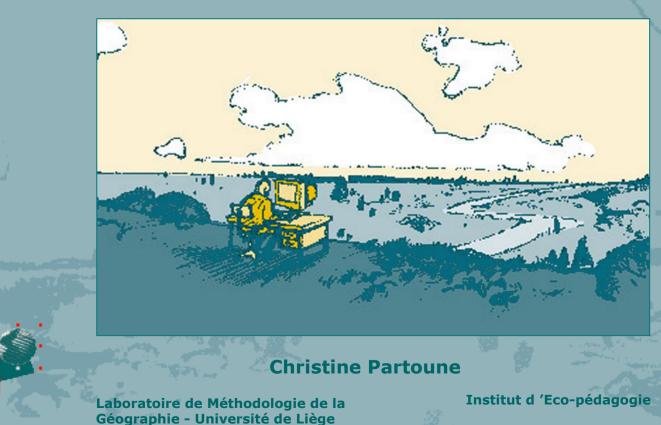
3rd World Environmental Educatin Congress Educational Paths towards Sustainability Turin - 2-6 october 2005

Designing hyperlandscapes for environmental complexity education



What do we mean by « complexity » ?

- global approach of the environment
- global approach of the learner
- systemic reasoning

What do we mean by « complexity » ?

global approach of the landscape

Education through and for the landscape Several views of the concept « landscape »

global approach of the learner systemic reasoning

Education through the landscape

Education for the landscape



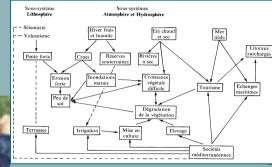
Several views of the concept « landscape »

Landscape = Landscape = a mental representation a real object Philosopher Surroundings Resident Walker Naturalist Nature Cognitivist Geographer Space Psychosociologist Historian Heritage Citizen Planner Territory Economist Merchant Resource Artist Media Landscaper

What do we mean by « complexity » ?

- global approach of the environment
- Education through and for the landscape
- Several views of the concept of landscape
- global approach of the learner
 - systemic reasoning

Multiple intelligences



Logicalmathematical

Naturalist

Intrapersonal

Visuo-spatial



Linguistic

Bodilykinesthetic

Interpersonal

Musical

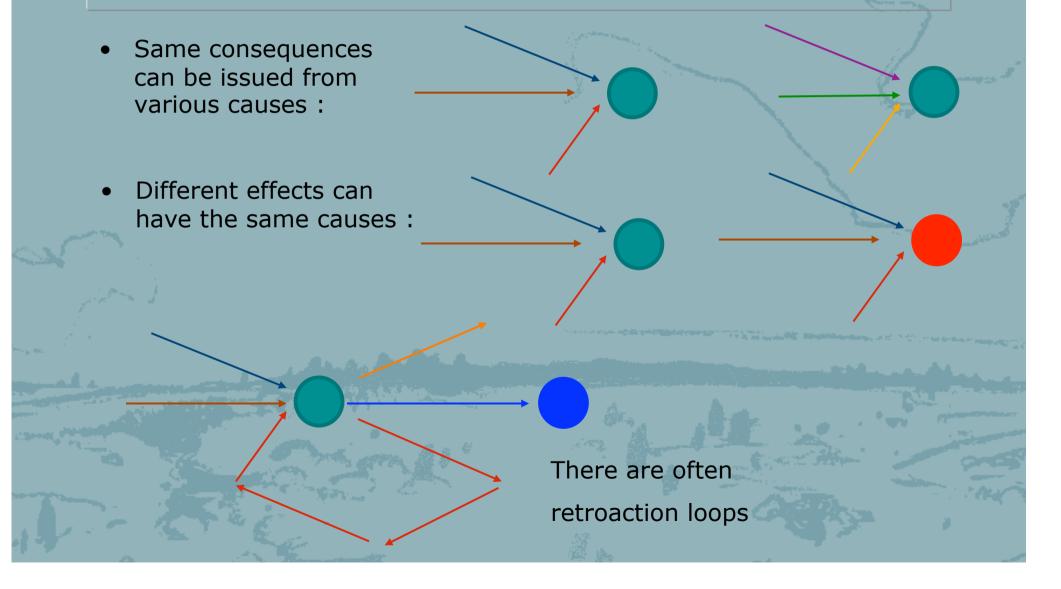


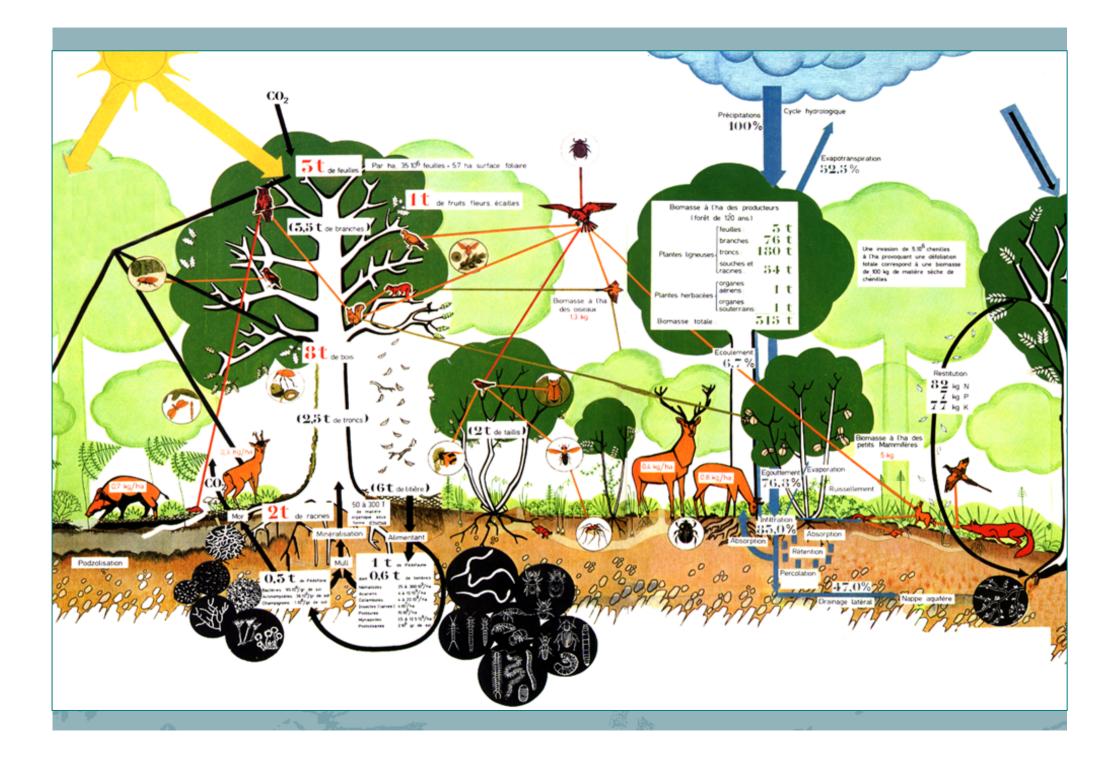
H. Gardner's model

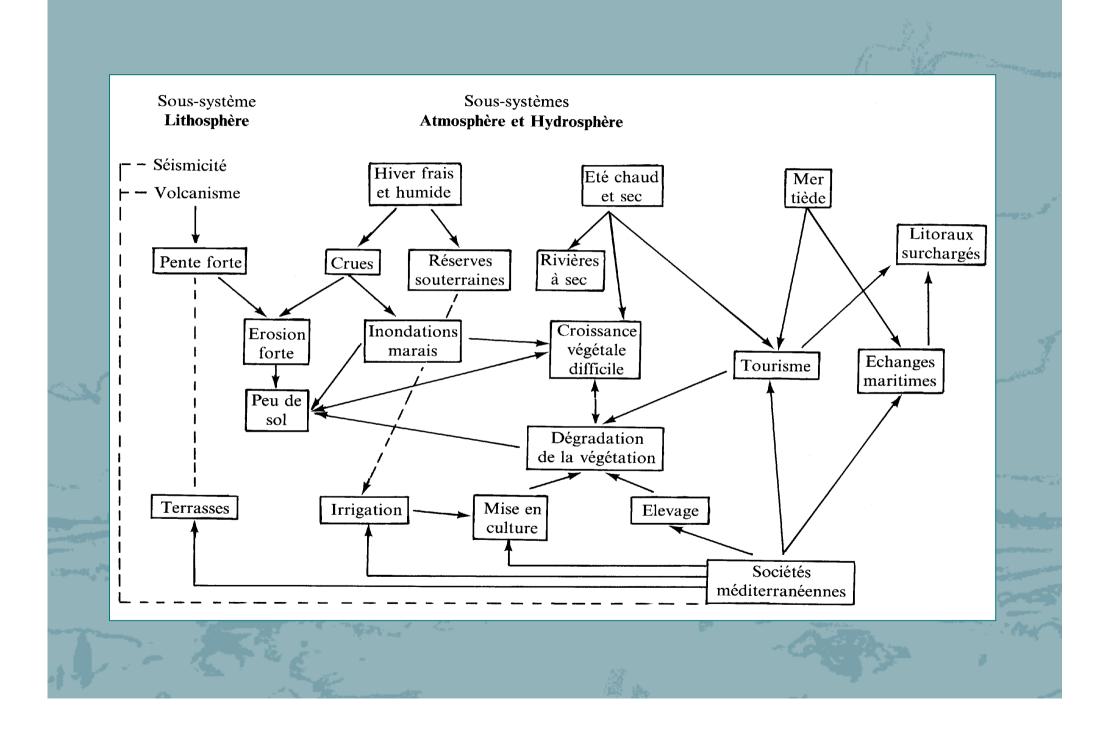
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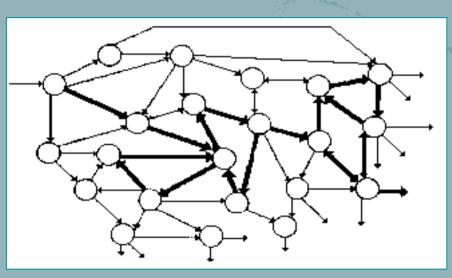
What is (simply) systemical reasoning ?







Key-concept in ICT : HYPERTEXT



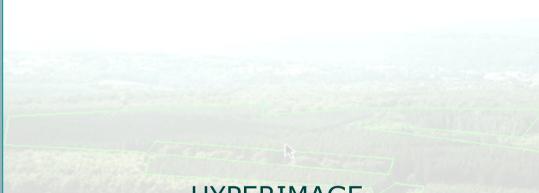
Non-linearity

Virtuality

Multidimensionnality

Interactivity

HYPERMEDIA = HYPERTEXT + virtual images + virtual sounds



HYPERIMAGE

HYPERLANDSCAPE

Une approche de la complexité

Experience of our body in the space

Recurrent structures, that make sense, that express our experience mainly through our body spatial **movements**, our **handling** of objects et our **perceptive interactions**.

Images-schemes

Organization of our mental conceptions

Structures **connected** together, **fited together**.

Lakoff and Johnson

Track for the research : To explore the way of cognitive education by moving in the space, really or virtually.

What is the pedagogical interest of the panoramic hyperlandscapes ?

Some hypothesis...

0000

Could the conception of (virtual) walkings of panoramic hyperlandscapes change our perception and thinking of our real environnement ?

May be the conception of hyperlandscapes could be a way for original body experiences ? Are there schemes-images interesting to be « imprinted » by body experiences ?

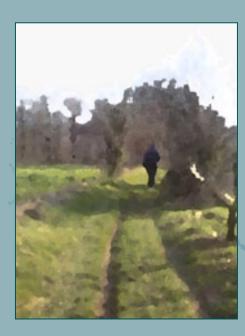
Is it possible, by a sp narrative structure fc hyperlandscapes, to develop the feeling a understanding of the complexity of the spatial relationships ? How to learn the design of an hyperlandscape in order to develop the approach of the complexity of the landscape ?

Which methodology ?

- global approach of the environment
- Education through and for the landscape
- Several views of the concept of landscape
- global approach of the learner
- Multiple intelligences
- systemical reasoning

Focused on the learner





intrapersonal intelligence



Focused on the society



As the fauvists

Visuo-spatial intelligence

Focused on the discipline



As accurately as possible

Focused on the learner



Without looking at the paper

Bodilykinesthetic intelligence

Logical-mathematical



Visuospatial



Focused on the discipline





Focused on the discipline :

« to create a model in 3D of the typical landscape of the region, with objects collected during a transversal walk »

Bodyli-kinesthetic intelligence

Interpersonal intelligence

Visuospatial intelligence



Problem solving

Decision making



What do you wish as future landscape for your country ?



Focused on the

society

intrapersonal intelligence





Meetings and interviews of locals, tourists, farmers, politicians, in order to cross their points of view.



Perception and spatial cognition on the field and on the screen

Designing hyperlandscapes

to develop a

 « bodily-kinesthetic intelligence » based on the pleasure to meet a lot of connections, and open doors on surprises.

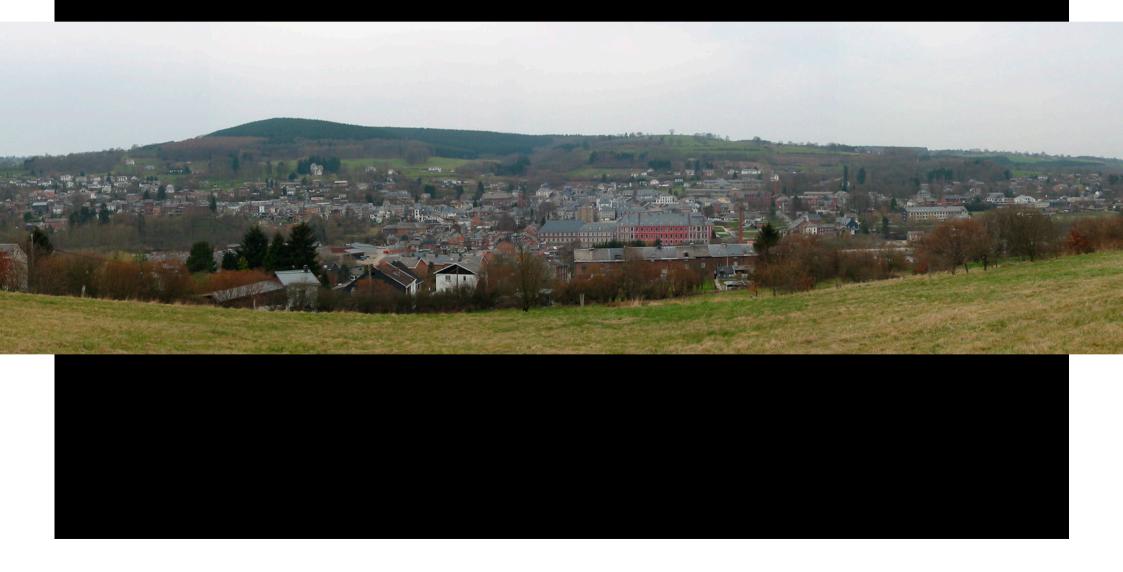




Panoramics views to get into the habit of looking all around us,...

... to get into the habit of making a general survey of a situation.

Perception and spatial cognition on the field an on the screen



Activities to become used to look all around, in a 360° perspective



Sensitive immersion at 360°

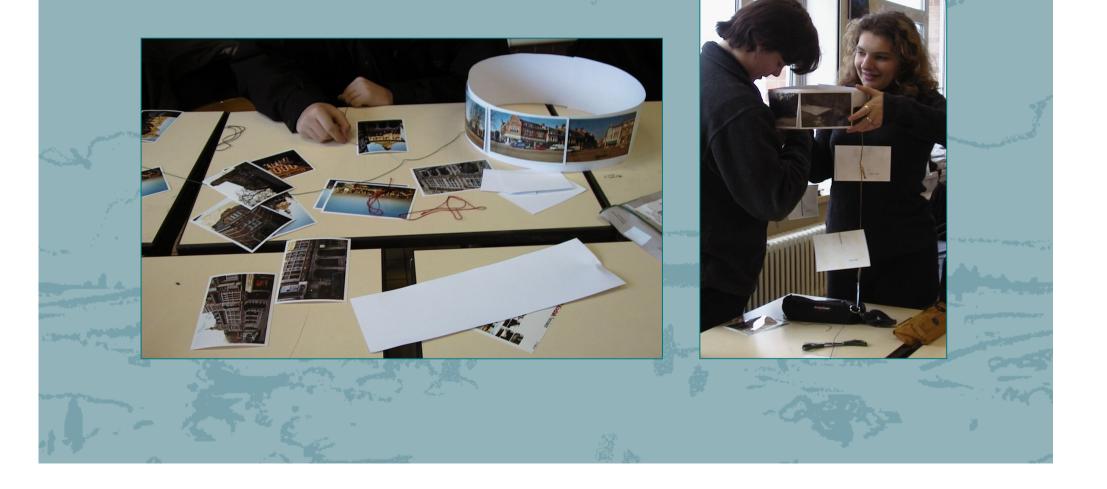


Some tools to incitate the creation of an original script for discovering the landscape

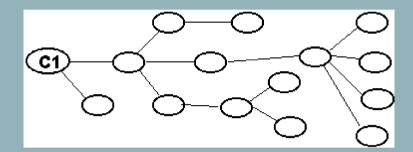
Photolanguage with various aspects of the life, of the world



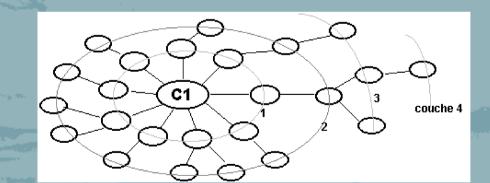
How to vizualise the narrative structure of the hyperlandscape?

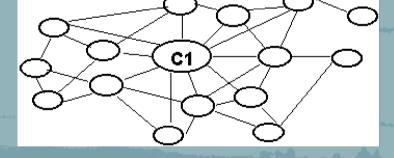


Some models to evaluate if the narrative structure used to link the ideas is based on a linear or on a systemic pattern.



The tree

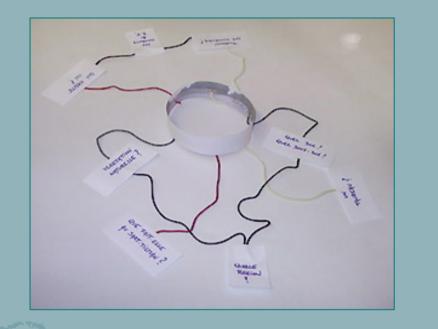


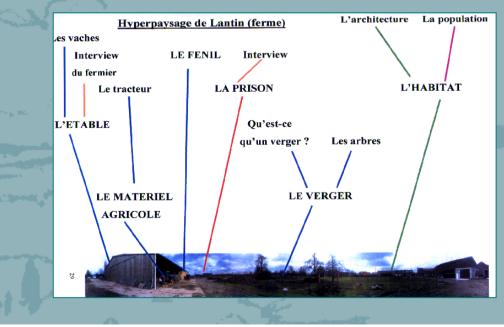


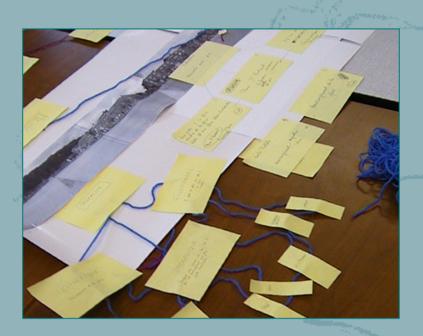
The spider's web

The snow's flake

Tribollet B., Langlois F., Jacquet L., 2000. Protocoles d'emploi des cartes conceptuelles au lycée et en formation des maîtres, Trema, IUFM de Montpellier, n° 18.









Perception and spatial cognition on the field and on the screen

ANCHORS

PANORAMIC VIEWS 360°

DYNAMIC MENTAL MAPS

> IMAGES-SC HEMES

> > METAPHORS

Concevoir des hyperpaysages pour développer une intelligence corporellekinesthésique qui trouve son moteur dans les possibilités de connexion et d'ouverture tous azimuts.

OTHER IMAGES MINIPANOS

> LINKS RETICULAR ITINERARIES

HYPERLANDSCAPE

Les hyperpaysages : pour une approche pédagogique globale de l'apprenant

et du paysage

ALL COMPANY

Thank you !

Merci de votre attention !

www.hyperpaysages.org