"GOVERNING THE ANTHROPOCENE: CYBER-SYSTEMIC POSSIBILITIES?"

HERRENHAUSEN PALACE, HANNOVER GERMANY. 30TH - 31ST JULY 2015 - Programme for a Systemic Inquiry

Panel 1: **Learning about cybersystemic governance from Limits to Growth.**

Speakers: **Alexander Christakis** and **Heiner Benking**.
Response by **Robert Hoffman**

Input by Heiner Benking:

Revisiting, Reframing and Rescaling an embodied „Problematique" and Covenant.

Reflections and Learnings about Systems, Models, Frames, Signs, Media, Representations (like Scaffoldings), Boundaries, Scales, Languages and Mindsets ….

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Seeds of Change - Heiner Benking's Blog - quergeist.info: VISION as DUTY @ INSIGHT - THEORIA CUM PRAXI - WISSENSCHAFT ZWISCHEN NEUGIERDE

VISION as DUTY @ INSIGHT - THEORIA CUM PRAXI - WISSENSCHAFT ZWISCHEN NEUGIERDE

25 Jun 2015 @

20:48, by Heiner Benking

http://jahresthema.bbaw.de/

LEIBNIZ: VISION ALS AUFGABE

Theoria cum praxi - Wissenschaft zwischen Neugierde und Nutzen II am 25. Juni 2015 [link]

A very special event about the Challenges around not just CHALLENGES to SCIENCE and POLITICS -see our 25th and 45th celebrations [link] - but how to include stakeholders, not observers and lobbyists.

The event is very interesting, I enjoyed talking not only to Gethmann and Labisch and recommend...
will use much for Leibniz Castle Herrenhausen in July, Stay tuned...

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Percepts without Concepts are blind,
Concepts without Percepts are empty.

Words without Actions are futile,
Values without Contexts are meaningless.

(free after Leibniz, Kant, Margeaux)

Intervention from the floor and interview after the event by/with Heiner Benking at:

How about that for a beginning?

Elinor Ostrom, Economy and Political Sciences, Nobel Prize Lecture, Dec, 8., 2009

- multi-perspective
- multi-positional and multi-centric
- mix of scales
- nested
- meta-data analysis research included
- diversity of rules and systems
- coping with dilemmas
- multi-level
- not chaotic – but complex
- common pool resources and sets
- common analytical tools and language
- common and diverse regimes across scales
- communication and agent-based models
- clarifying concepts, trust and reputation
- ….

More:

Governing the Commons: The Evolution of Institutions for Collective Action Ostrom, Elinor, Cambridge University Press, 1990

Understanding Institutional Diversity Ostrom, Elinor, Princeton, Princeton University Press. 2005.

Understanding Knowledge as a Commons: From Theory to Practice Ostrom, Elinor and Hess, Charlotte, Editors, The MIT Press, Cambridge, Massachusetts, 2006

Intervention from the floor and interview after the event by/with Heiner Benking at:

Breaking Down New Walls

10th Annual Summit of Nobel Peace Laureates, Berlin, November, 9-11 2009

Breaking down new walls for a world without violence

Third session:
Walls of menace to the Environment

Breaking down the walls that constrain environmental and sustainable development prospects). [Audio and Video]

New Science, new Language, new Thinking ?

HOW ABOUT?
OLD and proven, traditional and NEW

Thinking and Doing and Sharing ?

[more]: New Renaissance 3, UN COP15 – UNFCCC side events Copenhagen 2009,
Continuously updated this Blog: www.quergeist.info

Konrad Lorenz Institute for Evolution and Cognition Research

Altenberg Workshops 1996/97 30. January 1997, Austria,

Worldview Compositions and Cognitive Spaces
- a necessary evolutionary step by Heiner Benking

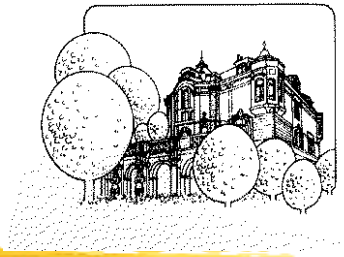
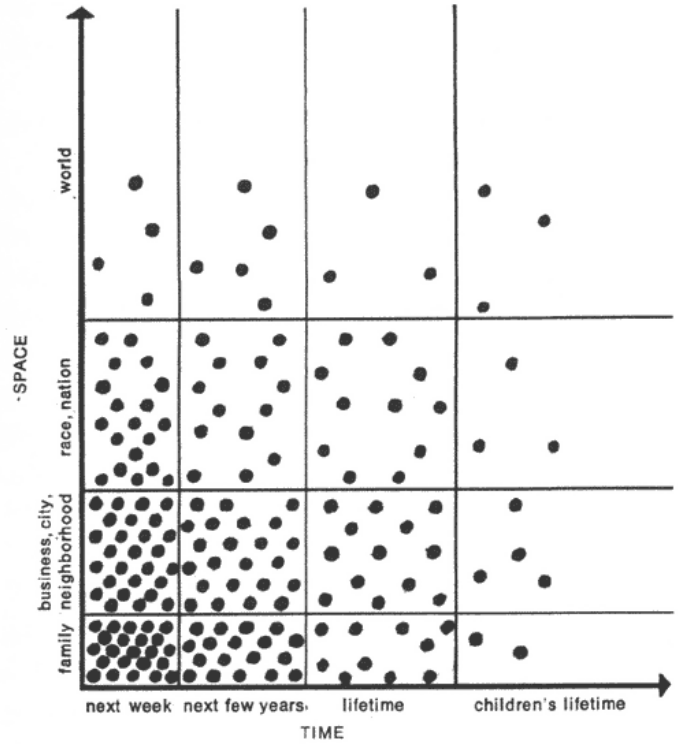


Figure 1 HUMAN PERSPECTIVES



Subtitle of Fig 1: Although the perspectives of the world's people vary in space and time, every human concern falls somewhere on the space time graph. The majority of the world's people are concerned with matters that effect only family or friends over a short period of time.
Others look far ahead in time or over a large area - a city or a nation. Only few people have

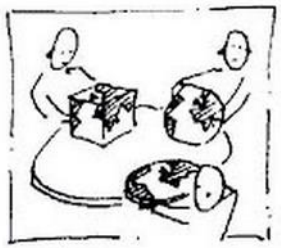
a perspective that extends far into the future.

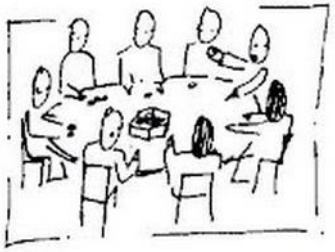
*

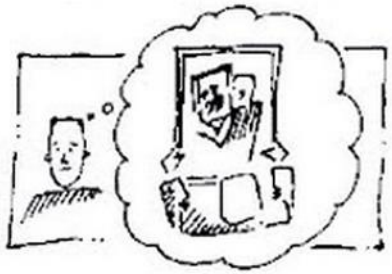
Later we can read in the book: that in contrast to the majorities focus in the quadrant in the lower left “box”, the book concerns itself with the upper right quadrant or “box”.

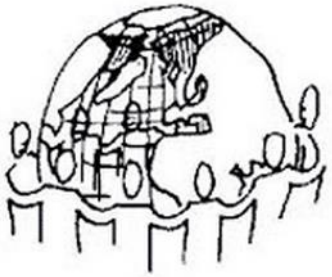
Source: Limits to Growth, Donella H. Meadows, Dennis L. Meadows, Jorgen Randers & William W. Behrens III, Potomac Associates, New York (1972)

pls. see also The Club of Rome - The Predicament of Mankind, 1970


Many models, many views


Invite, share, listen. co-create


See who sees & reflect upon it


Global seeing & feeling

- a retrospective inquiry
  - Connecting_Dots_and_Spa... – State of the Arts and Outlook
  - dialog-background-collection
  - Magic Roundtable – OpenForum
  - Reynaldo's Synopsis IM & SDD – 9/2014
- Connecting_Dots_and_Spaces
- History of this site
  - Welcome
- myths and realities around dialogue
- oikos-eco
- order challenge
- sandbox-agora
- Sources Club of Rome
  - 40years-Problematique
- Sources CoLab
- Sources-Systemic-/Holistic
- The Spoons & Feathers Principle/Phaenomenon

a retrospective inquiry

Sept 2013

SAPREJ-12: Sustainable Alternatives for Poverty Reduction and Ecological Justice
Institute of Theology and Ecology of the OAC, International Ecological and Multidisciplinary Conferences
"Religion and Science can provide solutions for sustainability problems" - September 29, 2012, OAC, Chania, Greece

Ορθόδοξος Ακαδημία Κρήτης

Enjoy a personal copy beforehand only for colleagues/friends and get the book with all the other contributions possible with support from Cambridge Scholar Publishing, available at the OAC. Check: ISBN: 978-960 86383-8-9

Collecting, Framing, Negotiating, and Connecting in Times of a GLocal[1] "Problematique"[2].

On-Going Programs

- What's New?
- 15 Global Challenges
- 15 Ways You can Participate
- State of the Future (Global and National SOFIs)
- Real-Time Delphi(RTD)
- Global Lookout
- Environmental Security
- Futures Matrix
- Internships
- Contact Us

Special Studies

- Some Elements of the Next Global Economic System
- Global Energy Network and Information System(GENIS)
- Global Scenarios
- Future Possibilities for Education and Learning 2030
- Future Global Ethical Issues
- Other Studies
- Presentations

Cyberlife

- MP collab website
- Second Life
- Listserv

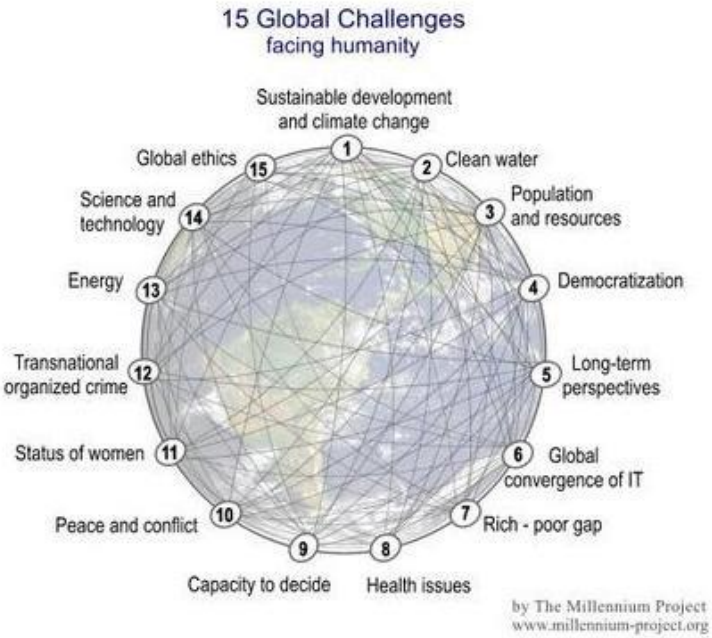
Global Challenges for Humanity

- excerpt from 2011 State of the Future -

Also available 15 Global Challenges-Spanish Translation.

*The 15 Global Challenges updated annually continue to be **the** best introduction by far to the key issues of the early 21st century.*

-- Michael Marien, editor, *Future Survey*



See: Millennium Project
Global Agora Structured Dialogic Design
March-July 2011 exercise:

STRATEGIC ARTICULATION OF ACTIONS TO COPE WITH THE HUGE CHALLENGES OF OUR WORLD TODAY
A Platform for Reflection
Reynaldo Treviño Cisneros and
Bethania Arango Hisijara
Aguascalientes, México, April 2011

In: LA TRAMA ESTRATEGAR PARA ENFRENTAR LOS RETOS DEL MILENIO
Aguascalientes, México
Madrid, España, Julio 1, 2, 3 de 2011

The 15 Global Challenges provide a framework to assess the global and local prospects for humanity. Their description, with a range of views and actions to addressed each, enriched with regional views and progress assessments are updated each year since 1996 and published in the annual *State of the Future*. The short description of the challenges appears in the print version of the report, while a detailed, more complex one is on the CD that accompanies the report. The detailed version of the Global Challenges available in the CD's Chapter 1 are totaling over 1,300 pages. For each Challenge, there is a more comprehensive overview, alternative views or additional comments from participants on the overview, regional perspectives and relevant information from recent literature, a set of actions with a range of views from interviews with decisionmakers to address the challenge, additional actions and views on those actions, and suggested indicators to measure progress or lack thereof.

Title	Description
The Predicament of the Individual, Communities, and Humankind in the 21st Century	Delibertations about Structured Dialogic Design, Systems Thinking, Policy-Making, Multi-track Diplomacy, Empowerment and the Wisdom of the People
Learnings and Vistas based on revisiting 40 years "Global Problematique"	summing up 40 years "Predicament of Mankind" (Club of Rome early report), look-outs, and new forms of structured dialog and deliberation / decision cultures in an Interview with Alexander Christakis.

Comparison of the Methodologies proposed to the Club of Rome in 1970

	Limits to Growth	Prospectus
Variables Considered	5	49
Participants	Experts	Representative Stakeholders
Method	System Dynamics	Successive committees of stakeholders
Club of Rome Decision	Accepted	Rejected
Positive Reaction since 1972	Club of Rome consistently employed System Dynamics as its method of choice Worldwide debate on topics such as climate change	Method envisaged in prospectus refined, resulting in Structured Dialogic Design, an effective method for dealing with complex psychosocial problems such as above 49
Negative Reaction since 1972	Rejection of results: by scientists on the basis f insufficient variety of studies by public for a variety of reasons	Structured Dialogic Design not widely recognized and with limited influence
Prognosis	Continuing dissent and change occurring usually because of catastrophic events	Gradual adoption of structured dialogue and eventual consensus on controversial issues

or in a nutshell:

MODELS DISCOVERED

vs

MODELS DELIVERED

EARTH FOCUS
FOUNDATION

From a Global Concept to Local Projects
Innovative educational tools to better understand sustainable development

CONSERVATOIRE ET JARDIN BOTANIQUES VILLE DE GENÈVE
GREEN CROSS
INSTITUT NATIONAL GENEVOIS
fondé en 1892 par James Fazy
PEFC

Monday 17th October 2011, Institute National Genevois , 1204 Geneva

Introducing:

"A Democratic Approach to Sustainable Futures" and the "Digital Peters“

Examples of CoLaboratory Dialog Design, Deliberation and Visualization Approaches for shared Orientation, Understanding, Capacity-Building, and Actions across Levels, Sectors, Languages, Terminologies, Scales and Mindsets

Heiner Benking
Council on Global Issues, Positive Nett-Works, 21stCentury Agora

SYSTEMIC „LAWS“ of STRUCTURED DIALOGIC DESIGN

REQUISITE
Requirements:

Variety
Ashby

Parisomony
Miller, Warfield

Saliency
Boulding

Meaning
Peirce
Qualitative: Wisdom - Value

Evolution of Observation
Dye (Evolution not fixation) !

Requisite **Action**
Laouris, Christakis
and Pragmatic Action !?

Contexts ?

Representations ?

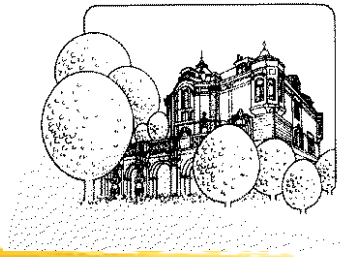
Languages ?

OPEN FORUM Background Papers Collection -- Paper 1
Necessary, indispensable requisite requirements to cultivate and maintain DIALOG, DELIBERATION, AND DECISION CULTURES

Konrad Lorenz Institute for Evolution and Cognition Research

Altenberg Workshops 1996/97 30. January 1997, Austria,

Worldview Compositions and Cognitive Spaces
- a necessary evolutionary step by Heiner Benking



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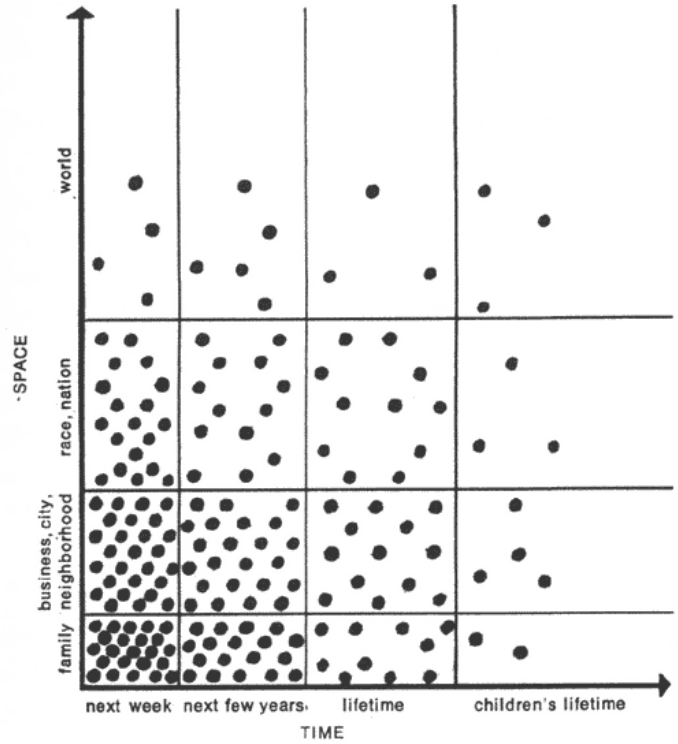

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pls. see also The Club of Rome - The Predicament of Mankind, 1970

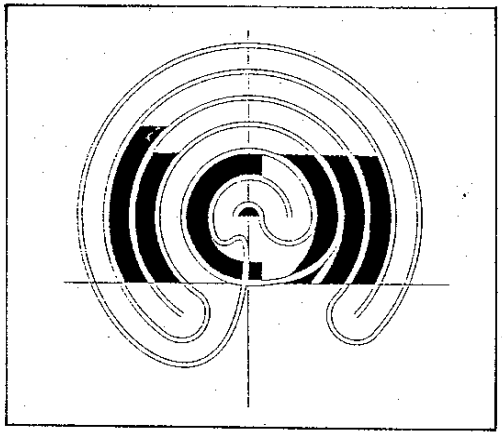
Global Sharing and Coping

Starting Points uia.org site - some slides...

I could have also called this UIA guest page **GLOBAL CHANGE** or LOCAL AND GLOBAL CHANGE - as my work started about global environmental issues in 1988 with such wide and universal themes. Only because I was involved in two or more projects at that time, and have a certain background which was about preparing and documenting decisions and presenting results, I was able to make the bridge, combine what normally is not seen as one - or in one solution. As both project concepts are not only of wider interest and unique in their approach, specially in their time we are proposing here to follow each background independently and then join in again the flow of events.

HARMONIZATION

The first and most central entry points have been around a G7 and SRU German Environmental experts initiative which was taken up by the UN-Environment Programme UNEP - HEM.



GLOBAL CHANGE

The other started with the GLOBAL CHANGE conference 1988 in Moskow.
Germany and other countries had been invited to present „Challenges to Science and Politics“ in form of Conferences and Exhibitions. As I was invited to contribute I had to think anew on how such complex Issues could be communicated to the broader public, raising awareness and consciousness, and being correct and helpful for scientists, politicians, and industry at the same time. I go public now 1998 as after having this touring exhibition 8 years in Germany, but never been shown outside Germany, and being updated and in high demand, there is high danger of losing this piece and milestone. Politics look east and local when the exhibition was opened in May 1990. The result we have no public eye and information about the exhibition, its scope and results. As this is fatal in my view, I fee I have to change and address that.

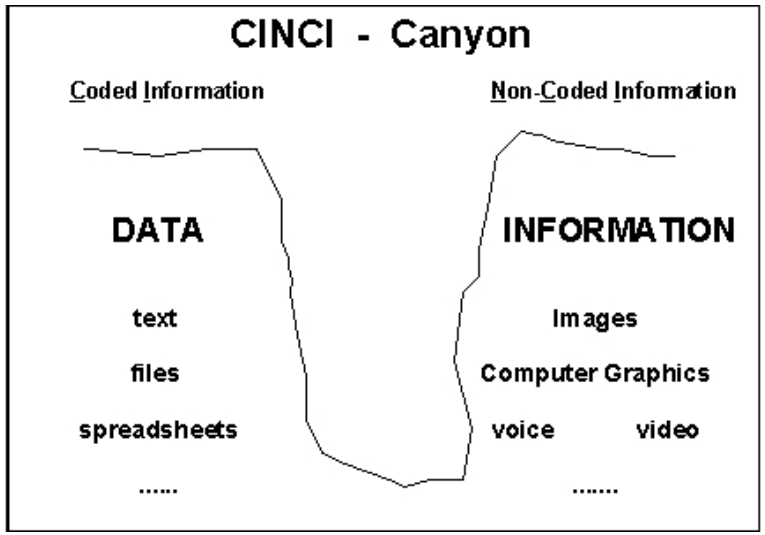


Fig 1: The CINCI - Canyon: The technology canyon between coded- and non-coded information. From: http://benking.de/bridge-masterplan.html

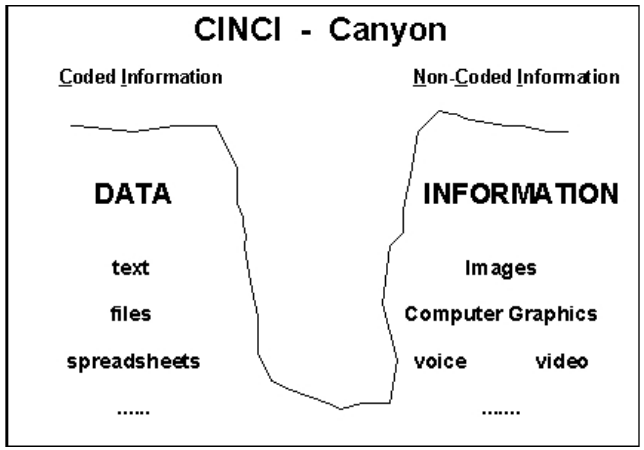
13th ICSU - CODATA Conference in collaboration with the ICSU-Panel on World Data Centers, Beijing, October 1992
Databases and Definition Problems: Workshop M and System Presentation
Bridges and a Masterplan for Islands of Data in a Labyrinth of Environmental and Economic Information

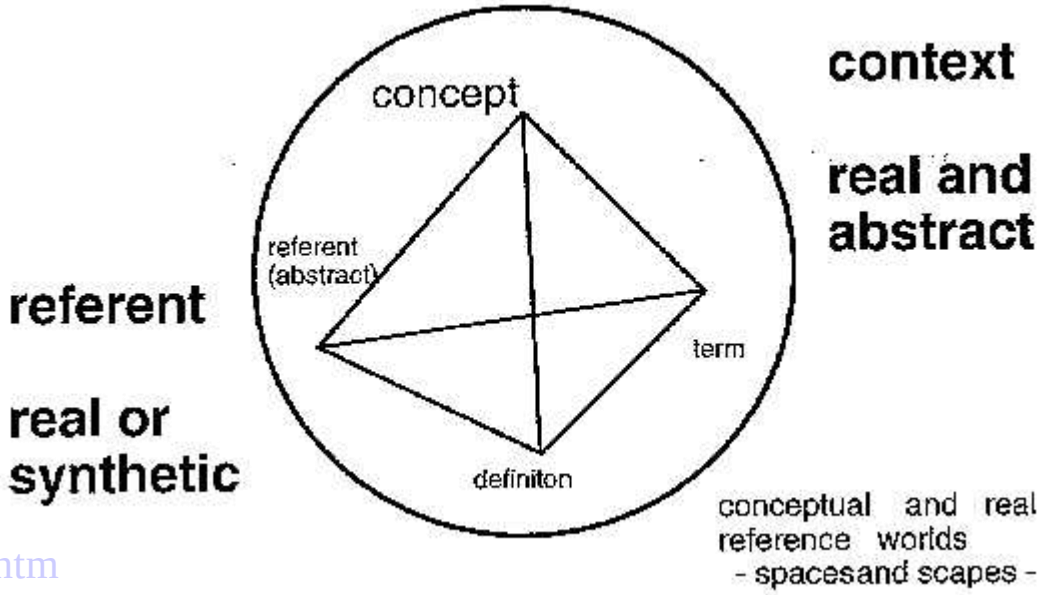
Institut zur Erforschung und Förderung österreichischer und internationaler Literaturprozesse

INST-Conference

6-8. December 2002, Austria Center, Vienna

http://benking.de/Global-Change /harmonization-global-change.html
http://benking.de/Global-Change





http://benking.de/semiotics/terminology.htm
http://benking.de/semiotics/TKE-99.html
http://benking.de/ceptualinstitute/terminology.htm

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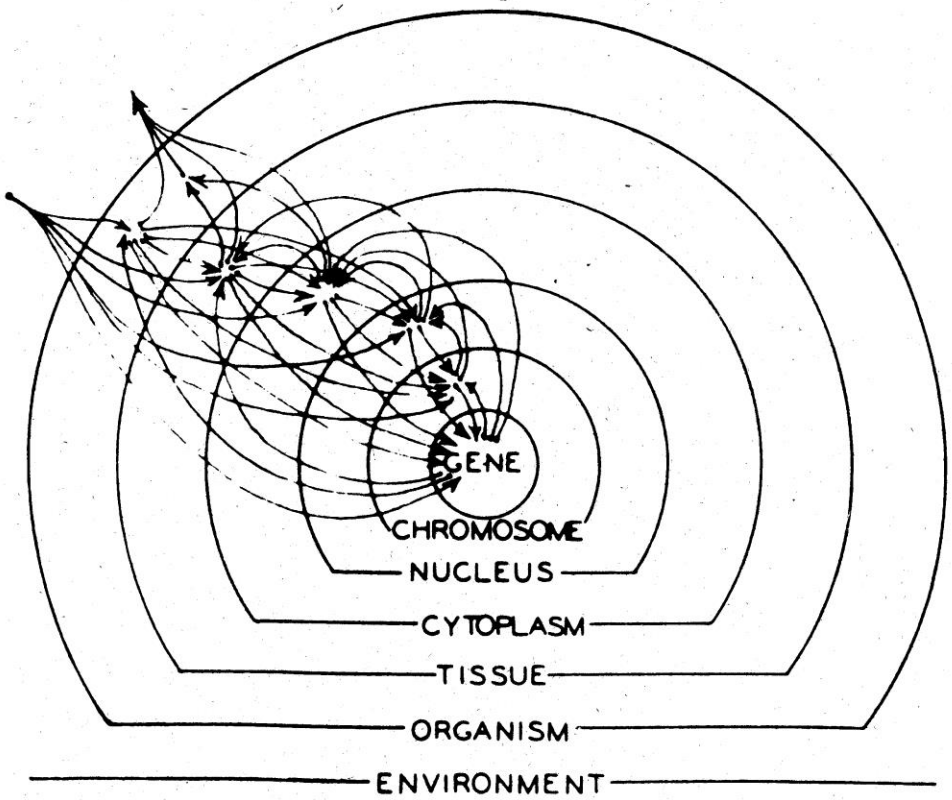
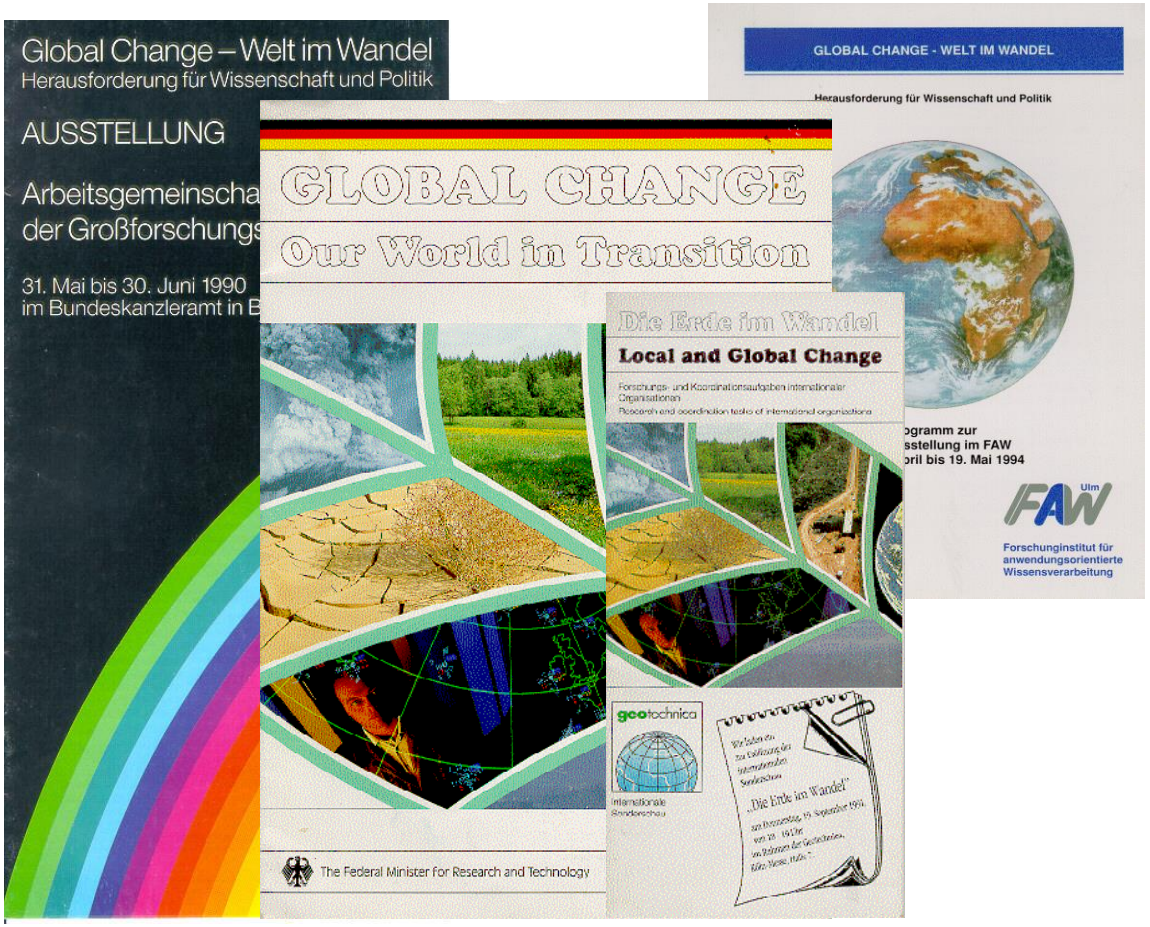


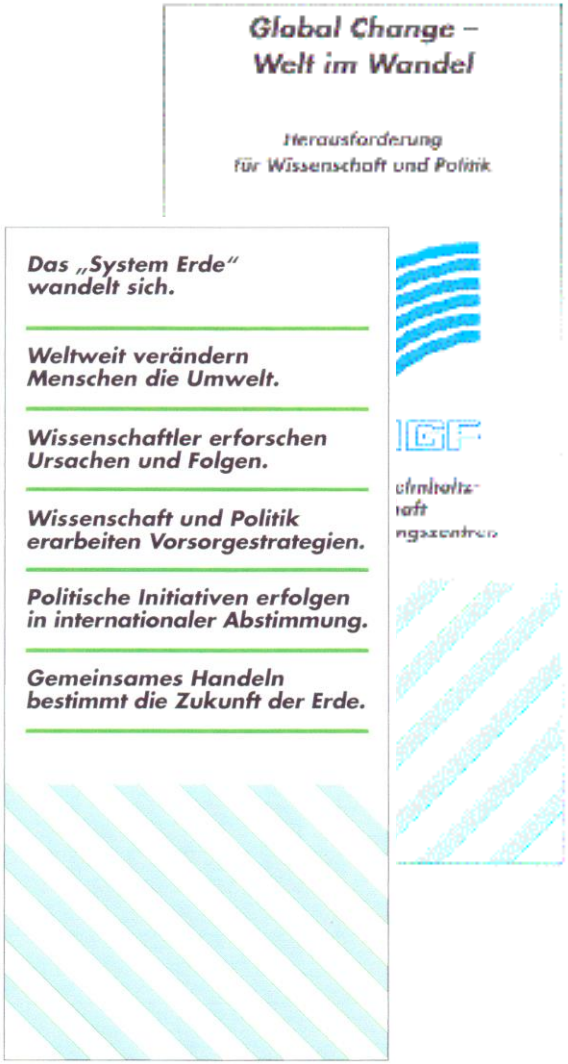
Interactive relations among hierarchically ordered subsystems of an organism, Inscribed Domains, P. A. Weiss, In: Beyond reductionism, Alpbach 1968, pls. see more: IFSR - ISSS

Global Sharing and Coping

GLOBAL CHANGE 1990-99

LINK TO GLOBAL CHANGE EXHIBITION



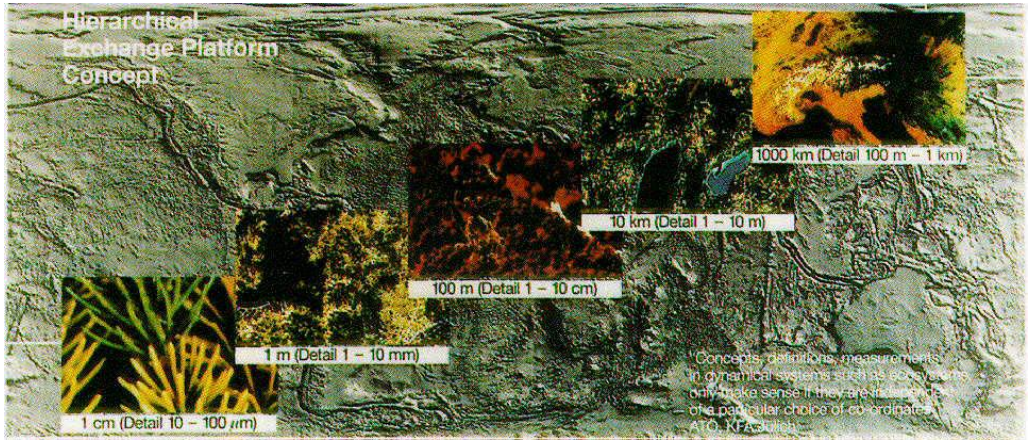


GLOBAL SHARING & CARING

Ecological thinking is:

Thinking and understanding "inter" and "trans" or

"Interaction along and across hierarchical scales in a concrete and sharable way"



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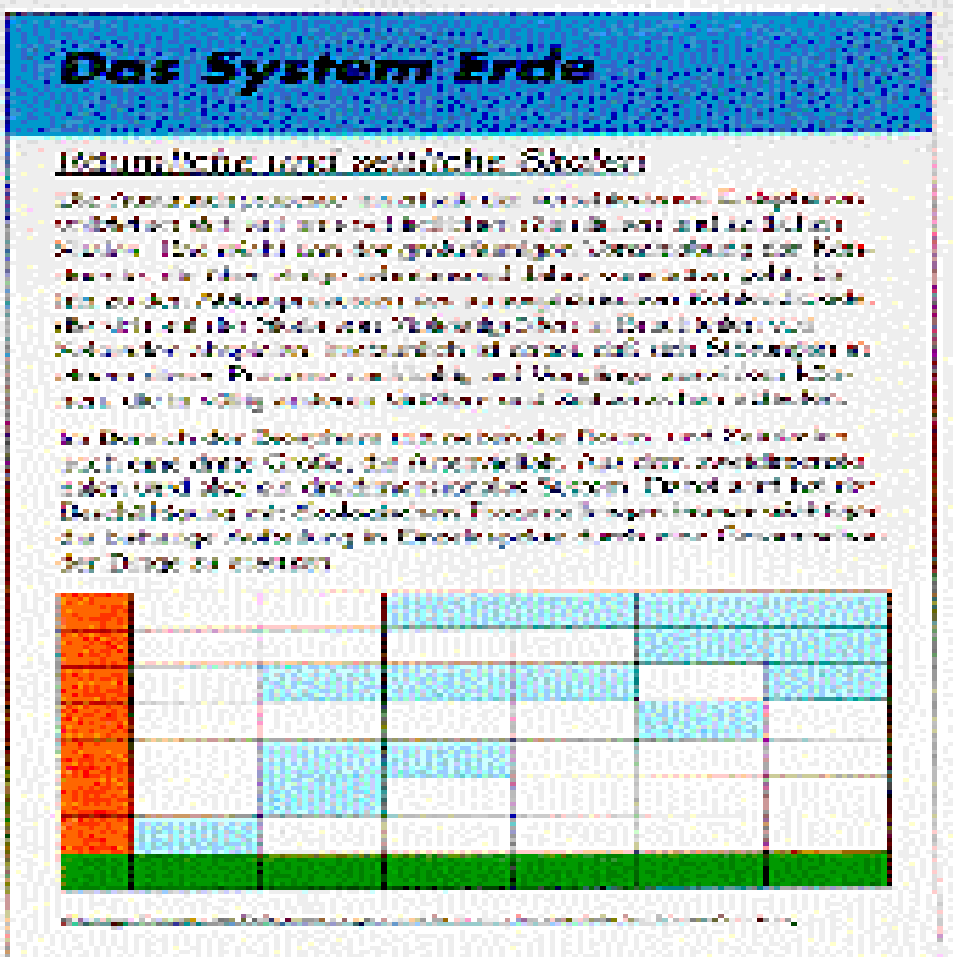


Search this site:
Search

- Overview / Content
- What is Kairos?
- Navigation
- About Kairos (FAQ)
- Topics / Subjects
- Visuals / Images
- Encyclopedia commentaries
- Problem / Strategy Loops
- Updates, errors, etc
- "Insights"
- "Poems", etc

Pointers to possibilities: Ekistics, Dymaxion World and Eco-Cube

Year: 2010

Patterns Essential to Individual and Global Health? (Part #8)

[Parts: First | Prev | Next | Last | All] [Links: To-K | From-K | From-Kx]

The metaphor offered by Rubik's Cube was used by Heiner Benking to develop a "Rubik's Cube of Ecology" in 1990 (as part of the Global Change touring exhibition) as a means of explaining the nature of integration and of developing a framework for co-ordination and harmonisation across various fields, areas, regions, disciplines and domains (*Visual Access Strategies for Multi-Dimensional Objects and Issues*, 1993). It was designed to offer a new world view, using a hyperlinked Eco-Cube, for better understanding and communication about multi-disciplines like ecology.

Views of the Eco-Cube

The Eco-Cube is reminiscent of the Ekistics Grid developed by C.A. Doxiadis as a framework for organizing information relevant to ekistics as the science of human settlements. This has been used to further develop ekistic concepts, and also in the application to practical problems. Such a grid display any component within two dimensions at a point of intersection of abscissa and ordinate The abscissa of ekistic units remained constant in all uses of the ekistic grid, and the most usual ordinate consisted of the five ekistic elements: Nature, Anthropos (Man), Society, Shells (dwellings or buildings), and Networks, with a sixth line denoting their Synthesis.

There is also an affinity in such approaches with that of R. Buckminster Fuller in his concern with global use of resources and energy -- reflected to a significant degree in his polyhedral *Dymaxion Map*, its animations and his underlying philosophy, as discussed elsewhere (*Geometry of Thinking for Sustainable Global Governance: cognitive implication of synergetics*, 2009; *Geometry, Topology and Dynamics of Identity: cognitive implication in fundamental strategic questions and dilemmas*, 2009).

It is appropriate to note that *Windows* offers a 2D picture puzzle that resembles Benking's original inspiration from Rubik's Cube (*How to Play with Puzzles in Windows Vista*). Other such picture puzzles are widely available on the web, notably allowing users to substitute their own pictures.

Such initiatives with respect to the environment raise the question as to whether equivalents might be developed with respect to individual health -- and its relationship to any environment through lifestyle diseases. The latter are implicitly of concern in the comprehensive approach to settlement design -- notably as subtly explored by environmental architect Christopher Alexander in his concern with contexts offering qualities where it was "good place to be" (*A Pattern Language*, 1977; *The Timeless Way of Building*, 1979).

GLOBAL LEARN DAY

WELCOME TO EUROPE

KNOW-MAPS FOR KIDS

patterns can be meanings that connect

A Universal Coding System for Disciplines and Phenomena
ICC - Information Coding Classification Library

	Matrix columns	Matrix levels
9	Culture	Distribution and Synthesis)
8	Science & Information	Application and Determination
7	Economic & Technology	Technology and Production
6	Socio	Institutions or Content
5	Human	Persons or Content
4	Bio	Property, Attribute
3	Cosmo & Geo	Activity, Process
2	Energy & Matter	Objects, Components
1	Form & Structure	Theories, Principles
0	Subject Areas	General Form Concepts

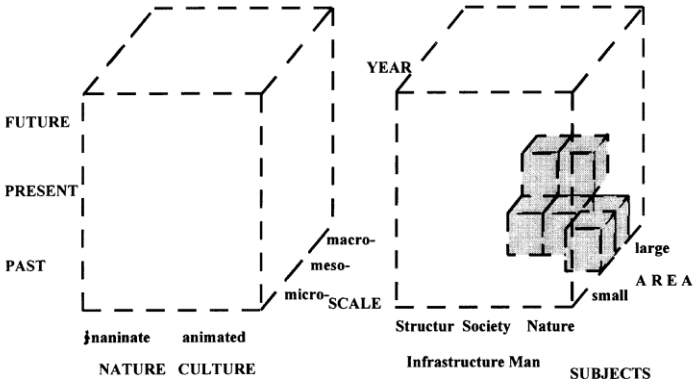
AREA

General Form Concepts	Theories, Principles	Objects, Componensts	Activities, Process	Property, Attribute	Persons, or cont'd	Institutions or cont'd	Technology & Production	Application & Determinant	Distribution & Synthesis
0	1	2	3	4	5	6	7	8	9
Form & Structure [1]		Mathematics [12]		Systemeology [14]		Metrology [16]			
Energy & Matter [2]	Mechanics [21]	Physics of Matter [22]	General & Technical Physics [23]	Electronics [24]	Physical Chemistry [25]	Pure Chemistry [26]	Chemical Technology& Engineering [27]	Energy Science & Technology [28]	Electrical Engineering [29]
Cosmo & Geo [3]	Astronomy & Astrophysics [31]	Astronautics & Space Research [32]	Basis Geosciences [33]	Athmospheric Sciences & Technology [34]	Hydrospheric &Oceanological Sc&Technology [35]	Geological Sciences [36]	Mining [37]	Materials Science & Technology [38]	
Bio [4]	Basic Biological Sciences [41]	Microbiology and Cultivation [42]	Plant Biology & Breeding [43]	Animal Biology & Breeding [44]	Veterenary Sciences [45]	Agriculture & Horticulture [46]	Forestry & Wood Sci. & Technology [47]	Food Science and Technology [48]	Ecology & Environment [49]
Human [5]	Human Biology [51]	Health and Theoretical Medicine [52]	Pathology& Practical Medicine [53]	Clinical Medicine and Cure [54]	Psychology [55]		Prof. Science Labour, Leissure [57]	Sport Science & Sports [58]	Household and Home Life [59]
Socio [6]	Sociology [61]	State and Politics [62]	Public Administratio [63]	Money and Finances [64]	Social Aid Social Politics [65]	Law [66]	Area Planning, Urbanism [67]	Military Sciences & Technology [68]	History Science & History [69]
Economics & Technology [7]	General and National Economics [71]	Business Economics [72]	Technology in general [73]	Mechanical & Precision Engineering [74]	Building [75]	Commodity Science& Technology [76]	Vehicle Science and Technology [77]	Transportation Technology & Services [78]	Utilities and Service Economies [79]
Science & Information [8]			Informatics, computer sciences [83]		Communi-cation Services [85]		Printing and Publishing [87]		Semiotics [89]
Culture [9]	Language and Linguistics [91]	Literature and Philology [92]	Music and Musicology [93]	Fine Arts [94]	Performing Arts [95]		Philosophy [97]	Religion and Secret Teachings [98]	* [99]
General Form Concepts	Theories, Principles	Objects, Componensts	Activities, Process	Property, Attribute	Persons, or cont'd	Institutions or cont'd	Technology & Production	Application & Determinant	Distribution & Synthesis

The ICC is in the MMI Library
a basis for teaching wholeness and connectedness -
what we know and how little we know !

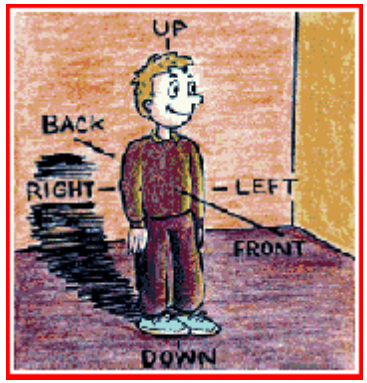
GLOBAL LEARN DAY

WELCOME TO EUROPE



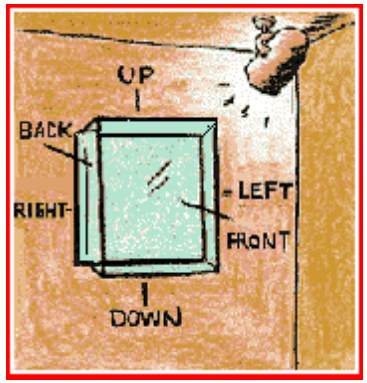
Why not think the thing deep, take space real and serious, enjoy and play in spaces, make spaces places which can help making sense, and ease understanding ?

Sharing & bridging realities



⌘ **real spaces**

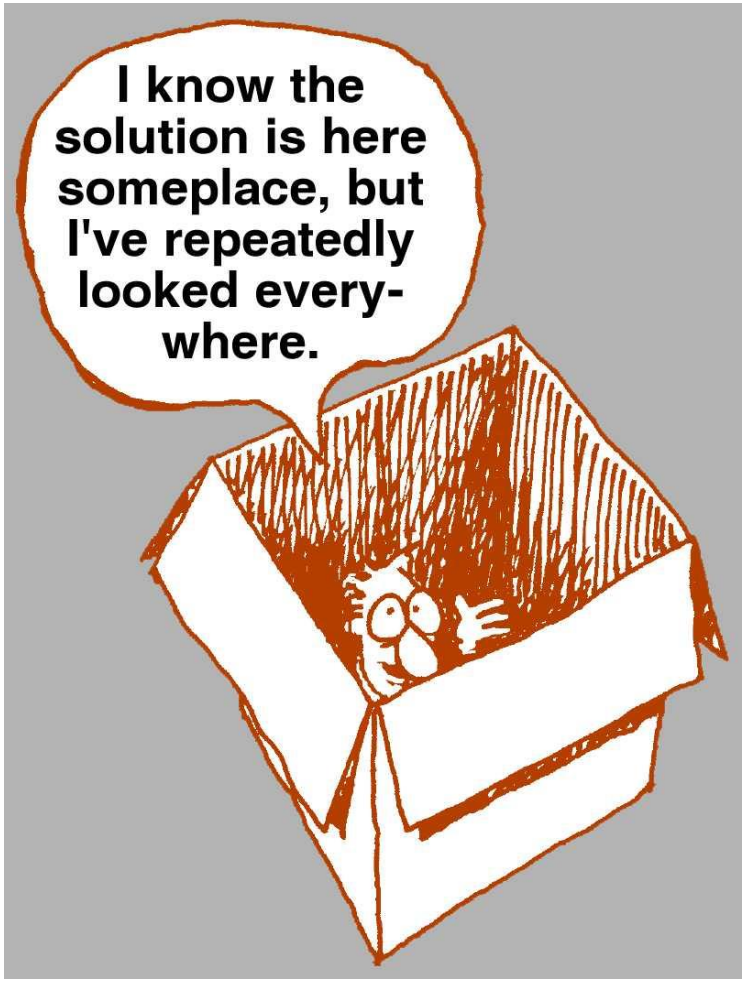
perceptual



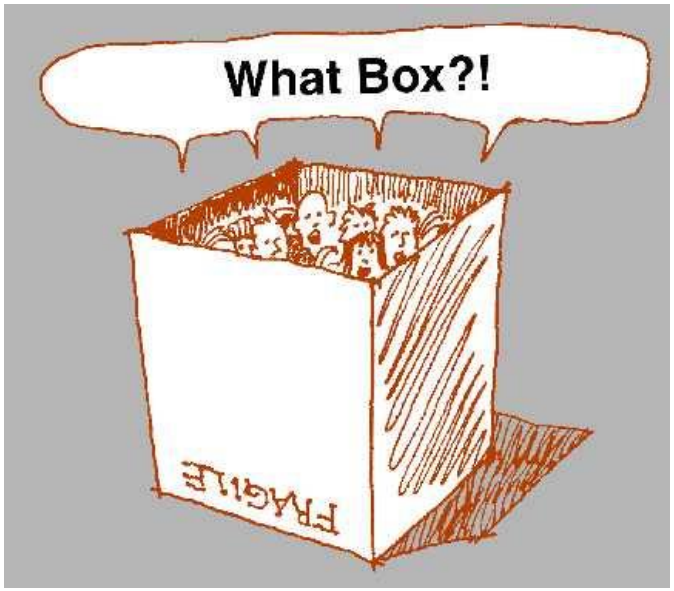
⌘ **concept spaces**

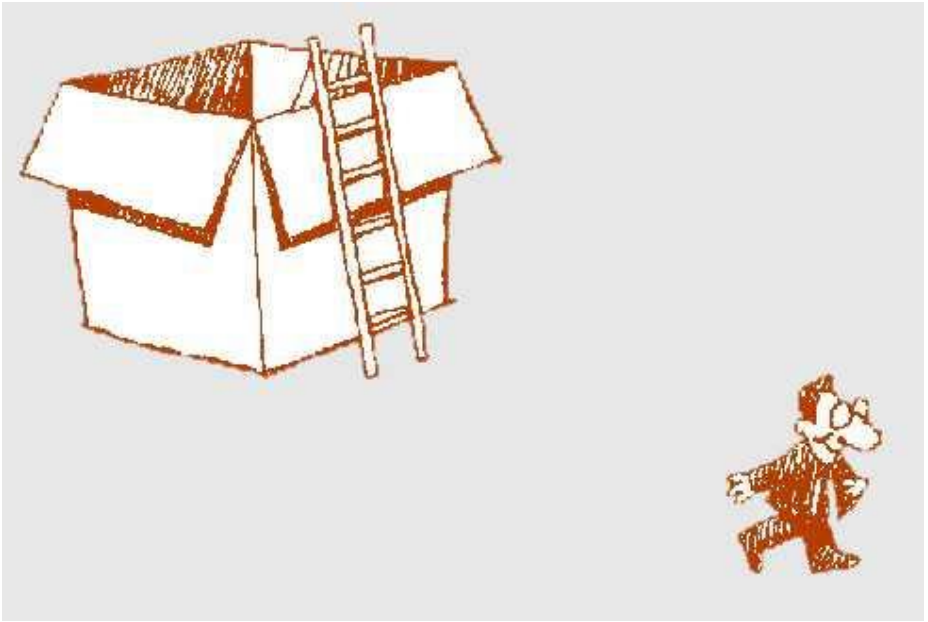
conceptual

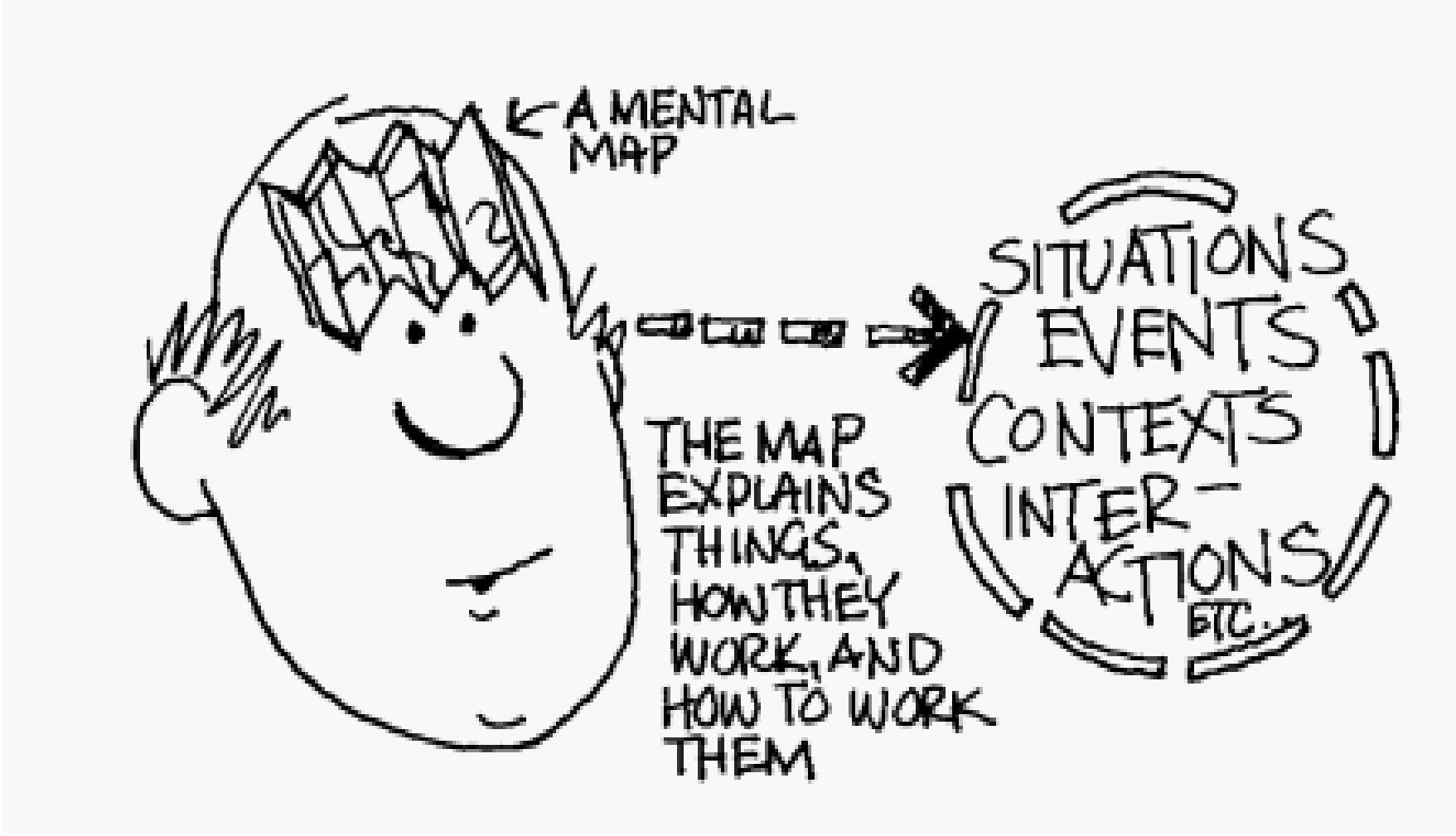
http://www.meta-self.com
http://ceptualinstitute/genre/benking/borderland.htm

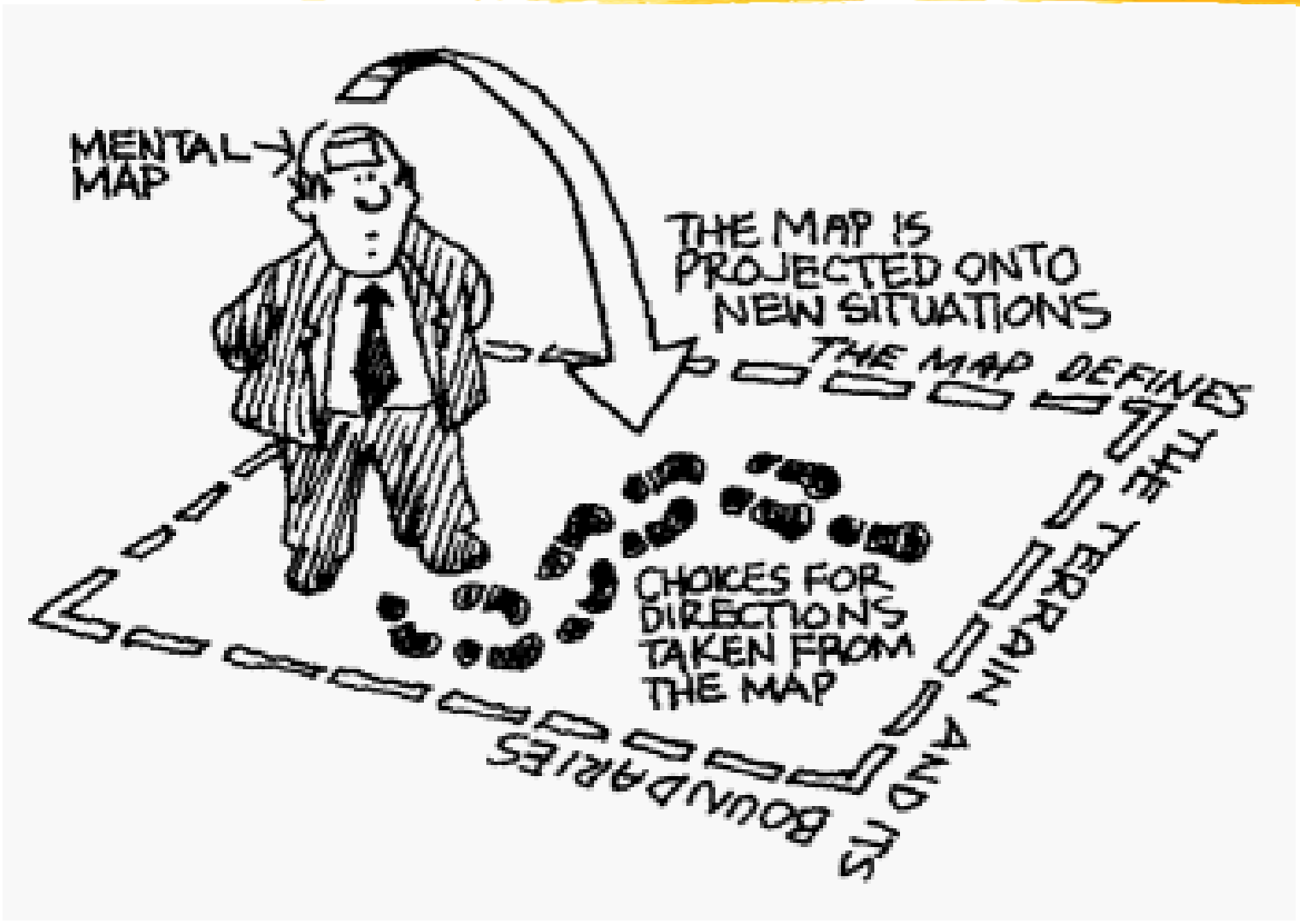

I know the solution is here someplace, but I've repeatedly looked every-where.

We must redouble our efforts and find the answer!
THIS SIDE UP


What Box?!
FRAGILE




A MENTAL MAP
THE MAP EXPLAINS THINGS, HOW THEY WORK, AND HOW TO WORK THEM
SITUATIONS
EVENTS
CONTEXTS
INTER-ACTIONS
ETC.


MENTAL MAP
THE MAP IS PROJECTED ONTO NEW SITUATIONS
THE MAP DEFINES THE TERRAIN AND ITS BOUNDARIES
CHOICES FOR DIRECTIONS TAKEN FROM THE MAP

WILBER HASN'T LOOKED IN HERE
I KNOW THE SOLUTION IS HERE SOMEPLACE!! BUT I'VE LOOKED EVERYWHERE!

WILBER
ME
WILBER'S MENTAL MAP IS SHOWN TO HIM AND THINGS CHANGE
WILBER'S MAP
NEW VIEWPOINT WITH NEW CHOICES
NEW TERRAIN
OLD TERRAIN

Models and „think"-models

Herbert Stachowiak, 1965 - 2004
see next slide

„Man is a model making animal
His outstanding predictive powers
give him selective advantages."

Models of Reality -
Shaping Thougths and Action
Richardson, Marx, and Toth

UNESCO, 1984

Cronenberger Ranger
Frank Baldus, et. al. 2002
und Weltbilder-Welthäuser
Baldus - Benking 2003

Model Thinking & Pragmatics

(developed between 1965 – 2004)

Herbert Stachowiak, * 28. Mai 1921, Berlin

Studium Generale, Springer, 1965

Scientific Thought, UNESCO 1972

Allgemeine Modelltheorie, Springer 1973
General Model Theory

Modelle und Modelldenken im Unterricht
Klinkhardt 1980

Modell und Kunst, 1981

Pragmatics Pragmatik, Vol. I-V
Meiner 1986-96

s.a.: Quergeist

ALEXANDER VON HUMBOLDT
INSTITUT FÜR INTERNET
UND GESELLSCHAFT

Google Mail - BARCAMP pr | Collaboratory | Seeds of Change - Heiner B

www.newciv.org/nl/newslog.php/_v396/__show_day/_w2010-12-30

BOOKS « Design Dia... | Google Mail - Invitat... | New Tab | ear

Seeds of Change - Heiner Benking's Blog - quergeist.info

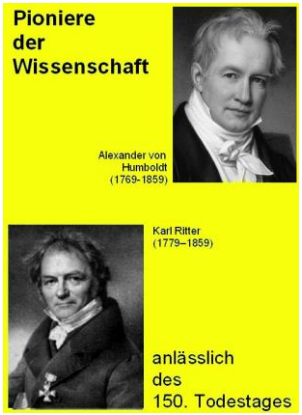
Thursday, December 30, 2010

WORLD KNOWLEDGE II & The Learned Berlin (200 & 300 years ago) and now ?

See also WORLD KNOWLEDGE I above: [link]
desperate ! - We have celebrated in Berlin for the whole year "WeltWissen" - World Knowledge - but it looks like we have missed a person who is in the center of the picture of the "Learned Berlin" - Das gelehrte Berlin. His name? CARL RITTER CARL RITTER - [link] - he even had his 150 years celebration of his passing away, when even the kings coach was acompanying him to his grave. I know, difficult times, but you might know some of the names on the picture around him: Alexander v.H. and his brother Wilhelm von Humboldt, Hegel, Schleiermacher, Hufeland, Neander. [link]
You will not be surprised to find von Humboldt and Hegel, and might know the others, but who the heck is in the center ?? and how come he is not centerpiece in this years celebration when he had similar reputation and was over decades teaching at the Humbold University, the war academy and academy of sciences?

300 JAHRE WISSENSCHAFTEN WELT IN BERLIN WISSEN

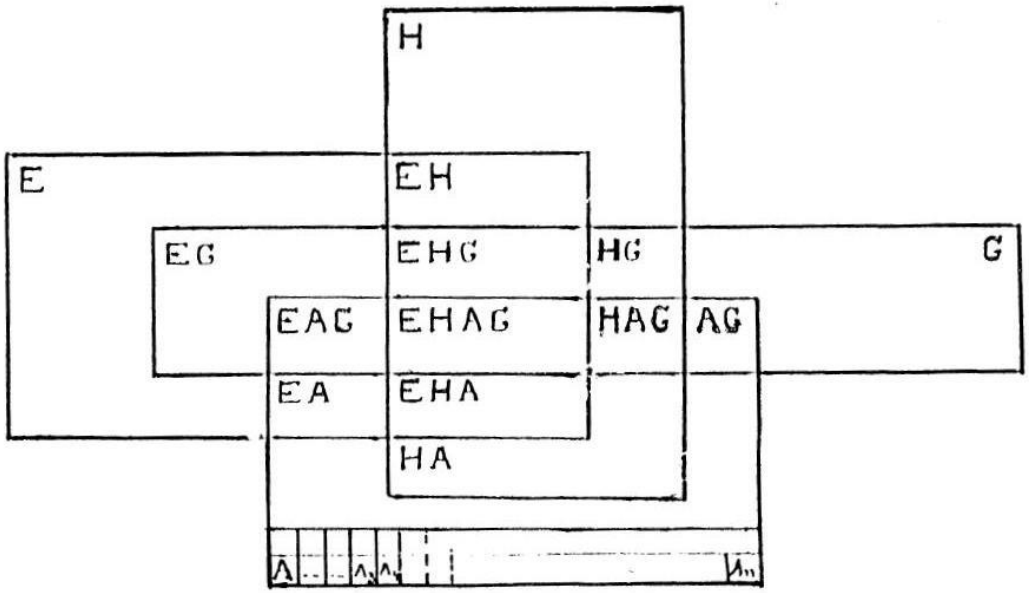
[Thu 30 Dec 2010 | 0 comments | PermaLink] **More >**



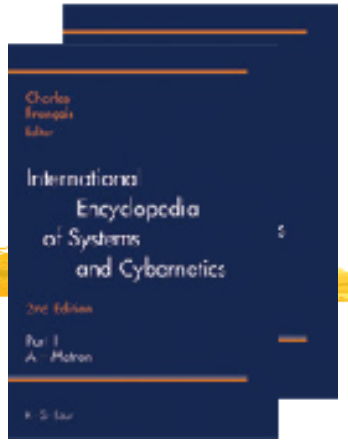
DE 08:37

A COGNITIVE SPACE

A general diagram of mankinds's place in the global ecosystem
using a VENN diagram subdivided as proposed by E. EDWARDS (1989)



A: Atmosphere, G: Geosphere H: Hydrosphere E: Energy



International Encyclopedia of Systems and Cybernetics

0479
COGNITIVE PANORAMA
1) - 2)

0484
COGNITIVE SPACES 1)
0999 ECO-CUBE/
KNOW MAP 1) - 2) - 3)

The intersections represent specific fields of inquiry. EH is for example hydrodynamics. Any subset can be subdivided according to more particular necessity ($A \ldots A_1, A_2 \ldots A_n$) Mankind and smaller human groups interact with any environmental subset. EHAG represents the most global dynamic and integrated ecosystem. Different and much more complex representations are possible as for example DOXIADIS' ekistics or BENKING's eco-cube.

ISCE Institute for the Study of Coherence and Emergence

COGNITIVE PANORAMA

0479

COGNITIVE PANORAMA 1)2)

A conceptual superstructure that defines and identifies topics as logical places, displays relations and connections within these topics or issues"

This concept has been introduced by H. BENKING. The following comments are Benking's explanations, plucked from a series of papers and lectures (see bibliography)

"The cognitive panorama is a metaparadigm to counteract cyberculture's anticipated impact due to its: 1)open-ended universality, 2) loss of meaning`3) loss of context"

It is now obvious that we risk drowning in an ocean of incoherent data which could lead us to total conceptual anarchy.

According to Benking, the proposed cognitive panorama "allows us to embody and map concepts in their context and develop common frames of reference"

Such a conceptual superstructure " helps us to locate and become aware of: 1) what we know or miss, 2) where we are and what we think, 3) where we miss, underuse or manipulate information. By avoiding a "flat"chaotic mess of data which leads to the known "lost-in space" syndrome, we actually define cognitive spaces.

Through reflection on conceptual positions, outlining and embodying situations or topics (logical places or containers) we can follow meaning into embodied context and semantic spaces, and also scrutinize abstract "realities" by exploring participatory and collaboratory approaches.

→ Conceptual navigation; Convertilibilty of meanings; Ecocube; Harmonization; Knowledge map; Underconceptualization

1) general information

2) methodology or model

http://benking.de/systems/encyclopedia/newterms/#_Toc87362165

KEY CONCEPTS:

- Cognition
- Concept
- Knowledge
- Ontology
- Philosophy of language
- Semantics
- Thought
- Truth

RECOMMENDED BOOKS:

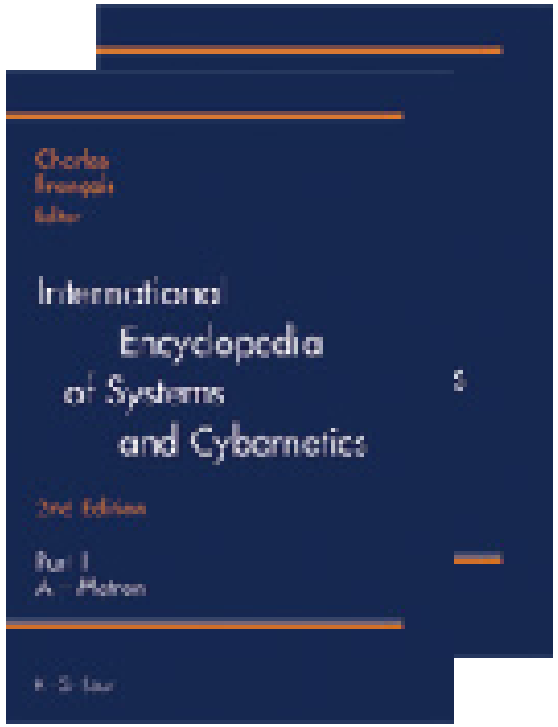
- Concepts
- Context And Content
- Modern Philosophy Of Language

WEB RESEARCH:

- Feed Concepts to Google
- Feed Tag Cloud to Google

according allows anticipated approaches avoiding aware **benking** bibliography chaotic **cognitive** collaboratory common **concept** **conceptual** **context** **data** **define** due **embody** explanations exploring **follow** frames incoherent knowledge **lead** **logical** **loss** lost-in **map** **meaning** mess **miss** obvious **panorama** **places** plucked positions reflection relations scrutinize semantic series **spaces** **superstructure** syndrome think **topics** underconceptualization underuse

Concepts extracted by AlchemyAPI



ISCE Institute for the Study of Coherence and Emergence

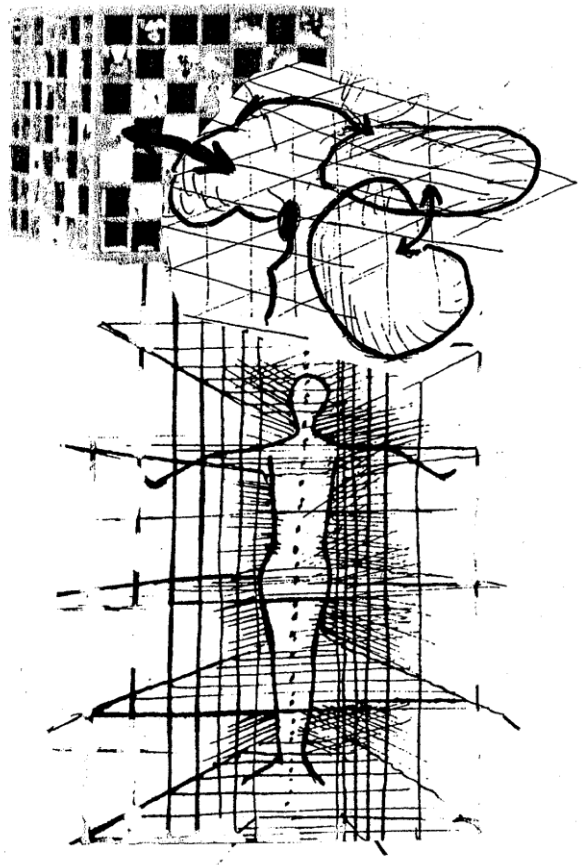
COGNITIVE SPACES | COGNITIVE PANORAMA

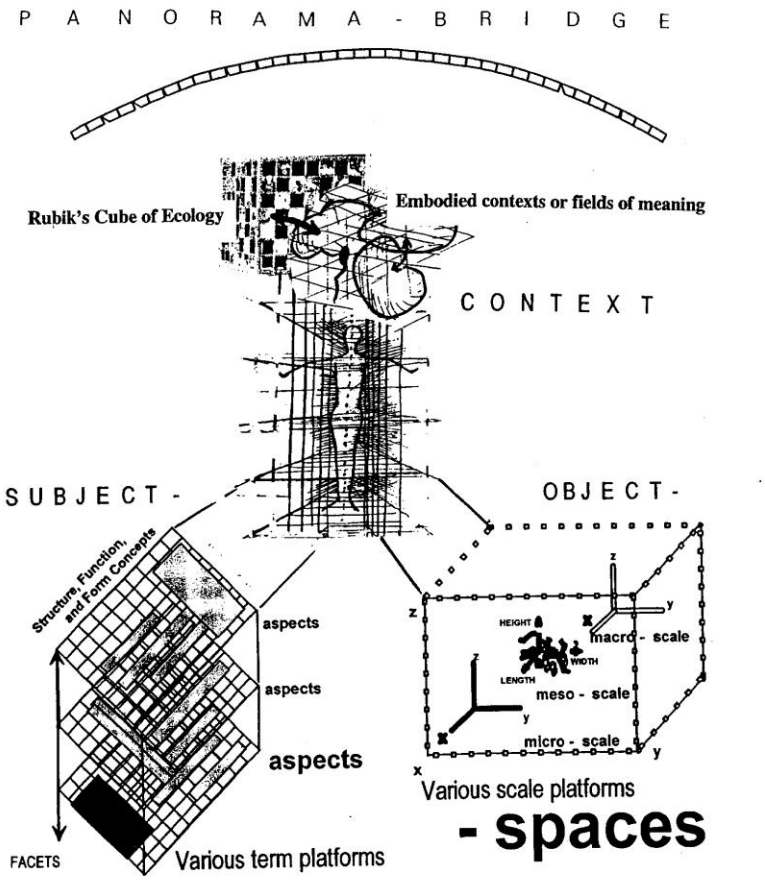
http://systemspedia.org/entry.aspx?entry=0484

0484

COGNITIVE SPACES 1)

Global Sharing and Coping
Connecting Worlds, Scales, Media, & Forms/Structures





CODATA Task Group on Multimedia, Data, and Information

edia

o we go from here ?

International CODATA Symposium on Multimedia in Science and Technology - MIST 2005 - European Academy, Berlin, Germany September 19-20, 2005

International ICSU-CODATA Symposium Berlin, ICSU - International Council of Scientific Unions, CODATA- Committee on Data for Science and Technology

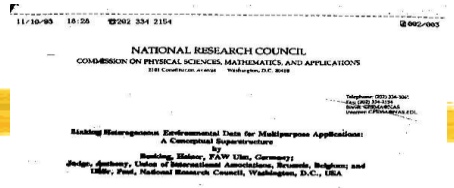
Using Maps and Models, SuperSigns and SuperStructures

Heiner Benking

LINKING HETEROGENOUS ENVIRONMENTAL DATA FOR MULTIPURPOSE APPLICATIONS:

A CONCEPTUAL SUPERSTRUCTURE

by
Benking, Heiner, FAW Ulm, Germany
Judge, Anthony J.N., Union of International Associations, Brussels, Belgium; and
Uhlir, Paul, National Research Council, Washington, D.C., USA


11/10/93 16:28 ☎202 334 2154 002/005

NATIONAL RESEARCH COUNCIL
COMMISSION ON PHYSICAL SCIENCES, MATHEMATICS, AND APPLICATIONS

Linking Heterogeneous Environmental Data for Multipurpose Applications:
A Conceptual Superstructure
by
Benking, Heiner, FAW Ulm, Germany
Judge, Anthony, Union of International Associations, Brussels, Belgium; and
Uhlir, Paul, National Research Council, Washington, D.C., USA

I. **A:** STATEMENT OF THE PROBLEM AND RATIONALE FOR PAPER/CONCEPT

1. Increasing complexity of multidimensional problems and resulting need to integrate diverse data and information sources in resolving problems must be: a) disciplinary (all disciplines), b. Intersectorial (gov., industry, academia, public), c) international (even for local or national problems there are usually some international dimensions)

2. Proliferation of databases and digital information at all these levels make finding, understanding, and using all of the relevant information extremely difficult, if not impossible,

3. Numerous barriers to effective integration exist a) Examples...

4. Imperative to Overcome these barriers

B: STATEMENT OF THE SOLUTION **C:** ORGANIZATION

II. DESCRIPTION OF CONCEPT

A Conceptual Superstructure or Scaffolding ....
Other Attempts/Models
Potential Applications, Examples, Why not worked/have been insufficient
Why this is different

III. POTENTIAL APPLICATIONS, In research, Policymaking, Business Planning, Education,...
Examples, Summary, E: Summary of broad applicability

IV. IMPLEMENTATION OF THE CONCEPT, A:, B:

V. CONCLUSION AND RECOMMENDED ACTIONS

Section titles of the original research proposal from 1993

Inter-sectoral Strategic Dilemmas of Sustainable Development

Configuring strategic dilemmas in intersectoral dialogue

⬅ | ➡

See commentary and significance of 2-domain dilemma codes (Fig. 1b) used in the table below, as well as use of 3-domain codes in its icosidodecahedral representation (Fig. 3A and 3B). These are all parts of a separate report (*Configuring Globally and Contending Locally: shaping the global network of local bargains by decoding and mapping Earth Summit inter-sectoral issues*, 1992, 5 mb PDF). For other tables on strategies see: confidence ploys; value-based; typology for sustainable development; Chinese strategems

Fig. 1a: Inter-sectoral Strategic Dilemmas of Sustainable Development

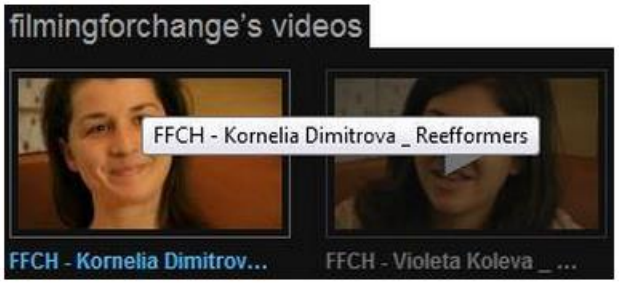
Privileged function *Constrained function*	Population Security P	Well-being Health W	Learning Education L	Production Trade T	Environment Impacts E	Regulation Equity R	UN Bodies	Sectors
Population/Relief *Security/Peace* *Vulnerable groups* *Women/Youth* *P*	Sacrifice of one population group for another? **PP**	Sacrifice of population relief/growth for well- being of population? **WP**	Sacrifice of population relief/growth for ducation, research, etc? **LP**	Sacrifice of population relief/growth for economic growth? **TP**	Sacrifice of population relief/growth for environment? **EP**	Sacrifice of population relief/growth for equity? **RP**	UNFPA, UNV Security CI UNICEF, UNHCR INSTRAW	Relief Military,Peace Indigenous Women,Youth
Well-being/Health *Employment (condit.)* *Quality of life* *Welfare/Fulfilment* *W*	Sacrifice of well-being (+jobs) for population relief/growth? **PW**	Sacrifice of one form of well-being for another? **WW**	Sacrifice of well-being (+jobs) for education, research? **LW**	Sacrifice of well-being (+jobs) for economic growth? **TW**	Sacrifice of well-being (+jobs) for environment? **EW**	Sacrifice of well-being (+jobs) for equity? **RW**	WHO ILO HABITAT,UNRISD	Health Labour Religions
Learning/Education *Science/Research* *Culture/Arts/Lang.* *Inform./Communic.* *L*	Sacrifice of education (+culture) for population relief/growth? **PL**	Sacrifice of education (+culture) for well-being? **WL**	Sacrifice of one form of education for another? **LL**	Sacrifice of education (+culture) for economic growth? **TL**	Sacrifice of education (+culture) for environment? **EL**	Sacrifice of education (+culture) for equity? **RL**	UNESCO, WIPO UNU, UNITAR UPU,ITU,ACCIS	Students Science Media/Information
Production/Trade *Industry/Technology* *Agriculture/Fish.* *Energy/Mining* *T*	Sacrifice of production (+trade) for population relief/growth? **PT**	Sacrifice ofproduction (+trade) for well-being? **WT**	Sacrifice of production (+trade) for education, research? **LT**	Sacrifice of one form of production for another? **TT**	Sacrifice of production (+trade) for environment? **ET**	Sacrifice of production (+trade) for equity? **RT**	UNDP, UNCTAD UNIDO,GATT FAO,WFP,IFAD IAEA	Development Industry/ Commerce
Environment/Impact *Ecosystems/Species* *Urban. / Transport* *Design/Landscaping* *E*	Sacrifice of environment for population relief/growth? **PE**	Sacrifice of environment for well- being? **WE**	Sacrifice of environment for education, research? **LE**	Sacrifice of environment for economic growth? **TE**	Sacrifice of one environmental benefit for another? **EE**	Sacrifice of environment for equity? **RE**	UNEP, UNESCO HABITAT, WMO ICAO, IMO	Environment Conservation Architects
Regulation/Equity Govern./Mgt. */Admin. Justice/Order* *Finance/Debt Mgt.* *R*	Sacrifice of equity for population relief/growth? **PR**	Sacrifice of equity for well-being? **WR**	Sacrifice of equity for education, research, etc? **LR**	Sacrifice of equity for economic growth? **TR**	Sacrifice of equity for environment? **ER**	Sacrifice of one form of equity for another? **RR**	ECOSOC, ACC UNDP ICJ	NGO coalit. Law, Rights Finance/Banks

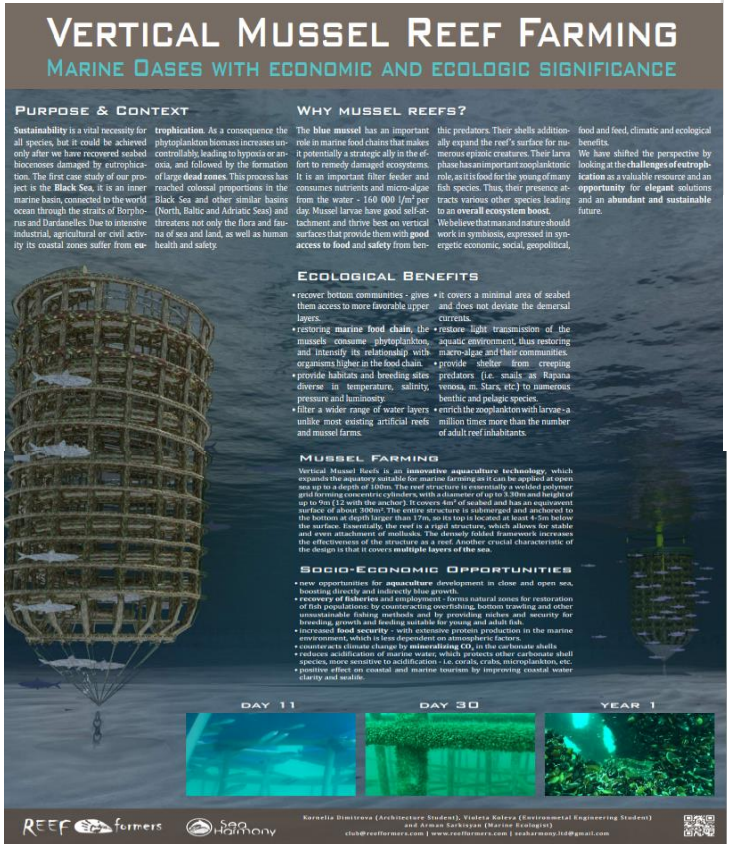
OCEAN SUSTAINABILITY SCIENCE SYMPOSIUM

4 Mar 2015 @ 15:37

The Symposium in Kiel is a gathering of scientists and practitioners concerned with sustainable ocean development. 150 participants from 24 countries and with a wide array of backgrounds, unique in variety in such a broad "subject area" - See SIGs vs, GIGs in the "side bar". Early career scientists and established experts from a broad range of disciplines, policy, academia, administrations, ... exchange their views on: Ocean sustainability, ocean

REEF formers





Terra preta, Biochar, terra BoGa, Expo Milano 2015

FIELDS OF IDEAS
GERMAN PAVILION EXPO MILANO 2015

EXPO 2015
MILANO 2015
FEEDING THE PLANET
ENERGY FOR LIFE

terra BoGa

23 Jun 2015 @ 10:17

Terra preta, Biochar, terra BoGa, Expo Milano 2015 [link] terraBoga [link]

Workshop: Biokohle im Gartenbau - Verwertung von organischen Reststoffen zur Schließung von Energie- und Stoffkreisläufen sorry all in German !!

I am a little concerned and sadened in view of how little was achieved in 5 years, and in view of what I witnesses when planners and architect were trying to change how towns were build and ho to do regional planning, but developers and consultants where blocking 40 years ago. Central critical directions where not pursued: building structures, sewer-systems, water systems, infrastructures and transportation systems.

KnowMap
Vol. 1, No. 5, August 2001

Spacial versus Spatial:

Part I - Setting Common Frames of Reference

Part II - Spacial Knowledge Maps and Knowledge Models

Part III- Panoramic Thinking and End of This Journey

Heiner Benking

http://newciv.org/cob/members/benking/knowmap.html

KnowMap
Vol. 1, No. 5, August 2001

Charting the Known and Slaying the Unknown Dragons
KnowMap
The Knowledge Management, Auditing and Mapping Magazine

People feel fine with icons (images) and symbols, but when Peirce in his sign theory introduced something *in-between* what he called *index* they are somehow destabilized and frightened - not able to believe in the *either - or* world of words or metaphoric pictures.

Just for the exercise we want to test Peirce's *index* here by considering his third category a spacial map or model. This would create room for communication and sensations when linking and merging of realities and bridge the *media breaks*. This *in-betweening* is further explored in …

from chapter: Profound Ignorance and In-Between

Spacial versus Spatial – Part III :

Panoramic Thinking and End of This Journey

Heiner Benking: **Alte und Neue Räume, Ordnungen und Modelle für Orientierungen und Vereinbarungen**

UNESCO Conference: The Unifying Aspects of Cultures, Vienna 2003

From Cusanus and Peirce, to Warburg ...
and further down the road less travelled

ADD SYNTAX; SEMANTIC; PRAGMATIK

„Models" N. v. Kues (Cusanus)	„Signs" C.S. Peirce	Library „levels" A. Warburg	„Cognitive Panorama" work in progress
ANALOGON	INDEX	ORIENTATION	CONTEXTS
SYMBOLON	SYMBOL	WORDS	SUBJECTS
ICON	ICON	IMAGE	OBJECTS
	ACTION		Systematic, communicative ETHICS & PRAGMATICS

Jonas / Stachowiak

Intervention from the floor and interview after the event by/with Heiner Benking at:

Breaking Down New Walls

10th Annual Summit of Nobel Peace Laureates, Berlin, November, 9-11 2009

Interview, Panel-Discussion, ….

Whoever imagines mental
deep permeable barriers

which actually do not exist
and then thinks them away,
has understood the world.

As space is entrapped
in geometry's network of lines,
thought is caught in its (own) inherent laws.

Maps make the world comprehensible to us;
we are still waiting for
the star-maps of the spirit.
In the same way than ambling through fields
we risk getting lost,
the spirit negotiates its terrain.

Friedrich Rückert,
Wisdom of the Brahmins, a didactic poem,
Charles T. Brooks in 1882 – above is unfortunately only a clumbsy first translation by Robinson/Benking
as we could only get hold of the original German version.

Friedrich Rückert
Die Weisheit des Brahmanen,
ein Lehrgedicht in Bruchstücken
Werke, Band 2, Leipzig und Wien [1897], S. 50-51.

this is a critical translation issue:
WALLS & BOUNDARIES are „man-made" – They have no equivalent in Nature. The term Schranken therefore can be translated as restraining bounds, or semiphors, barriers & temporary permeable or translucent / transparent material/strata/membranes/transition zones).

EWOC 04, Toronto, October 2004
SYSTEMS ENCYCLOPEDIA

Interdisciplinary Conferences & Electronic Working Groups on:
The Evolution of World Order

Vol. 22, no. 1
(October 2004)

Official Newsletter of the
International Federation of Systems Research

SECOND EDITION
OF THE INTERNATIONAL ENCYCLOPEDIA
OF SYSTEMS AND CYBERNETICS

Charles François (editor), **KG Saur Verlag-Thomson, München, 2004**
Updated and augmented in more than 740 pages, **1700** articles, some of them with figures, tables and diagrams, and **1500** bibliographical references.

Humboldt-Universität zu Berlin – BBK

Berliner Bibliothekswissenschaftliches Kolloquiums

25. Mai 2004

16:00 Uhr Rundgespräch im Cum Laude

Encyclopedias & Atlases in Libraries Future Aspects

in regard to systematic neo-pragmatic thinking along and across representations, systems, concepts, and models

18:00 Uhr Vortrag in der Saur Bibliothek

Systemics as a general integrated language of concepts and models

Charles François

Founder and Editor of the International Encyclopedia of Systems and Cybernetics

Heiner Benking

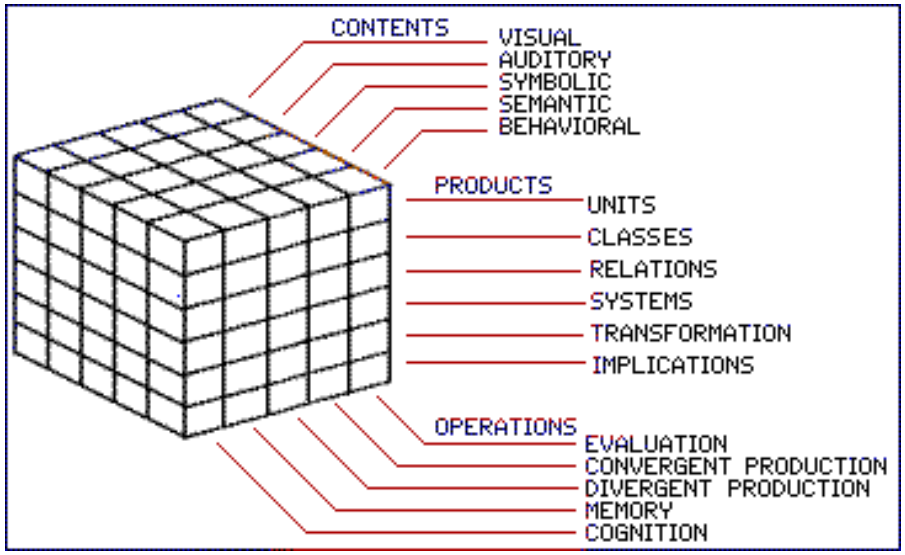
Independent Facilitator and Futurist

Member of the Academic Advisory Board of the Encyclopaedia of Systems and Cybernetics

Konrad Lorenz Institute for Evolution and Cognition Research

Altenberg Workshops 1996/97 30. January 1997, Austria,

Worldview Compositions and Cognitive Spaces - a necessary evolutionary step



Guilford, J. P., The Nature of Human Intelligence, New York: McGraw Hill, 1967. Structure of Intellect. [175] Cf. the work of Heiner Benking. To be publihed in **9. Augmented knowledge** in the book by Kim Veltman: **Augmented Books, Knowledge, and Culture**

http://www.isoc.org/inet2000/cdproceedings/6d/6d_1.htm

These quests to master new knowledge owe much to systems theory, "chaos theory" (a seemingly contradictory combination of terms), complexity, [77] and developments in neural networks, whereby systematic treatments of apparently random forms bring unexpected patterns of order.

What makes these trends the more significant is that thinkers concerned with the systematization of intellect, such as Guilford, have intuitively sought to link units, classes, relations, systems, etc. with products and operations (figure 12).

Cf. the work of Heiner Benking. Maybe visit this text in progress...

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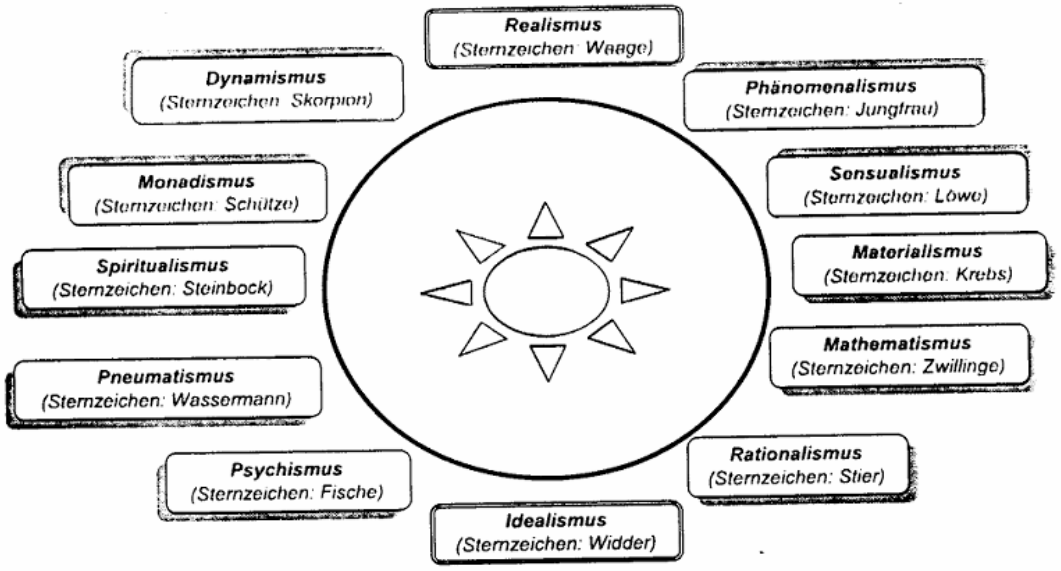
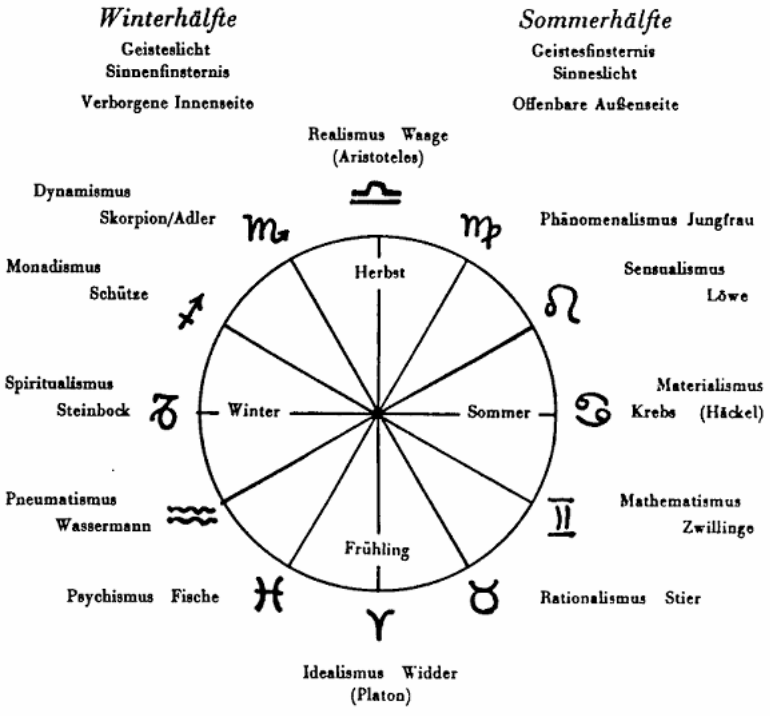
5) Disorientation and dumbing-down in Cyberculture and a mis-administered and misunderstood, intangible "Globalisation / Glocalisation": Where we get overloaded by communication noise (sign/symbol melange) and media demagogy which means: no trust and fidelity in the statements and no ways and means to check the credibility and impact/relevance, and get lost between the scales, brackets, and sectors.
6) The above incompatibility and incomparability opens the door for over-claims and oversimplifications. Leaders use intangible jargon (plastic-words), neglect impacts and avoid instead of exploring differences and alternatives.

UN – ECOSOC- AMR 2008: http://www.quergeist.net/AMR-2008/
http://www.un.org/ecosoc/newfunct/Responses_in_Full-Part_I.pdf


Realismus
(Sternzeichen: Waage)
Dynamismus
(Sternzeichen: Skorpion)
Phänomenalismus
(Sternzeichen: Jungfrau)
Monadismus
(Sternzeichen: Schütze)
Sensualismus
(Sternzeichen: Löwe)
Spiritualismus
(Sternzeichen: Steinbock)
Materialismus
(Sternzeichen: Krebs)
Mathematismus
(Sternzeichen: Zwillinge)
Pneumatismus
(Sternzeichen: Wassermann)
Rationalismus
(Sternzeichen: Stier)
Psychismus
(Sternzeichen: Fische)
Idealismus
(Sternzeichen: Widder)

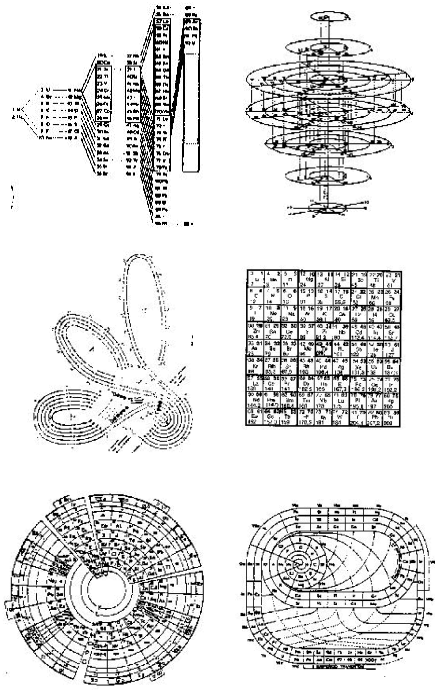

Winterhälfte
Geisteslicht
Sinnenfinsternis
Verborgene Innenseite
Sommerhälfte
Geistesfinsternis
Sinneslicht
Offenbare Außenseite
Realismus Waage
(Aristoteles)
Dynamismus
Skorpion/Adler
Phänomenalismus Jungfrau
Monadismus
Schütze
Sensualismus
Löwe
Herbst
Spiritualismus
Steinbock
Winter
Sommer
Materialismus
Krebs (Häckel)
Pneumatismus
Wassermann
Mathematismus
Zwillinge
Frühling
Psychismus Fische
Rationalismus Stier
Idealismus Widder
(Platon)

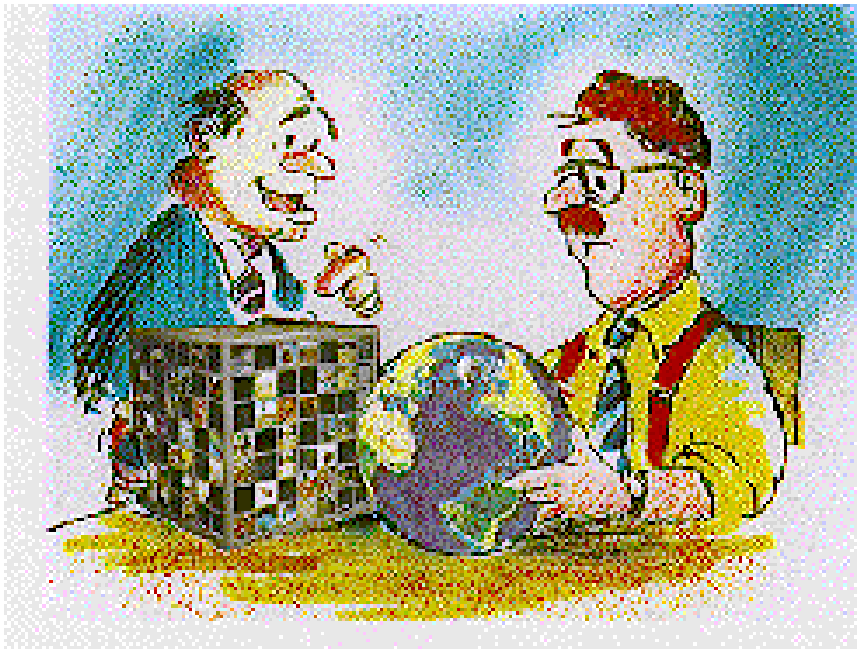
“Science is build up with facts as a house is with stones. But a collection of facts is no more science as a heap of stones is house”

Henri Poincare (1854-1912)

GLOBAL LEARN DAY

WELCOME TO EUROPE



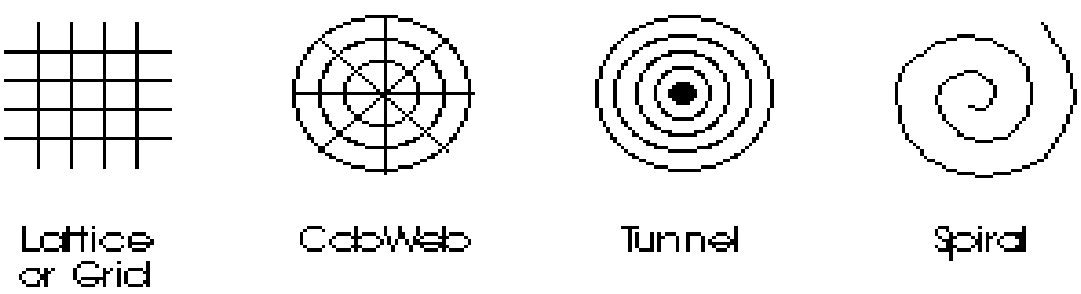


Alternative presentations of the periodic table or layout of chemical elements

A Battle of Perspectives ?

Global Sharing and Coping

Transformation of Representation



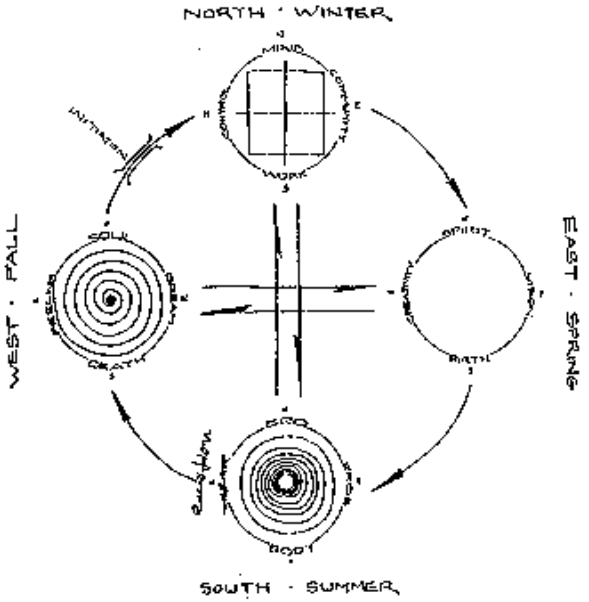
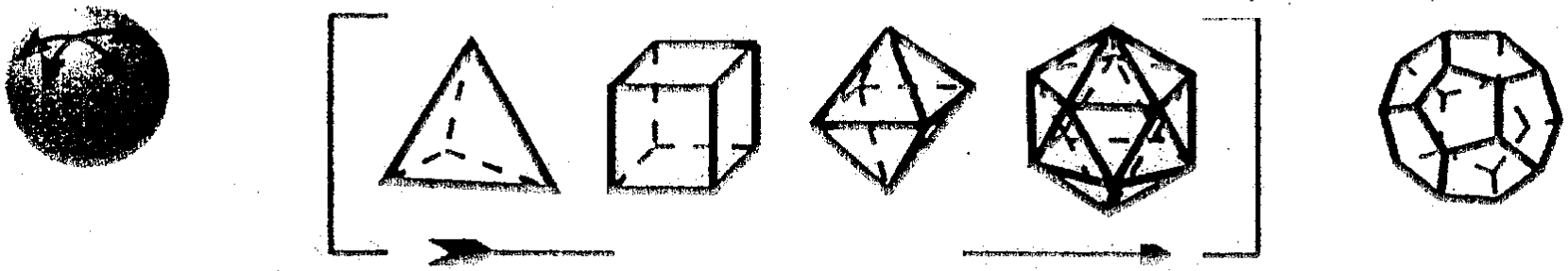


Fig. 6: Form constants as mapped by the cartographer of consciousness, in Brian Horst OMNI Sept. 1980

Vision Quest - The Four Shields, for all see:
http://www.ceptualinstitute.com/genre/benking/landscape.htm



The both sides of Wholeness and the Way in-between. Fig. 147. Die Weltformel der Unsterblichkeit, Vom Sinn der zahl - die Einheit der Natur, Michael Stelzner

GLOBAL LEARN DAY

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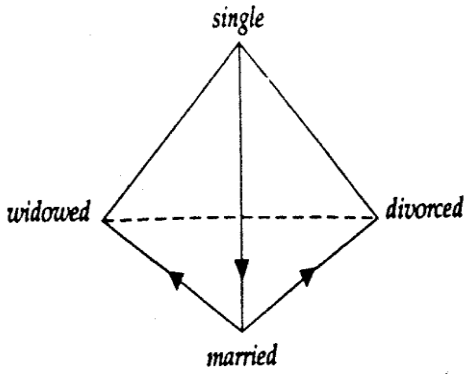
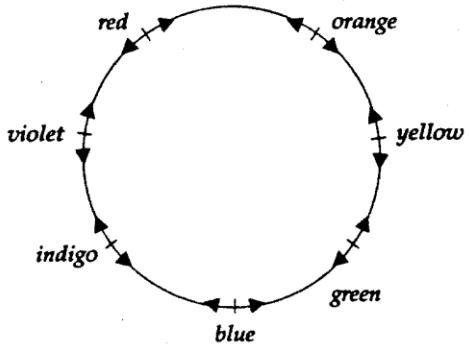
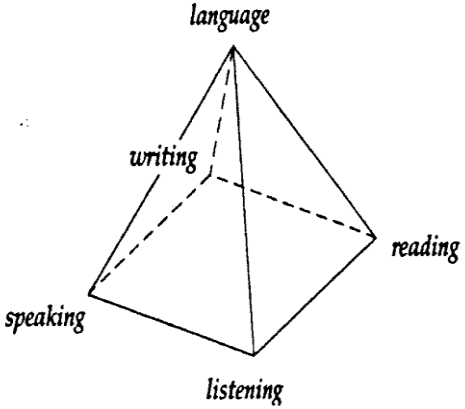
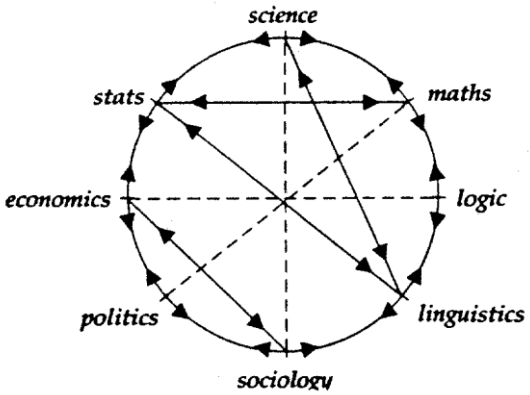
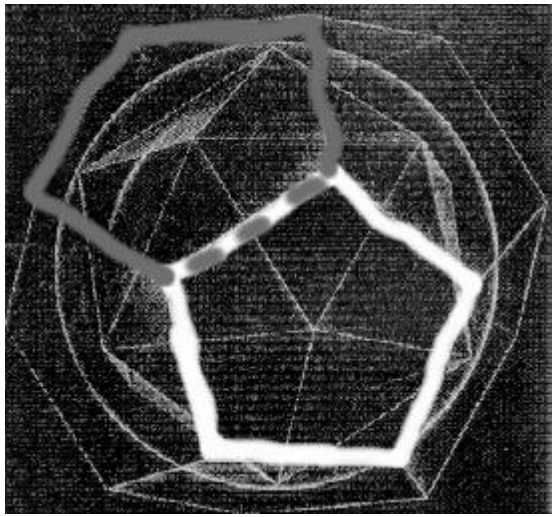








Words in Space (Wolf)
Relations, Issues, Proportions,
Consequences in space
(Judge/Benking)
and how we buit it



Basic classes of simulated reality and their proponents

Reality	**Nature, Man Made World**
Virtual Reality	**Sutherland, Furness**
Augmented Reality	**Feiner, Stricker**
Augmented Virtuality	**Gelernter, Ishii**
Double Augmented Reality	**Mankoff**
Blended Reality	**Turner; Benking**
Merged and Morphed Realities	**Judge, Benking,**

Check:

Spat (c) ial metaphors Benking/Judge, Composite Cognitive Panorama or Panopticum, and AVI 1998, Veltman/Benking http://benking.de/ceptualinstitute/visualization.htm

Gestaltungs – Competences

UNESCO - Education for Sustainable Development

1.

2.

3.

4.

5.

1. To create knowledge in a spirit of openness to the world, integrating new perspectives
2. To think and act in a forward looking manner
3. To acquire knowledge and act in an interdisciplinary manner
4. To be able to plan and act in cooperation with others
5. To be able to participate in decision-making processes
6. To be able to motivate others to become active
7. To be able to reflect upon one's own principles and those of others
8. To be able to plan and act autonomously
9. To be able to show empathy for and solidarity with the disadvantaged
10. To be able to motivate oneself to become active

6.

7.

8.

9.

10.

GLOBAL LEARN DAY

LET‘s TRY TO LEARN AND EXPERIENCE MORE,

LET‘s GO BEYOND

WALLS AND MODELS

Searching for alternatives for knowing, presenting, representing, and sharing?

Plan „B“ has a flaw

Why not go for PLAN „D“?

(overview & overclaims)

The European CEC „white paper“ Towards a Learning Society started with Condorcet asking us to experience and even try new ways. The Club of Rome Report quotes the children with „get real or get lost“. Children workshops showed in 1993 that they picked the proposed concepts up very naturally and easily, they wrote as a headline „our View of Life is too Flat“. All cultures request to make words solid and use a living, embodied language with analogies and metaphors.

We recommend these links to show that „big pictures“ and „other models“ are possible and the work-reports and material on education including „10 Theses for Education“ from Turku, WFSF 1993 GERMAN „big pictures“ have been also asked here 9 years later „THINK GLOBAL - but how? And can be also found here: CAFE WELTGEIST

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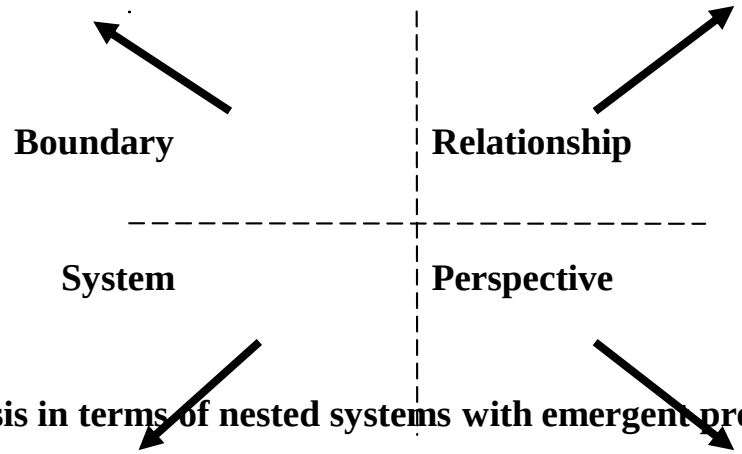
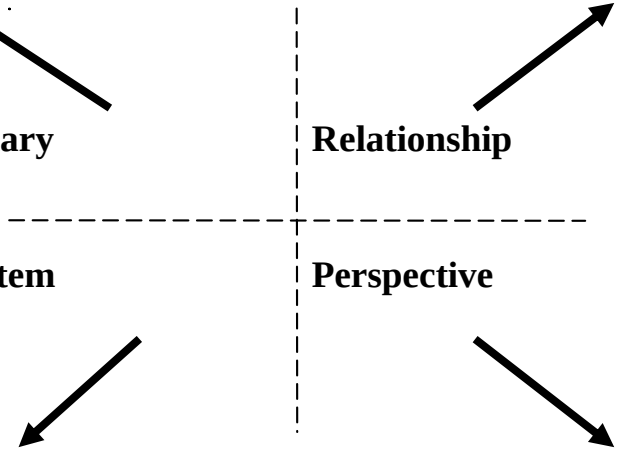
Emphases of Different Systems Approaches



Examples of the alignment of Existing Systems Th

- **Boundary Critique**
- **Critical Systems Heuristics**

- **System Dynamics**
- **Vanguard Method**



- **Viable System Diagnosis**
- **General System Evaluation**

- **Soft Systems Methodology**
- **Structured Dialogic Design**