Union of Intelligible Associations

Keystones vs Keynotes?

Anthony Judge
Union of International Associations
## UIA Prime data sets

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Meeting organization
self-reflexiveness

- “Islands” of knowledge in a “sea” of…. doubt?
- How to “participate” effectively?
- A meeting as exemplifying:
  - best understanding of knowledge society?
  - best metaphor of the challenges that society faces?
- Cognitive dependence on:
  - Linear text, 2-d matrix, 3-d cubic structures
  - Filtration processes, empowering the few
  - Exclusivism: people? issues? particular metaphors
- Failure to optimize use of assembled resources?
“Key” issues?

- Knowledge: answers and/or questions?
- Knowledge organization:
  - research problems (of disciplines): “commensurables”
  - policy problems: “incommensurables”
- Comprehension: By whom? To what degree?
- Cognitive “keystones” — “Rosetta stones”?
- Strategic resilience and nimbleness?
- Complexity mapping: comprehensible surface
- Aesthetics: “singable” vs “signable”?
Strategic Resilience

- Security, terrorism:
  - martial arts? Sun Tzu? Book of 5 Rings?
  - origami? flower arrangement? metaphor?
- Jitterbug? Transformation?
- Strategic permutations?
- Participative design: Soda constructor?
- Engagement of new modes of intelligence
- Marrying “Beauty” and the “Beast”
- Intelligent approach to “positive” vs “negative”
Configuring Disagreement?

- Heavy investments
  - >> agreement – conflict resolution
  - >> disagreement – armaments, security
- We don’t like each other’s preferences
- We consider them very close to irrelevant?
- We are too polite to say so
- Challenge of the “unsaid”
- Strategic consequences? Resource allocation?
Comprehension and Aesthetics

- Unsaid and “Non-dits”
- George Miller cognitive constraint >>> +/‐ seven
- *Limits to Growth*: 6 policy problems/issues
- Emergent understanding of organization?
- Ageing population:
  - Playing games with people vs New forms of wisdom?
  - Increasing alienation/boredom of younger generation?
- Eurovision song contest vs Euro constitution?
- Challenge of “strategic halitosis”? Stinking futures?
Higher order questions?

- Knowledge-based society
  - >>>> Answer-based society?
  - >>>> Question-based society?
  - >>>> Wisdom society?

- Facing uncertainty with old questions?

- Bohr/Pauli: Is our theory crazy enough?

- Democracy? Security? Resources?
The Other “Globalization”? 

- Socio-economic, geo-political challenge?
- Or challenge of:
  - “global” comprehension?
  - “integrative” order?
  - “higher patterns of order”?
  - knowledge globalization?
- “Mise en question” of past patterns?
- Beyond impoverished metaphors?
- Are questions and metaphors patentable?
Pointers

- Francisco Sagasti: delay in understanding
- James Carse: finite vs infinite games
- Magoroh Maruyama: mindscapes
- Susantha Goonatilake: richer metaphors
- Ron Atkin: Q-analysis
Integrative Design Metaphors
enabling strategic comprehension
of the global brain

Anthony Judge
Union of International Associations
for
World Academy of Art and Science
Conference theme: The Future of Knowledge:
Evolutionary challenges for the 21st Century
(Zagreb, November 2005)

Panel theme: Organizing knowledge for human benefit
Integrative modes and metaphors: “ways of knowing”

1. Popular symbol systems (astrology, tarot, leys, etc)
2. Lists (selected, prioritized, nested, search hit lists)
3. 2-D Matrix (4-cell, n-cell)
4. Triangular mapping
5. Complementarity diagrams (“correspondences”)
6. Network mapping (self-organizing network maps)
7. Models, simulations, interactive games
8. Circular relationship maps (loop representation)
9. Multi-media, sonification
10. Mapping complexity plane (Mandelbrot set fractal)
11. Spherically configured 3-D structures (polyhedra, etc)
12. Transformable structures, morphable images
Mode 1: Traditional symbol systems
Insights into policy cycles in Imperial China
Hindu yantra
Mode 2: Lists – unstructured and otherwise

- Book of Lists
- Prioritized lists (political “key issues”)
- Nested lists (asystemic)
  - UN/OECD Macrothesaurus
  - Agenda 21
- Hit lists (web search engine results)
- Bulleted lists (as this slide !!!)
Mode 3: 2-D Matrices

- 4-cell (Wilber quadrants)
- Input-Output diagrams (resources, accounting)
- N-cell (Int. Concept Classification)
- N-cell (UIA Functional classification)
## UIA Functional classification matrix

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Mode 4: Triangular relationship mapping
ICA Social process triangles framework
Mode 5: Complementarity diagrams ("correspondences")

12 Languages of governance
Mode 6: Network mapping

- Static maps
- Self-organizing network ("spring") maps
- Touchgraph
- Decision Explorer
Knowledge organization relating to terror
Conference mind-mapping

Urban slums

Ozone as a pollutant

Deforestation

Acidic precipitation

Unsustainable population levels
Conference mind-mapping

Discrimination against women

Social subjugation of women

Wife abuse

Infantalization of women

Violence against women

Restriction of freedom of expression

Discrimination against women in employment
Discrimination against women
Problem loops sustaining irresponsible policies
Network spring map

- Social underdevelopment
- Lack of response to monetary incentives
- Government manipulation of public information
- Uncontrolled industrialization
- Religious intolerance
- Misguided legal advice
- Insufficient rural housing
- Prohibitive cost of transportation
- Rural poverty
- Westernization of traditional modes of life
- Tradition-bound subordination of women
- Unprotected vulnerable economies
- Economic uncertainty
- Class conflict
- Denial of right to work
- Power politics
- Unrealistic environmentalism
Mode 7: Models, simulations, interactive games

- Economic models
- *Limits to Growth*
- World modelling
- World building games
Interactive modelling: *Soda constructor*

http://sodaplay.com/constructor/player.htm?
Mode 8: Circular relationship maps & loop representation

- Netmap
- UIA maps
- Loops
Crop rotation as a policy metaphor

Illustration of a sustainable 4-cycle policy
# Progressive refinements of problem loops

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Problem E8516: Lack of credit facilities for agricultural producers
VRML Example: World problem loop interlocks
Netmap transaction analysis
Mode 9: Multi-media, aesthetics

- Multi-media:
  - Beyond text >> Visualization
  - Interactivity

- Sonification
  - Comprehending complex pattern through sound
Mode 10: Mapping complexity plane
(Mandelbrot set fractal)
(vertical axis=“real”, negative at top; horizontal= “imaginary”)
Comprehensible mapping of complexity

- Search for a “surface” onto which complexity can be mapped
- Challenge of mapping strategic & value dilemmas
- “Real” vs “Imaginary”
- Mapping network of terror (“real” and “imaginary”)
- *Psycho-social Significance of the Mandelbrot Set: a sustainable boundary between chaos and order* (2005)
- *Sustainability through the Dynamics of Strategic Dilemmas: in the light of the coherence and visual form of the Mandelbrot set* (2005)
Mode 11: Spherically configured 3-D structures

- Polyhedra
- Tensegrity (*Syntegration*)
- Virtual reality
- Spherical accounting
VRML Example: Organizations (World Bank system)

[Image of a VRML model representing organizations with the text UNDP - United Nations Development Programme]
Tensegrity in virtual reality
VRML Example: Organizations (EU system)

GIEWS - Global Information and Early Warning System on Food and Agriculture
Vulnerability of marriage as an institution 34

Discrimination against women

Virtual reality configuration of relationships from World Problems database (see below)
Mode 12: Transformable structures, morphable images

- Vector equilibrium ("Jitterbug")
- Morphable images
Resonance hybrids: key to future sustainability?
“Dodecameral” integration
Transformations of vector equilibrium