



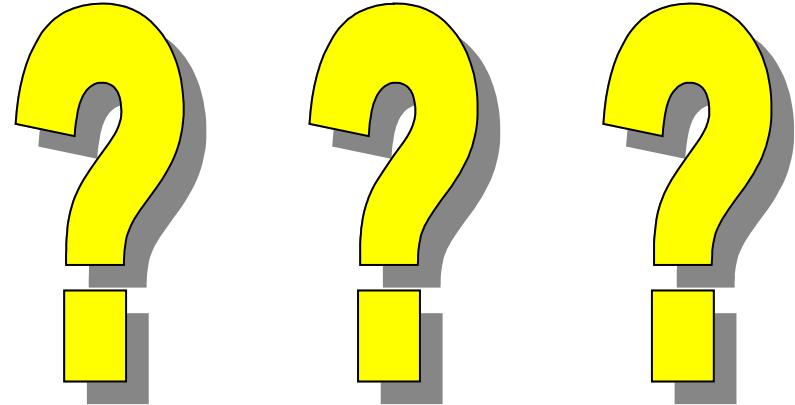
Development Organisations of the Future

Hans-Juergen Kugler

KUGLER MAAG CIE

Eclipse Embedded Day, Stuttgart, 24 June 2010

Development Organisations of the Future



(most)

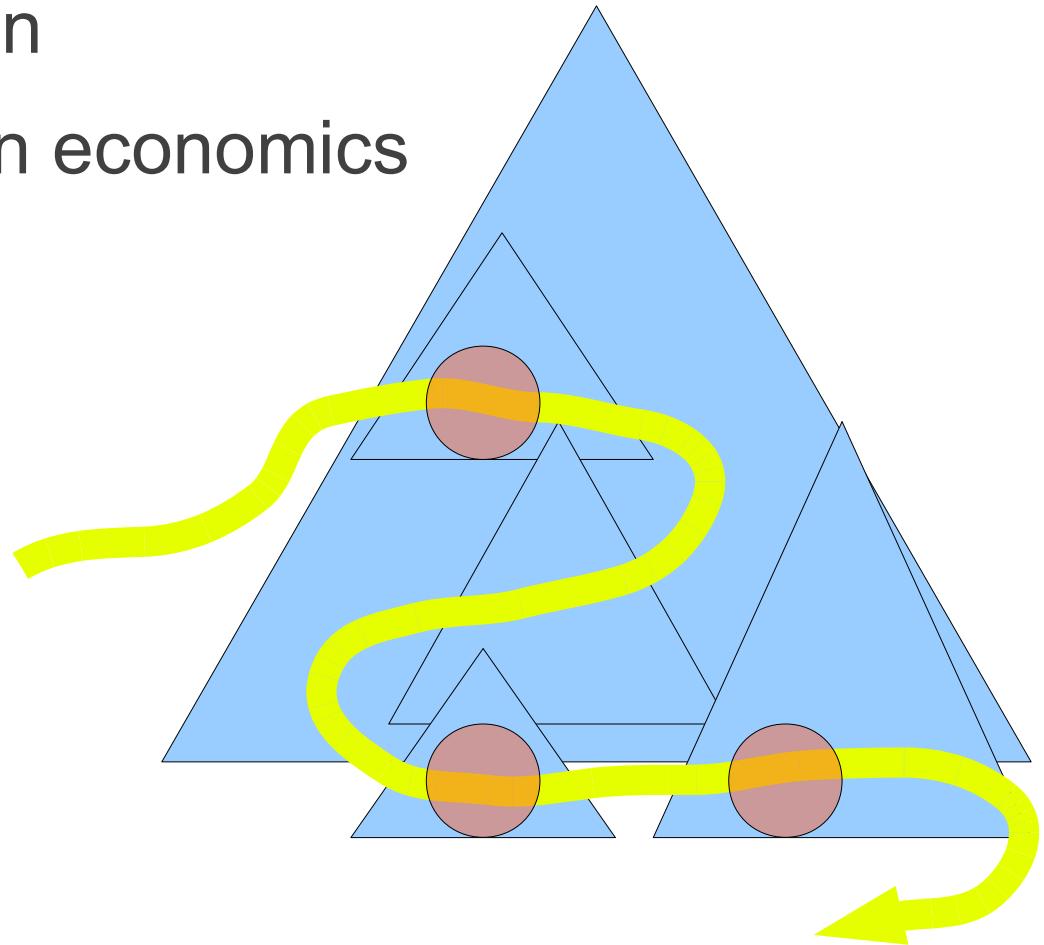
Commercial Development Organisations Today

- Industrial revolution
- Taylor = Newtonian economics
- Product = Σ parts

(most)

Commercial Development Organisations Today

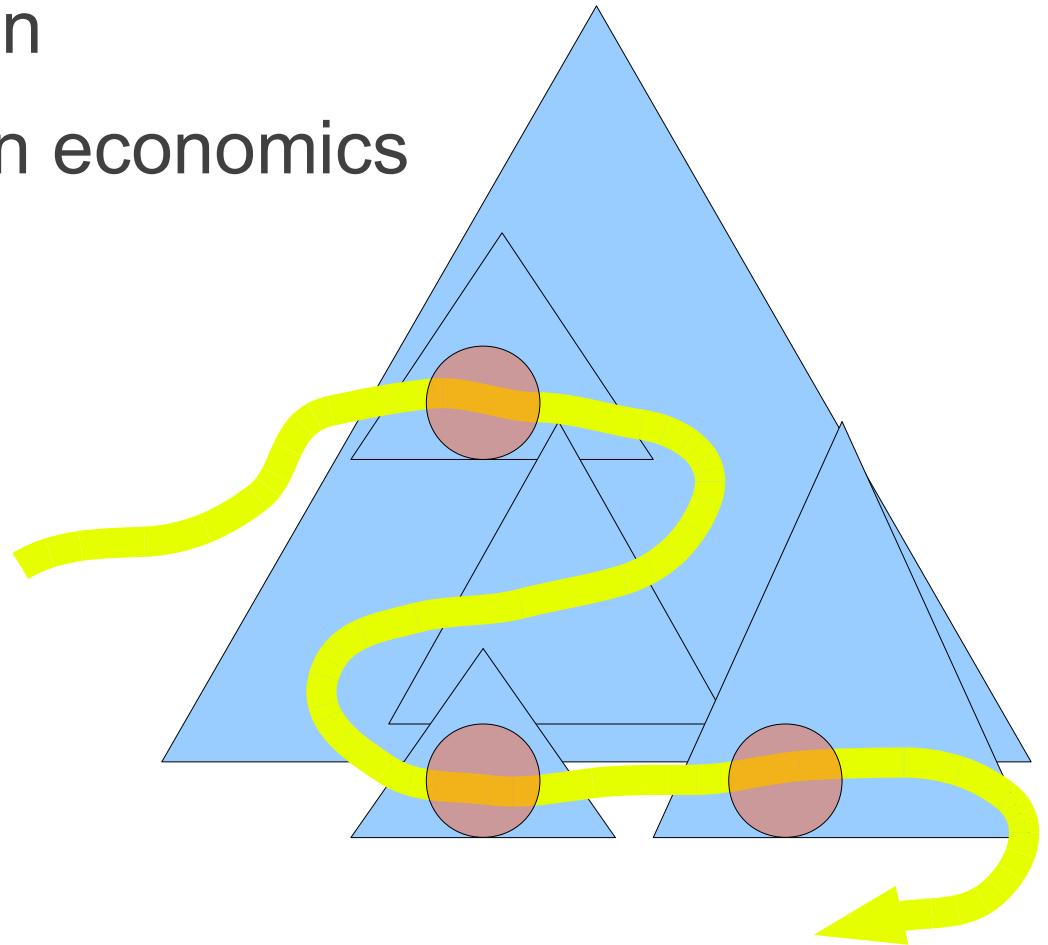
- Industrial revolution
- Taylor = Newtonian economics
- **Product = Σ parts**
- Process = control



(most)

Commercial Development Organisations Today

- Industrial revolution
- Taylor = Newtonian economics
- **Product = Σ parts**
- Process = control



Future of Systems

Pervasive computing

Internet of things

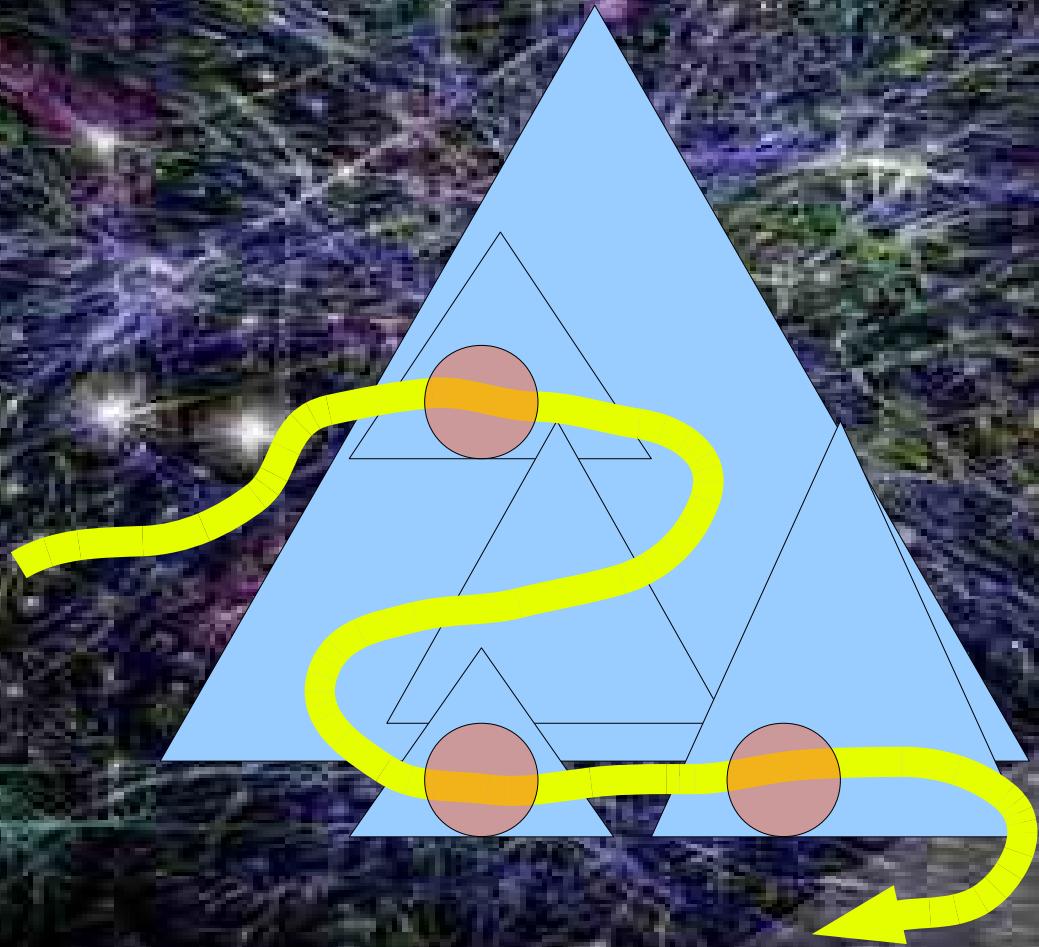
Local = Global

Interdependence

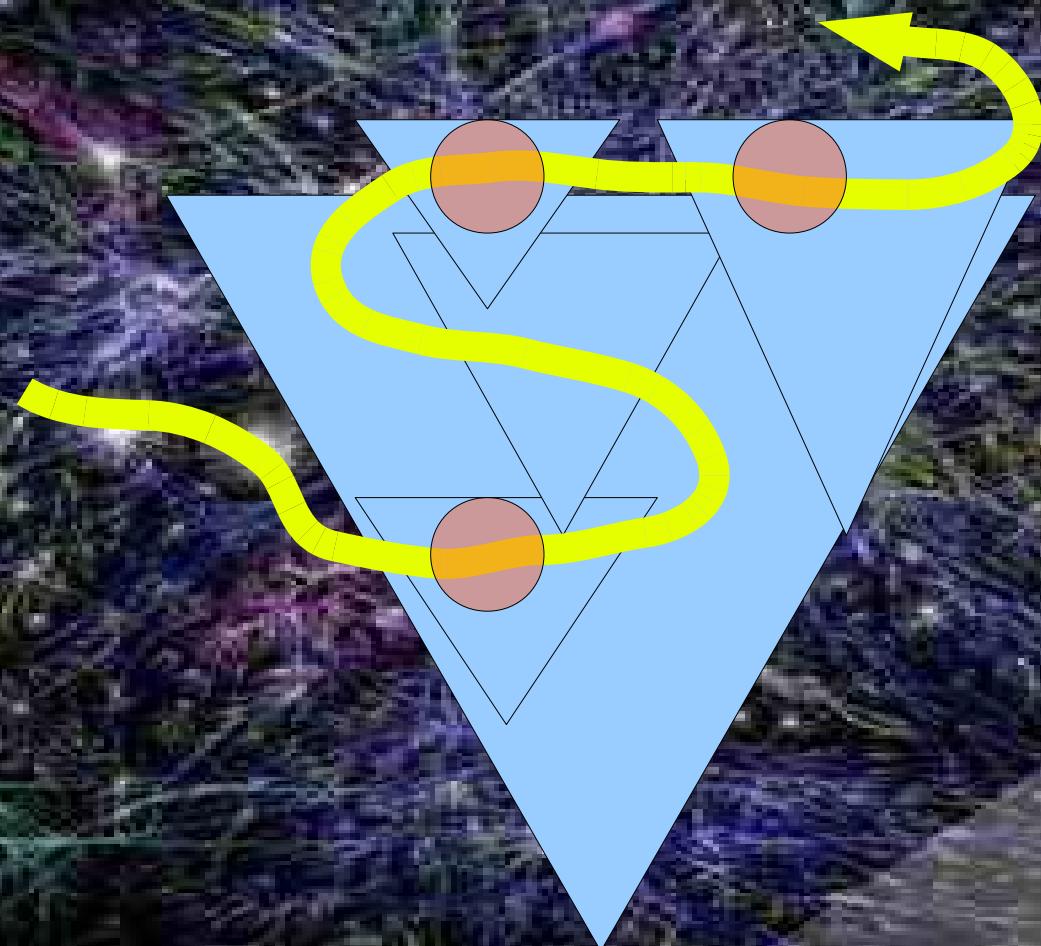
Product $>> \Sigma$ parts

Emerging critical systems

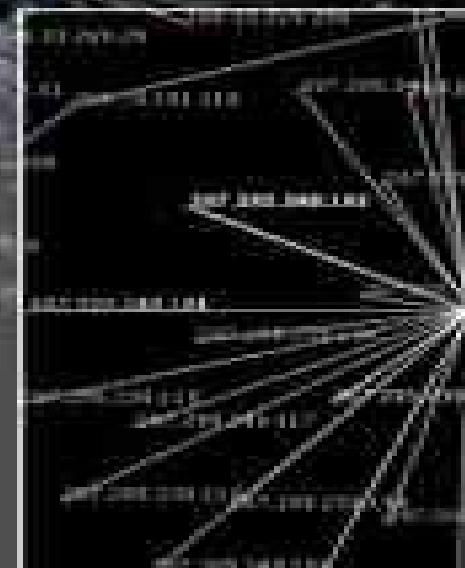
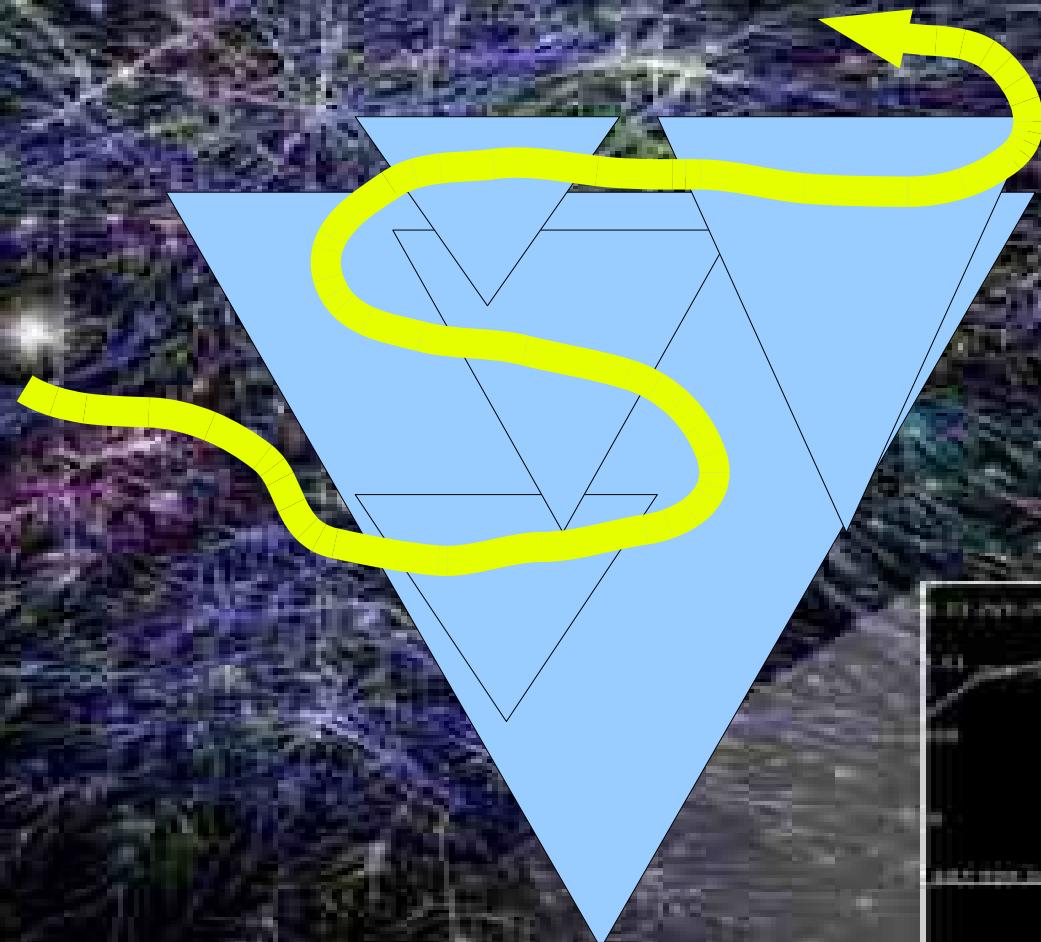
Conway's Law – implications ?



Management =Supplier | Facilitator



Management =Supplier | Facilitator



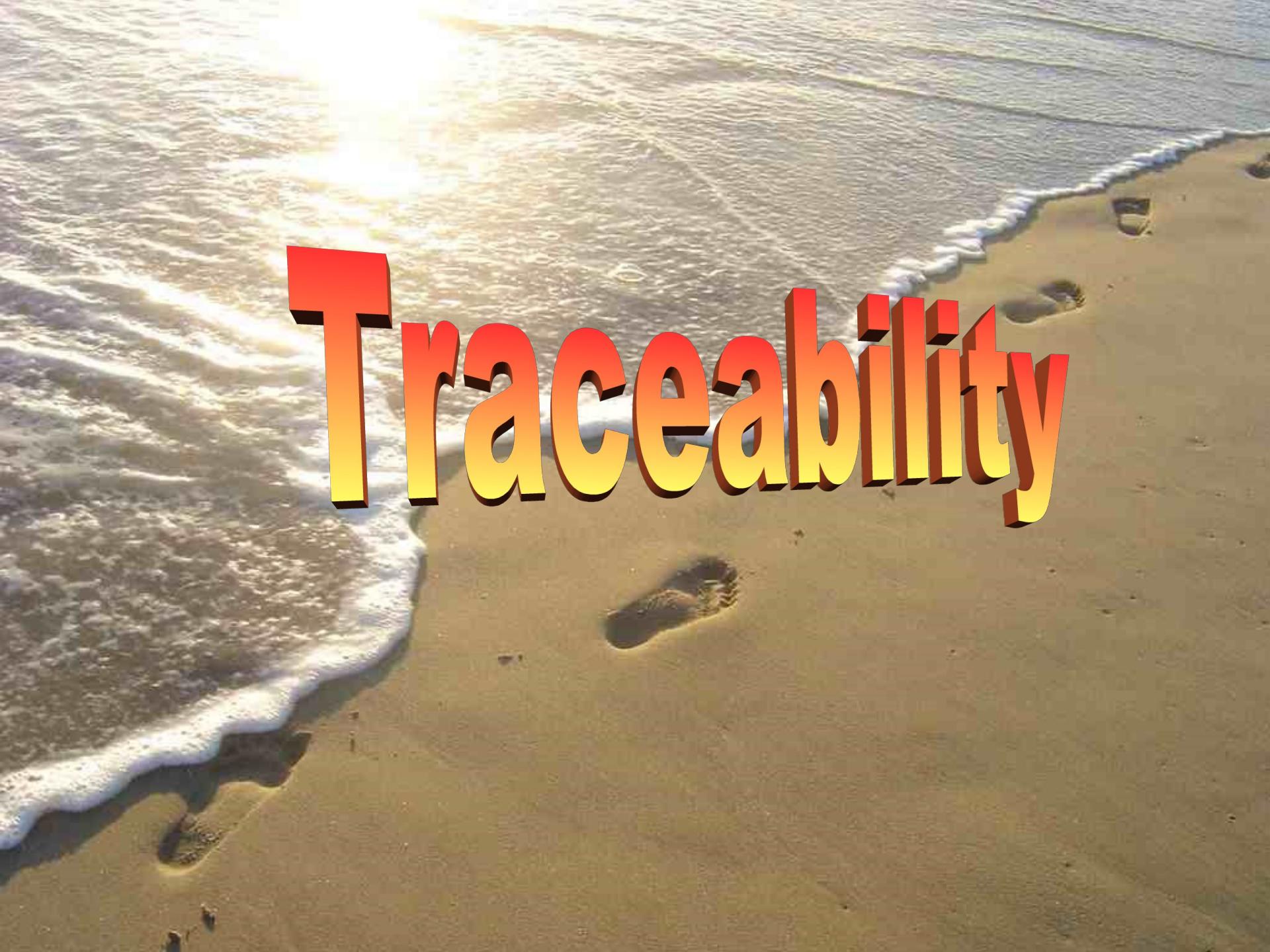


Trust



The background image shows a close-up of clear, flowing water. Sunlight reflects off the surface, creating bright highlights and ripples. The water is a mix of clear blue and greenish-yellow tones, with small white bubbles visible.

Transparency

The background of the image is a photograph of a sandy beach. Waves are crashing onto the shore, creating white foam. Several dark footprints are visible in the wet sand near the water's edge.

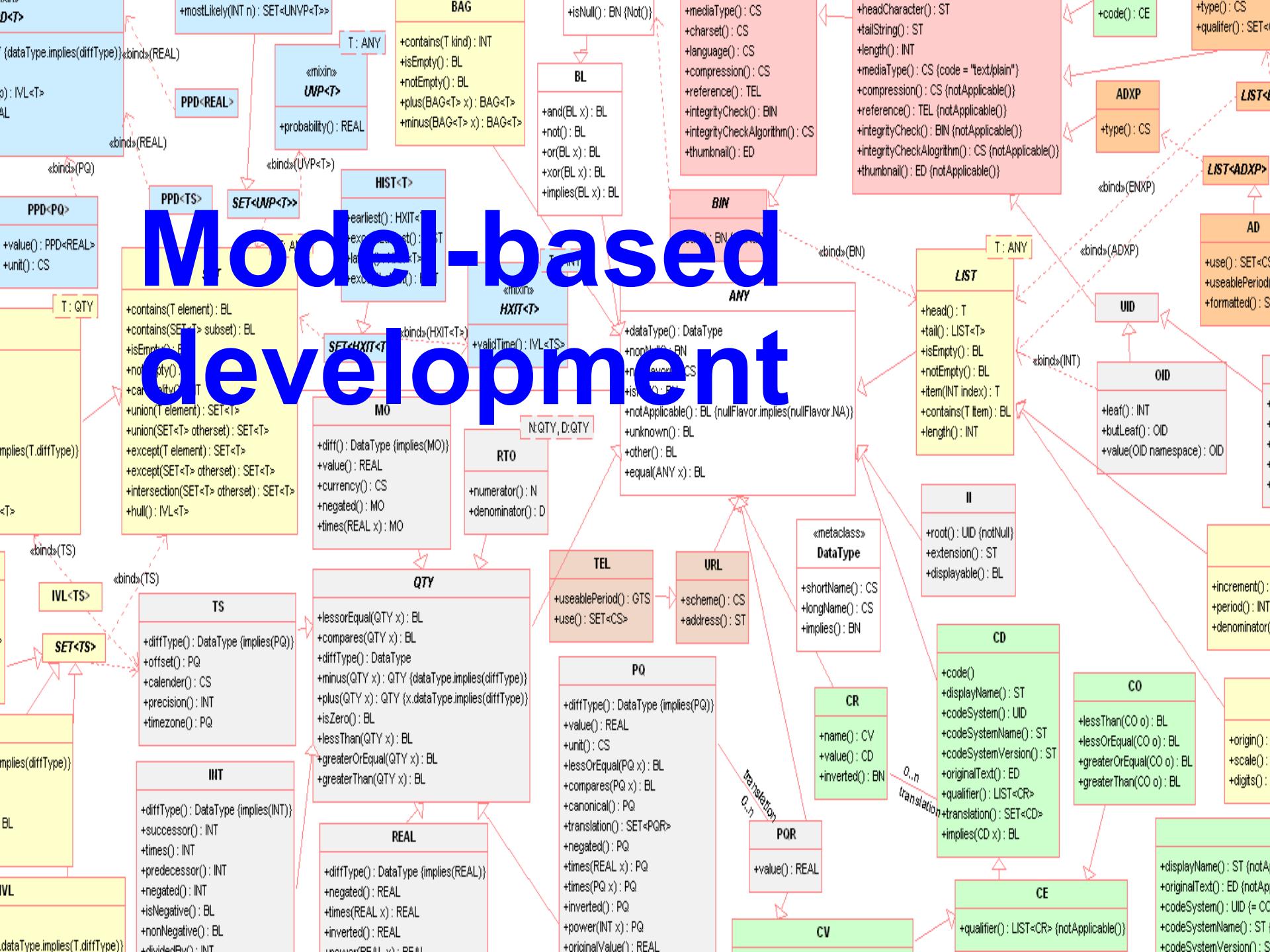
Traceability



Traceability

- Tool integration
- History

Model-based development





Engineering is a social activity

Knowledge is created through social activity





Wikipedia vs. PeopleWiki

Wikipedia	PeopleWiki
Size: Medium to Huge communities (100k to 1kM) e.g. Linguistic community	Size: Small communities (100 to 10k) e.g. University alumnis
Open to new members and anonymous editing	Exclusive to "known" community members for reading/editing
Designed for capitalizing encyclopaedic knowledge	Designed for capitalizing expert and practical knowledge
Not much information about contributors/members	A lot of information about contributors/members - a reflexive tool for a community to know itself
Can use Semantic wiki to link encyclopaedic concepts	Can use Semantic wiki to link people
Specific policies for contributing (e.g. three-revert rule)	Specific policies for contributing (e.g. respect private life)

What is PeopleWiki?

The concept developed in this poster aims to break new grounds in the use made of Mediawiki by introducing a new type of wiki, addressing smaller, specific communities (e.g. universities, companies...).



Social/business networking



PeopleWiki is here:

knowledge sharing + basic networking

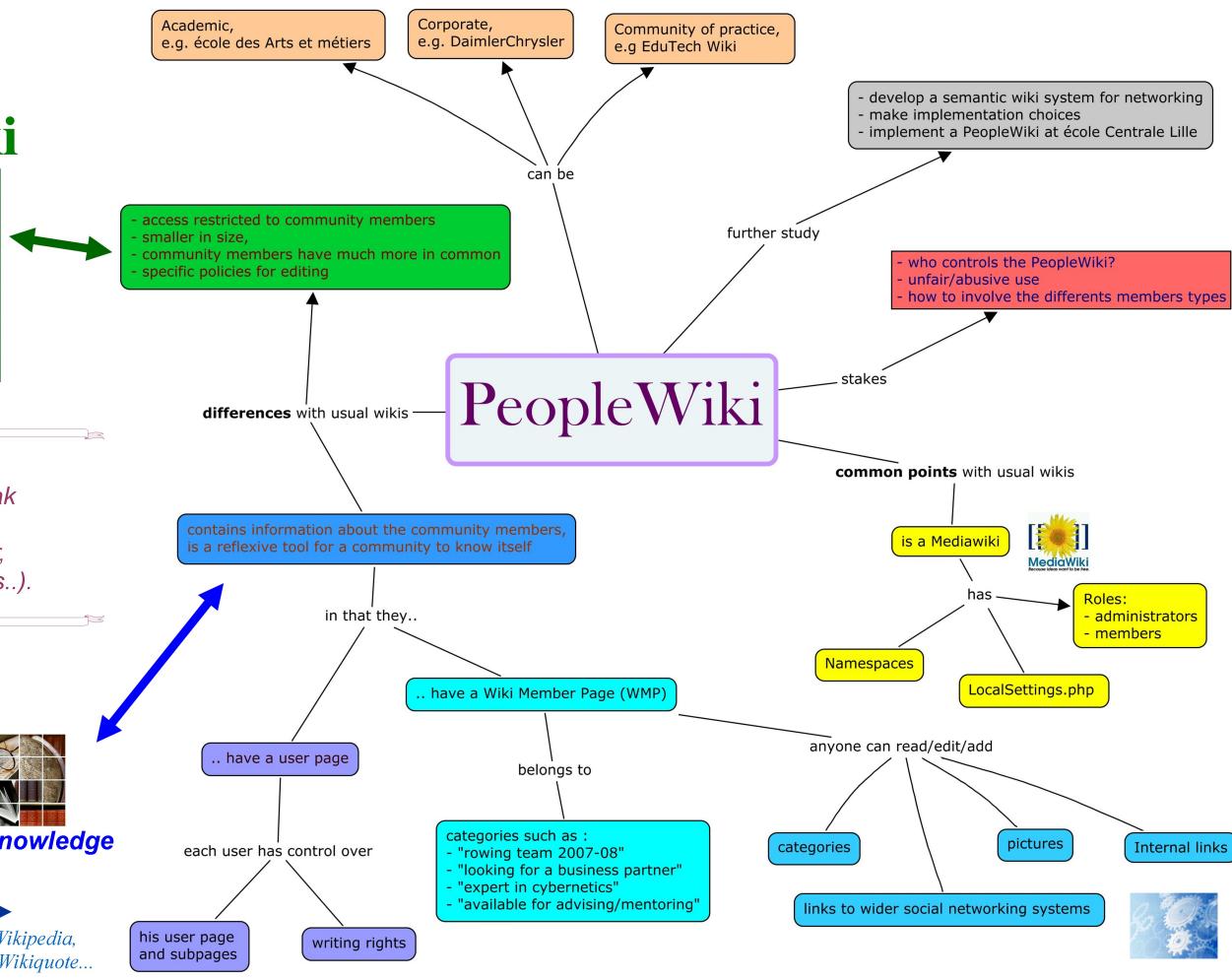


Objective knowledge sharing

*Facebook,
Linkedin...*

- ## **Help wanted!**
- . Want to implement a PeopleWiki in your own academic/business community?
 - . Want to discuss or take part in our technical/organizational issues?
 - . Want to read the full paper?

Just download/get in touch: <http://rb.ec-lille.fr/l/PeopleWiki.htm>



Concretely: A project by the name of *CentraleWiki* is to be developed in the coming months at école Centrale de Lille (7000 students-alumni-professors community)

1. implement/test the technology (LDAP login, <protect> tag, LocalSettings.php ...)
 2. establish policy for appropriate use, rules enforcement by the community
 3. develop semantic wiki for social networking (ETA june 2009)

References / links

- References / links :**

General references about digital media

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 - Augie N. Kairam, R. T. Zhao (2004). Teaching and learning online with wikis. Proceedings of the 21st Australian Society for Computers in Learning in Tertiary Education (ASCILITE), Perth, December 5-8, 2004. Retrieved 2007 from <http://www.ascilite.org.au/conference/2004/proceedings/pdf/>
 - Oerter, Mark and Heide, Thomas and Retzschke, Marc (2006) <http://www.knowcology.de/insights-from-the-open-courses/>. In: ACM 2006 International Symposium on Wikis. Wikibits '06, 21-23 June.

- Majorana
Mass

- WIFI station

卷之三

- Managing access**
- MediaWiki Manual: Preventing access http://www.mediawiki.org/wiki/Manual:Preventing_access
- Category:Page Access Control Extensions Read about security issues with authorization extension if you plan to use one of those.
- Manual on Preventing access from MetaWiki.org http://www.meta.wikimedia.org/Manual:Preventing_access

-Exhibit

- Semantic Web:
-SesWiki - The Semantic Wiki Community <http://www.semantic.org>
-Semantic Wikipedia Max Völkel, Markus Krötzsch, Denny Vrandecic, Heiko Heller, and Rudi Studer, http://wiki.semanticweb.org/wiki/Semantic_Wikipedia