

Cambridge Centre for Risk Studies Student Research Spotlights

Thursday 10 June 2010, 12:00-13:00, Judge Business School W2.01

Pip Walters: Lithium: Risks Associated with New Energy Supply Chain and Implications to Energy Security



Biography: Pip Walters is completing her MPhil in MEng at CUED. Pip's work experiences include the MOD, Cambridge Consultants, Davy Protech, Jane Wernick, Building Design Partnership, Rathbones Brothers, and Barclays Capital. Awards include: BP/IET Faraday, IMechE, and CCL Tech Scholarships, CUED 3rd yr project prize, & RAEng Leadership Award. She will join Barclays Capital.

Abstract: Pip's research addresses the impacts of the increasing demands of lithium and the implications to energy security. She will explore 'resource wars' and 'resource nationalism' and the implications these have on the energy supply chain. Her work takes an in-depth look at the relationships between Latin America and Eastern Asia, with focus on Bolivia, China and Japan.

Simeon Innocent: Facial Skin Colour and Health Perception in Humans



Biography: Simeon Innocent is completing his MPhil in Biological Anthropology with the PRIME research group under the supervision of Dr Leslie Knapp. He has a Bachelors' degree in Biological Anthropology from the University of Cambridge and has spent time in Uganda where he gained valuable research experience in both epidemiology and primate genetics.

Abstract: Simeon's research focuses on the complex interactions between human health and reproductive behaviour. I am investigating whether carotenoids, a dietary pigment and antioxidant, mediate human mate choice decisions by modulating facial skin colour, thereby advertising an individual's health status to potential mates.

Mukesh Kumar: Risk Management Practices in Global Manufacturing Investment



Biography: Mukesh Kumar is completing his PhD at the Institute for Manufacturing and has BS and MBA degrees in Commerce from India and Webster University, respectively. He has worked in financial consulting at AWR Lloyds and Adventity BPO India. His experience includes corporate valuations, M&A targeting, market analysis & valuations of Pharma and Utilities companies.

Abstract: Mukesh's research explores risk management practices in global manufacturing investment. It reflects the growing internationalisation of manufacturing and the increasing complexity and fragmentation of manufacturing systems. Issues of risk management have become increasingly important in financial and company governance contexts not least because of growing international concerns about the consequences of unregulated risk.

Catherine Edwards: Complexity in Health Organisations and the Co-existence of Different Organising Principles



Biography: Catherine Edwards is studying for an MPhil in Management Science & Operations at CJBS. She graduated from Lancaster University with joint honours in Mathematics, Environmental Science and Physics and obtained a first in 2008. As part of this degree she also spent a year at the University of California, Berkeley. Catherine is intending to work in operational research.

Abstract: Complex organisations exhibit surprising, nonlinear behaviour. One dimension of complexity in organisations is the co-existence therein of different coordination mechanisms or organisational forms. I will discuss how three different organisational forms; the market, the hierarchy and the community affect organisational learning. These three organisational forms can either promote or inhibit different learning processes and thus coexistence is likely to be complex.

Lunch provided, RSVP not required

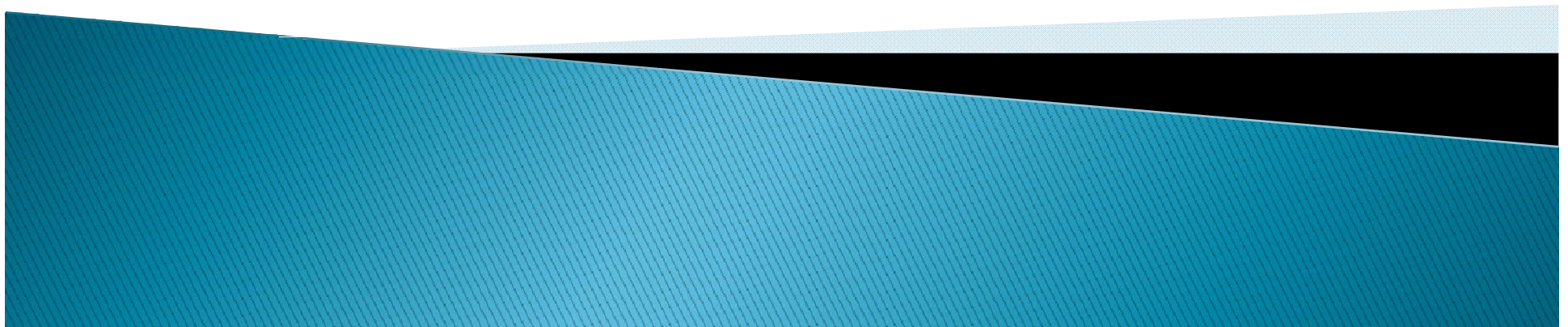
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Lithium: Risks associated with Energy Supply Chain and Implications to Energy Security

Pip Walters



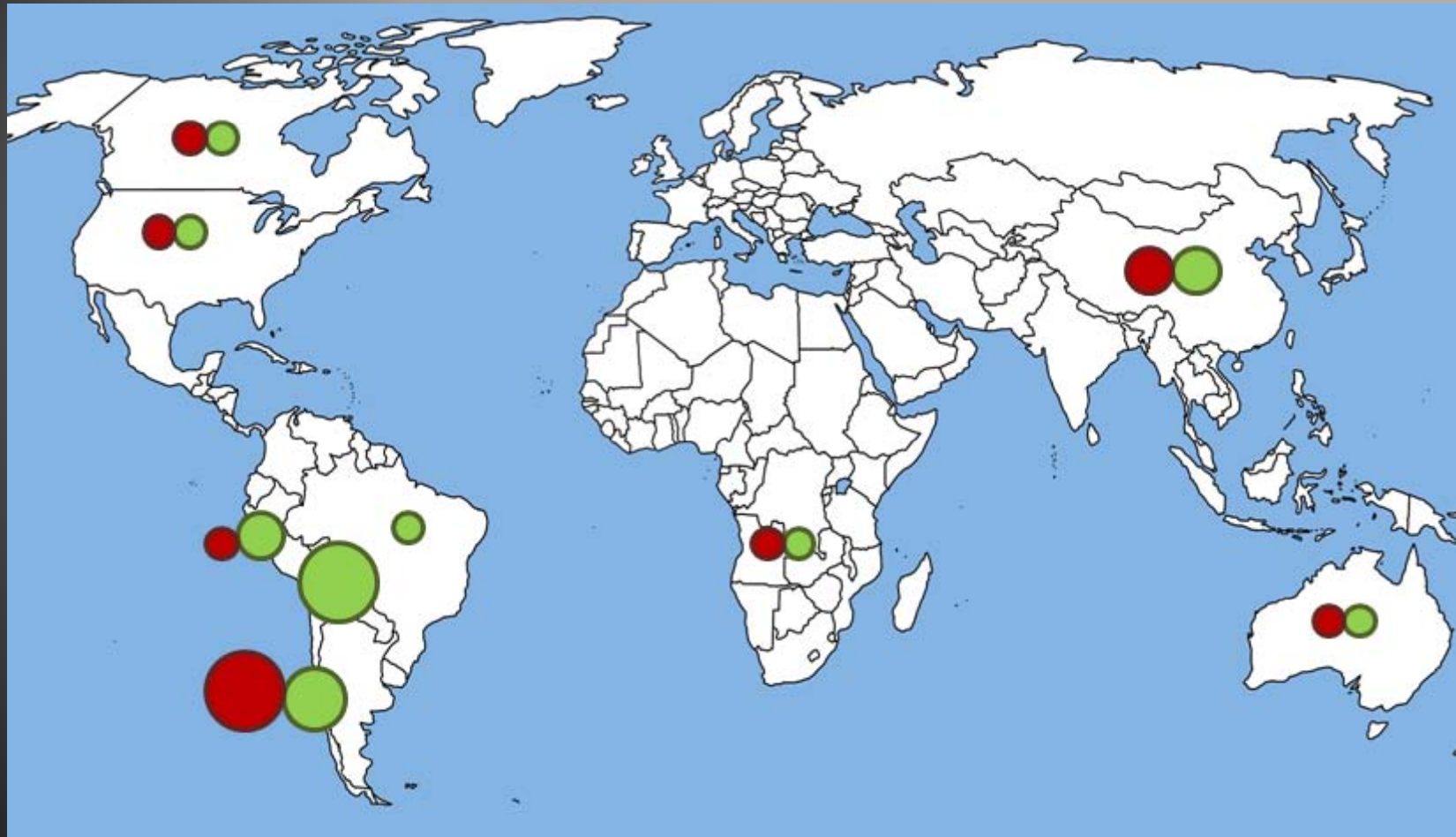
Outline

- ▶ Lithium
- ▶ Bolivia
- ▶ Bolivian Relationship with Eastern Asia
- ▶ Resource concerns
- ▶ Conclusions

Lithium

- ▶ Why is it important?
- ▶ Predicted increase in demand
- ▶ Supply locations

Lithium



Reserve



Production

Bolivia

- ▶ Lithium carbonate reserves
- ▶ Government conditions
- ▶ Mining difficulties
 - Location
 - Technology
 - Finance



Bolivia – risks

- ▶ Mining time lag vs demand increase
- ▶ Relationship with China and Japan
- ▶ Resource Nationalism
- ▶ Resource Wars

Resource Nationalism



Resource Wars



- ▶ Japanese and Chinese lithium focused industries
- ▶ Chinese rare earth metal monopoly

Conclusions

- ▶ Capitalist eyes are on Bolivia
- ▶ South American, Eastern Asian relations
 - LIEC
- ▶ Time lag on mining
- ▶ Risks



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Complexity in Health Organisations and the Co-existence of Different Organising Principles

10th June 2010

Catherine Edwards

Agenda

- Research Question
- Organisational Forms
- Organisational Knowledge Creation
- Knowledge Creation within different Organisational Forms

Research Question



- What is the relationship between different organisational forms and the process of organisational knowledge creation?



Organisational Forms

- Market
 - Price Competition
- **Hierarchy**-Professional Hierarchy, Machine Hierarchy
 - Authority
- Network
 - Trust

Organisational Learning



- The Epistemological Dimension

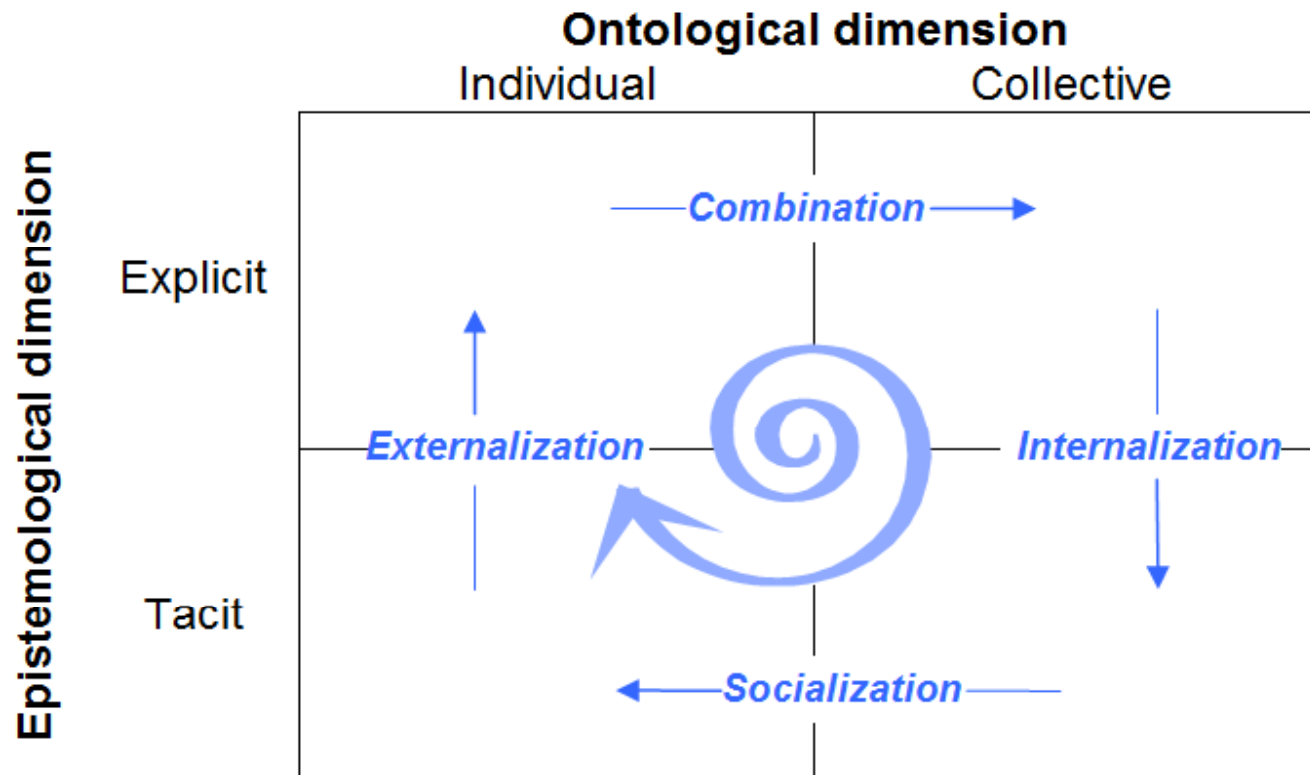
- Tacit vs. Explicit Knowledge

- The Ontological Dimension

- Individual vs. Collective Knowledge

Organisational Learning

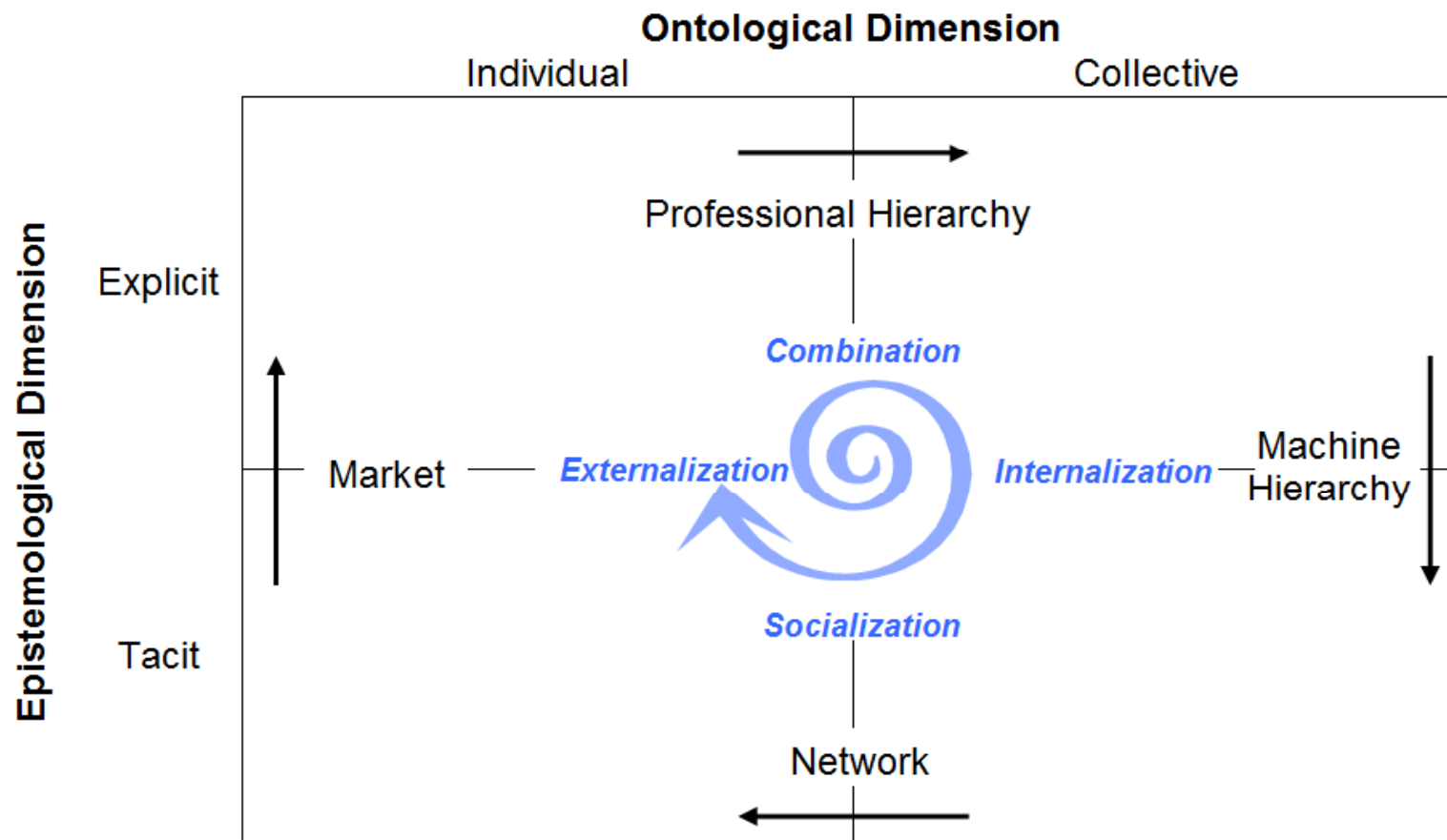
Figure 1: The Knowledge Creation Spiral (adapted from Nonaka and Takeuchi, 1995)



Agenda

- Research Question ✓
- Organisational Forms ✓
- Organisational Knowledge Creation ✓
- Knowledge Creation within different Organisational Forms

Knowledge Creation and Organisational Forms



Questions?

