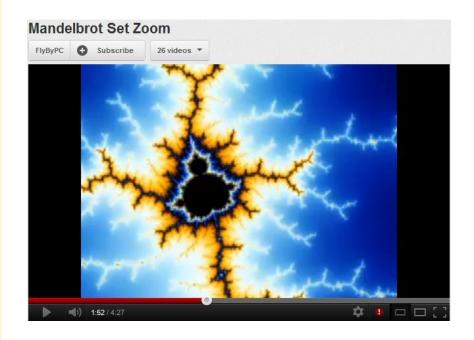
The expanding continuum of recorded information is productive but is also a disruptive force causing access difficulties in areas such as

- restrictions/permissions
- FOI and privacy codes and practice
- Leaking and hacking
- Accountability and transparency in a 'posttruth era'
- Custodial archival control

The goal of the analyses: An agile fractal-based computing strategy

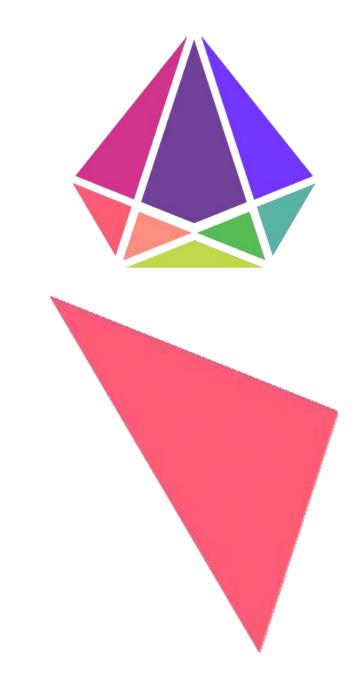
Fractalization

- Identifying local, regional, national and global patterns across groups and organisations
- Feeding fractals in to modular recordkeeping architectures
- tailoring of modules
- approving and authorizing modules



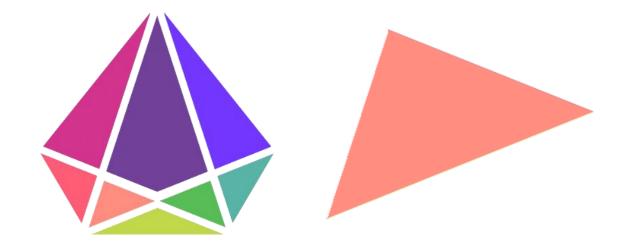
Recordkeeping metadata and the continuum episteme

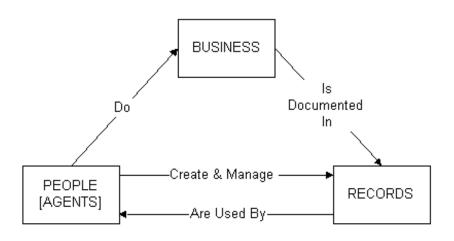
- Authoritative information resource management requires a perduring perspective (continuum thinking)
- Implementing this within recordkeeping informatics as a system requires using metadata
- Team projects directed at business applications can help sort out the current babble about metadata



A Social model for recordkeeping Metadata

The Monash Metadata Model for authoritative forms of transaction based recordkeeping focusses on the relationships between business activities, the people involved in them and the records that are produced from and by them





Recordkeeping metadata and multiple technical inputs

Using Projects the various technical metadata schemes devised by different professional groupings can be brought together within a more traditional systems design meaning of metadata as the data structures relating to the application itself, an important component of a fractalization strategy



A Major Challenge: The Creative Evolution of Authoritative Information Resource Management

The exponentially expanding Continuum of Recorded Information when left to its natural drive is:

- Morally Indifferent
- Plastic [William James]

placing a premium on the need for ethical informatics professionals. Are there too few sharp points at the leading edge of the evolution of the formation of evidence?

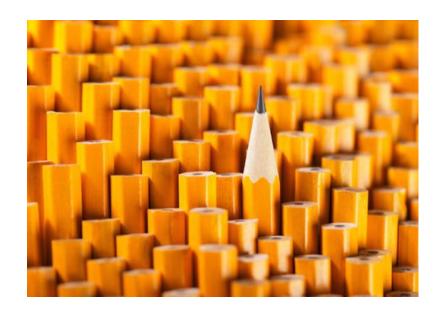


Image credit:http://cc.eestage.com/blog/11-tips-creating-authoritative-content-post-authorship-world

A Professional Continuum Informatics Actor-Network

Authoritative Information Resource Management and Evidence

The
Spacetime
Continuum
as a
metaphysical
lens

Specializations according to Project and Implementation requirements

- Information Management
- Systems design
- Recordkeeping
- Data Management
- Forensic data management
- Cultural [heritage] management
- Others as per project and application needs

The Pragmatics of Metadata

The Recordkeeping Specialization within the Continuum Informatics Network

Nanosecond archiving and agile computation

Recordkeeping Informatics and Project Design and Implementation Analytical Input:

- Information Culture (e.g recordkeeping architectures)
- Business Process Analysis (e.g. workflow)
- Access (e.g.registration techniques)

Recordkeeping functionality

- Recordkeeping metadata
- Spacetime management of storage
- Project methodologies for authoritative information resource management
- Appraisal (e.g. application evaluation)

Moral
Defence
of the record
[transparency
accountability
& legitimated
restrictions on
access