Multimedia
Where do 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

Please note:

This is only the POWERPOINT section with reference to

SuperSigns and SuperStructures

(after a short introduction and orientation section)

The other part of the CODATA - MIST 2005 presentation with the focus on:

Maps and Models

was taken from the CODATA – ISGI 2005
which took also place in BERLIN the week before. Pls. see next slide.

Please note also:

The collection of overheads without audio is not very helpful. Pls. Come later to find the full „multi-media" presentation on the web. The following slides might help only for a first impression and as a reference to follow the links.

Maybe see the abstract for the relevance for the future of multi-media and the CODATA MIST 2005 recommendations from all Participants (chief editor Nahum Gershon).

International Symposium on the Generalization of Information

International ICSU-CODATA Symposium Berlin, **Sept 14-16, 2005**
ICSU - International Council of Scientific **Unions**
CODATA- Committee on Data for Science and Technology
in cooperation with International Cartographic Association ICA and the Physikalisch-Technische Bundesanstalt, Berlin, PTB.

Granularity, Topicality, and Generalizatio

Reflections about maps and models, orienting generalizations and their possible pragmatic and ethical implications and challenges

Heiner Benking

MAPs & MODELs

& Vizualisation

SuperSigns & SuperStructures

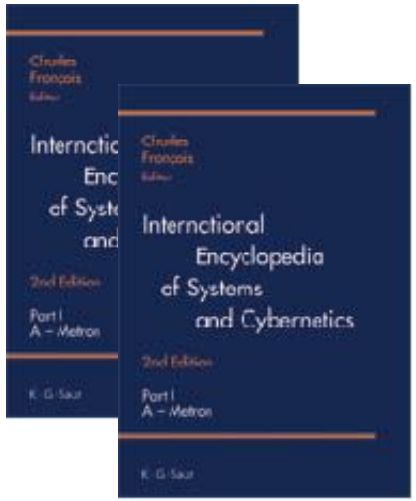
SUPER-STRUCTURE

In some of the next slides we see a proposal from 1993 with Paul Uhlir, CODATA, USA and others to show how long we are already trying to establish "common frames of references" across scales to locate and relate data and information, and also „signs" in (next slides), coded – or non coded data.
The proposals for a conceptual superstructure were done for example for the RIO 1992 process, see summary and outlook on behalf of NOEL BROWN, UNEP-RONA
Or the ICSU CODATA 1992 in Beijing „Bridges and a Masterplan" and 1994 in CHAMBERY with special focus on spacial space-scapes 3 and multi-dimensional. Title: A Conceptual Superstructure of Knowledge
The author has developed models, schemas or grids to locate and combine knowledge since the late eigthies, (see also the CODATA- ISGI later in this presentation), see KnowMap series,
And note the we called it around Knowledge Organisation (ISKO 2002) and work around Ecological Integrity and the EARTH CHARTA in 2003 a "Global Covenant". The Encyclopedia of Systems and Cybernetics (Charles François) helped me establish some definitions for what will be presented in the next slides.

EWOC 04, Toronto, October 2004
SYSTEMS ENCYCLOPEDIA

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

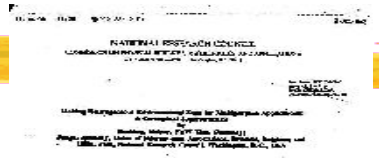
Independent Facilitator and Futurist

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

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



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

Extract of chapters of original research proposal/ concept from 1993

SUPER-SIGN

I strongly recommend to visit:

Harley, J.B. (1932-1991)/ Woodward, David (1942-): - The history of cartography vol.1; cartography in prehistoric, ancient, and medieavl Europe and the Mediterranean (1987) [University of Chicago press; Chicago/London;
http://imaginarymuseum.org/MHV/PZImhv/
Wood, Dennis (1992), The Power of Maps, Guilford Press, 1992
Oliver, A., *MA in Fine Art at Cardiff School of Art.*
http://www.annao.pwp.blueyonder.co.uk/text_patterson.htm

Denis Wood has stated first that maps are Supersigns and Anna Oliver has in her MA so aptly summarized that extract a few lines from her work „Maps as Signs and Codes“ here for this presentation to support this thinking and these terms when thinking about the futures of MULTI-MEDIA:

Maps as Signs and Codes

Denis Wood, in his book The Power of Maps, describes maps thus: 'Maps are about relationships. The map is a highly complex supersign, a sign composed of lesser signs, or more accurately a **synthesis of signs**; and these are supersigns in their own right, systems of signs of more specific or individual function…..the map image as a whole is the supersign, and the various systems it resolves to are its constituent signs, sings that can only have meaning in relation to other signs.' In this case, the myth (according to Barthes) is **signified by the whole, the supersign**.

Wood (1992, p108) describes how a map is a conglomeration of codes. He defines a code as that which assigns the signifier to the signified, in so doing creating a sign. So in order to understand a map, we must be able to understand the codes which make up the map.

CODE:

'an interpretive framework, a set on conventions or rules, which permits the equivalence of expression and content. A code legislates how something may be construed as signifying, as representing something else . In this respect signs are encoded in formation and decoded in interpretation; and it is only through the mediation of a code that signification is possible. ' 3

Wood defines two types of codes: intrasignificant and extrasignificant. Intrasignificant codes are indigenous to the map. They can be iconic, linguistic, tectonic, temporal and presentational. (Wood, 1992, p117)

Extrasignificant codes operate 'outside' the map itself, and can be thematic, topic, historical, rhetorical, and utilitarian. (see maps and myths above)

'The map is simultaneously an instrument of communication - intrasignifcation - and an instrument of persuasion - extrasignification and its propensity toward myth.'

Conclusion

As Denis Wood said, 'maps are about relationships'.
'The map is simultaneously an instrument of communication - intrasignifcation - and an instrument of persuasion - extrasignification and its propensity toward myth.' (p141)
The London Underground Map was revolutionary in its day in the way it jettisoned superfluous information used on the maps of the day and focussed completely on the important relationships in the map: that is, between the lines, the stations and the river. The information given is pared down to the absolute essential, the resultant design is elegant in its minimalism, and affects the way Londoners and others perceive the geography of London.
With Patterson's "The Great Bear" the opposite is true: the navigation information is removed and instead replaced with more complex, less comprehensible layers of information, from names to lines to the title. It pretends to offer ...the opportunity to travel the famous names of history and popular culture, passing a succession of comedians on the way to a philosopher.' The piece of work becomes, however, a
'metaphor for the "connectedness" of things, …..suggest[s] new relationships between them, parallel readings, other ways of configuring the data which govern our lives.'

The Myths of Maps

Barthes describes myth as a mode of signification (not a concept, or an idea, or an object), but one on a more complex level than a 'simple' sign. A myth occurs when a signifier (in this instance ink on a page) comes together with a signified (the concept of the London Underground network) to make a sign, that is, the London Underground Map, and the sign then goes on to act once again as a signifier, in this case the idea of an easy to use transport network, also an easily navigable city. It is this last part which is the myth, in other words a second order signification, an idea that there is another layer of meaning to the sign, frequently an ideology.
However there is new information. The myth could be seen as the idea that it is possible to construct a map of cultural figureheads, that there might be an easy way to systemise such an unruly concept.

Maps and Allegory

'Allegory is the extrinsic union, or the conventional and arbitrary juxtaposition of two spiritual facts - whereby it is posited that this image must represent that concept.' - 'In allegorical structure, one text is read through another, however fragmentary, intermittent, or chaotic their relationship may be, the paradigm for the allegorical work is thus the palimpsest." To use the term 'allegory' to describe all presentations of one thing by another, would be to render the term so unspecific as to be useless. The London Underground map can be seen however as an allegory, of other maps, in that the information from geographically correct maps taken and changed into coloured lines, circles and text of the map. However the Patterson map lends itself much more to being designated 'allegorical' - the layers of information/ implication being so much more complex.

Craig Owens also associates appropriation with allegory: 'Allegorical imagery is appropriated imagery; the allegorist does not invent images but confiscates them. He lays claim to the culturally significant…in his hands the image becomes something other. He does not restore a original meaning that may have been lost or obscured, …rather he adds another meaning to the image.'

Maps and Death of the Author - needs discussion !!

One of the characteristics of postmodernist work is that of the 'death of the author', or the fall from importance of the author / artist, to be replaced by the importance of the reader.
Wolff describes how a piece of work is no longer seen as a unique creation, created in isolation by the author, rather it is a manifestation of the coming together of social structures and a reflection of / result of current ideologies, beliefs and values. She describes this as '…the personal mediation of a group consciousness'. (Wolff, 1981, p119)

'A text is made up of multiple writings, drawn from many cultures, and entering into mutual relations of dialogue, parody….a texts unity lies not in its origin but in it's destination, the birth of the reader must be at the cost of the death of the author'. A map is already an object in which the presence of the artist / author is frequently minimised, many maps aiming to give the impression that they are less a personal point of view than an accurate interpretation of 'fact'. Many maps are nowadays put together by many people, with information fed into computer software which generates the final images. Curiously though, maps have the same copyright status as works of art.

Bibliography

Barthes, Roland (1977) The Death of the Author, quoted in Wolff, Janet, The Social Production of Art, Wolff (1981) p117
British Council Website, http://www.britishcouncil.org/singapore/arts/mcdet14.htm
Croce, Benedetto (1913), Guide to Aesthetics, quoted in Art In Theory 1900-1990, Charles Harrison and Paul Wood, 1992, published by Blackwell Publishers, p112
Harley, J.B. (1932-1991)/ Woodward, David (1942-): - The history of cartography vol.1; cartography in prehistoric, ancient, and medieavl Europe and the Mediterranean (1987) [University of Chicago press; Chicago/London; http://imaginarymuseum.org/MHV/PZImhv/
Oliver, A., *MA in Fine Art at Cardiff School of Art.* http://www.annao.pwp.blueyonder.co.uk/text_patterson.htm
Orth, E. W.: Was ist und was heißt Kultur? Dimensionen der Kultur und Medialität der menschlichen Orientierung, Königshauser & Neumann, Würzburg, 2000 – see also: „Der Blaue Reiter"
Wood, Dennis (1992), The Power of Maps, Guilford Press

Bibliography:

Cassirer
Barthes, Roland (1977)
Croce, Benedetto (1913)
Deleuze
Harley, J.B. (1932-1991)
Hussers
James
Jonas, H.
Merleau-Ponty
Oliver, A.
Orth, E. W.
Peirce, C.S.
Plessner, H.
Ritter, C.
Stachowiak, H. 81923-2004)
Wood, Dennis (1992)

more details to be added - listing to be extended !!

KnowMap
Vol. 1, No. 5, August 2001

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

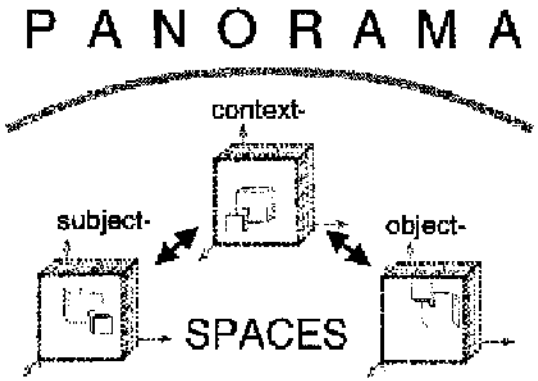
„Models" N. v. Kues (Cusanus)	„Signs" C.S. Peirce	Library „levels" A. Warburg	„Cognitive Panorama" H. Benking See: SYSTEMS entries
ANALOGON	INDEX	ORIENTATION	CONTEXTS
SYMBOLON	SYMBOL	WORDS	SUBJECTS
ICON	ICON	IMAGES	OBJECTS
		ACTIONS	Systematic, communicative ETHICS & PRAGMATICS See: Jonas / Stachowiak

3 Steps Towards an „Orienting Generalisation“

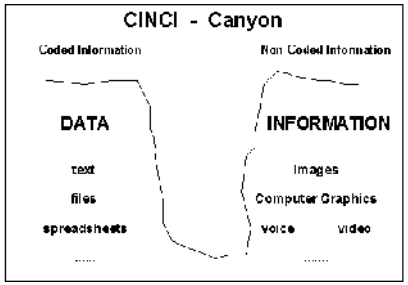
1. since 1988 **Cognitive Panorama**

2. since 1988, respectively 1992 **Sign- & Mediaintegration**

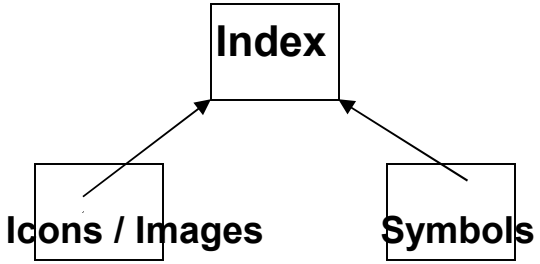
3. since 1990 resp. 1997 **Orientation Generalization**



Has been developed since 1988 as a TOPOGRAM with a „Blackbox“ Index-Space, 1992 „Masterplan CODATA and 1995 Conceptual Superstructure ICSU CODATA ISSS Systems Sciences & Club of Budapest 1994-1996 Council of Europe „meta-paradigm“ 1996 Knowmap Synopsis 2001 since 1999 „Switching Systems“



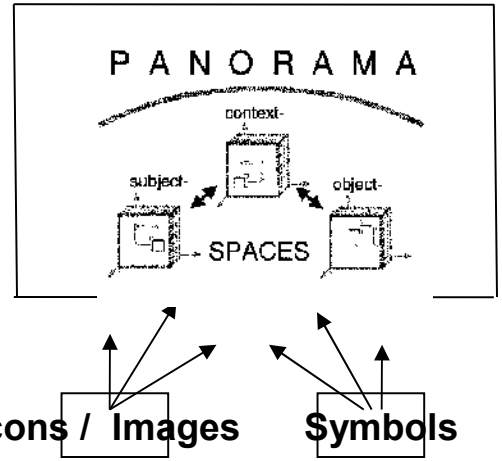
See Fig. 1 in Bridges and a Masterplan, ICSU-CODATA 1992 from ONLINE `92



The three sign systems (C.S. Peirce) set in relation to each other (Knowmap 2001) and combined with Abby Warburg`s Layers in 3.

Action (Warburg) and Ethics (Jonas) demand, as prerequisite, for an expanded framework of cohesion and relation for media, cultures, worlds...

The Panorama as an Index-Space:

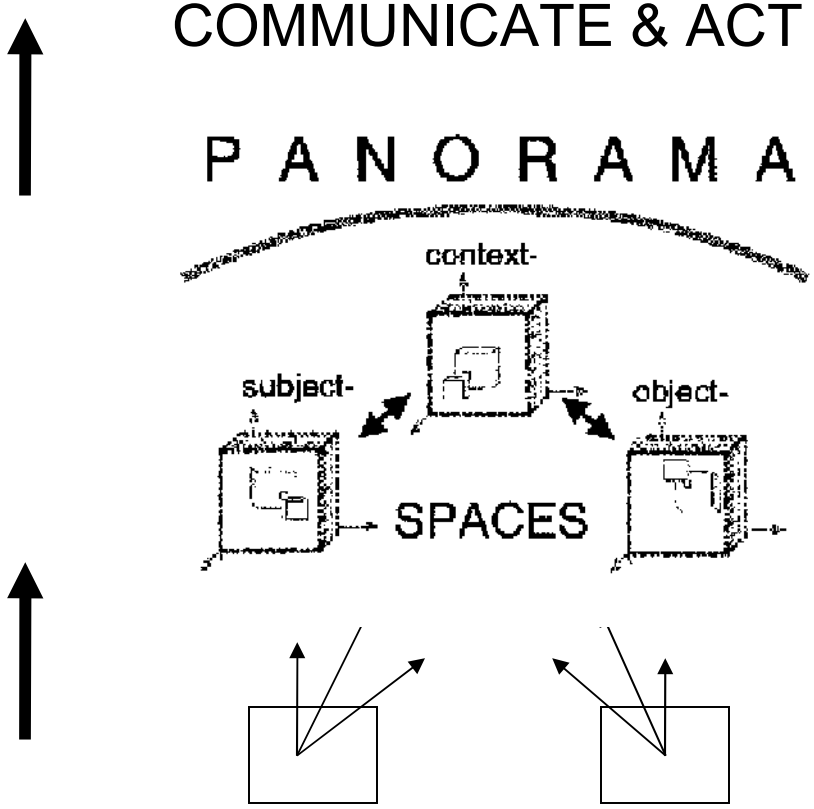


For more see a list of publications relating to the „subjects“ humanities and cultures, systems, education, media-integration, technology, computer graphics, orientation, library-sciences, cybernetics, environmental research management (1981-2004).

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

UNESCO Conference: The Unifying Aspects of Cultures, Vienna 2003

REALIZE & PONDER &
COMMUNICATE & ACT



Icons / Bilder Symbols / Symbole

NeoPragmatics &
Ethics & Action

Embodied visual (Schau-Logik) Models for orienting generalisations (Grob-Orientierung)

Signs, maps, schemas and/or Models !

Kim H. Veltman

Learning and Communication with Old and New Media

UNESCO Conference: The Unifying Aspects of Culture, Vienna 2003

Topics of Kim Veltman covered in the last years include:

Media as Extensions of Man - World Views, Theories of Space, Vision and Representation - Five Changes in the 20th Century - Relation and Scale - Intangible and Tangible Culture - Texts as Integrators of Culture - Rediscovery of Meta-Narratives - Local-Regional-National-International-Global - Language as Unique - Challenge of Different Levels of Distance - Cultural Activities as an Integrating Path

more.... from TUAC Session: Media as Extensions of Man, World Views, Theories of Space, Vision and Representation, Five Changes in the 20th Century, Relation and Scale, Intangible and Tangible Culture, Texts as Integrators of Culture, Rediscovery of Meta-Narratives, Local-Regional-National-International-Global, Language as Unique, Challenge of Different Levels of Distance, Cultural Activities as an Integrating Path, see also ******

Kim H. Veltman: **Learning and Communication with Old and New Media**

10. Cultural actitvities - Figure 1.

Six goals and nine means as ingredients for a new model of culture

CULTURAL GOALS	TECHNOLOGY	MEANS
1.Connecting	**Pre-literacy**	1. Thinking, Mental Sense Making Mythology Religion Philosophy
2. Ordering		2. Doing, Physical Sense Making Building Making
		3. Expressing Literature Art Mathematics
3. Imitating	**Literacy**	3 Representing
4. Matching	**Print**	4. Expressing Directly via Written
5. Mixing		5 Translating Media
6. Exploring		6. Transforming Media
	New Media	7. Publishing with Tolerance
		8. Sharing
		9. Helping

Please note:

After section on SuperSigns and SuperStructures
(after a short introduction and orientation section)

The following slides are part on Maps and Models
was taken from the CODATA – ISGI 2005
which took also place in BERLIN the week before.
Pls. see the next slide.

International Symposium on the Generalization of Information

International ICSU-CODATA Symposium Berlin, Sept 14-16, 2005
ICSU - International Council of Scientific Unions
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Granularity, Topicality, and Generalization of Information

Reflections about maps and models, orienting generalizations and their possible pragmatic and ethical implications and challenges

Heiner Benking

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,**

see: spatial metaphors **&** User Interface design

see: Composite Cognitive Panorama or Panopticum

http://www.ceptualinstitute.com/genre/benking/visual/visualization.htm **extend with and** from Veltman 98

Model Thinking & Pragmatics

Herbert Stachowiak 1965 - 2004

Studium Generale, Springer, 1965

Scientific Thought, UNESCO 1972

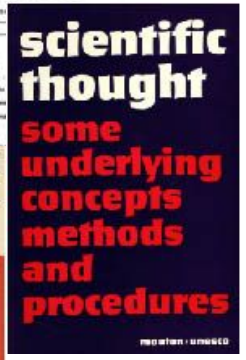
Allgemeine Modelltheorie, Springer 1973
General Model Theory

Modelle und Modelldenken im Unterricht
Klinkhardt 1980

Modell und Kunst, 1981

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

s.a.: Quergeist



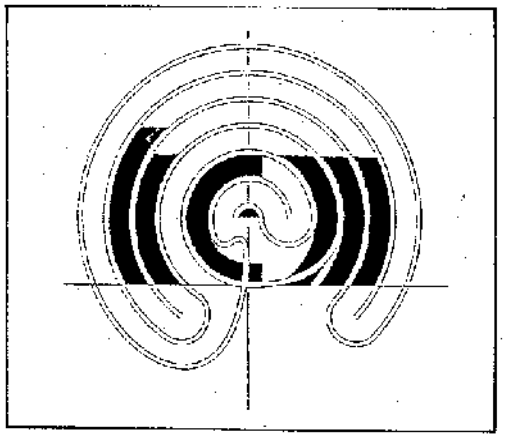
Global Sharing and Coping

Starting Points

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.



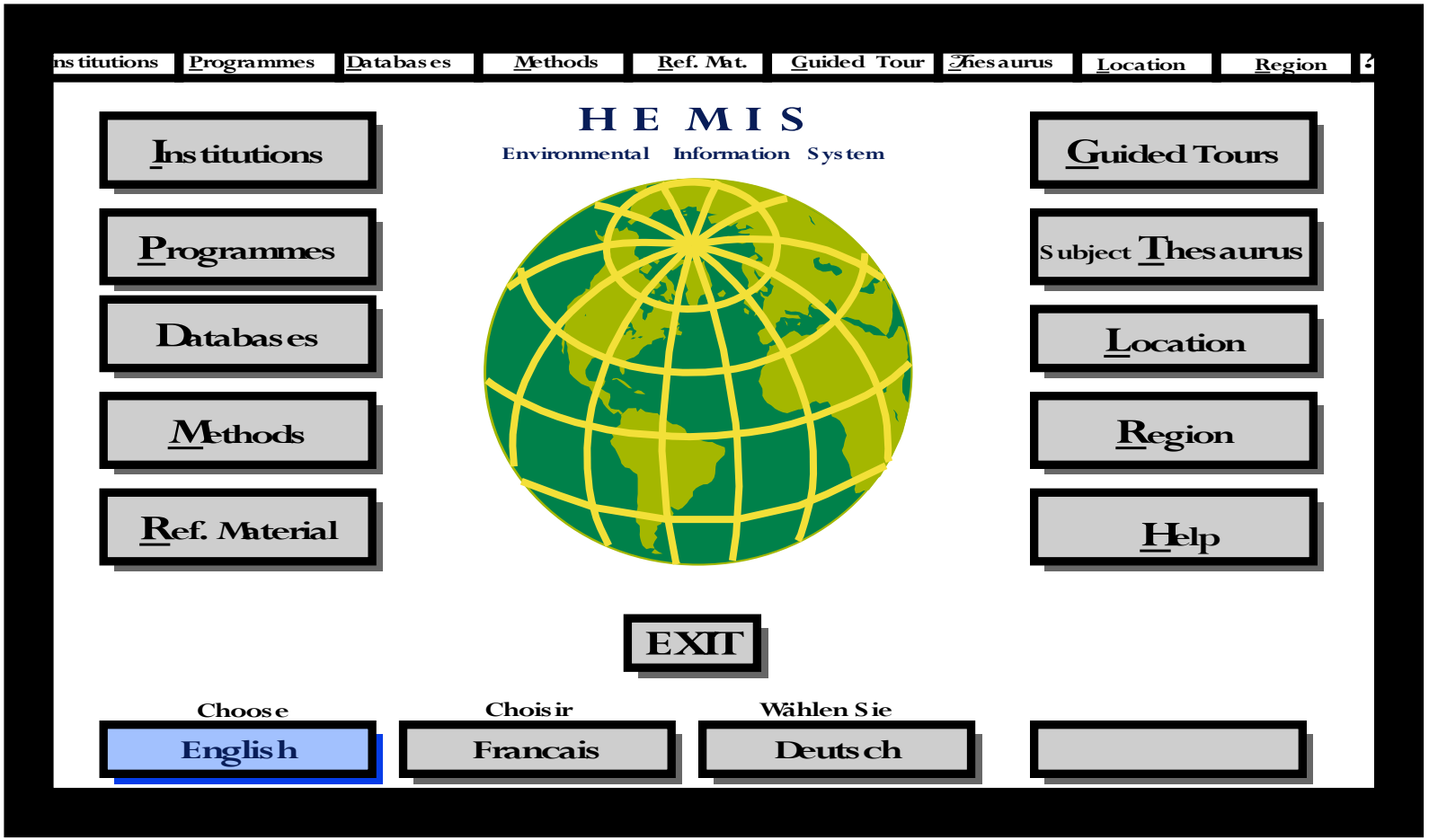
GLOBAL CHANGE

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.

Ptolémée 98

Premier forum des solutions pour développement des musées et expositiones - Journée Access Multimedia

17. - 18. Novembre 1998 - Cité des Sciences et de l'Industrie



GLOBAL LEARN DAY

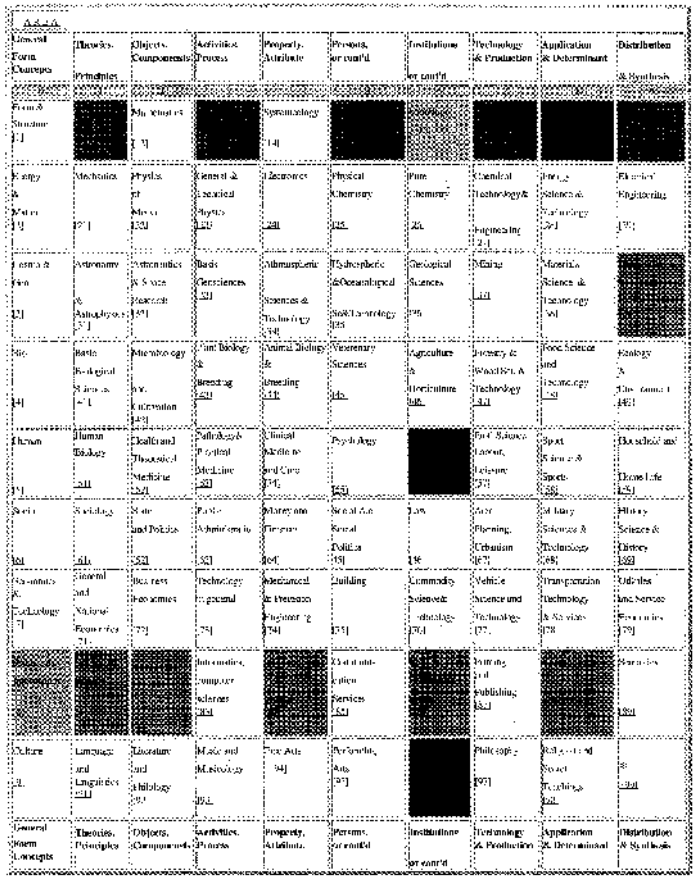
WELCOME TO EUROPE

KNOW-MAPS FOR KIDS

patterns can be meanings that connect

A Universal Ordering System for Disciplines and Phenomena
ICC - Information Coding Classification I. Dahlberg

	Matrix columns	Matrix levels
9	Culture	Distribution and Synthesis)
8	Science & Information	Application and Determination
7	Economic & Technology	Technology and Production
6	Socio	Institution 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



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

Ptolémée 98

Premier forum des solutions pour développement des musées et expositiones

Journée Access Multimedia 17. - 18. Novembre 1998 - Cité des Sciences et de l'Industrie

Scales Qualitative

1. World
2. Continent
3. Country
4. Province
5. City
6. Building
7. Ground-Plan
8. Room
9. Wall
10. Object

Kinds of Maps

1. Climate
2. Cultivation
3. Energy
4. Food
5. Geology
6. Medicine
7. Politics
8. Population
9. Religion
10. Terrain

Kinds of Choices

1. Access
2. Learning
3. Levels
4. Media
5. Quality
6. Quantity
7. Questions
8. Space
9. Time
10.Tools

Why? - Purpose

1. Everyday
2. Emergency
3. Business
4. Education
5. Environment
6. Government
7. Health
8. Legal
9. Leisure
10. Religion

Levels (of Knowledge)

1. Classifications
2. Definitions
3. Explanations
4. Bibliographies
5. Partial Contents
6. Full Contents
7. Internal Analyses
8. External Analyses
9. Restorations
10. Reconstructions

Round-Table:

Ethics

in Knowledge Representation and Organization

Impulse Statement:

What do we need ? Where do we want to go ?

A Linguistic Turn ? , An Iconic Turn ?
Communication Turn, Spatial Turn?,...
or a Pragmatic Spin ?

The construction and ethics of shared frames of references

TAGORE-EINSTEIN COUNCIL

Eighth International Tagore - Einstein Conference
Asian Pacific Weeks in Berlin 15-28. September 2003

Wanted: A Global (Integral) Covenant

Reflections and a work report towards shared frames of references and visions in a big-picture overview „mode“ or „scaffolding“

Heiner Benking
Independent Futurist and Facilitator

please see also:

Ecological Integrity and Earth Charter 2002 presentations

Institut zur Erforschung und Förderung österreichischer und internationaler Literaturprozesse

INST-Conference, 6-8. December 2002
Austria Center, Vienna

Contemporaneousness of the Non-Contemporaneous
Die Gleichzeitigkeit des Ungleichzeitigen

Culture and Civilization:

Comparative Cultural Studies:

Culture, Cultural Policy, and the Media

Homogenisation, Standardisation, Harmonisation, Linguistic-, Iconic-, Spacial-, Integral Turn,...

Where do we go from here in an age of a globalised "Cyberculture"?

Heiner Benking,
Independent Facilitator and Futurist

An Integral Agenda for Coping with Globalisation and Cyberculture

A Report and Reflections and about sharing extra dimensions and modern (communication) technologies

Heiner Benking
Independent Futurist and Facilitator

Global Ecological Integrity, Human Rights, and Human Responsibilities:

Intersections Between International Law and Public Health, 2003, June 27- July 1,

&

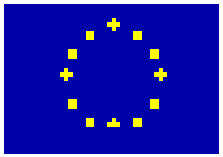
Open Space, The Earth Charter in Action, June 26- 30, Urbino, Italy

These are only 30 (out of 60) powerpoint slides as presented at the:

EARTH CHARTA OPEN - SPACE:

and available during the conference:
Global Ecological Integrity, Human Rights, and Human Responsibilities

After this selection you find 2 „hyperlinked“ slides which were written ad-hoc directly before the session to invite further explorations and digging deeper into areas of interest



Welcome to the Future

CeBIT

European Commission MEDICI Framework

13.- 20. March 2002

Culture Navigation and Reference Rooms: A Futuristic „Out-look"

Questioning the next turn in Culture and „CyberCulture" – What will happen after the „linguistic-" and „iconic turn" ?

Heiner Benking

Independent Facilitator and Futurist

Associate, Millennium Project, Berlin CoLab

EWOC 04, Toronto, October 2004

by Heiner Benking, Berlin
Tagore-Einstein Council, Open-Forum, PNW,...

Towards one possible global embodied Covenant:

Models, - not just Systems, Signs, Words and Images

A work report
towards developing *shared* models
for *broader* and *contextual* understanding and a concert of *orienting* generalizations for helping to *overcome* dualistic traps and include specialist *and* generalistic *cultural* activities.

Heiner Benking
Independent Facilitator and Futurist

ENCOS 2004

1st European Networks Conference on Sustainability in Practice, 1-4 April 2004, Berlin

Windows into and a WorkReport on:

- **E-Learning**
- **International Cooperation**
- **Education for Sustainability**

Heiner Benking
Independent Facilitator and Futurist

TKE '99 Terminology and Knowledge Engineering

Innsbruck, August 23-27 1999

S8: **Culture in the Multimedia Information Society**

Portals, Switching Systems and Reference Schemas

Heiner Benking

http://www.thur.de/philo/Benking/extra_skin.html
http://www.thur.de/philo/Benking/effe_en.html
http://www.geocities.com/~acunu/millennium/resume/res-hb.html

Language Theory for the Computer

Johannes Heinrichs, Heiner Benking

http://benking.de/systematik-9.html
http://www2.hu-berlin.de/soz-oeko/

WISSEN ORGANISATION GESELLSCHAFT

INTERNATIONALER HEINZ VON FOERSTER KONGRESS

In cooperation with:

American Society for Cybernetics (ACS)

2003 Conference Vienna, Austria, Nov. 13-15

Heinz von Foerster und das Biological Computer Laboratory

Future Prospects for Constructivism

Cybernetics – quo vadis ?

Heiner Benking
Independent Facilitator and Futurist

Gemeinsamer Kongress der Leibniz - Sozietä
und der Deutschen Gesellschaft für Kybernet
Berliner November 2003 - Harnack – Haus,
Max - Planck - Gesellschaft zur Förderung der Wissenschaften e. V.

Cybernetic Futures – kybernetische Zukünfte

Heiner Benking
Independent Facilitator and Futurist

International Symposium on the Generalization of Information

International ICSU-CODATA Symposium Berlin, **Sept 14-16, 2005**
ICSU - International Council of Scientific **Unions**
CODATA- Committee on Data for Science and Technology
in cooperation with International Cartographic Association ICA
and the Physikalisch-Technische Bundesanstalt, Berlin, PTB.

Granularity, Topicality, and Generalizatic

Reflections about maps and models, orienting generalizations and their possible pragmatic and ethical implications and challenges

Heiner Benking

PLEASE NOTE:

This is only a subset

- **without the MAPS and MODELLING section and LOOK-BACK of the author of works done from 1985-2005 –**

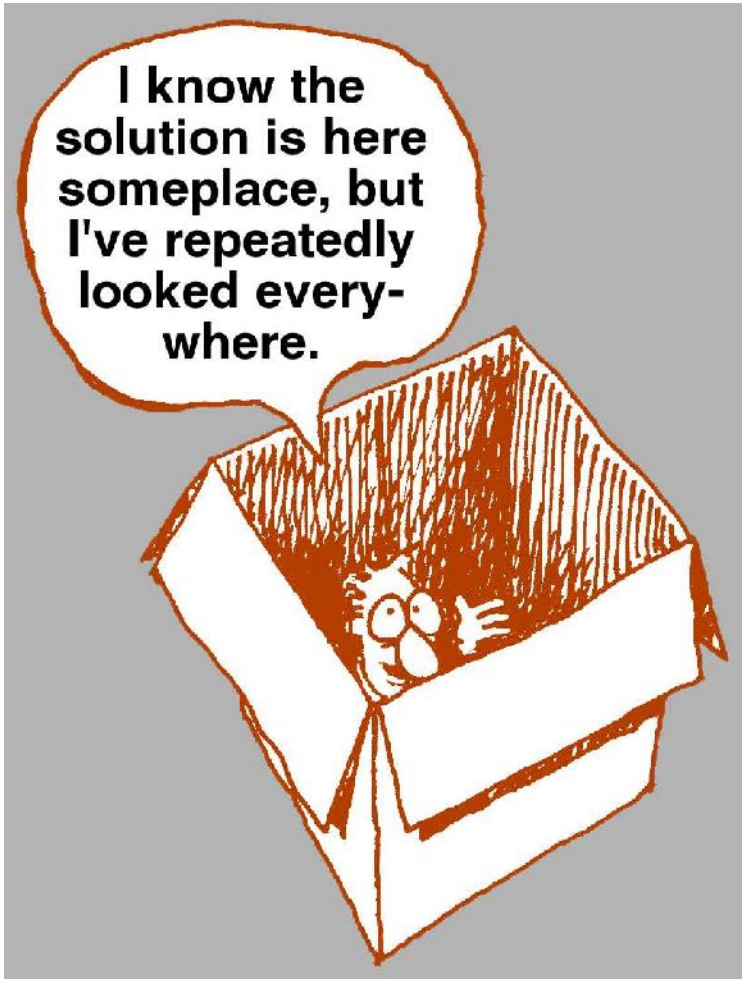
PLEASE visitit http://benking.de/systems/codata/
Or for some more slides:
http://benking.de/systems/codata/CODATA-MIST2005-ppt_files/v3_document.htm

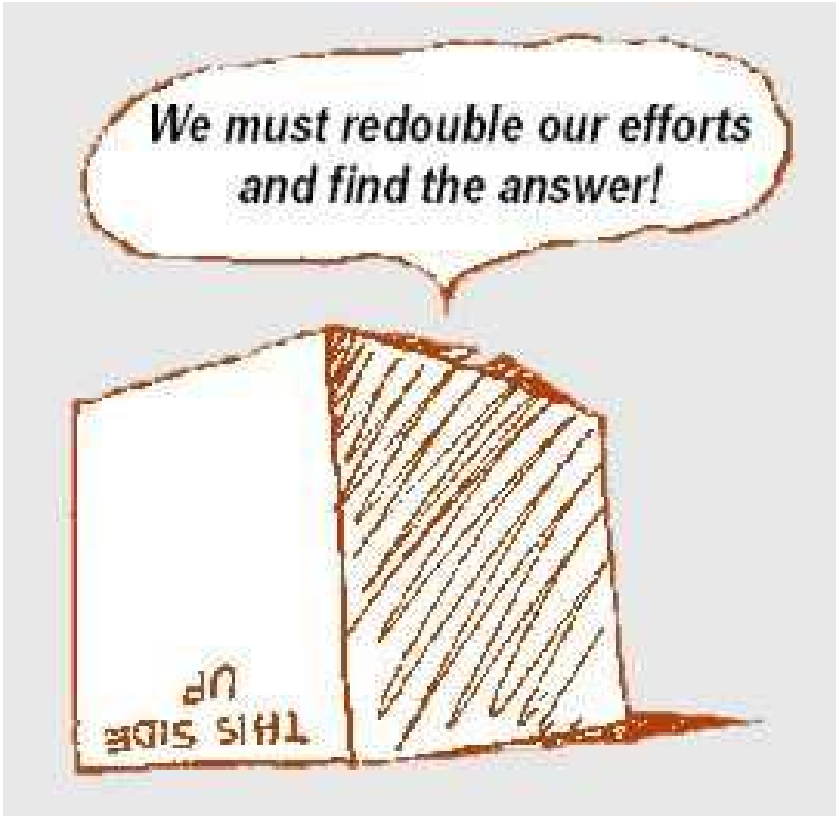
Kurt Hanks – Out of the Box Thinking

http://hanksconsulting.com/

Kurt Hanks – Out of the Box thinking

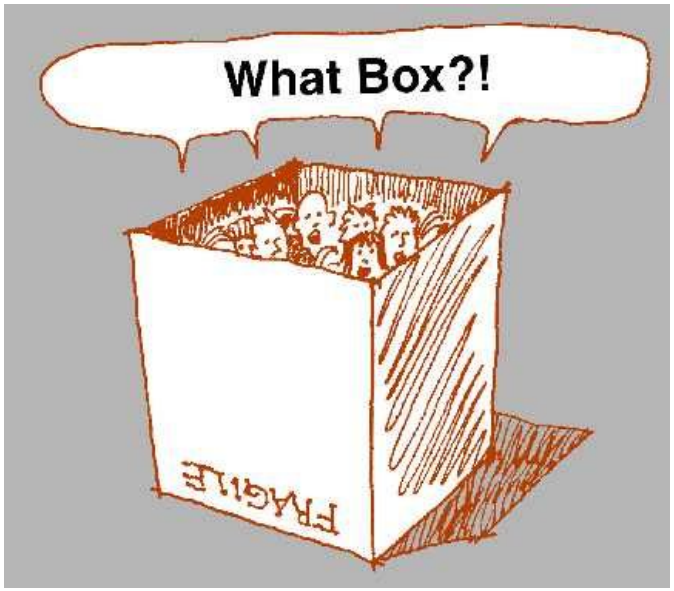
http://hanksconsulting.com/

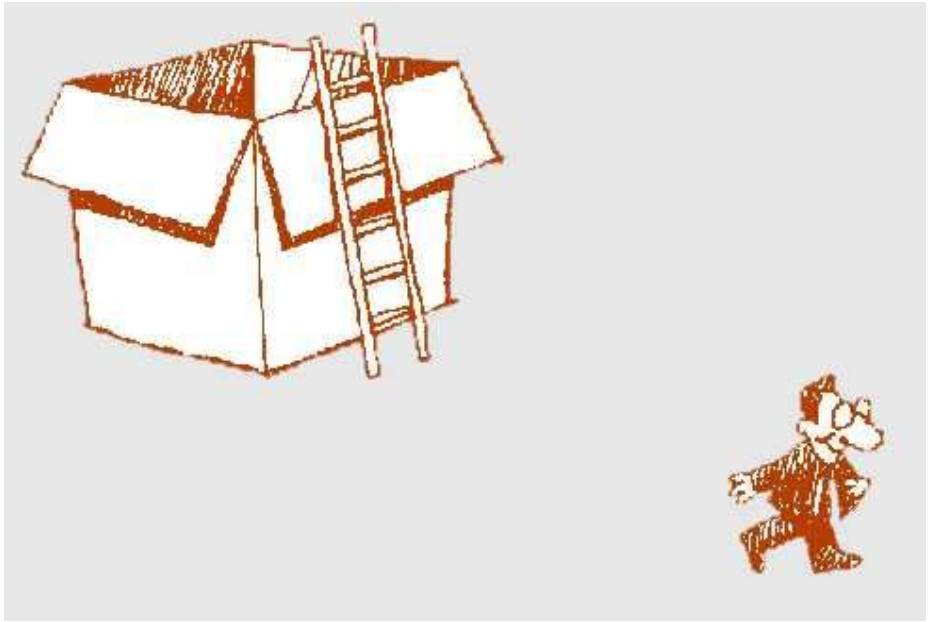




Kurt Hanks – Out of the Box thinking

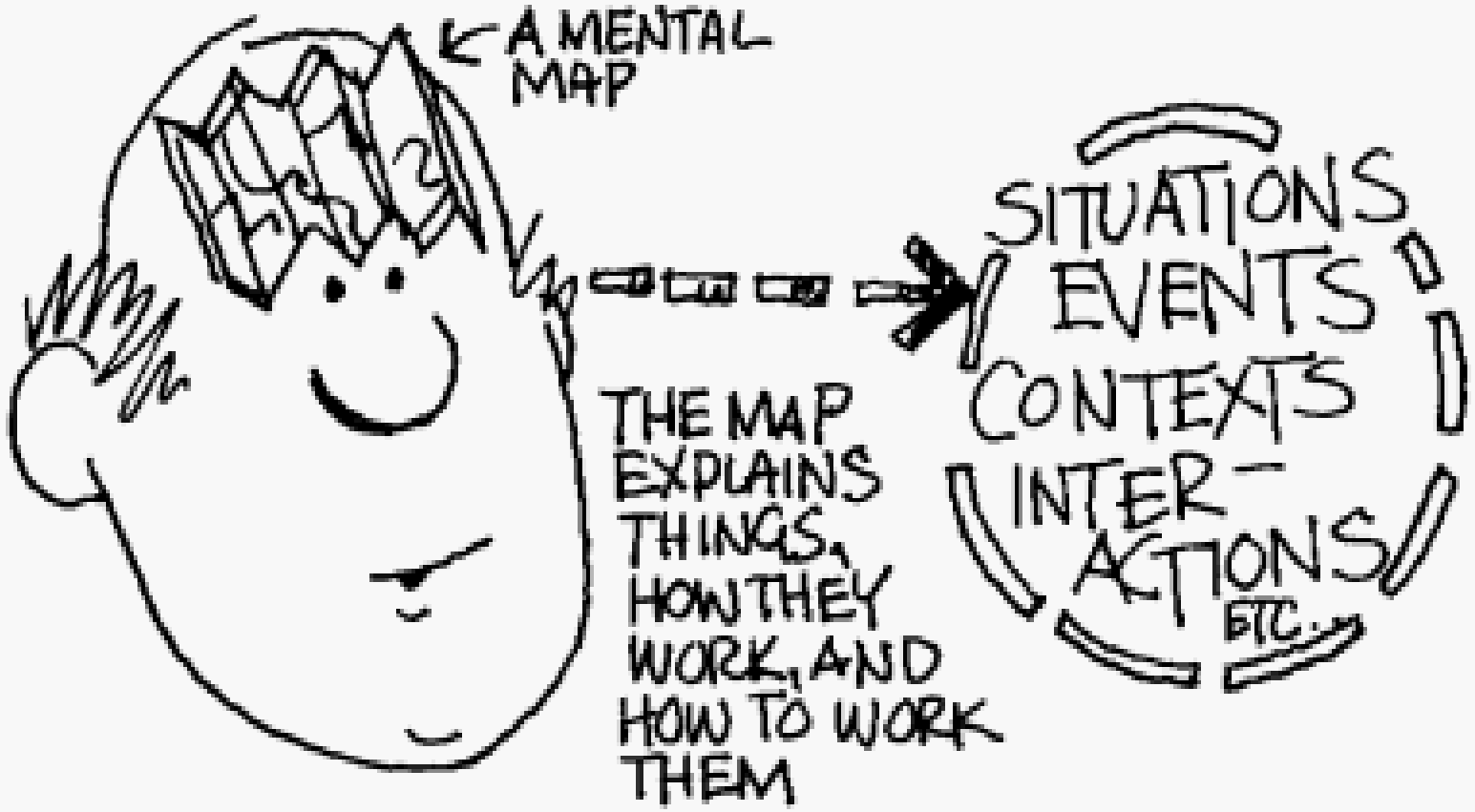
http://hanksconsulting.com/





Kurt Hanks – Paradigm Mapping

http://hanksconsulting.com/



Kurt Hanks – Paradigm Mapping

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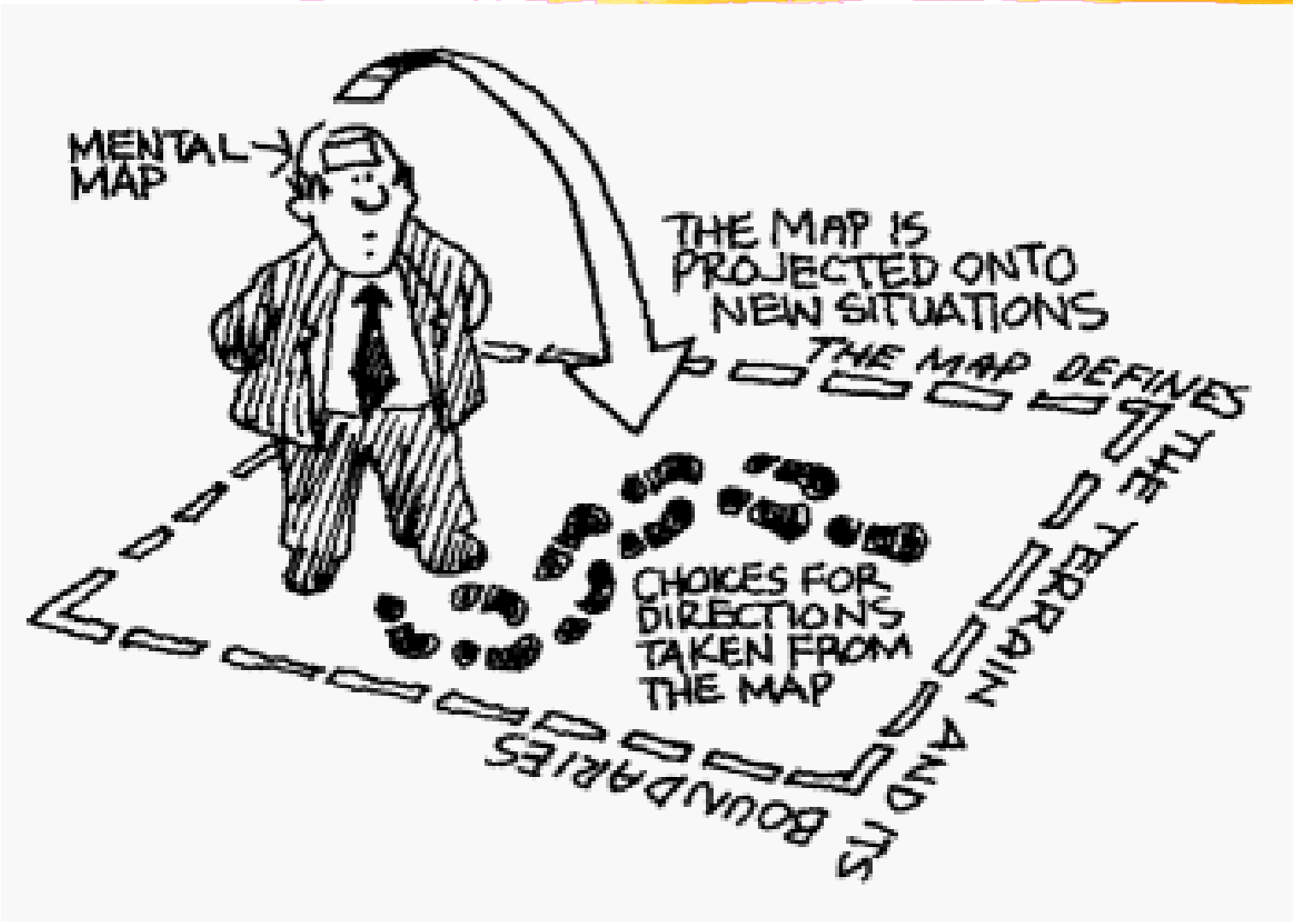

Kurt Hanks – Paradigm Mapping

http://hanksconsulting.com/

Kurt Hanks – Paradigm Mapping

http://hanksconsulting.com/

Multimedia
Where do 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