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Advanced Tools for Visualizing, Measuring and Managing Intangibles

5th European Institute for Advanced Studies in Management (EIASM), Workshop on

Visualizing, Measuring and Managing Intangibles and Intellectual Capital

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Speaker



Peter Bretscher,

Founder and owner,
Engineering Office for Business Development
Ingenieurbüro für Wirtschaftsentwicklung, Eggersriet / Switzerland

Function in the Ing.Büro: Advisor to organizations in the design of economic steering and management systems that integrate the intangible perspective

- Engineering background (worked 20 years in several functions along the whole value chain of an international R&D and manufacturing company based in Switzerland)
- Developed over the last 20 years the "Business Engineering System" (Tools for Business Administration) a MindSet and models for structuring and quantifying the tangible and intangible resources.
- In addition he is supporting companies, consultants, and other organizations in innovation and project management, in intellectual property and patent management, and in setting up business plans and defining enterprise strategy
- He has initiated and is leading the "bengin" project. Its mission is to facilitate the awareness for and further development of management concepts that enhance the traditional economic model
- Since 1994 he is teaching business engineering und business planning at the University of Applied Sciences in St. Gallen, Switzerland.

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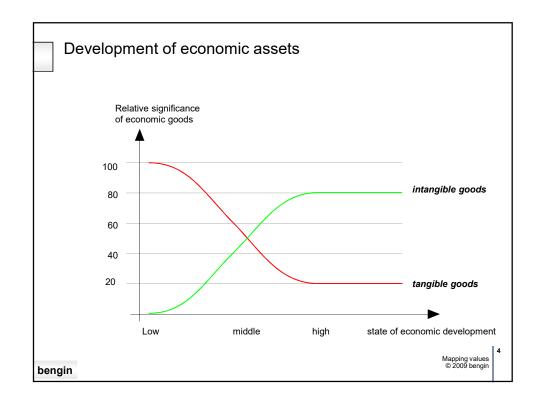
Website: http://www.bengin.com/, Blog: http://www.bengin.net/wp/, Twitter: http://twitter.com/peterbretscher

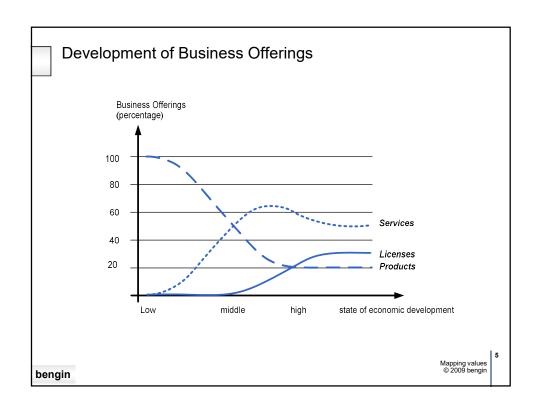
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Agenda

- Development of Economy
- Innovation of Products
 - and Economic MindSet as a Product
- Two Outdated Paradigms Revised
- The Vector Solution
- Conclusion and Outlook

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Summary

«Many of the patterns of nature we can discover only **after** they have been constructed by our mind.»

Friedrich von Hayek

This are two developments we see in the real reality. *Intangibles* are (and will be) *more and more important*.

Intangibles in a form of **knowledge** (use-how, make-how, think-how) **and** in a form of **intellectual property rights**.

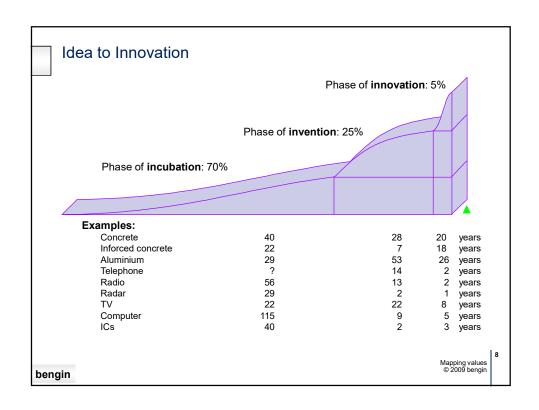
In order to enable a sustainable development we need an enhanced theory that has the means for structuring and quantifying this (new) reality.

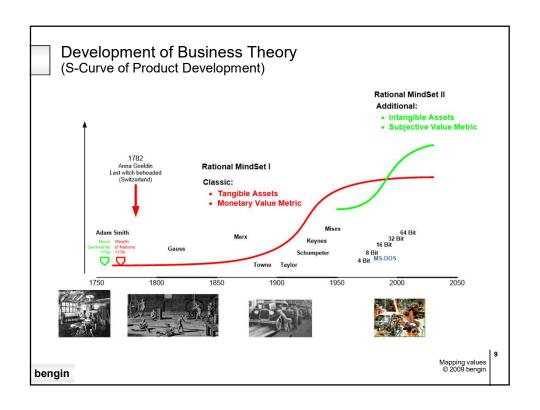
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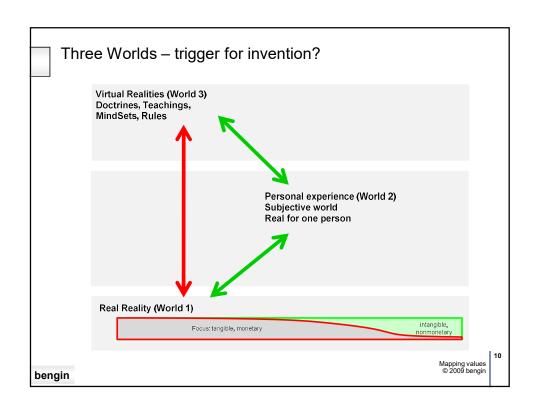
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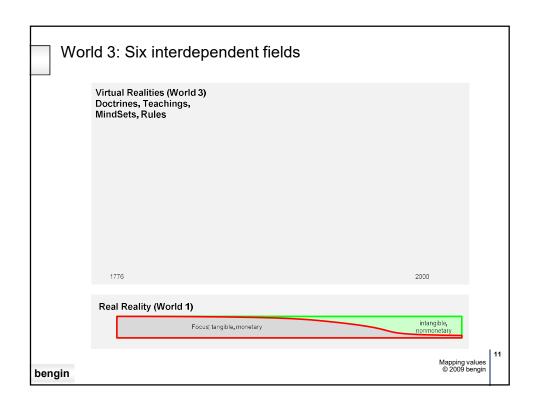
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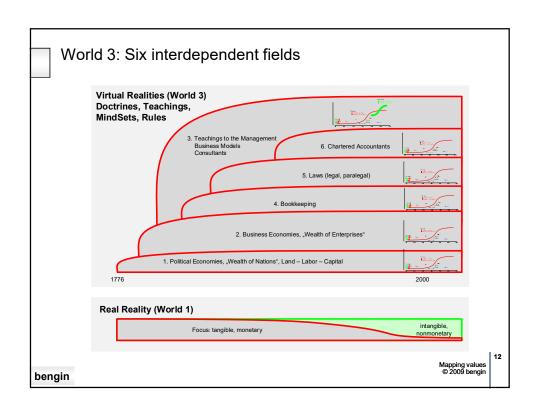
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Summary

«Count what's countable.

Measure what's measurable.

Make measurable what's not measurable.»

Galileo Galilei

Tools for mapping economy and the rules for planning and reasoning business objects are divised in **six interdependent specialized fields** of profession.

In order to have an reasonable impact all areas/fields have to work on solutions.

Even if a coordinator would be an idea....

I expect, that the development will follow a "swarm behaviour".

The **direction** is driven by the need for:

- (i) a framework that structures the intangibles and
- (ii) a value-metric that allows calculation with subjective values.

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Enhancing Paradigms

Deeply ingrained assumptions, teaching programs, mental models, "taken as granted". They determine how we are aware of the reality and influence our behaviour.

At least 17 paradigms to be revised.

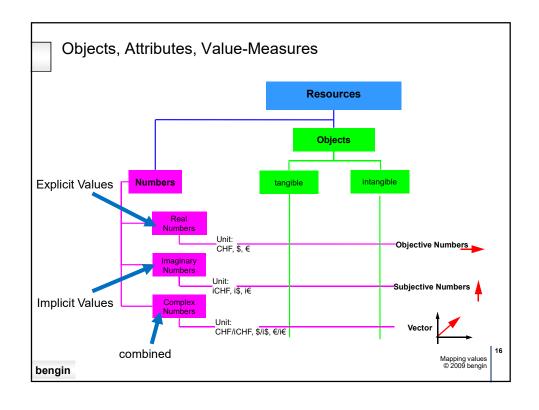
1. Land, Labor, Capital (as resources)

... to be substituted by a framework that is based on tangible and intangible resources.

2. Value paradigm

Value – as a result of a valuation process – has objective AND subjective aspects / dimensions. A scientifically correct value metric system has to reflect this necessity. Therefore it has to be multidimensional. (Linear measure vaporises the essence.)

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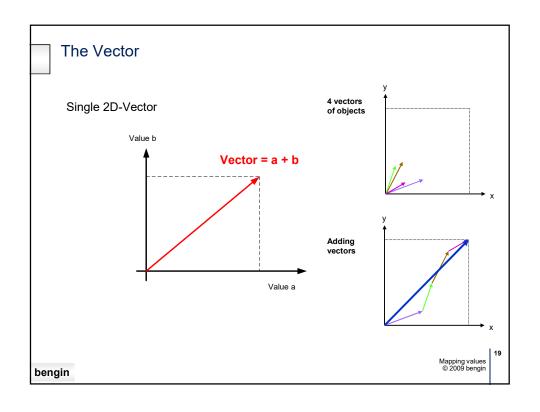
	Summary
	«It is the theory which determines what we can observe.»
	Albert Einstein
	Enhancing this two overhauled paradigms is possible.
	(Even if it takes some time.)
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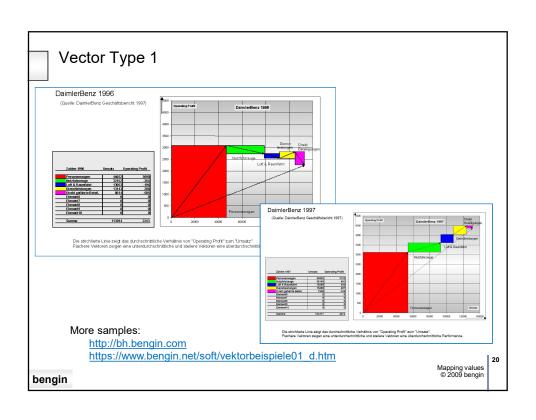
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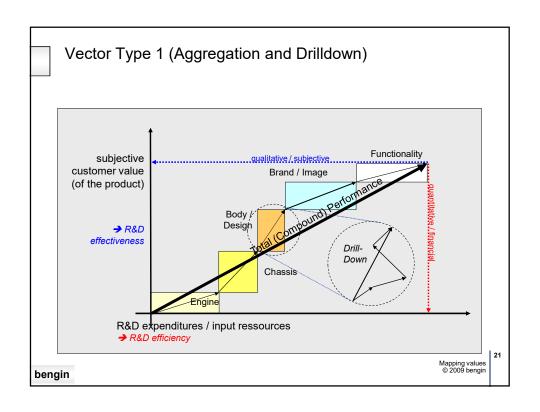
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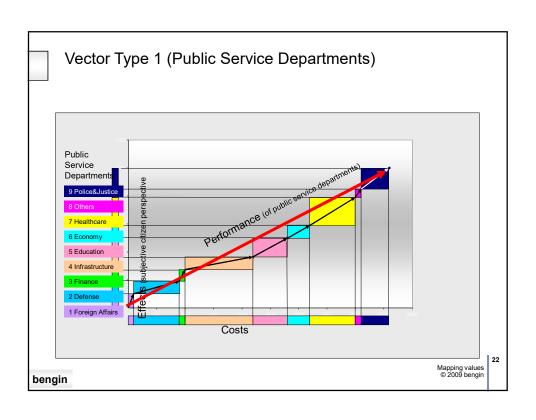
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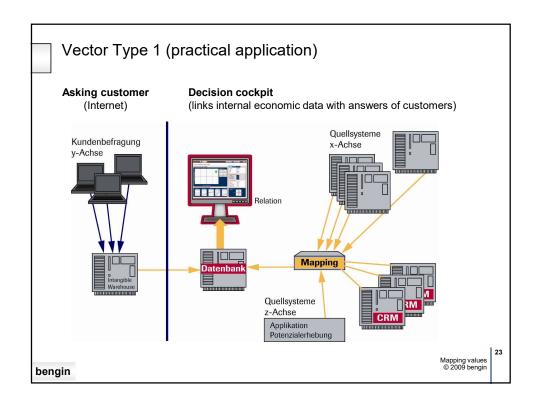
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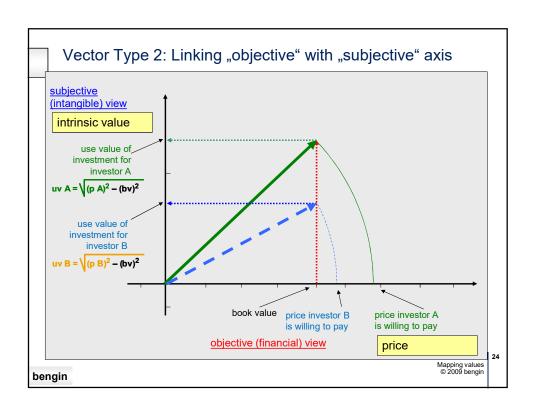


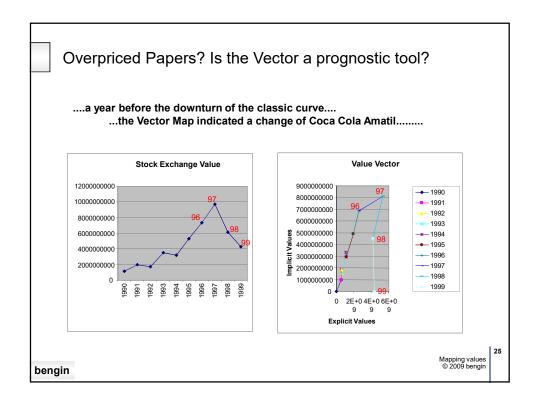


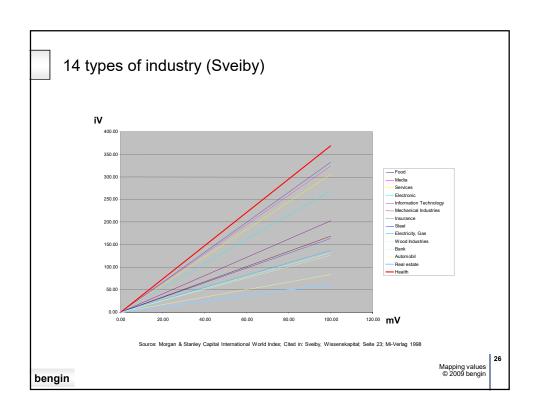


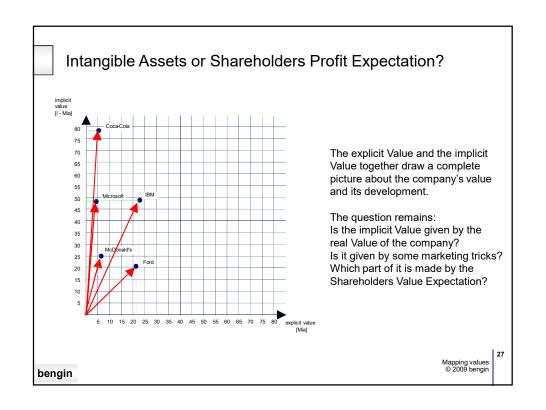


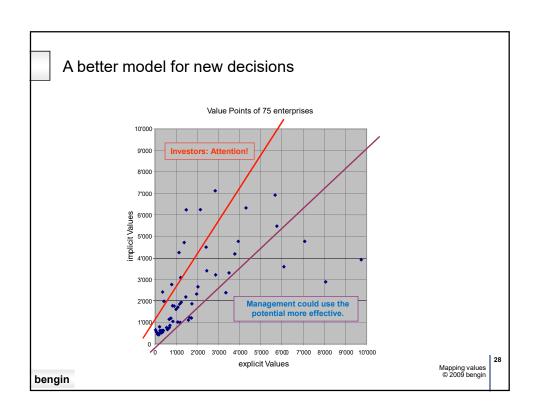


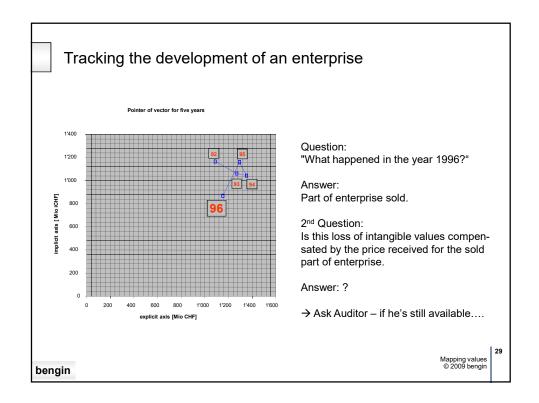












Summary

When you can measure what you are speaking about and express it in numbers, you know something about it; but when you cannot measure it, when you cannot express it in Numbers, your knowledge is of meagre and unsatisfactory kind.

Lord Kelvin

With **Vector 1** it is possible to show any desired **values in context**.

With **Vector 2** it is possible to introduce a **standard for subjective values**.

After the *relativity of time* for the *physicists* 100 years ago, an analogical step can be made by *economists* with the *relativity of value*.

It will enable a more sustainable economy.

Mapping values

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Summary

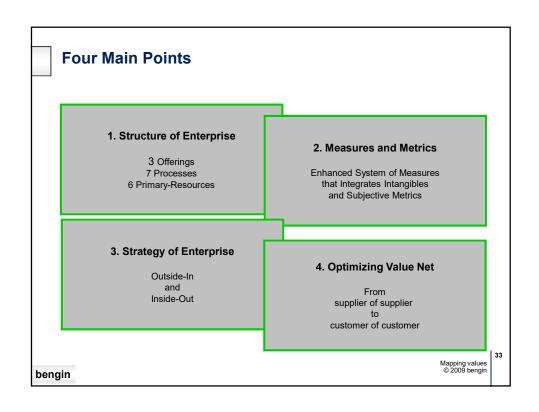
«Many of the patterns of nature we can discover only *after* they have been constructed by our mind.»

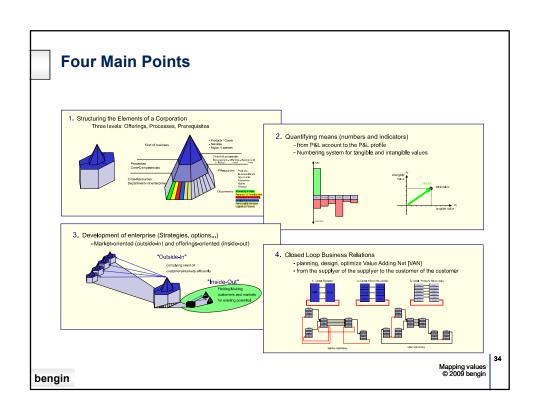
Friedrich von Hayek

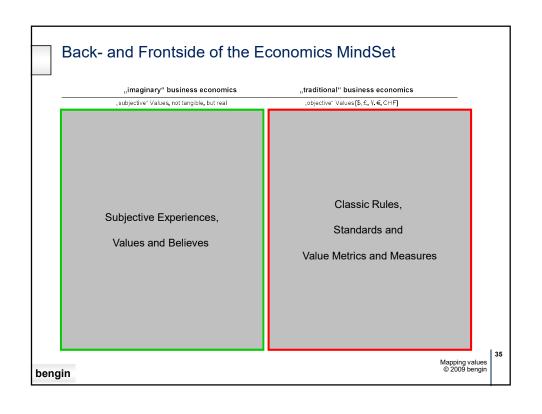
I am very **optimistic**, that the economic theory will reach a higher level of applicability.

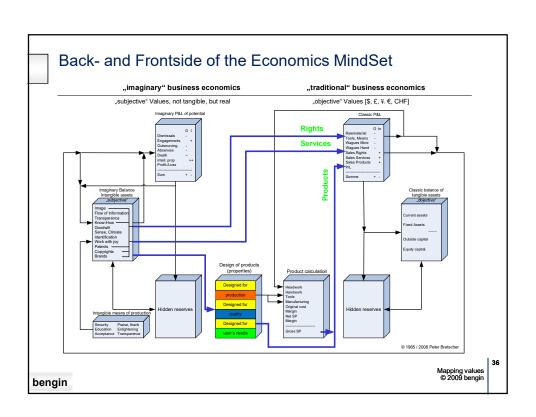
An **enhanced economic paradigm** (in that intangibles and subjective values will count) will **improve the reasoning and decision process** and in it's consequences will **enable a new dimension of wealth**.

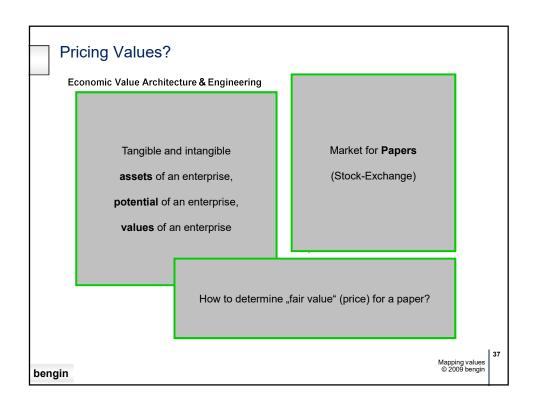
Three samples of influence we see at that time:

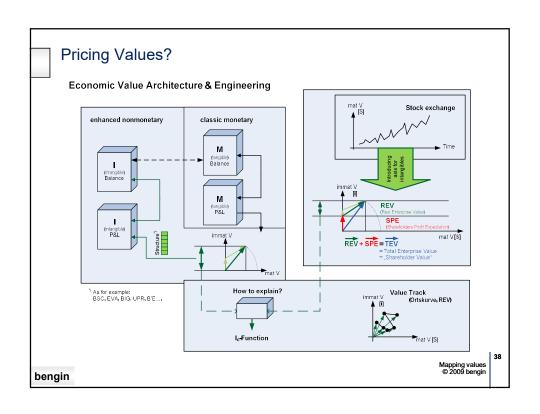














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