Digital Cultural Heritage in New Zealand: An Ecological Approach and Participatory Culture

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Outline

- Background and Context
- Cultural heritage in New Zealand
- Digital cultural heritage (DCH) in New Zealand
- Issues and Potentials
- An ecological approach to DCH
- Establishing participatory culture in DCH

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Background and Context

Living in New Zealand



... but not a 'Kiwi'

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A Bit About Myself

Originally from Sabah (North Borneo, East Malaysia)



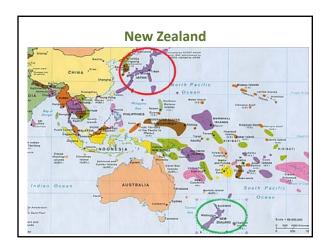
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A Bit About Myself

- Senior lecturer, Information Studies programme
- Visiting Scholar at University of British Columbia, Vancouver (Feb-June 2007)
- Joined VUW (NZ) in June 2003 from Singapore
- PhD at NTU, Singapore (1998-2001)
- MSc., Loughborough Univ; BA (Hons), Univ of Brighton, U.K.
- Teaching at VUW (Masters-level): Managing digital collections; Research methods for information management; Organising information; Web Content Management
- Research interests: Design & usability of digital cultural heritage –
 Information interaction and information use;
 Value-adding to digital contents;
 Context-sensitive information seeking/ knowledge discovery

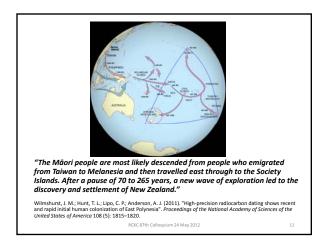


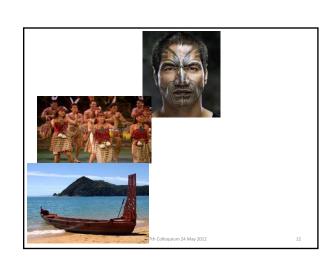


Cultural Heritage in New Zealand: Background + Context

- Aotearoa "Land of the long white cloud"
- Population: About 4.4 million
- Ethnic groups (2011 Interim Census):
 approx. 70% European + others; 15% Māori;
 9% Asian; 6% Pacific peoples







Digitisation of New Zealand Cultural Heritage

- Cultural properties and knowledge owned by Māori communities
- Memory institutions are mostly run by 'Pakeha(s)' using Anglo-American concepts and systems
- Cultural significance and preferences
- Concepts of authenticity and kaitiakitanga (guardianship)
- Certain knowledge is tapu (sacred)
- whānau (families, extended families), hapū (sub-tribes) and iwi (tribes)
- Highly contextualised (some: tacit; intangible; interlinked) ... "textured sculpture"

(Dorner, D., Liew, C.L. and Yeo, Y.P. (2007), "A Textured Sculpture: An Examination of the Information Needs of Users of Digitised New Zealand Cultural Heritage Resources", Online Information Review – The International Journal of Digital Information Research and Use, 31(2), 166-184.)

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Digitisation of New Zealand Cultural Heritage

Prospect for a Sustainable & Meaningful DCH

- ▶ Reconciliation
- ► Integration and sustainable structure
- Contextualisation of indigenous knowledge in its cultural and historical perspectives
- Integrity and trustworthiness
 - Consultation and involvement
 - Reciprocity in collaborative collection building and value-adding

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An Ecological Approach to Digital Cultural Heritage

- Emphasises a holistic understanding of DCH as part of an information ecology, and of the activities taking place between and amongst the various elements of the ecology
- Requires more than enumerating the digital objects, the organisation and structures and users/stakeholders that comprise a knowledge environment
- Requires also an understanding of the relationships and interactions that take place between and amongst the elements and their co-evolution through changes
- > Crouch (2010): "...heritage is continually emergent in living."

Crouch, D. (2010). The Perpetual Performance and Emergence of Heritage. In *Culture, Heritage and Representation: Perspectives on Visuality and The Past*, edited by Waterson, E. and Watson, S. Ashgate Publishing, Surrey.

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An Ecological Approach to Digital Cultural Heritage

■ Information Ecology (Nardi & O'Day, 1999)

Nardi, B. A. & O' Day, V. (1999). Information Ecology: Using Technology with Heart. MIT Press, Cambridge, Mass.

Activity Theory (Kaptelinin & Nardi, 2006)

Kaptelinin, V. and Nardi, B. A. (2009). Acting with Technology: Activity Theory and Interaction Design. MIT Press, Cambridge, Mass.

Liew, C. L. (Forthcoming) Towards Dynamic and Evolving Digital Cultural Heritage Libraries. *Information Research*.

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An Ecological Approach to Digital Cultural Heritage

- We can build a digital library with a rich repository of resources but it is not used as it is deemed to have very little value or it does not fit in with target users' practice (i.e. A technological innovation may appear good in isolation and yet turn out to be problematic or incomplete in actual settings of use due to lack of understanding of locality and values)
- We can start with a seemingly good conceptualisation for a digital library but fail to build it or to sustain it because of lack of funding and/or of other forms of essential support (i.e. A lack of understanding of keystone genus and roles of stakeholders and mediators)
- We successfully build a digital library according to a seemingly good conceptualisation but a critical problem later emerge (e.g. on data ownership) that creates conflict and threatens the sustainability of the digital library (i.e. A lack of a holistic understanding of the diversity of resources, tools, stakeholders, roles and intentions as well as the socio-cultural context concerned)
- We manage to build a digital library that is used but once another repository/ system comes along or a new technology is introduced, the digital library becomes obsolete and redundant (i.e. A lack of understanding of co-evolution of the digital library in its contextual environment).

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An Ecological Approach to Digital Cultural Heritage

■ Information Ecology (Nardi & O'Day, 1999)

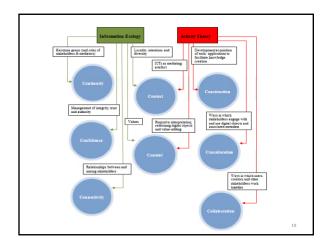
Facilitates the exploration of the values and intentions that drive activities

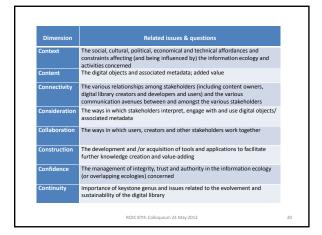
Activity Theory (Kaptelinin & Nardi, 2006)

Understanding and designing of information systems should be based on analysis of its role and place in activity -- help bridge the investigation of relationships between motivations and activities

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Participatory Culture in Digital Cultural Heritage

- Consultation and involvement
- Reciprocity in collaborative collection building and value-adding

Technologies and applications that support an 'architecture of participation' –

a platform that harness collective intelligence, empower users and facilitate greater engagement and interaction in a participatory approach.

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Participatory Culture in Digital Cultural Heritage

"a transition from Acropolis – that inaccessible treasury on the fortified hill –

to Agora, a marketplace of ideas offering space for conversation, a forum for civic engagement and debate, and opportunity for a variety of encounters" (Proctor, 2010)

Proctor, N. (2010). Digital: Museum as platform, curator as champion, in the age of social media. *Curator: The Museum Journal* 53(1), 35-43.

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Participatory Culture in Digital Cultural Heritage

- "Collective intelligence/Wisdom of the crowd"
- 'We is greater than I'





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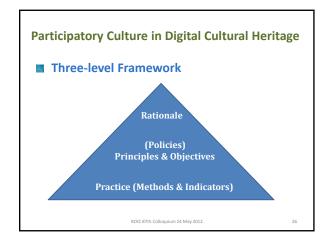
Participatory Culture in Digital Cultural Heritage

- If you build it, will they come?
- If they come, will they behave?

Participatory Culture in Digital Cultural Heritage

- In what ways can DCH introduce a meaningful participatory culture that will benefit their goals as well as their users and stakeholders?
- How can social media applications be used to facilitate this participatory culture in DCH?

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Participatory Culture in Digital Cultural Heritage

- **Level 1: Rationale**
 - Pragmatic
 - Purpose-driven
 - Transformational
- Level 2: Policies (Principles & Objectives)
- Level 3: Practice (Methods & Indicators)

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- Level 1: Rationale
- Level 2: Policies (Principles & Objectives)
 - User-centric
 - Fostering community
 - Responding to and making effective use of UGC
 - Accommodating multiple perspectives and empowering user construction of meaning
 - Supporting creative expression through encouraging re-use
 - Value-added through greater use
 - Evolving
- Level 3: Practice (Methods & Indicators)

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- Level 1: Rationale
- Level 2: Policies (Principles & Objectives)
- **Level 3: Practice (Methods & Indicators)**
 - 'Scaffolding'
 - Motivating participants
 - Quality assurance
 - **.**.

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ありがとうございます

Terima Kasih

謝謝

Thank you

Tēnā rāwā atu koe

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