

# Thoughts for a complementary view to the Classic Economic Mindset

Peter Bretscher © 2012

[www.bengin.com](http://www.bengin.com)

[www.insede.org](http://www.insede.org)

[Google+](#)

- Documents are part of «Business Engineering Systems», registered Copyright TXu 512 154
- Consulting license No. CG01120612 (for enduser).  
(Attendees ickc June 12, 2012)
- Updates and further information see:  
[http://bengin.net/12/ickc\\_e.htm](http://bengin.net/12/ickc_e.htm)

# Agenda

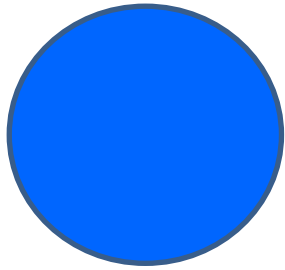
- Peter Bretscher  
Practical need for model that integrates intangibles
- Findings & Project
- 3 Levels of Enterprise
- Values, Visuals & Framework beyond Smith & Co
- Links

**PETER BRETSCHER,  
PRACTICAL NEED FOR MODEL THAT  
INTEGRATES INTANGIBLES**

- Professional Mechanician (Handwork)
- Professional Engineer (Mindwork)  
(R&D, Production, Marketing, IP-Rights,  
transdisciplinary trouble-shooting, special tasks....)
- **Δ between real live and (business) theory**
- Technology & Knowhow Transfer
  - no books, no theory, no best practise....
  - need for inventing a model realize T'Transfer  
(one that includes knowledge and other intangibles)

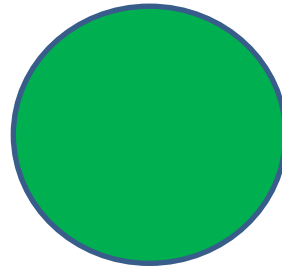
# Obstacles – why?

**World 1**



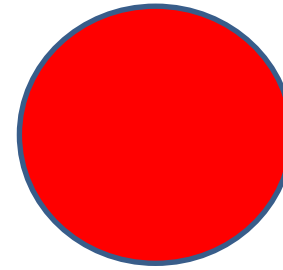
**real  
reality**

**World 2**



**experienced  
reality**

**World 3**



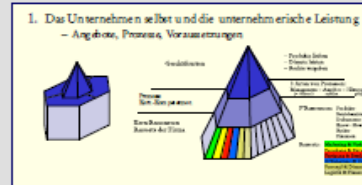
**explained  
reality**

# **FINDINGS & PROJECT**

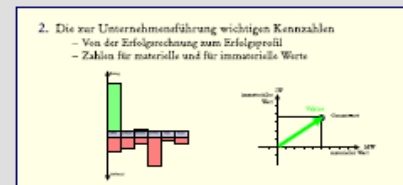
# 1. Bottom up structuring reality, 3D-Models

# 2. Metrics that enables quantifying subjective dimension of value

## 1. Strukturieren



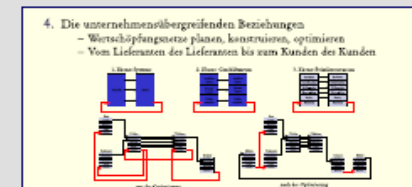
## 2. Quantifizieren



## 3. Orientieren



## 4. Optimieren





# Four main views

### 1. Structuring the Elements of a Corporation

Three levels: Offerings, Processes, Prerequisites

- Type of Business
  - Products / Goods
  - Services
  - Rights / Licences
- Processes
  - 3 types of processes: Management - Offerings - Background (= "Leading")
  - creating
  - fostering
- Departments of enterprise Primary-Resources
  - Primary-Resources: Products, BusinessMeans, Documents, Know-How, Rights, Finance
  - Departments: Marketing & Sales, Research & Development, Fabrication & Procurement, Quality & Environment, Personnel & Services, Logistic & Finance

### 2. Quantifying means (numbers and indicators)

- from P&L account to the P&L profile
- numbering system for tangible and intangible values

### 3. Development of Enterprise (Strategies, options....)

- Market-oriented (outside-in) and offerings-oriented (inside-out)

### 4. Closed Loop Business Relations

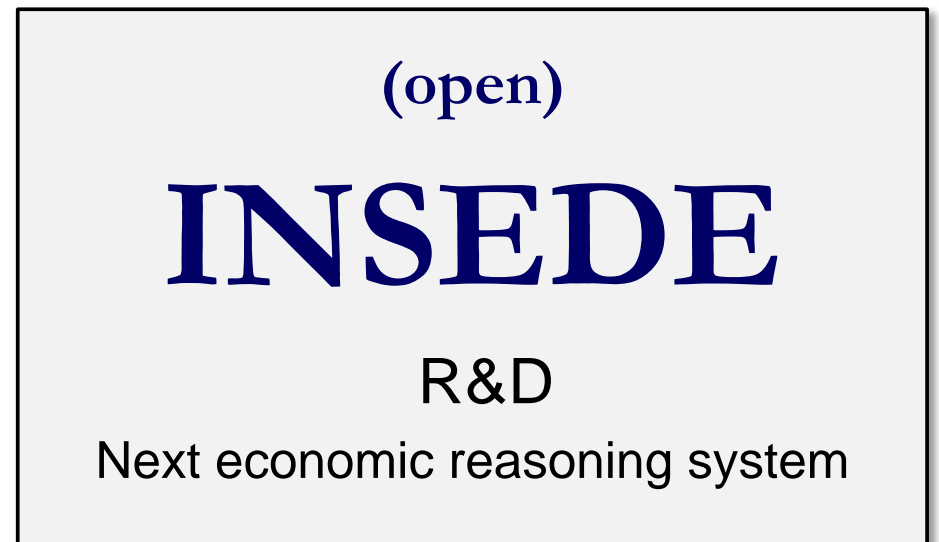
- planning, design, optimize Value Adding Net [VAN], beyond borders
- from the supplier of the supplier to the customer of the customer

- Economic theory is a product, a tool that no longer fits the needs.
- Task  
Develop a new theory from bottom up that includes (tangible and intangible assets) and that makes subjective valuation quantifiable.

- Huge preliminary work  
3D Models, 300 GB  
Registered Copyright

INSEDE

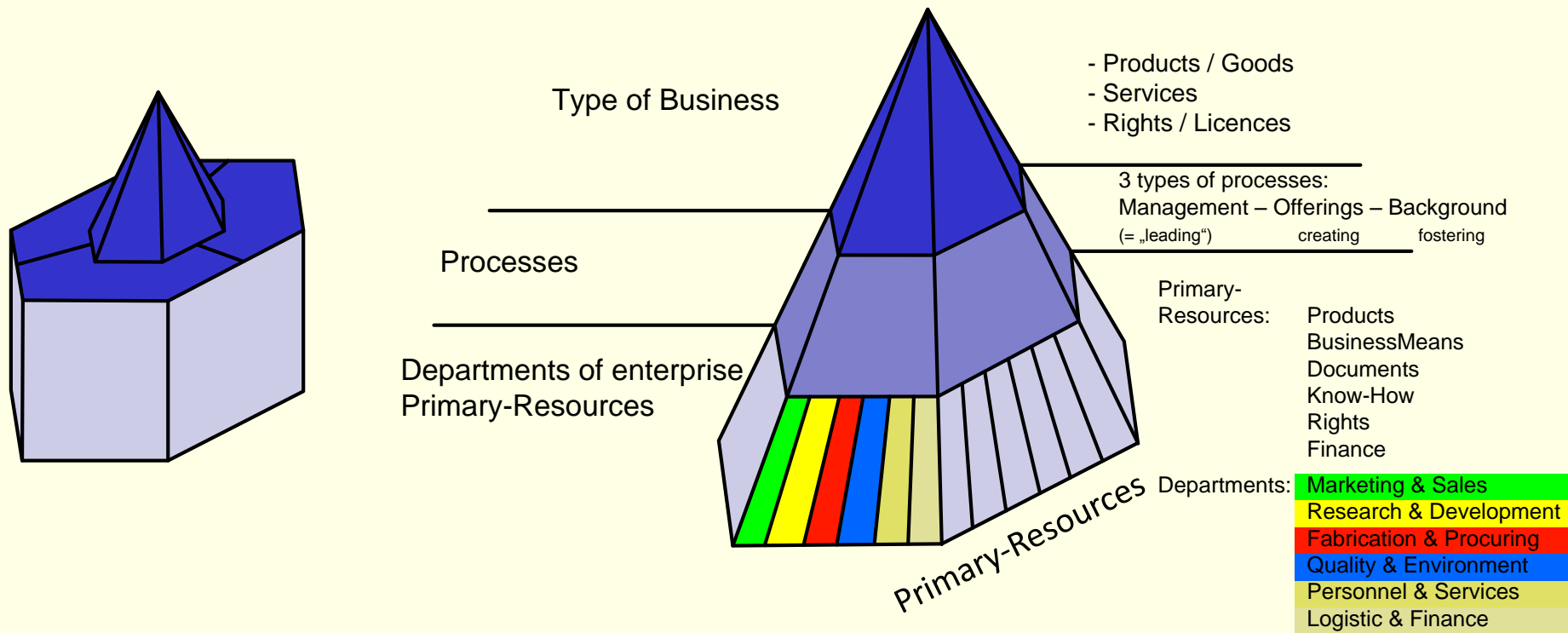
(open) Institute for Sustainable Economic Development



# **3 LEVELS OF ENTERPRISE**

# 1. Structuring the Elements of a Corporation

Three levels: Offerings, Processes, Prerequisites

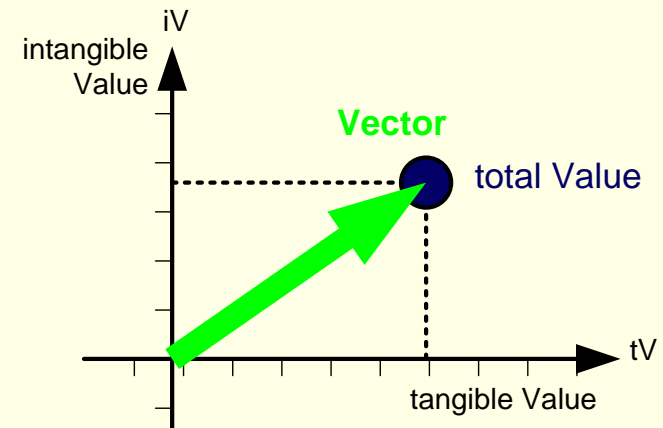
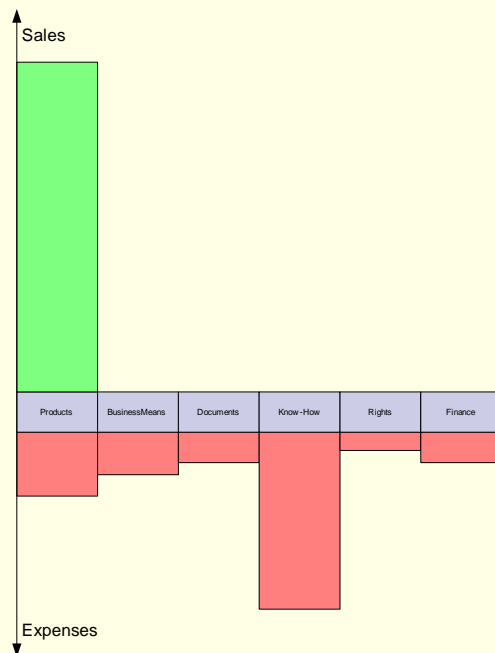


# **Vector Type 1**

**VALUES, VISUALS & FRAMEWORK  
BEYOND SMITH & CO**

## 2. Quantifying means (numbers and indicators)

- from P&L account to the P&L profile
- numbering system for tangible and intangible values



# Vector Type 1

Enterprise

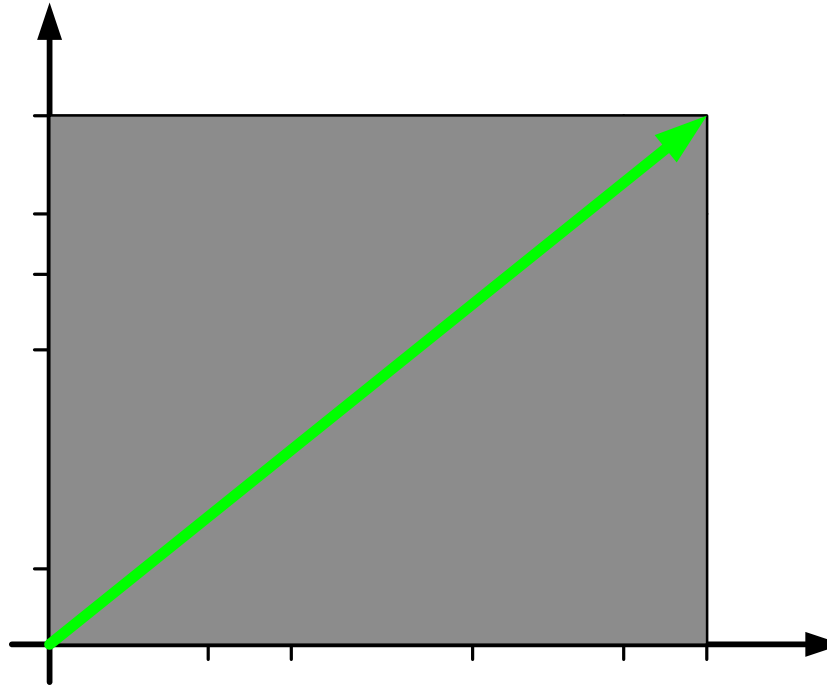
## Metrics

Quantitative metric

Objective metric

Qualitative metric

Subjective metric



## Units

gallons

%

i\$

pounds

\$

squaremeter

meter

sec

manhour

Number of pieces

# Vector Type 1

## Clusters

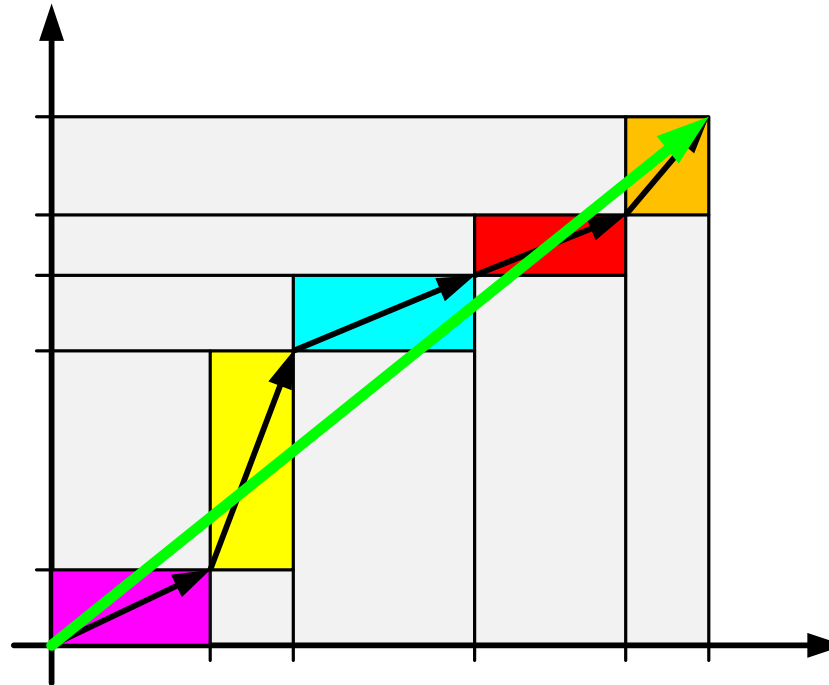
### Metrics

Quantitative metric

Objective metric

Qualitative metric

Subjective metric



Functional departments

Business units

Countries

Products

Sales regions

Balanced Scorecard

### Units

gallons

%

i\$

pounds

\$

squaremeter

meter

sec

manhour

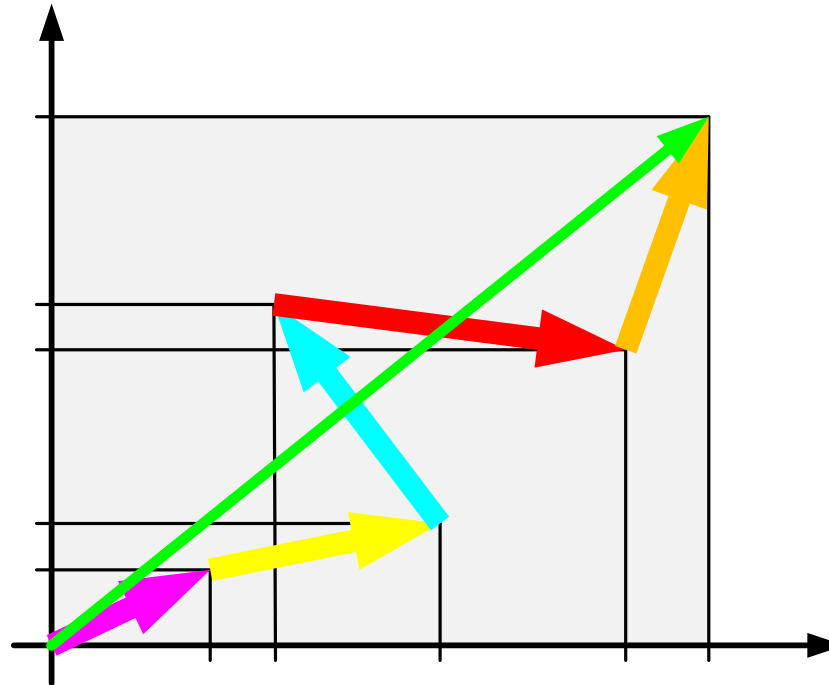
Number of pieces



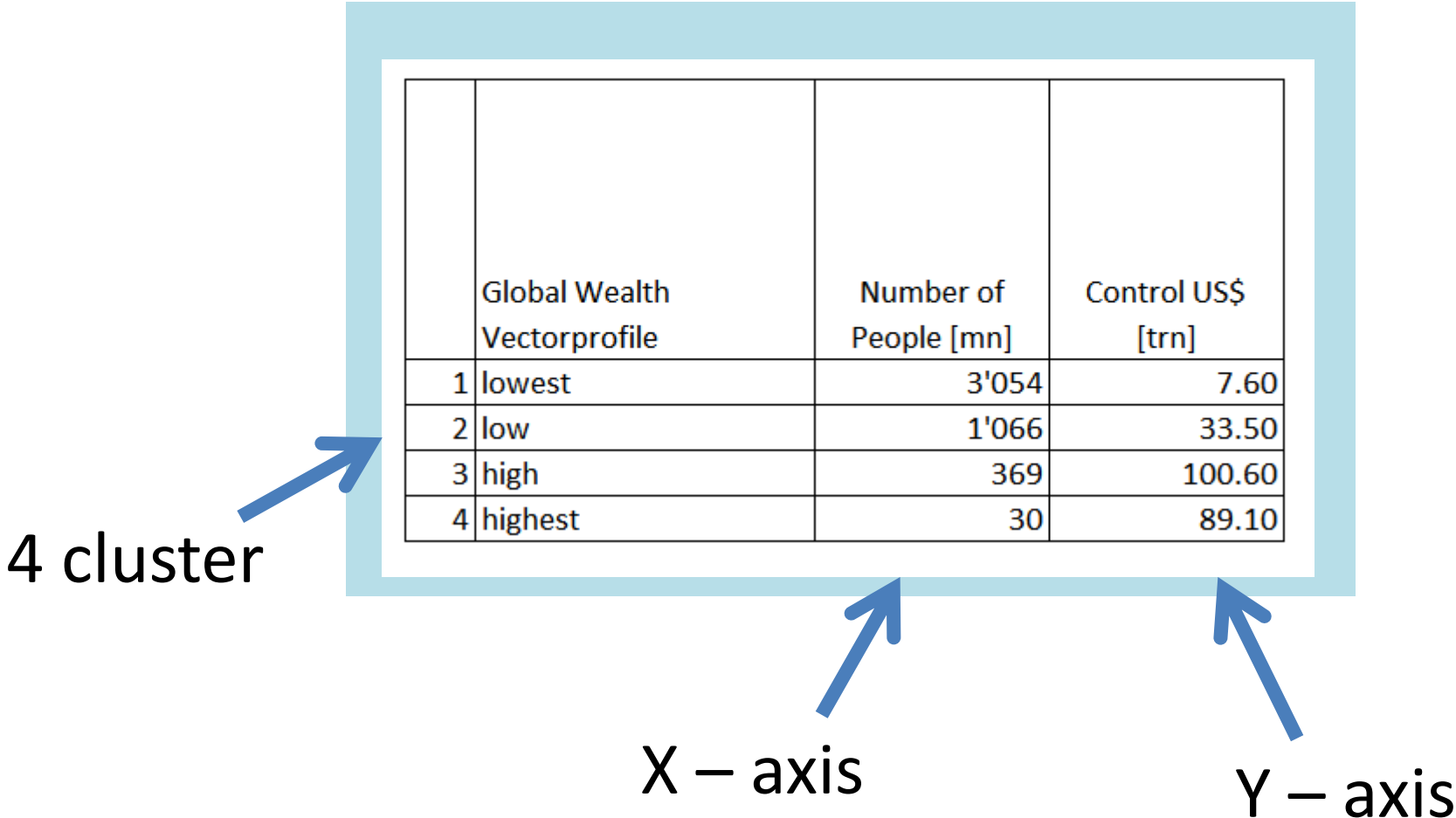
# Vector Type 1

No rectangle

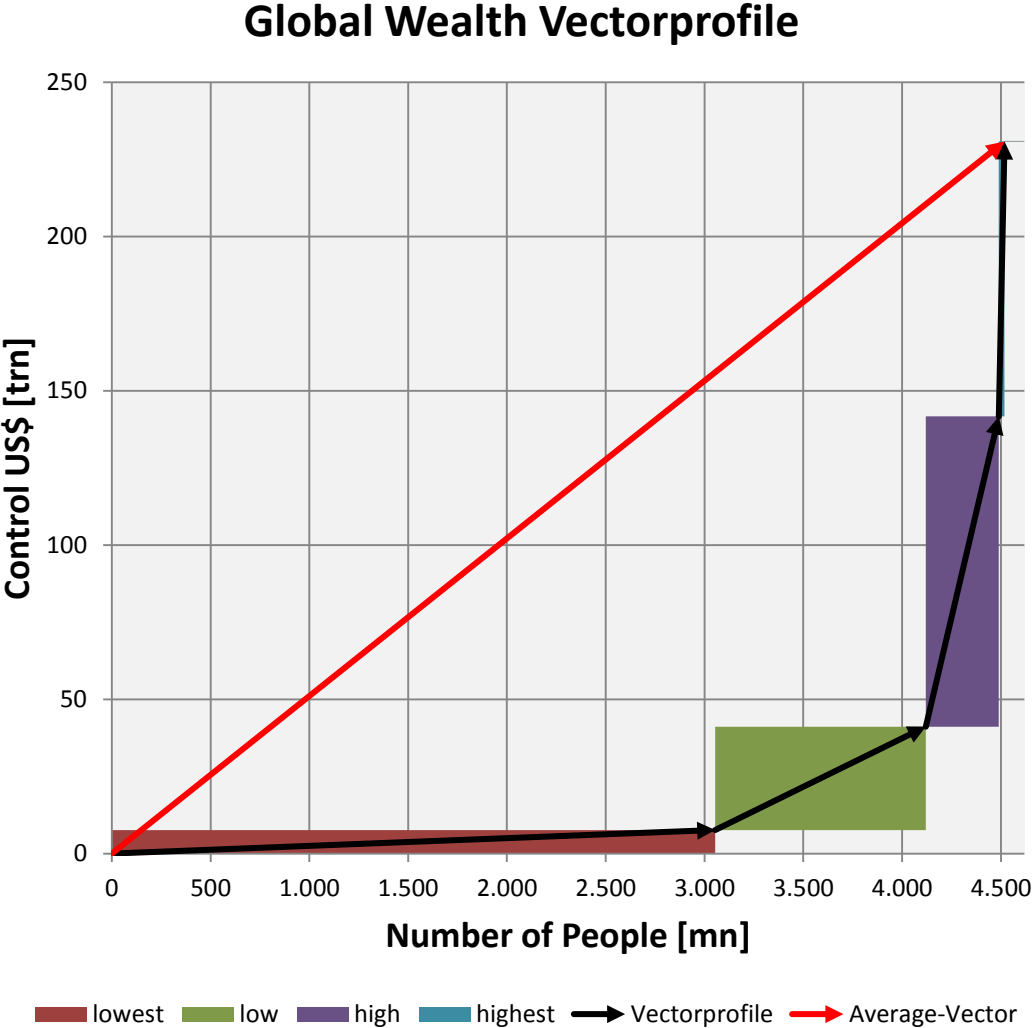
For more complex visualizations  
For comparison with other vector profiles



# Vector Type 1



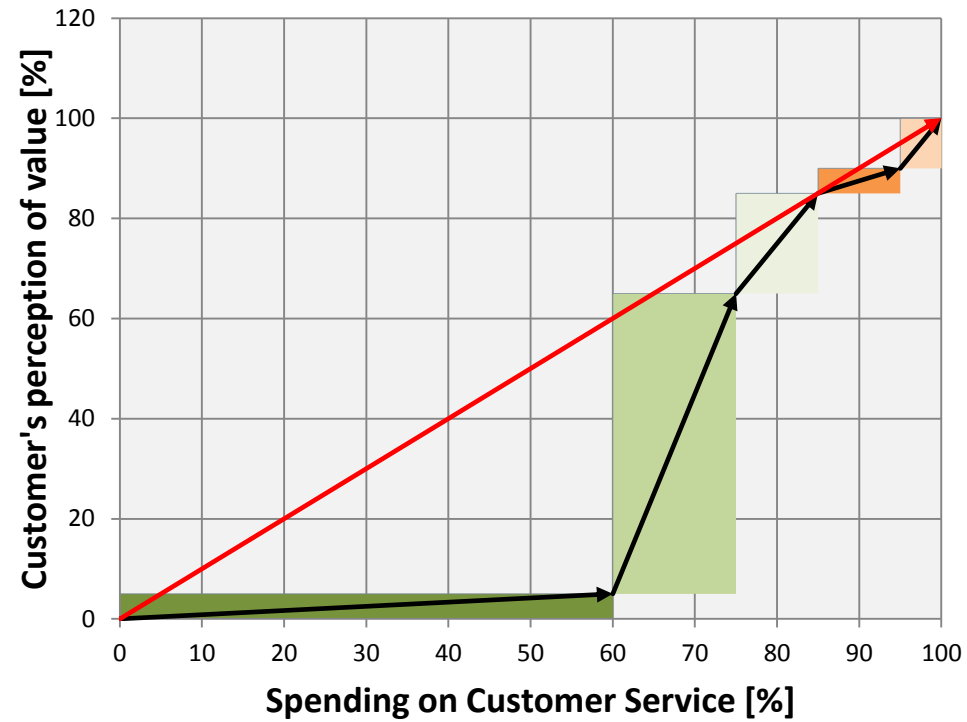
# Vector Type 1



[http://bengin.net/beta/04\\_global\\_wealth\\_vector\\_cs\\_e.xlsx](http://bengin.net/beta/04_global_wealth_vector_cs_e.xlsx)

# Vector Type 1

## Cost-Value Vector

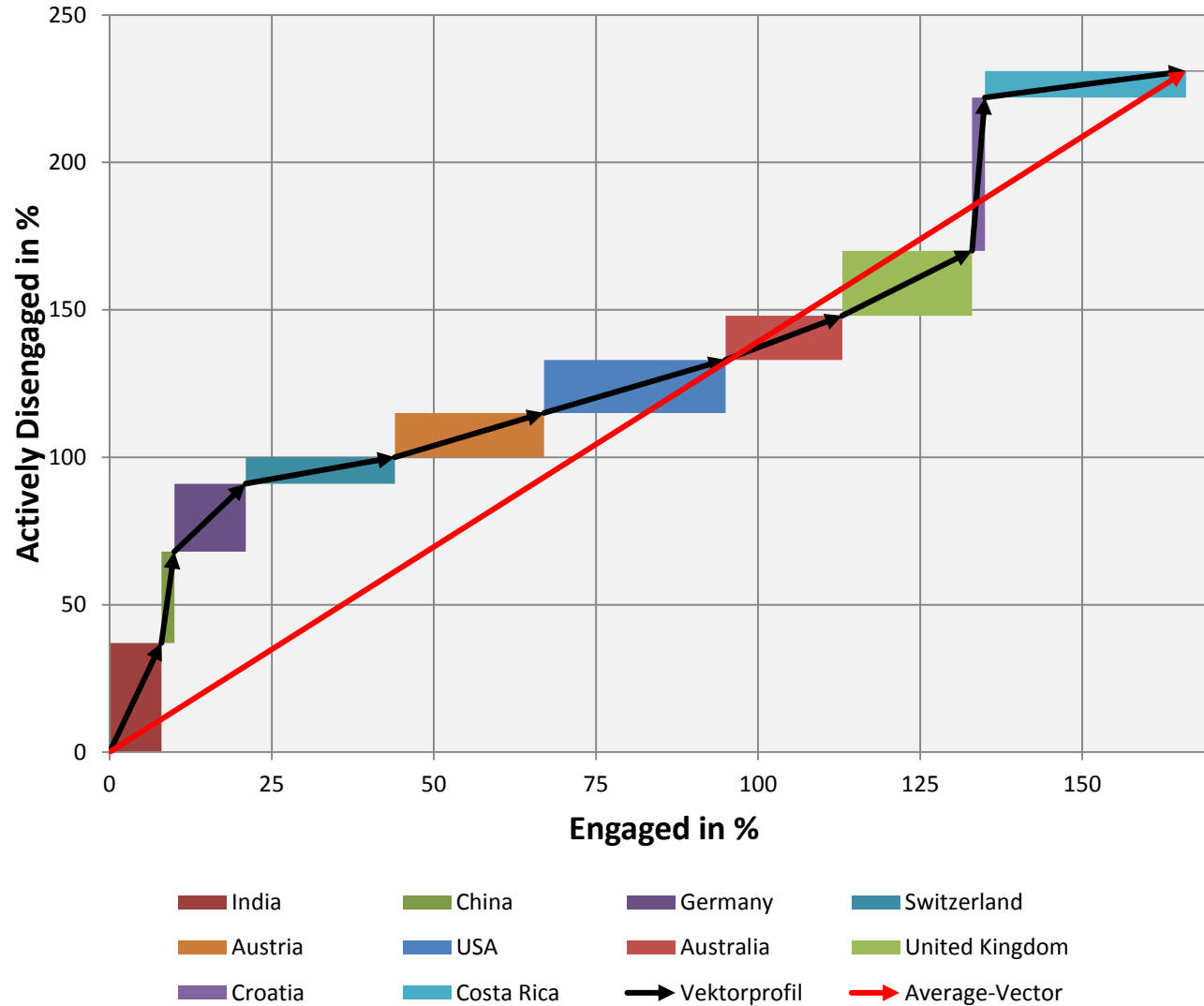


- Manual availability
- Hotline support
- Help locate repair service
- Manual updates
- Respond to letters
- Vektorprofil
- Average-Vector

[http://bengin.net/beta/05\\_cost\\_value\\_vector\\_e.xlsx](http://bengin.net/beta/05_cost_value_vector_e.xlsx)

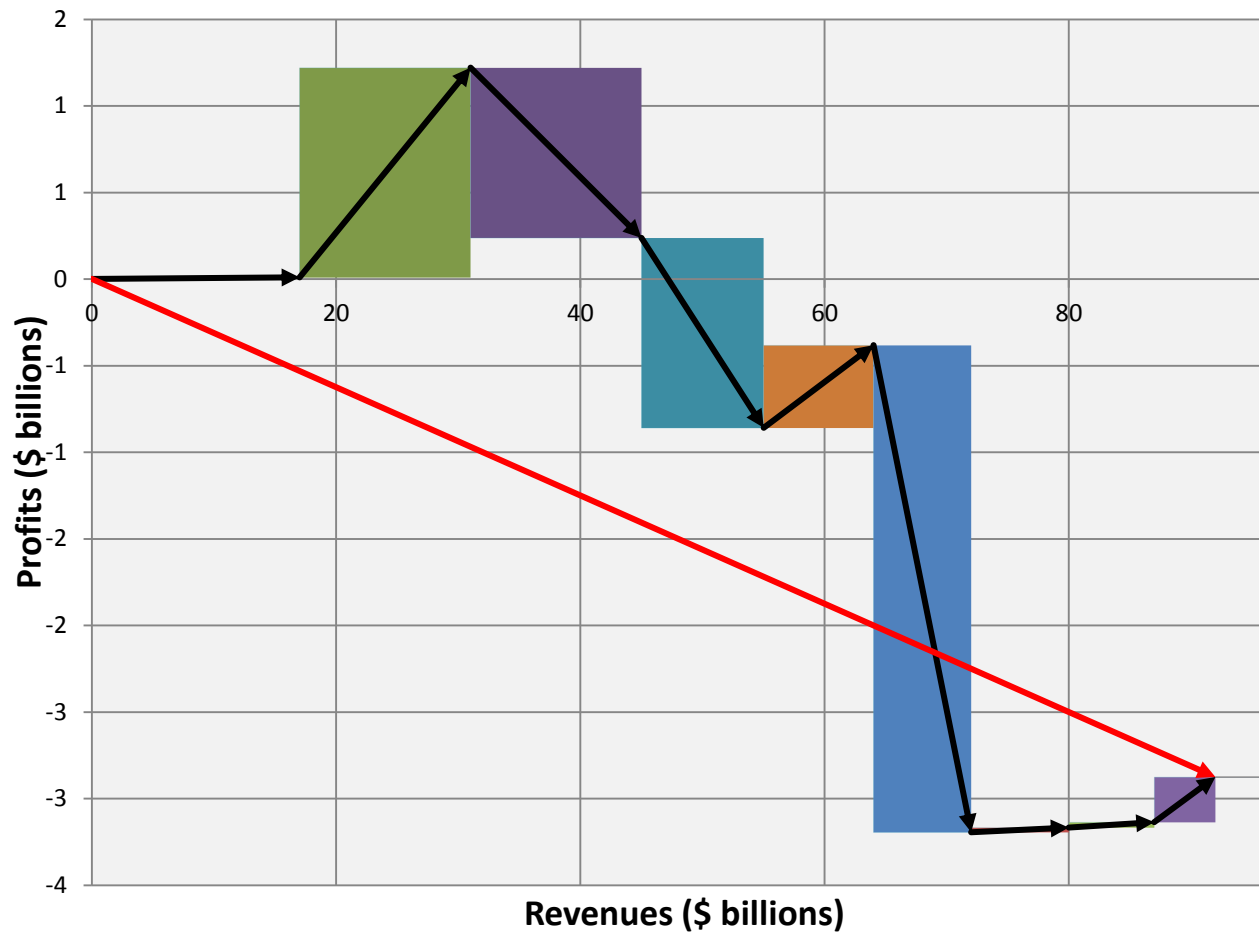
# Vector Type 1

## State of Global Workplace (Country-Level Engagements)



# Vector Type 1

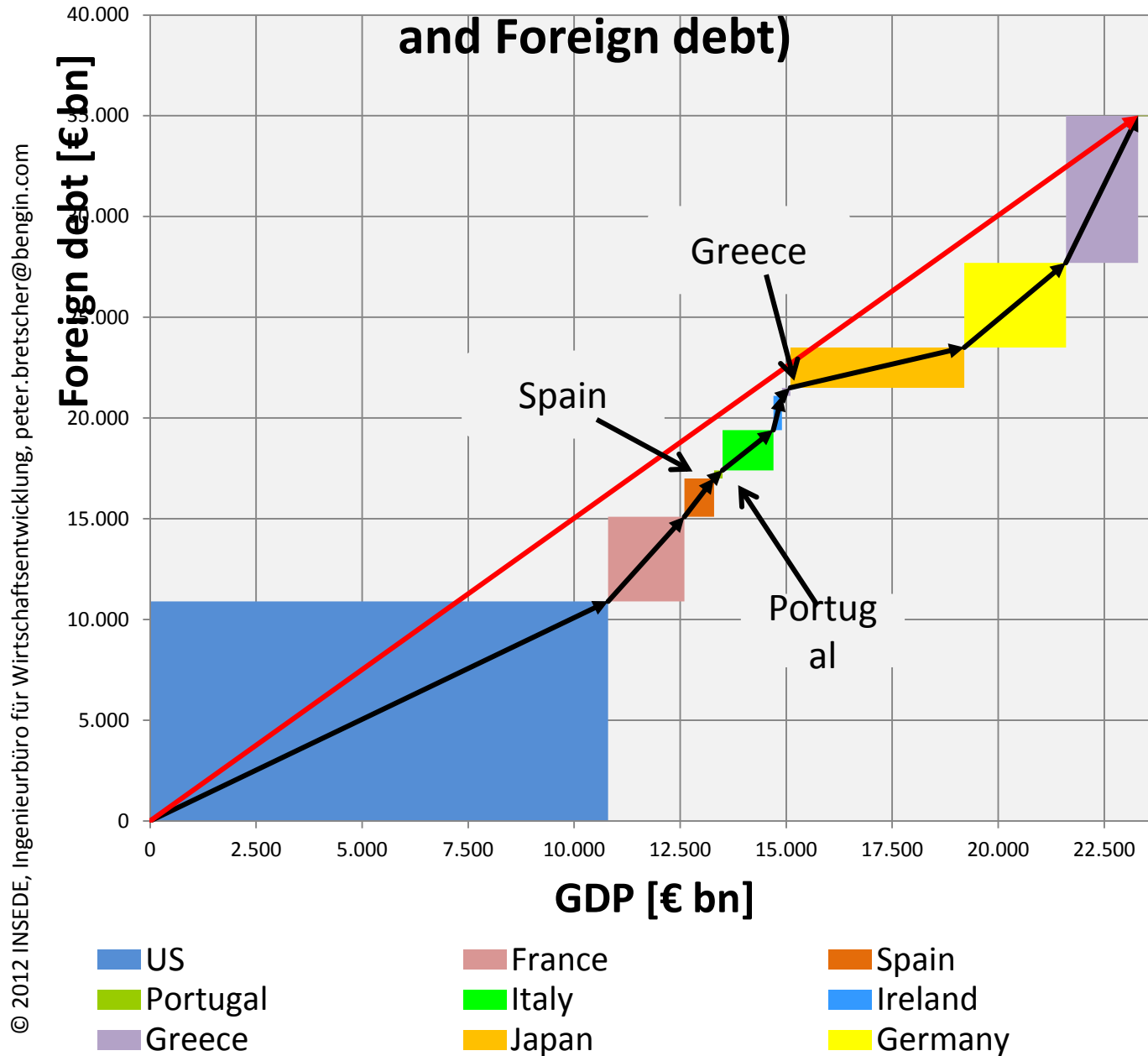
## First nine of Fortune 500 (Energy 2011)



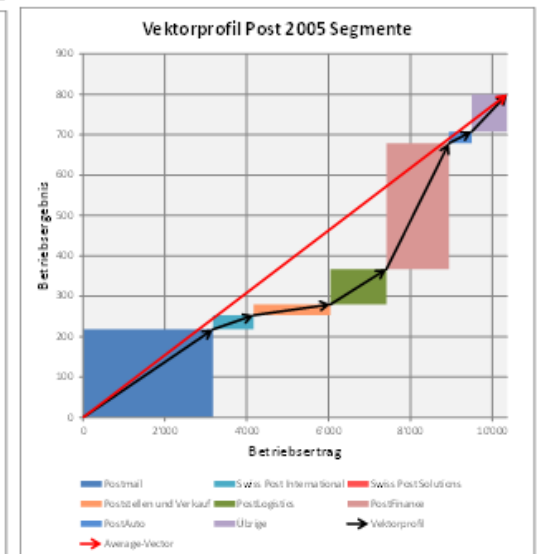
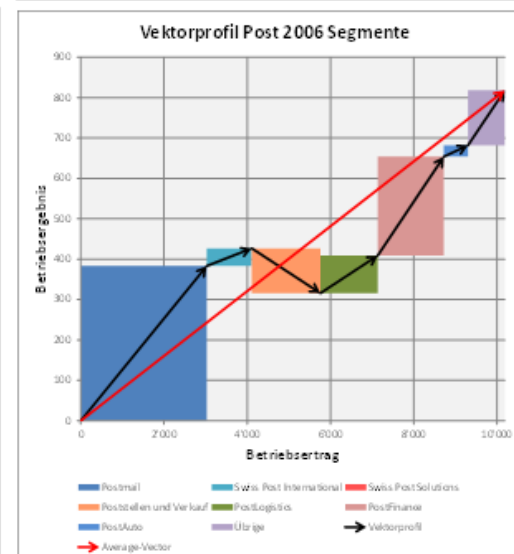
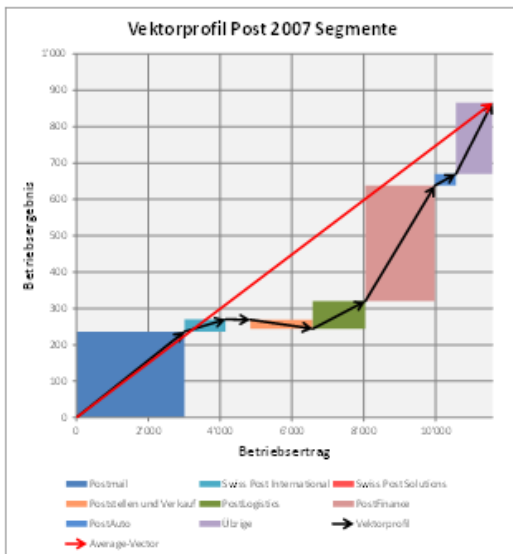
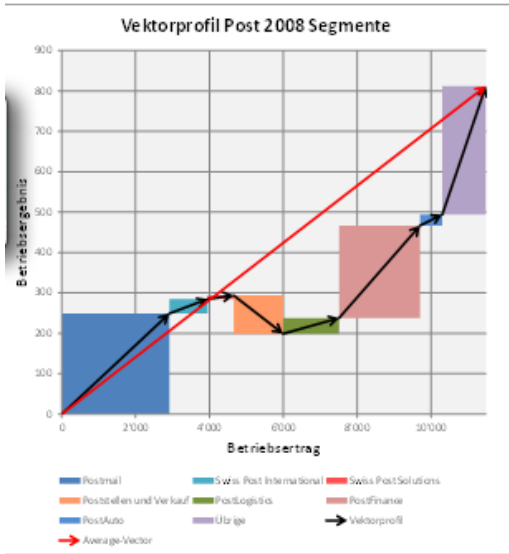
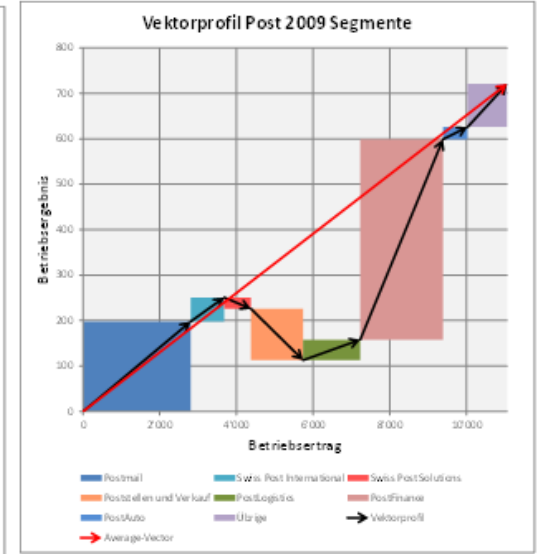
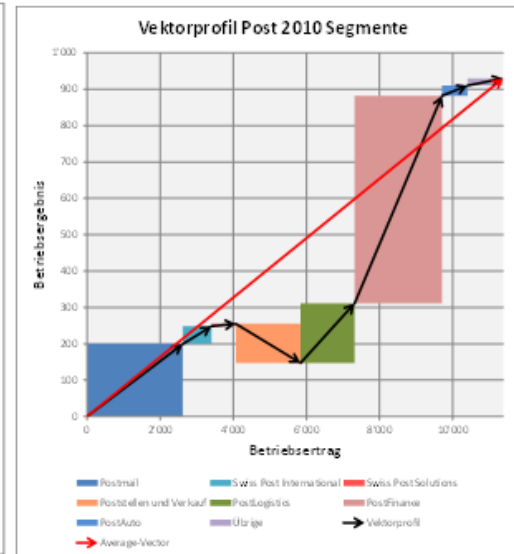
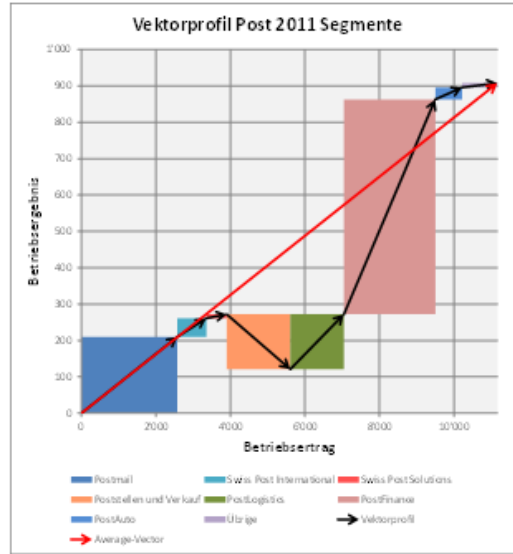
- AES
- American Electric Power
- Constellation Energy
- Williams
- NRG Energy
- Energy Future Holdings
- Global Partners
- Calpine
- UGI
- none
- Vektorprofil
- Average-Vector

# Vector Type 1

## Vector Profile Eurozone, US & Japan (GDP and Foreign debt)



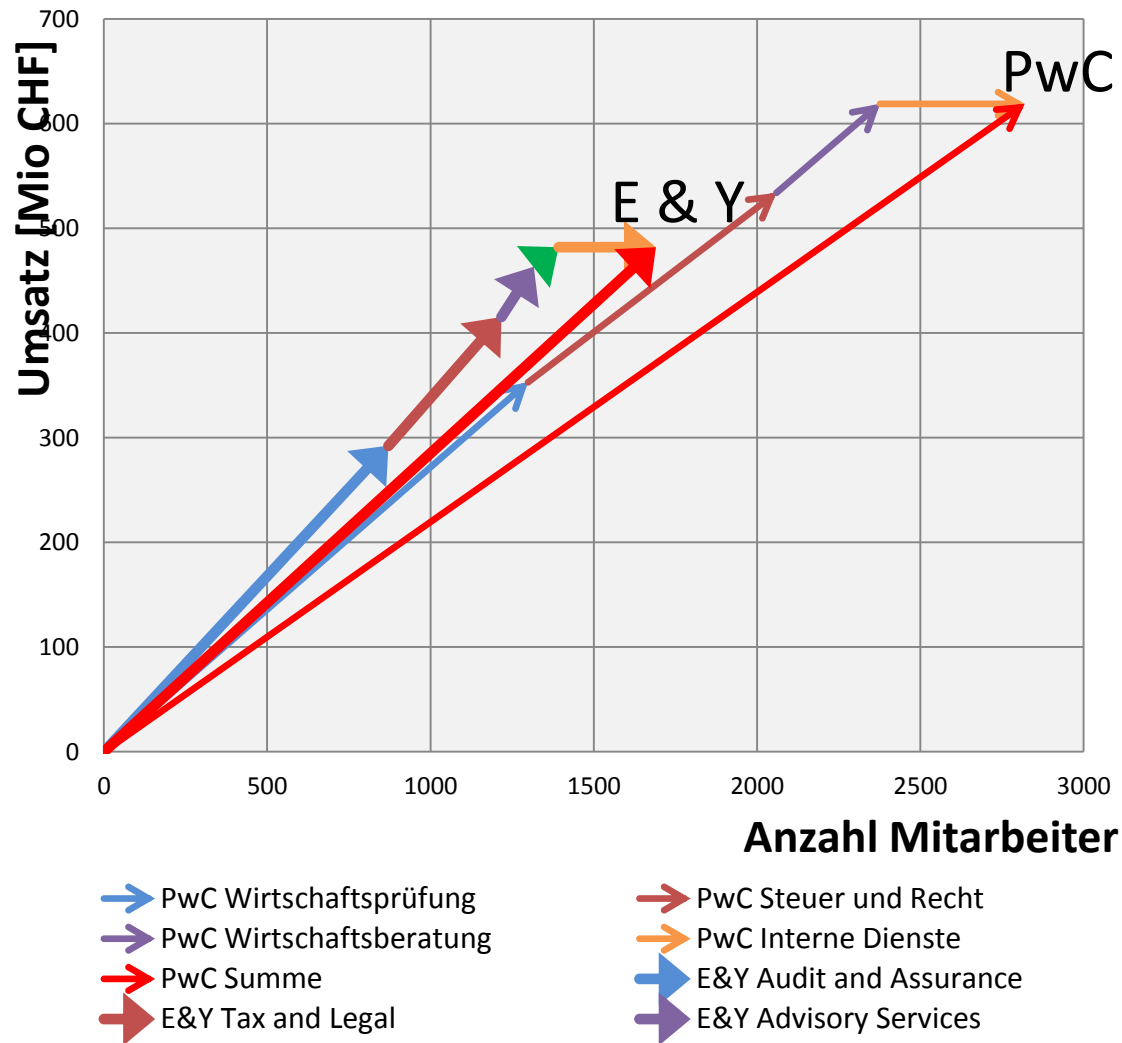
# Vector Type 1





# Vector Type 1

## Performancevector: Vergleich PwC 2011 mit Ernst & Young 2006



(C) 2011 peter.bretscher@bengin.com www.performancevector.net

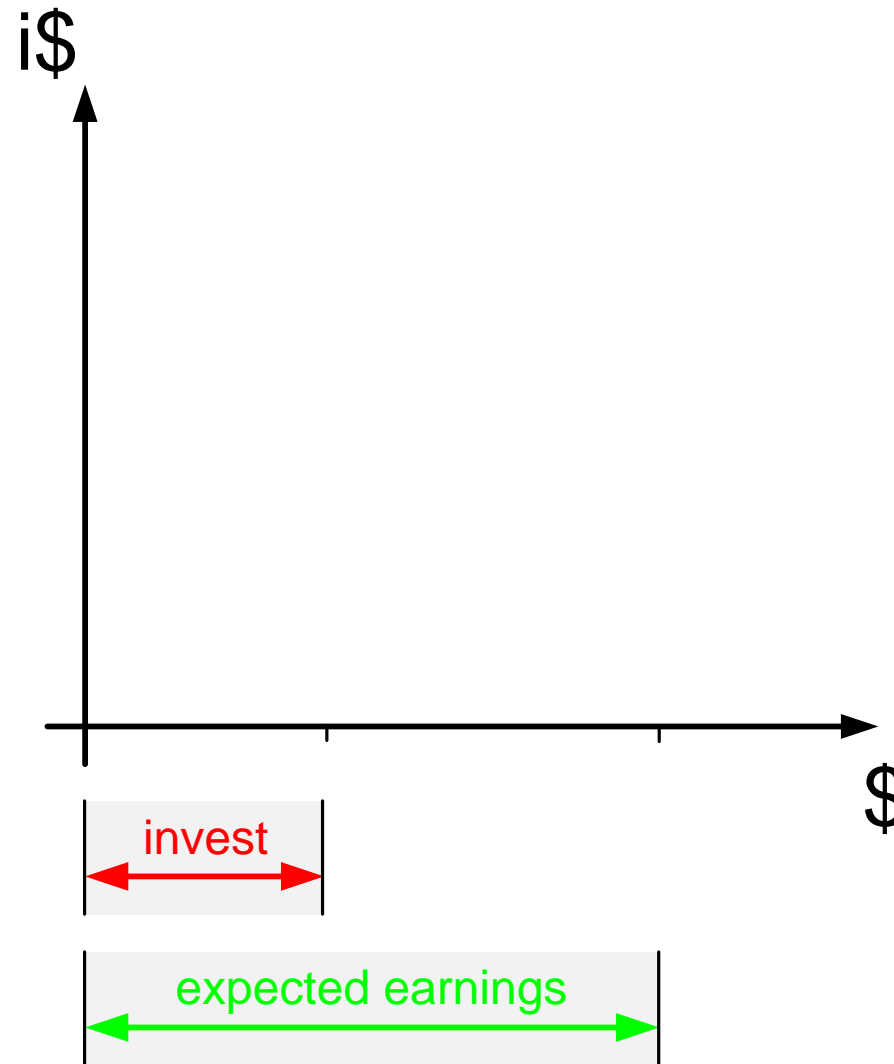
[http://bengin.net/beta/pwc\\_ey\\_2\\_performancevector\\_d.xlsx](http://bengin.net/beta/pwc_ey_2_performancevector_d.xlsx)

## **Vector Type 2**

**VALUES, VISUALS & FRAMEWORK  
BEYOND SMITH & CO**

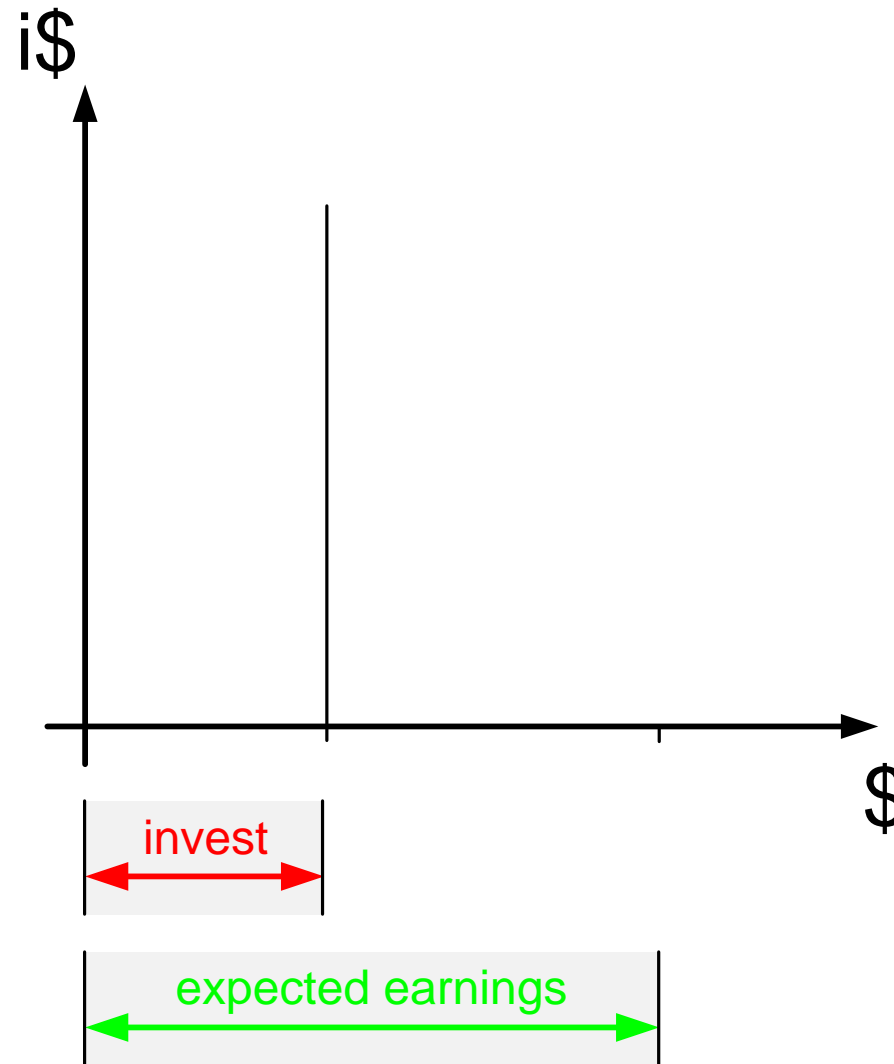
# Vector Type 2

## Business potential of a project



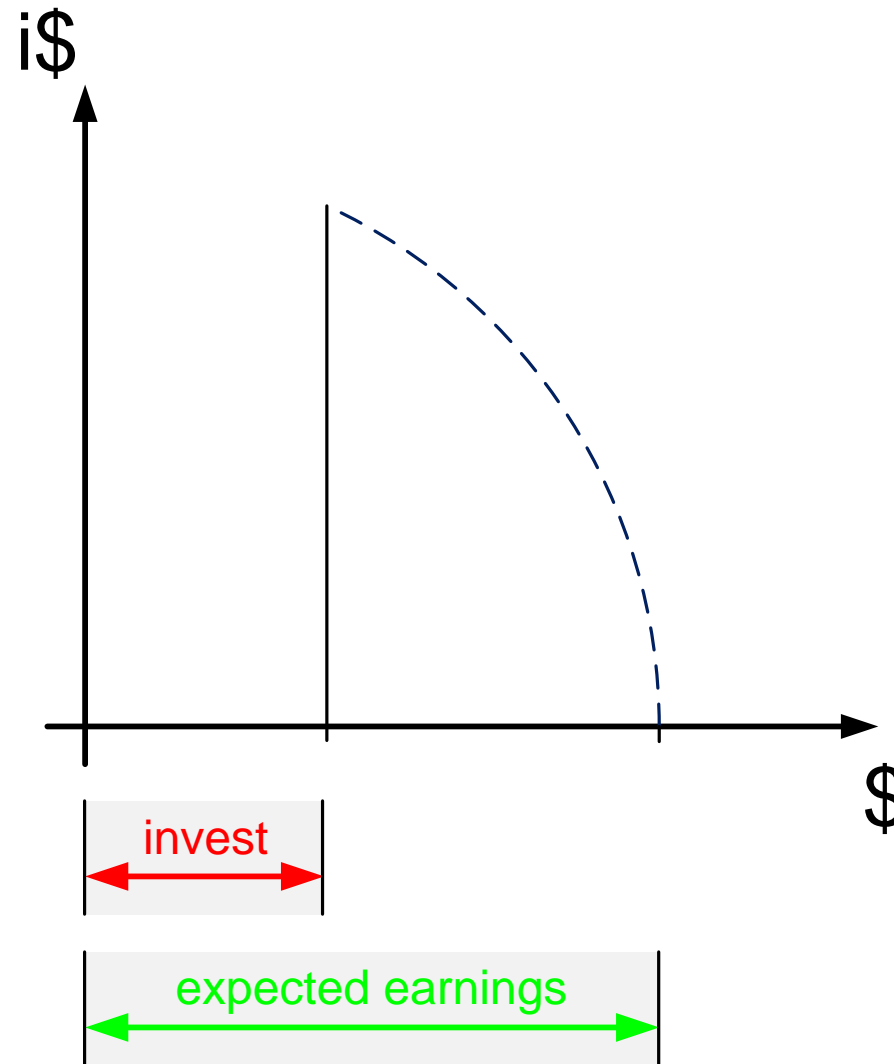
# Vector Type 2

# Business potential of a project



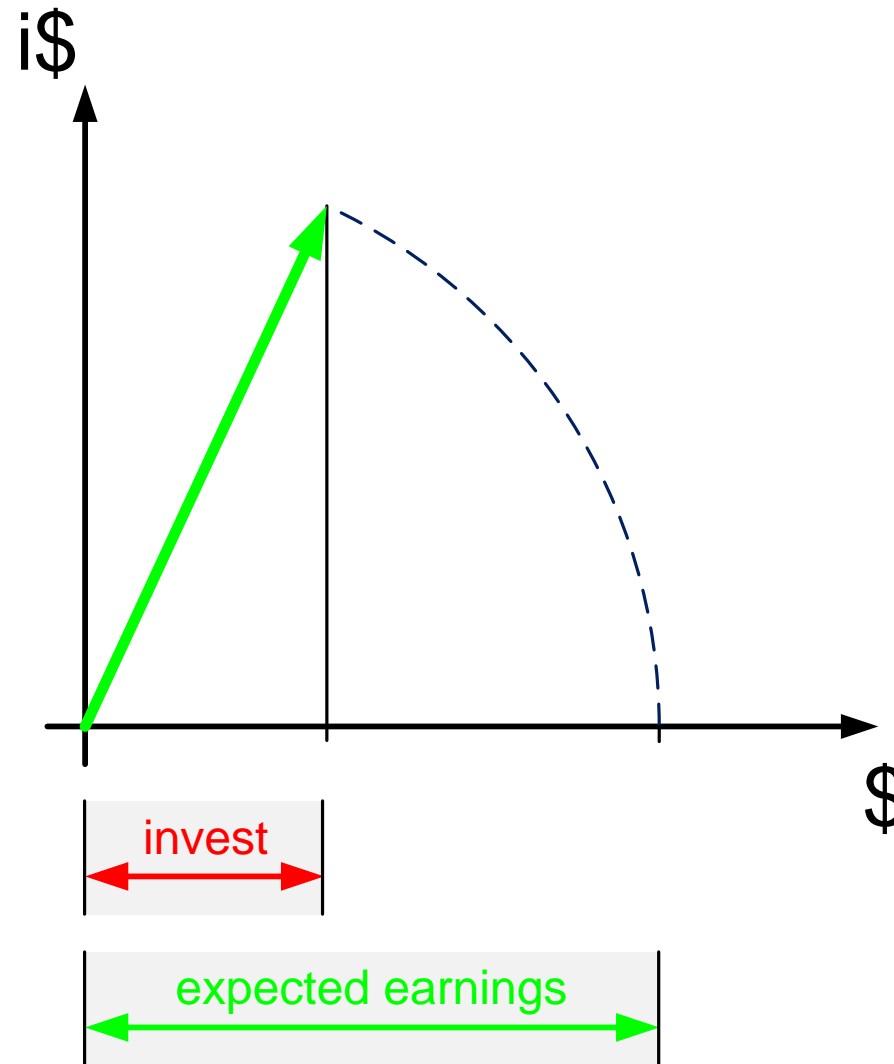
# Vector Type 2

# Business potential of a project



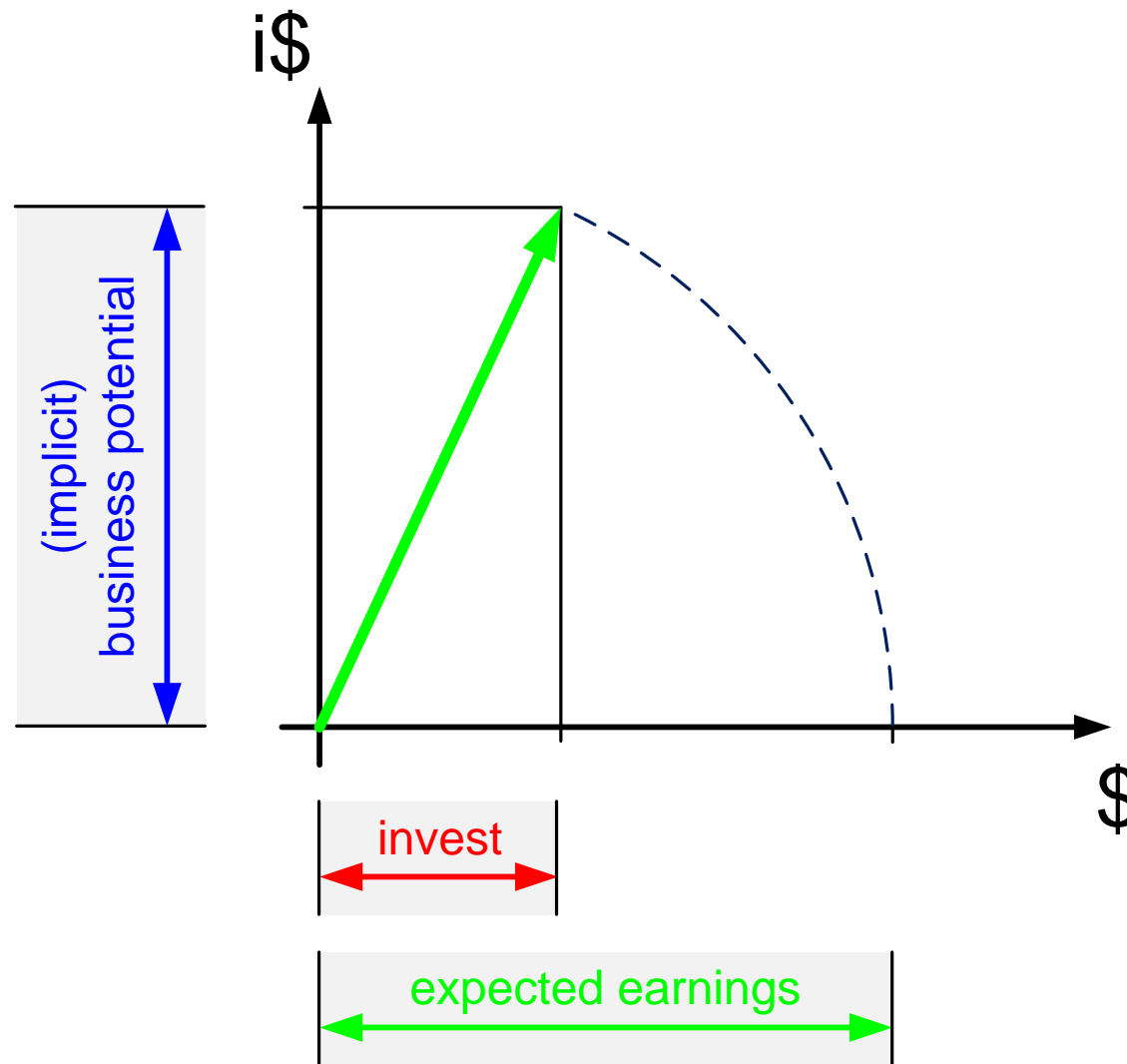
# Vector Type 2

# Business potential of a project



# Vector Type 2

# Business potential of a project

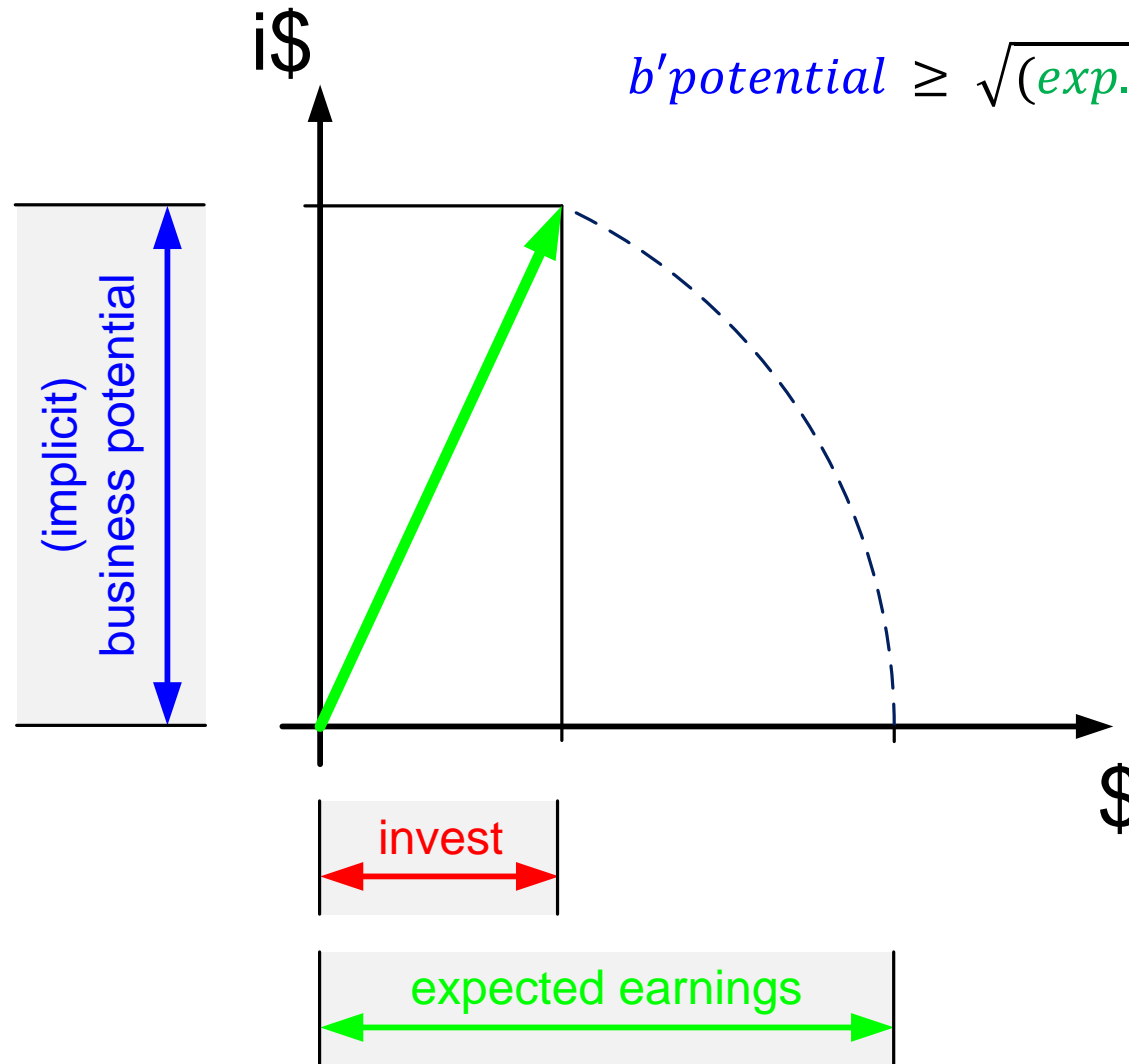


# Vector Type 2

## Business potential of a project

$$b'potential^2 \geq (exp.earnings)^2 - (invest)^2$$

$$b'potential \geq \sqrt{(exp.earnings)^2 - (invest)^2}$$

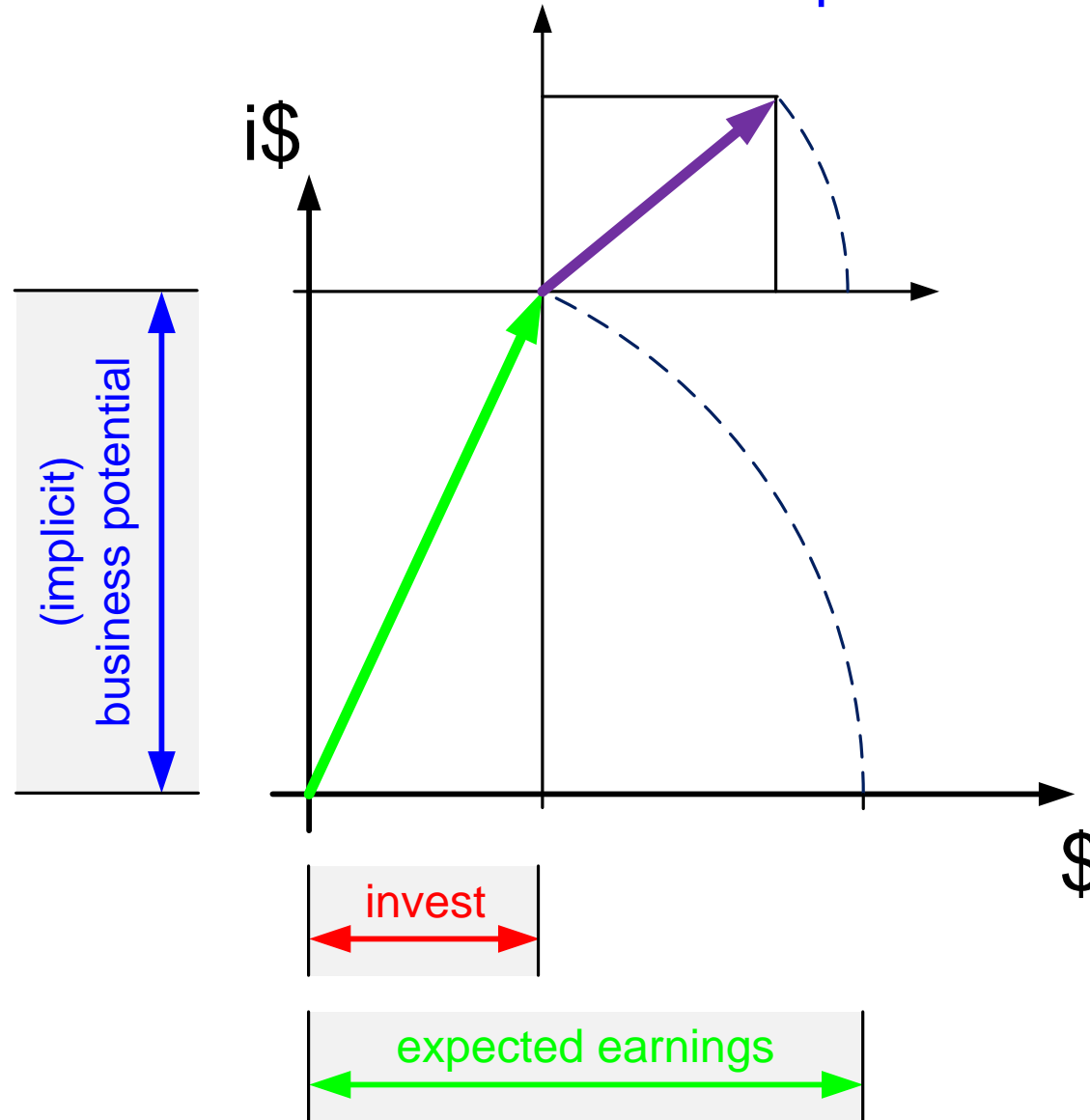




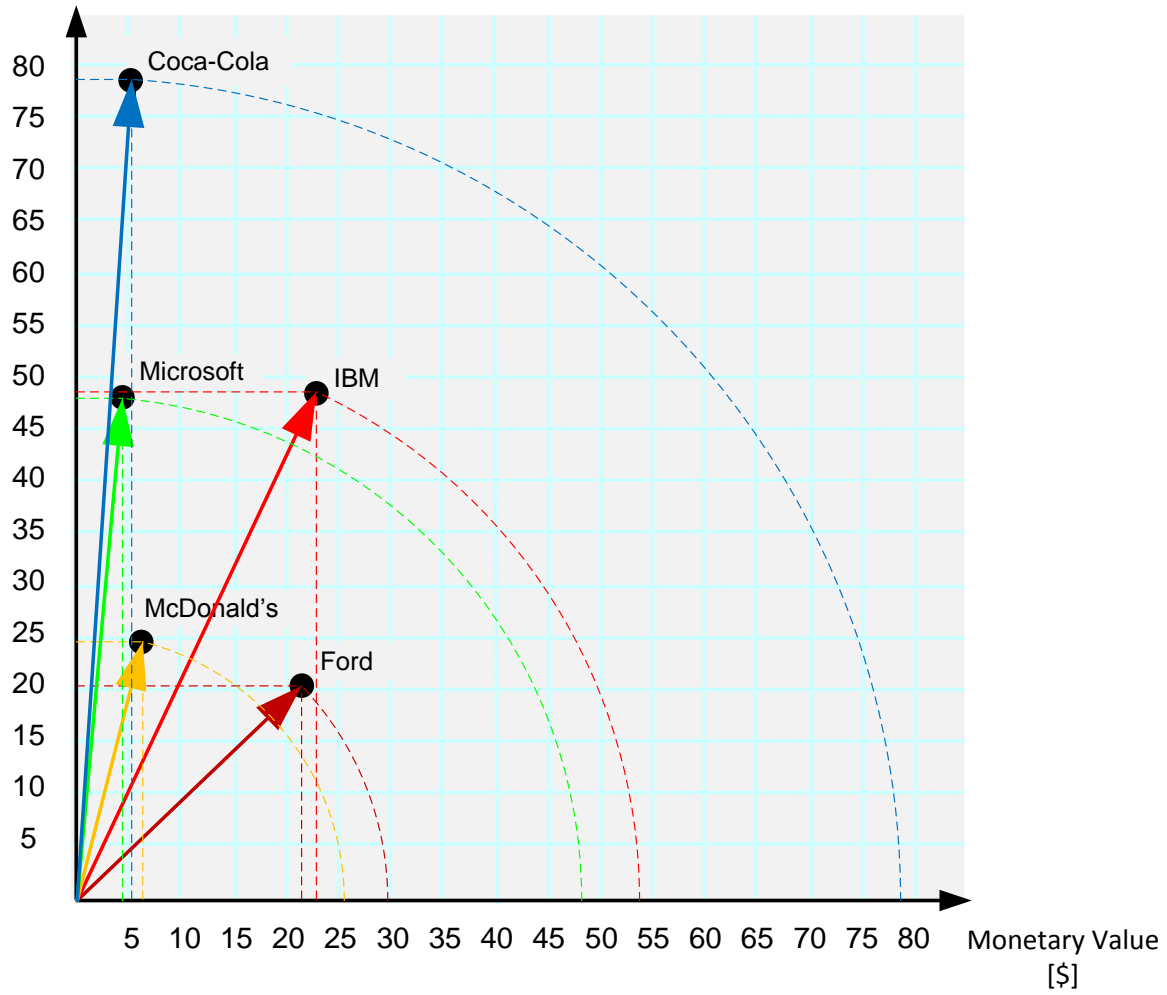


# Vector Type 2

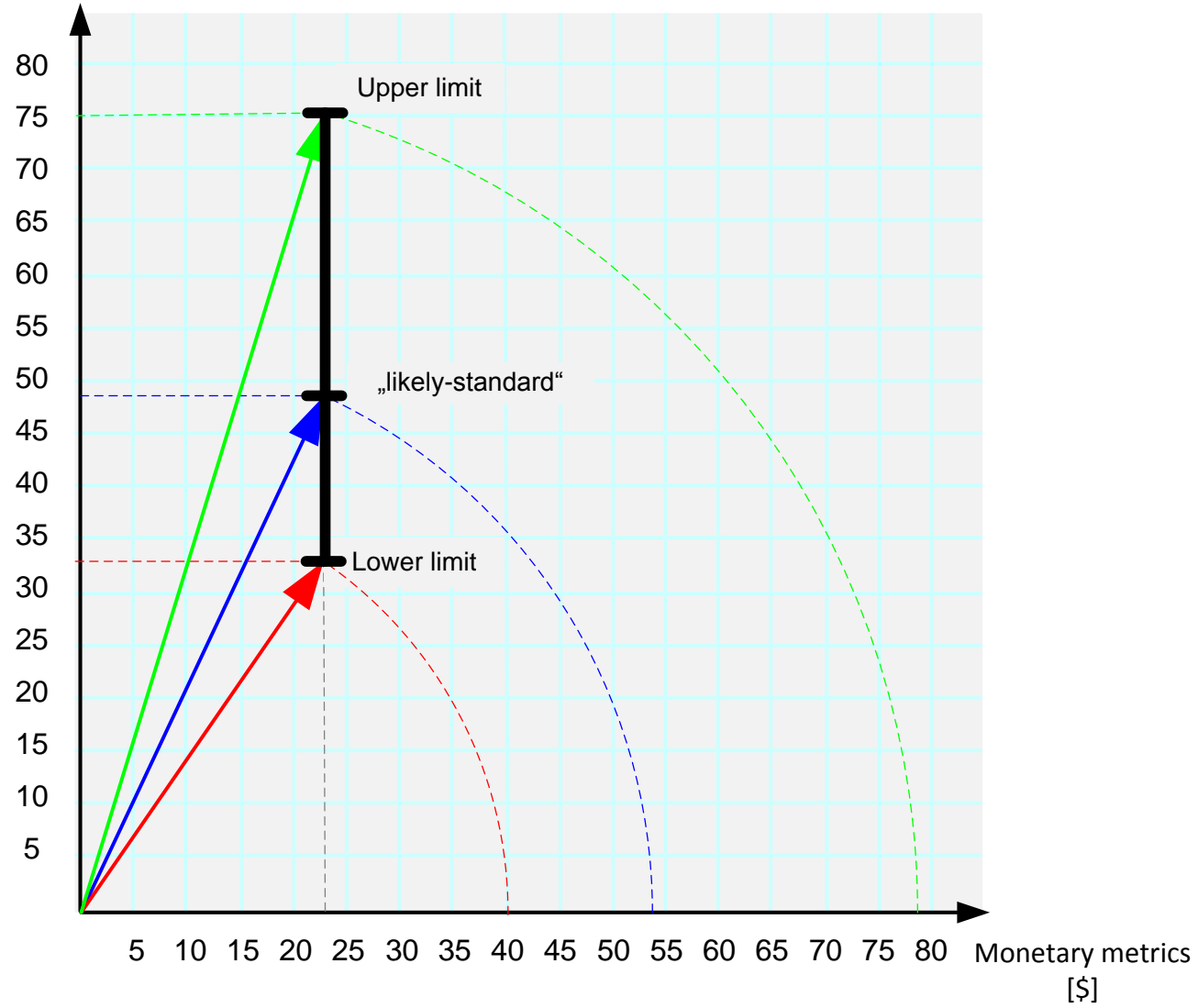
## Business potential of several projects



Imaginary / immaterial  
Value  
[i\$]



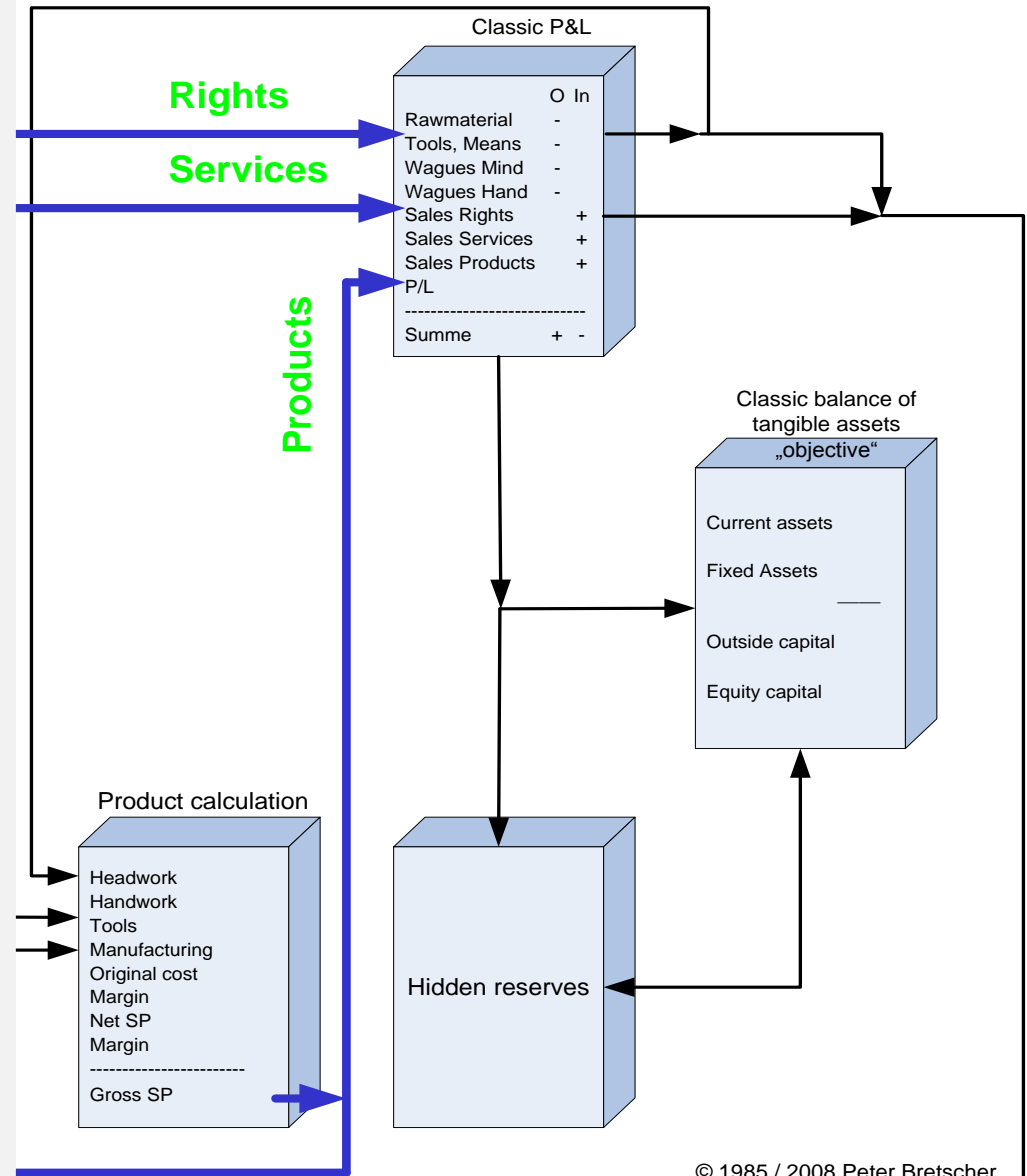
Standard  
Implicit Potential  
[i\$]



**WHAT TO MAKE WITH POTENTIAL**

# „traditional“ business economics

„objective“ Values [\$, £, ¥, €, CHF]



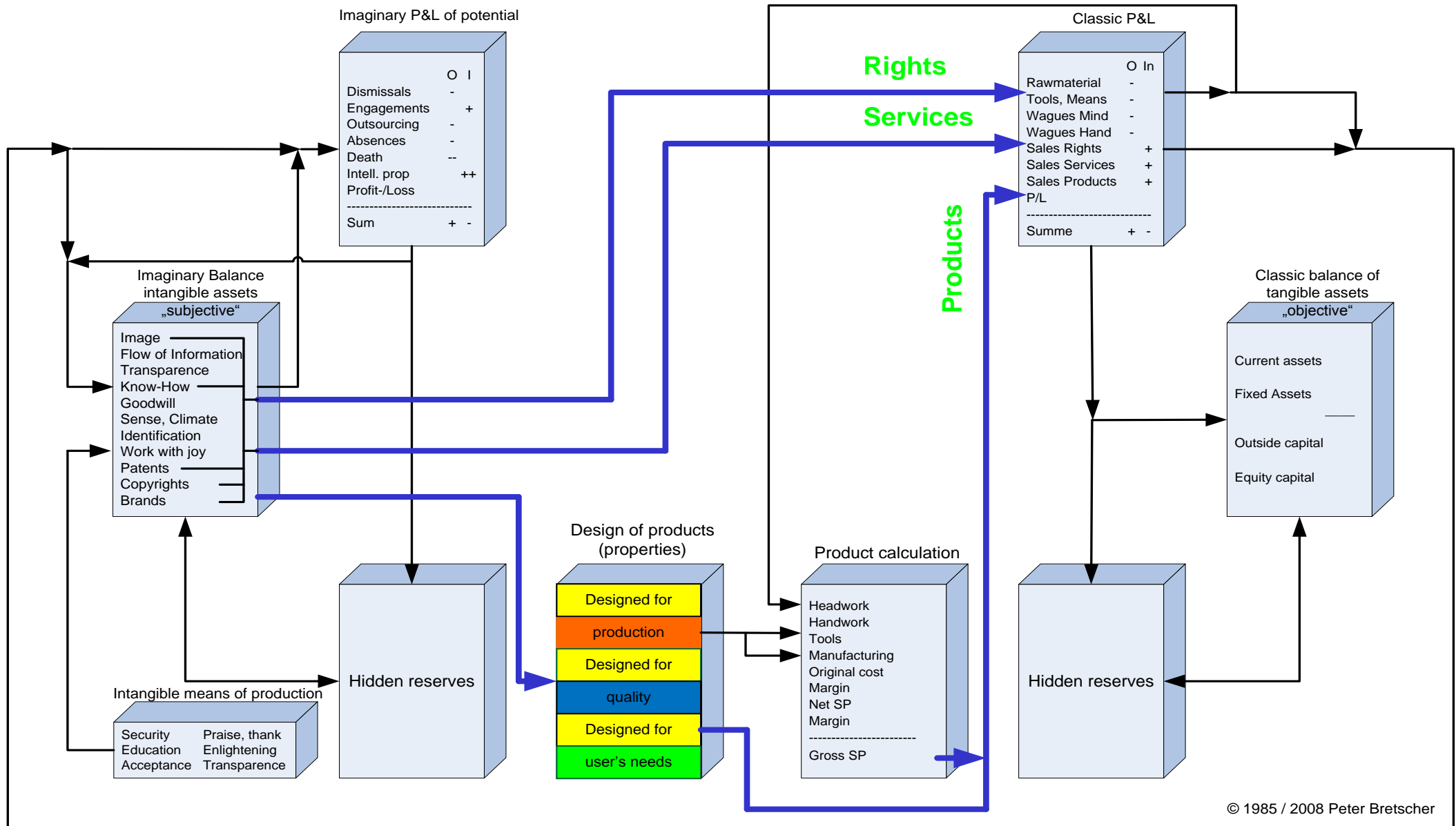
© 1985 / 2008 Peter Bretscher

# „imaginary“ business economics

# „traditional“ business economics

„subjective“ Values, not tangible, but real

„objective“ Values [\$, £, ¥, €, CHF]



© 1985 / 2008 Peter Bretscher

# Economic Value Architecture & Engineering

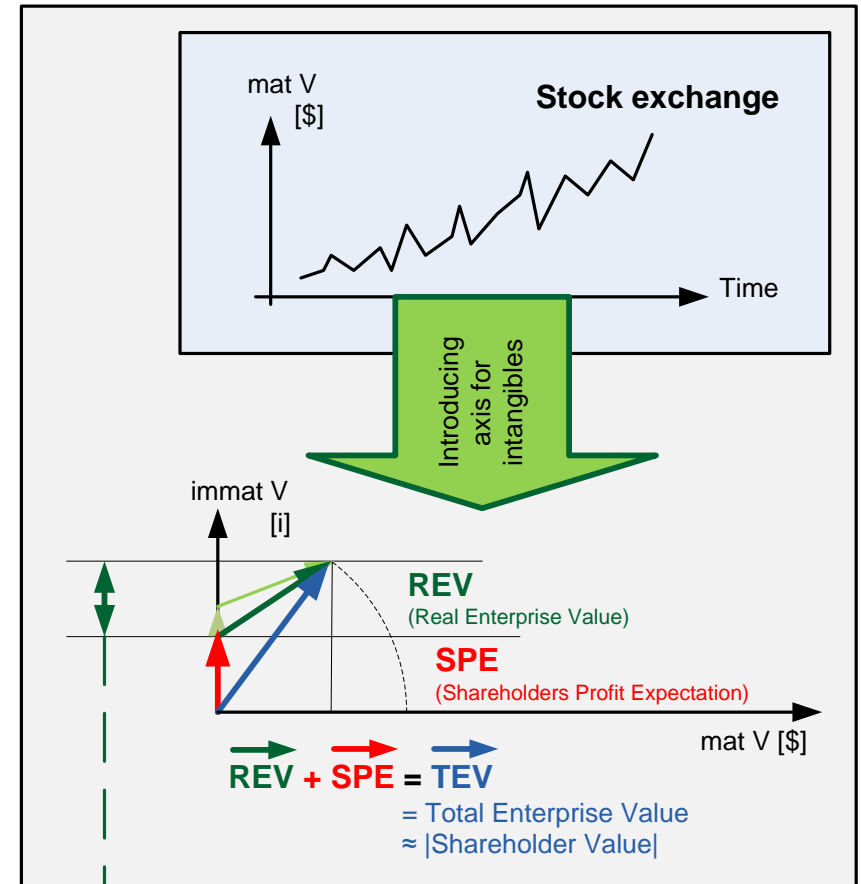
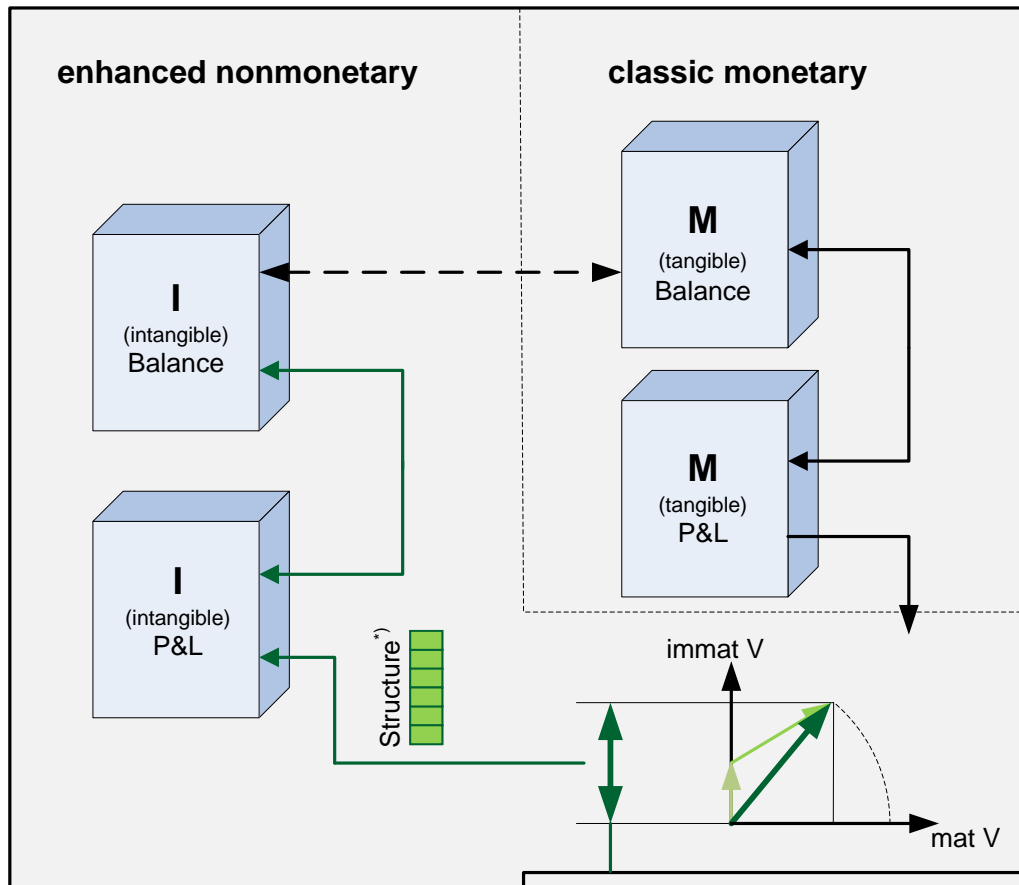
**2. Enterprise potential**

**1. Stock exchange**

**3. Communicating values and progress**



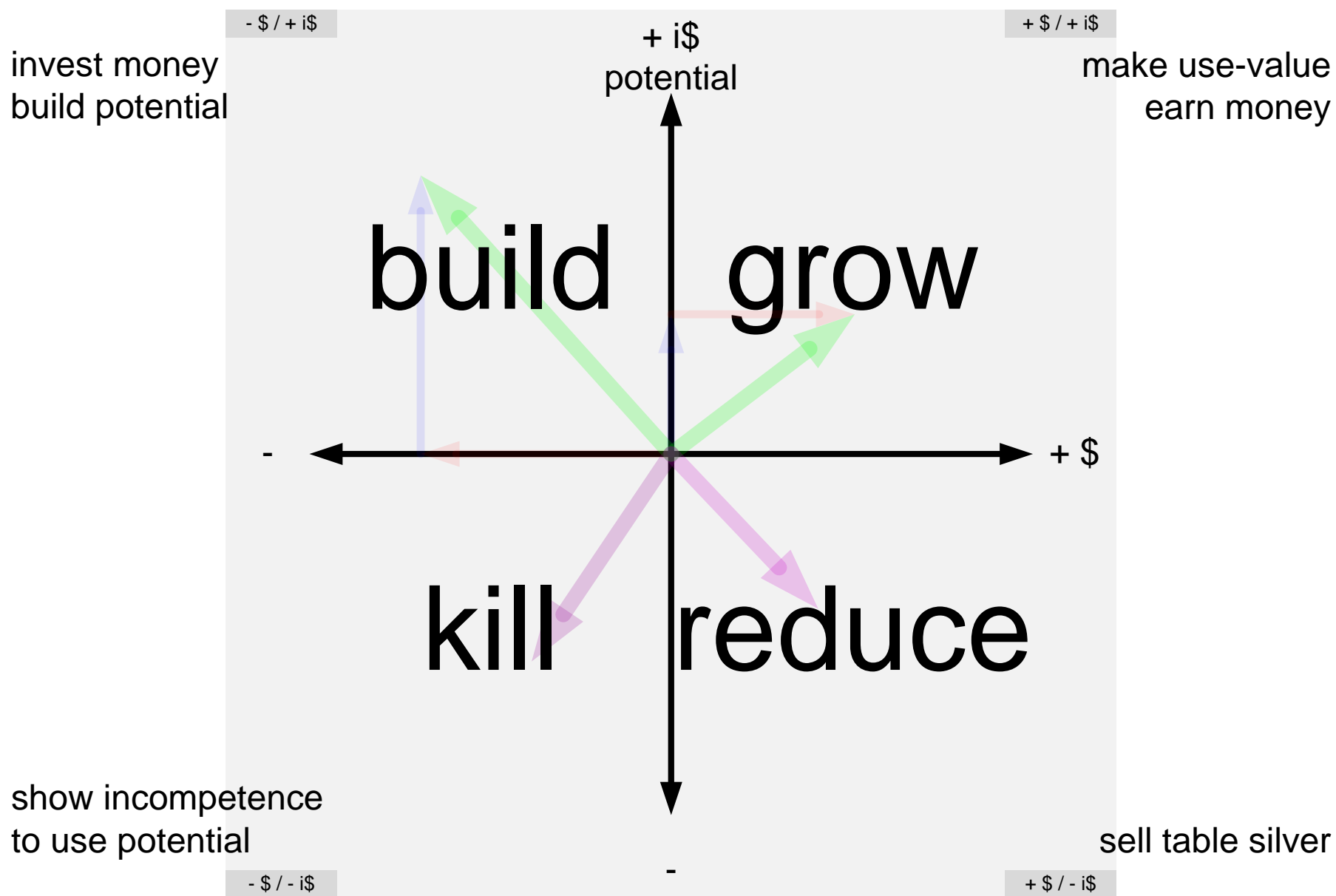
# Economic Value Architecture & Engineering



\*) As for example:  
BSC, EVA, BIG, UPR, B'E....



# Strategic modes – build – grow – reduce – kill



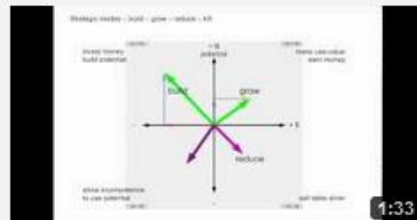
## **FURTHER LINKS**



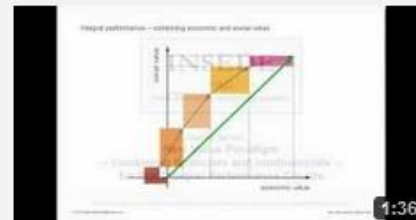
Hochgeladene Videos (9)

Hinzugefügt am (neueste - älteste) ▾

Hochgeladene Videos



**Strategic Potential and Performan...**  
9 Aufrufe vor 2 Wochen



**Hidden Message in pwc's Logo?**  
57 Aufrufe vor 1 Monat



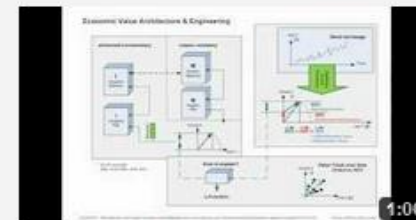
**Disruptive innovation in economic ...**  
9 Aufrufe vor 1 Monat



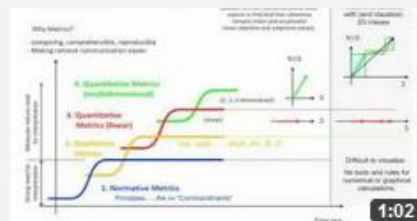
**Next Economic Measuring and Val...**  
20 Aufrufe vor 1 Monat



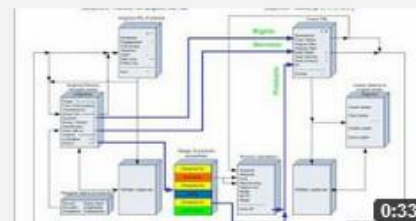
**Understanding Value as a Vector - ...**  
20 Aufrufe vor 2 Monaten



**Economic Value Architecture and ...**  
26 Aufrufe vor 2 Monaten



**Vector metric for visualizing mone...**  
16 Aufrufe vor 3 Monaten



**Mapping Intangible Assets too - be...**  
148 Aufrufe vor 3 Monaten

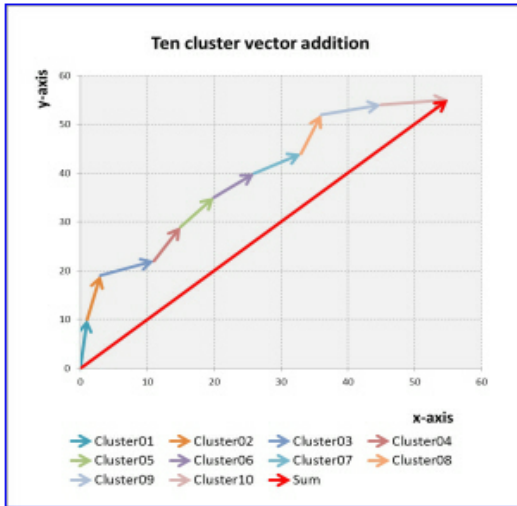


**INSEDE enhanced economic reaso...**  
37 Aufrufe vor 3 Monaten

Tips/Recommendations:

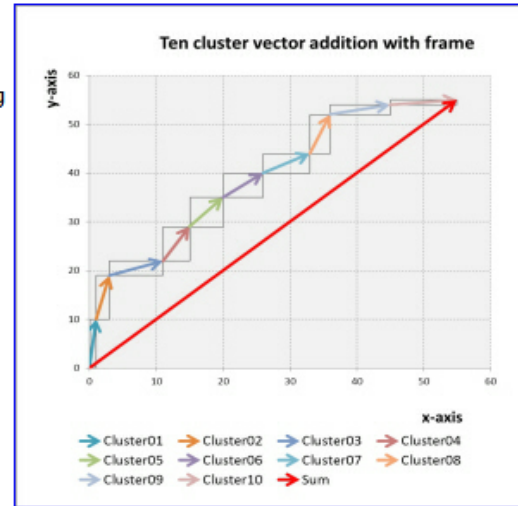
[http://bengin.net/beta/basic\\_master\\_e.htm](http://bengin.net/beta/basic_master_e.htm)

- look for the template, which contains at least that number of clusters that you want to consider. (Not required clusters may be set to zero. The index may be revised direct in the chart.)
- Use for comparison of data sets - for example, budget and account of two companies or business cycles or.... - the pure vector representation (without colored rectangles). Use it for comparing monetary with monetary - monetary with nonmonetary and nonmonetary with nonmonetary indicators. You may be surprised about the new transparency you will gain.
- Make "Drill-Downs" by copying the first page behind that page so much times as you have "clusters". Then structure the elements of the "sub-clusters" according to your needs and link the sum to the corresponding field on the first page.
- Connect your internal data with external data from web.



"Pure 10 vectors"  
Comparison of 10 clusters - for example, divisions, countries, projects, cost centers..... - among themselves and within the overall context.

[10 vect add one 001 e](#)



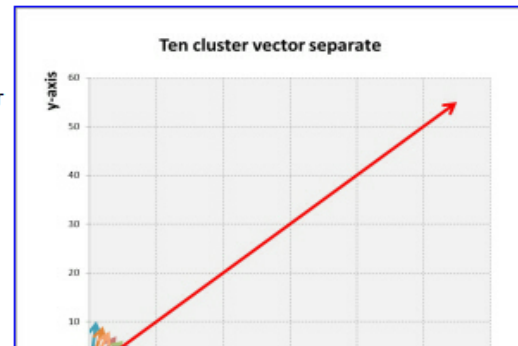
10 Vectors with frames. These frames facilitate untrained observer the orientation.

[10 vect add one frame 001 e](#)



Similar to "Pure 10 vectors" but with a second record. This allows the simultaneous display of budget and account - or two periods or.....

[10 vect add two 001 e](#)



10 cluster starting x=0 and y=0 (without addition) with sumvector.

[10 vect sep 001 e](#)



## Ökonomie neu denken - Jenseits der Finanzkrise (V)

by **Stifterverband** PLUS 2 months 2 weeks ago /

# English spoken

<http://vimeo.com/38091481>

**Questions?**

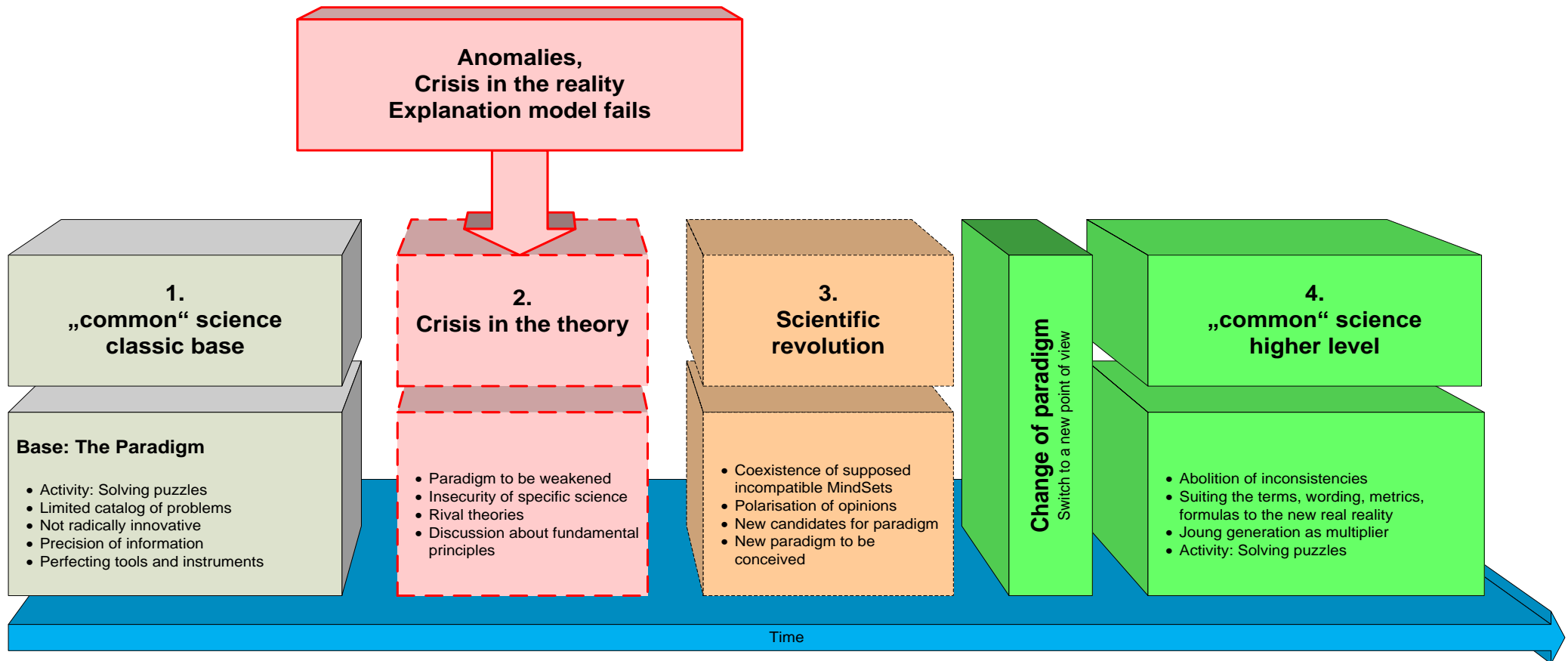
**Thank You**

Other slides

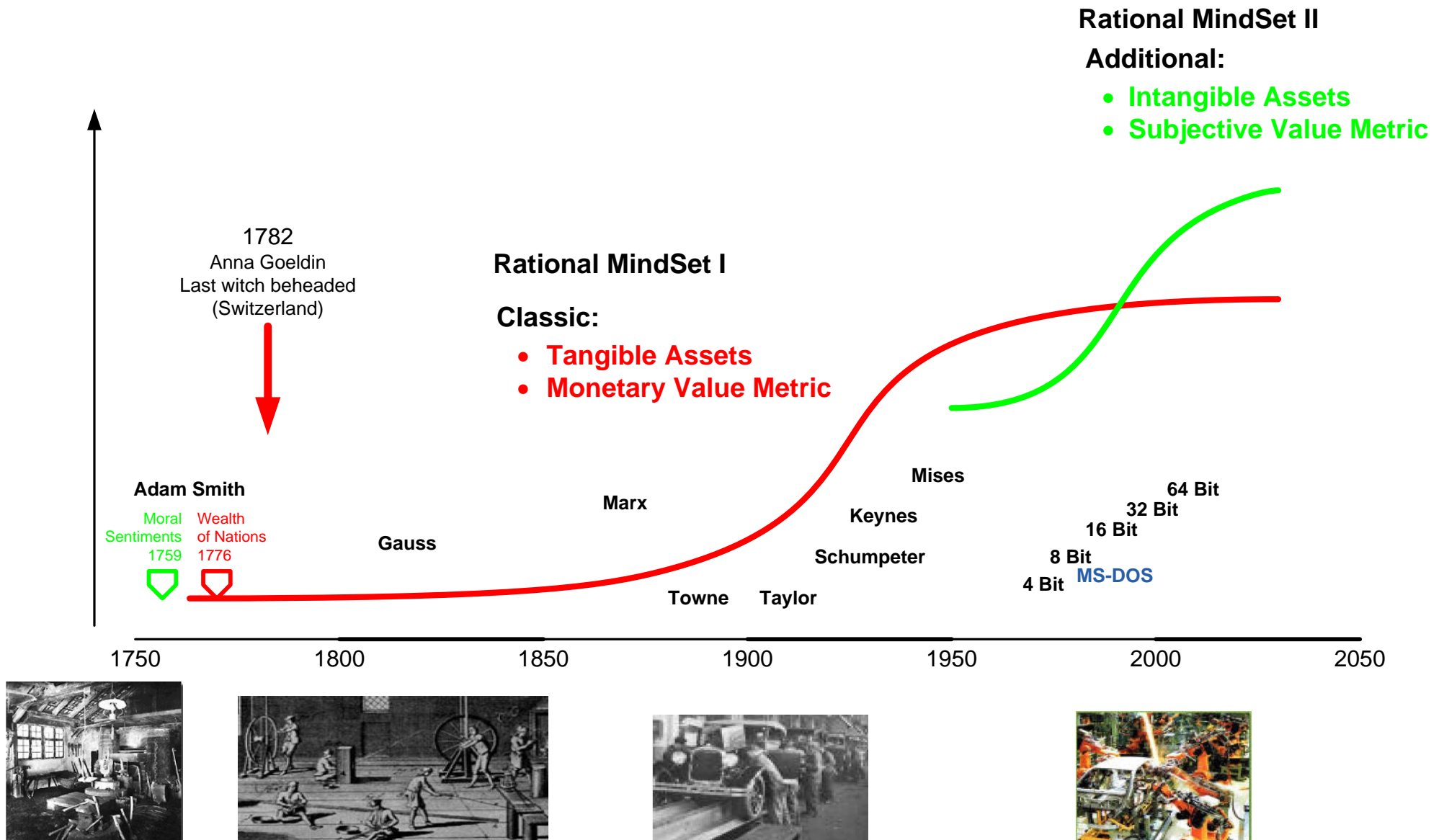


# Paradigm shift in economic understanding

(Steps in mindware development)



# Development of Business Theory (S-Curve of Product Development)

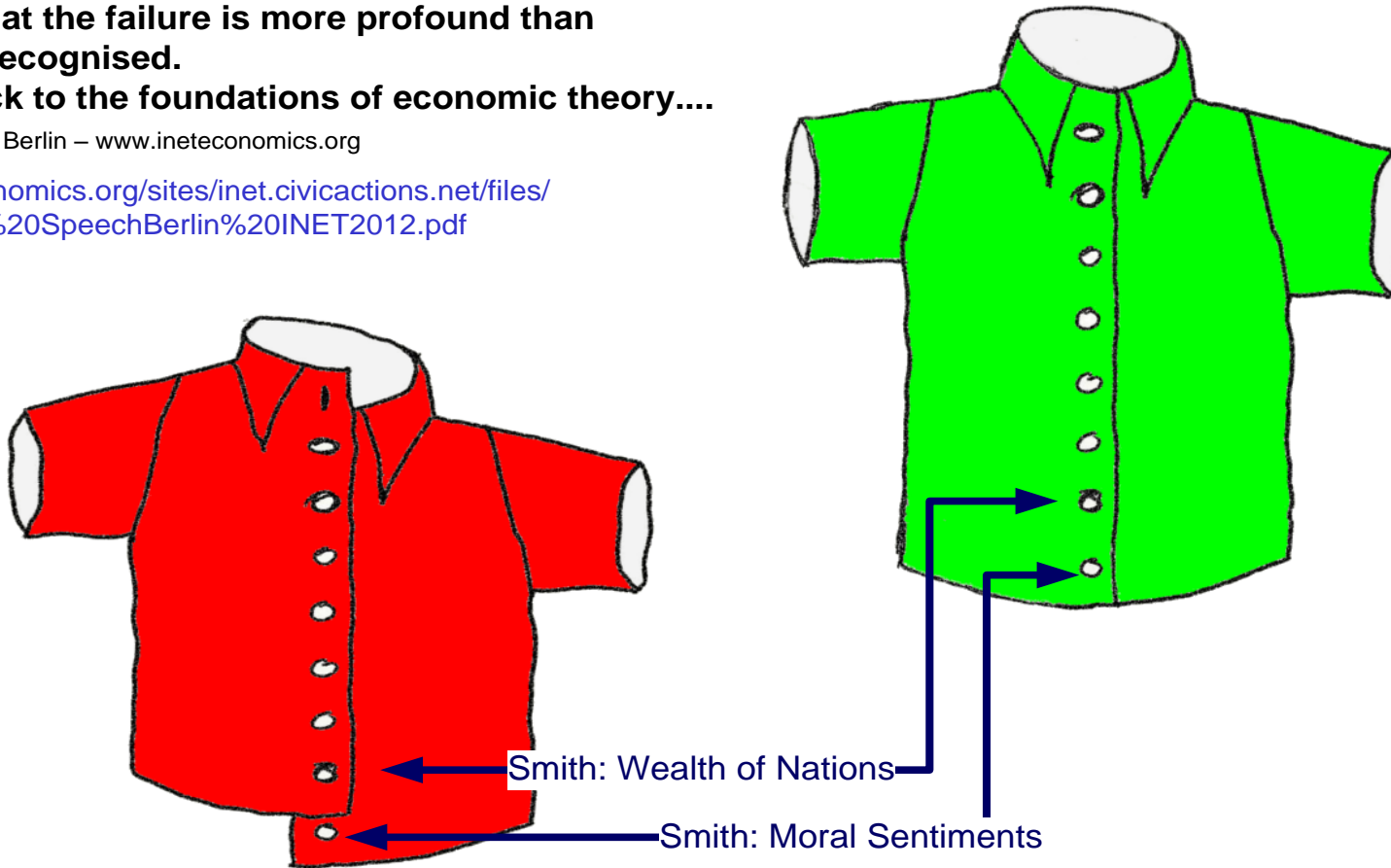


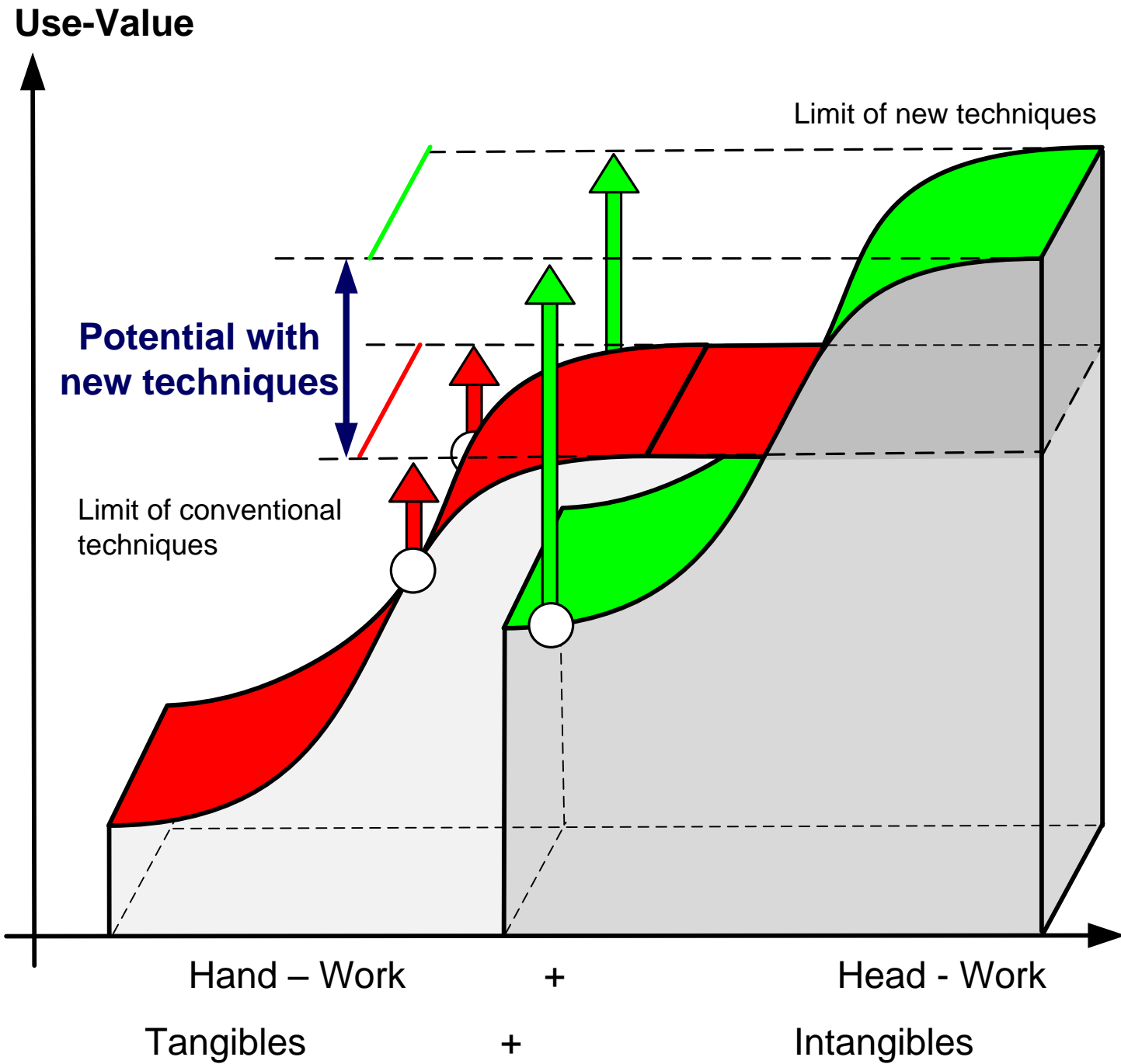
Soros

**I believe that the failure is more profound than generally recognised.  
It goes back to the foundations of economic theory....**

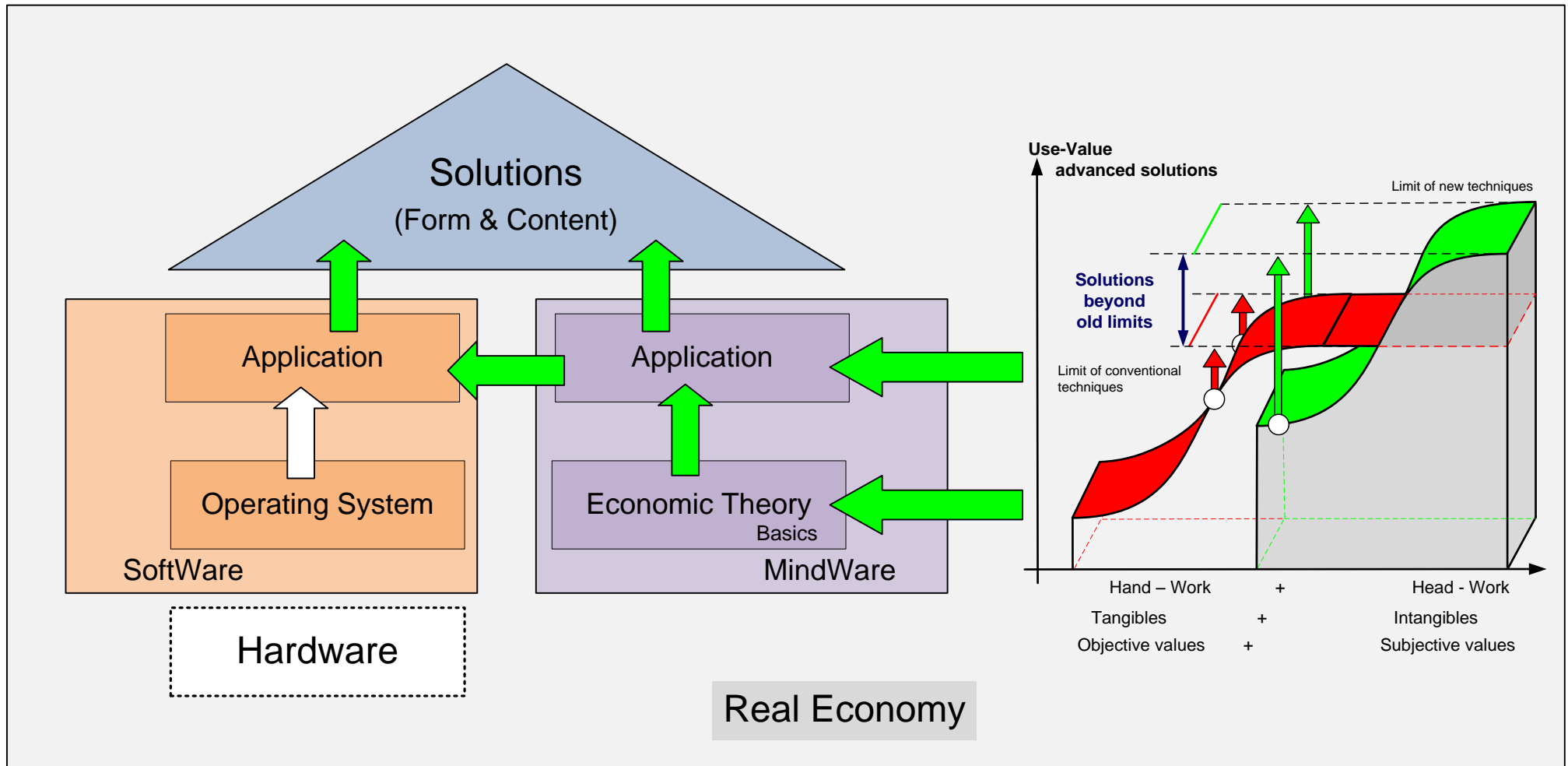
12. April 2012 – Berlin – [www.ineteconomics.org](http://www.ineteconomics.org)

<http://ineteconomics.org/sites/inet.civicaactions.net/files/Soros%20SpeechBerlin%20INET2012.pdf>

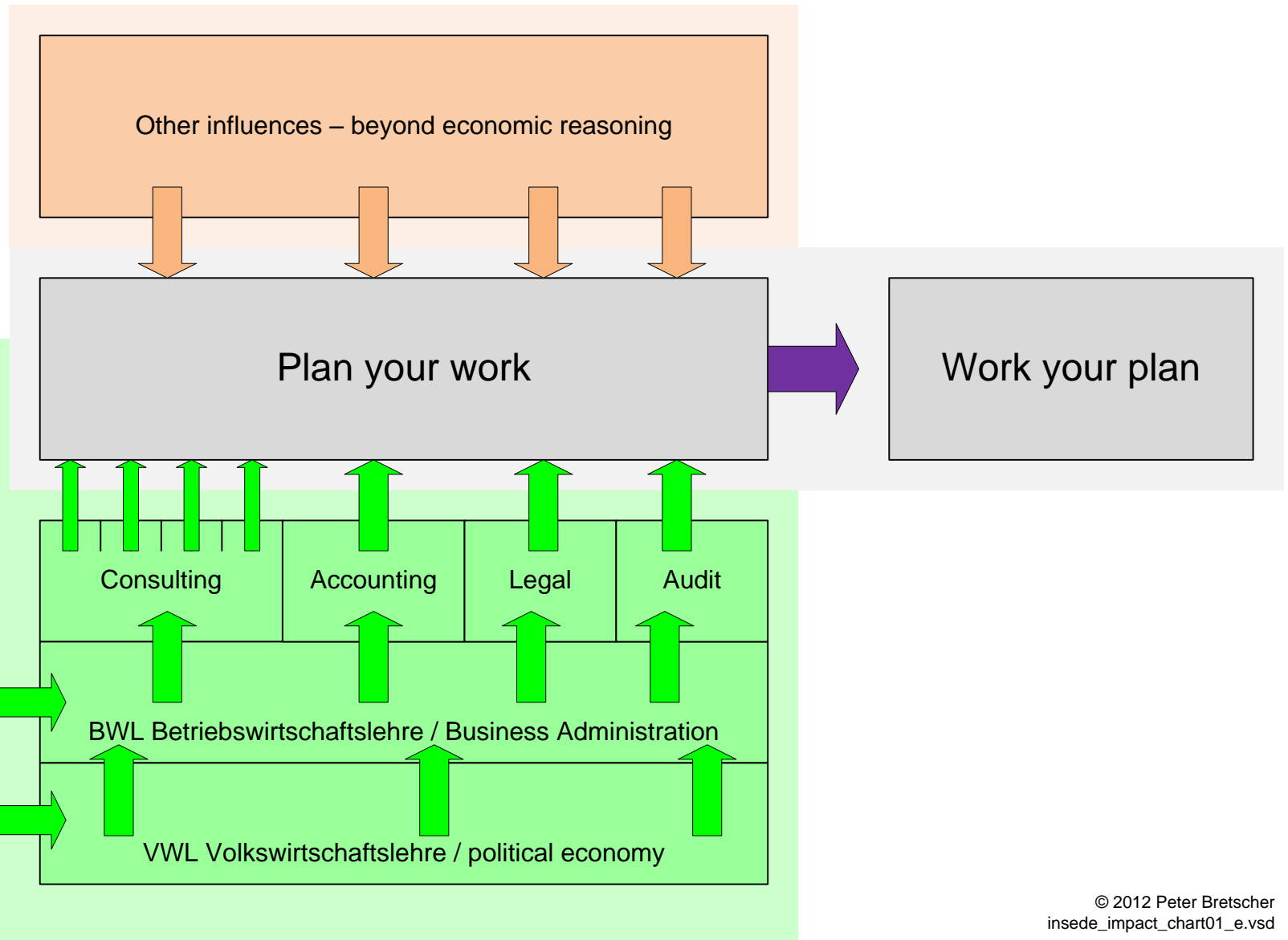




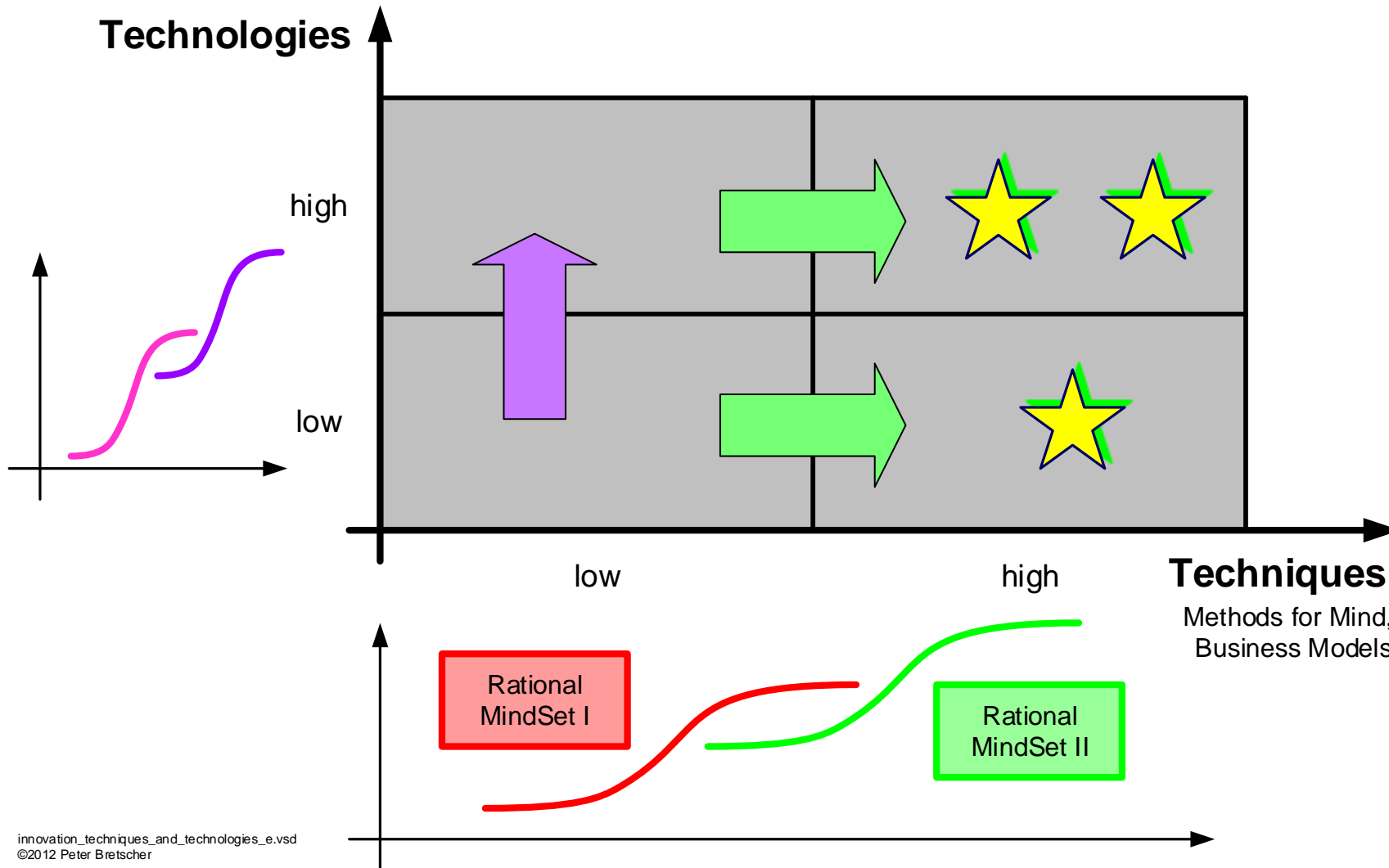
# Professional solutions beyond classic limits



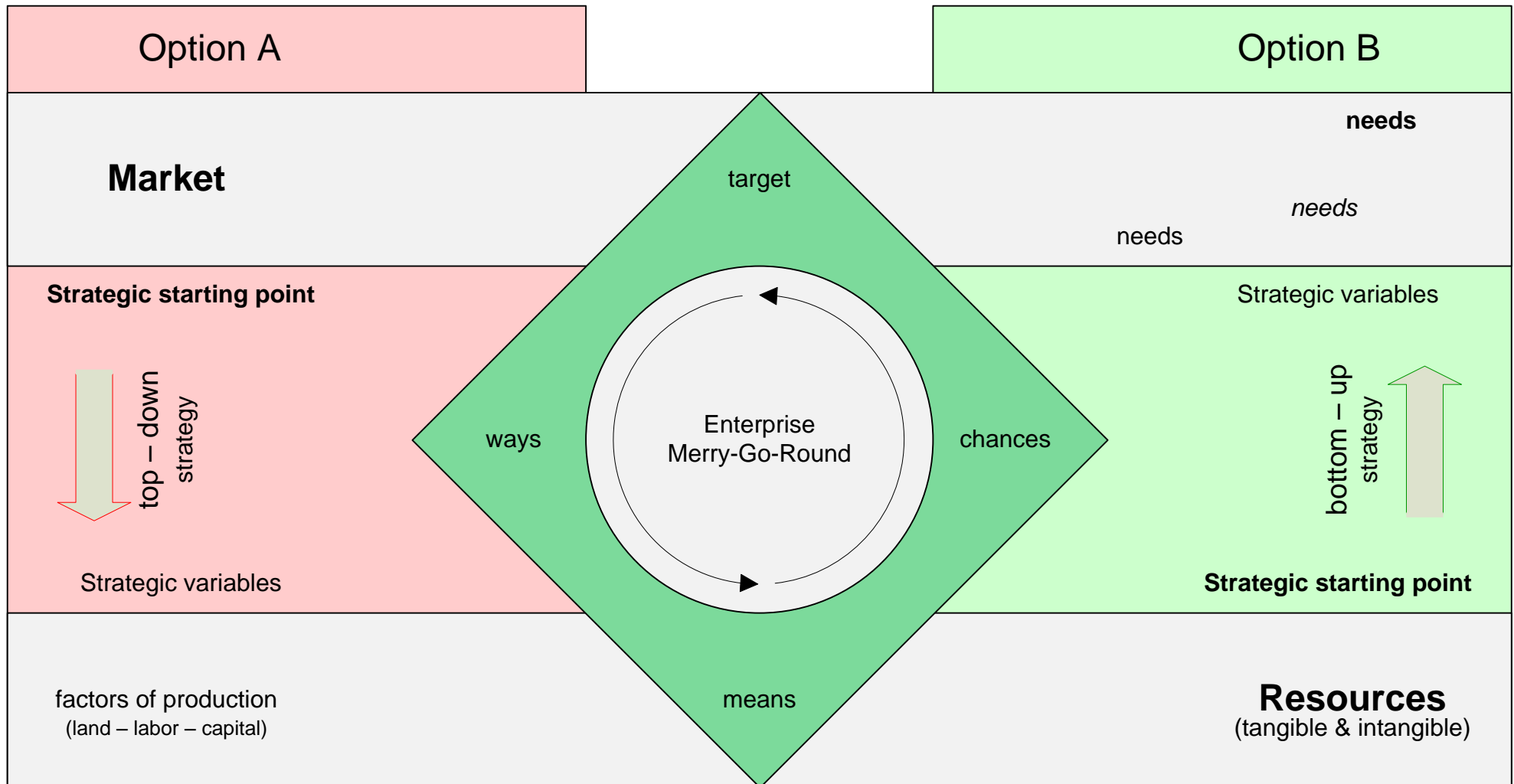
# INSEDE enabling sustainability



# Two Directions of Innovation (Technology and Techniques)



# The two strategic business options in balance





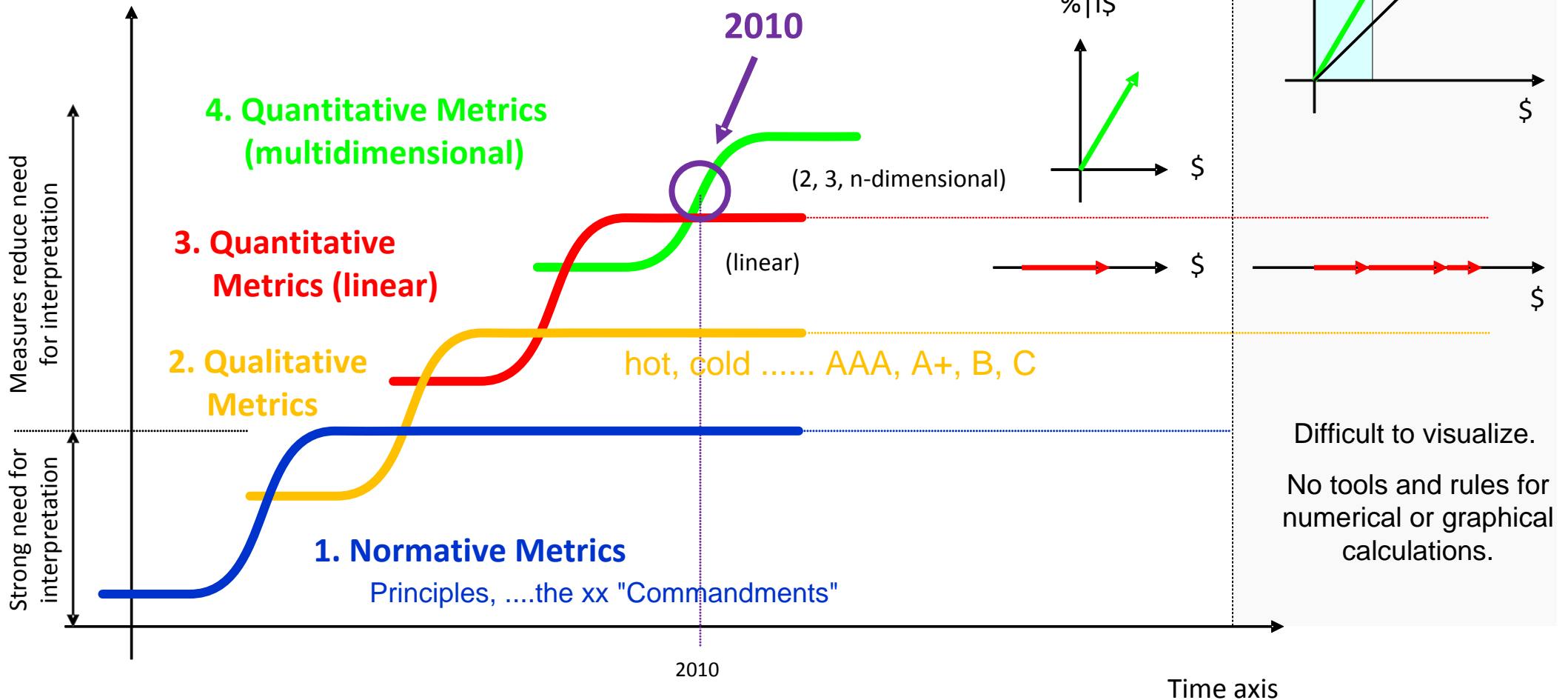
# Development of (economic) Value-Metrics

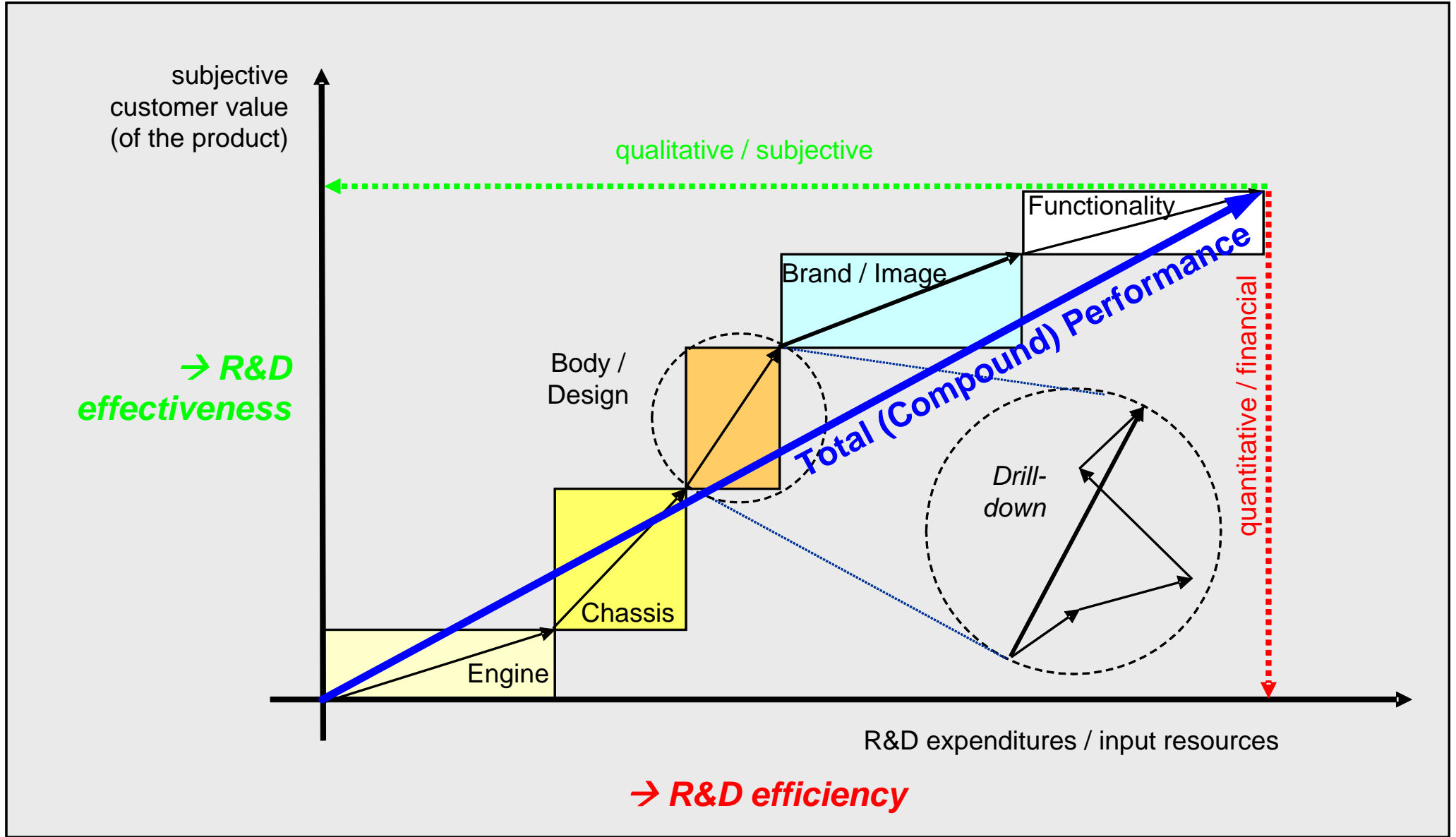
## Why Metrics?

- comparing, comprehensible, reproducible
- Making rational communication easier.

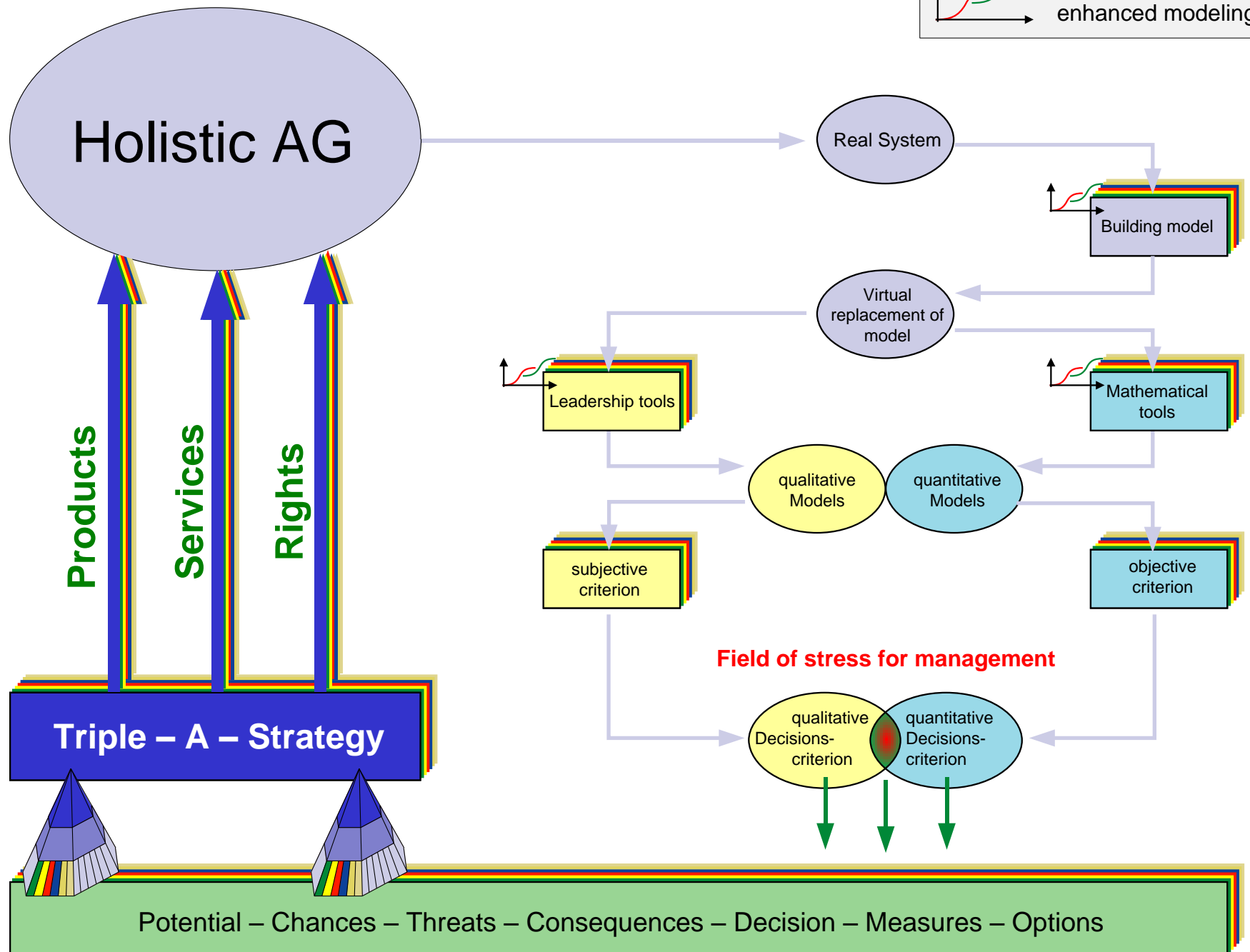
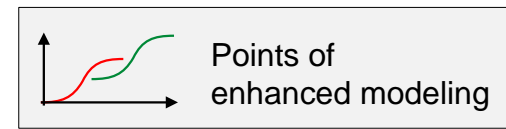
Only multidimensional metrics makes it possible to treat multidimensional value aspects in that kind that coherence remains intact and visualizable (even objective and subjective values).

Possible to calculate with (and visualize) 2D-Values





# Improved Business by enhanced models



# The long Road to Post-Capitalism: Schematic of Six Long Waves From 1790 to 2000

Theory of Value & Monetary Value:

Aggregate Labor & Capital

Aggregate Dept & Capital

Aggregate Technical Knowledge & Cohesive Cultural Base

Theoreticians:

Smith, Ricardo, Marx

Keynes

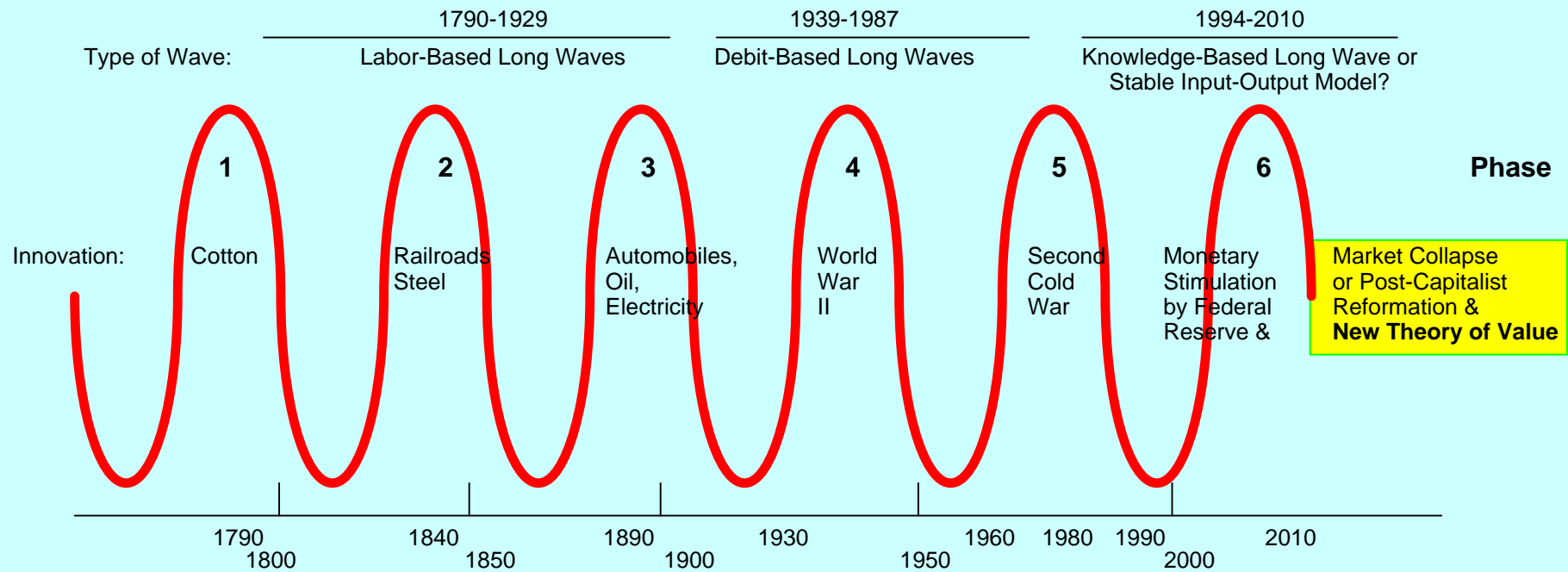
Leontieff, Greenspan & Stiglitz

Accumulation Model:

Labor & Capital

Fiscal Stimulation  
[War Dept] >  
Labor & Capital

Monetary Stimulation  
[Stock Market] >  
Information-Knowledge



Adam Smith 1723-1790

Karl Marx 1818-1883

Nikolai Kondratieff 1892-1938

John Maynard Keynes 1883-1946

Carl Friedrich Gauss 1777-1855  
**New Theory of Numbers**  
(Complex Number = 2D-Vector on a plane with a real and an imaginary axis)

Ernest Mandel 1923-1995

Wassily Leontieff 1905-1999

Alan Greenspan 1926-Present

Joseph E. Stiglitz 1943-Present

Based on graph of Reuben L. Norman, Jr. June 11, 1998  
[Link: June 14, 2011](#)

SUCHEN DURCHBLÄTTERN KONVERTIEREN HOCHLADEN TAGS Überrasche mich

Benutzername \*\*\*\*\* Erinnerung Anmelden

**FINN  
IGONS** graph SUCHEN

Verfeinerung (Reset)

1-48 aus 248 Icons für "folder" < zurück 1 2 3 4

Symbole pro Seite 24 36 48

Hintergrund

Größenbereich: 0 - 128 px

Farbfilter: Alle

Stil: Alle

Sortiere: Relevanz

Lizenz: Alle Lizenzen

Symbolgröße: Kleine Box

Haben Sie hiermach ges

- chart (282)
- blue (1837)
- cemagraphics yellow (398)
- green (984)
- page (383)
- gnome (1572)
- stocks (14)
- red (1027)

The image shows a search results page for 'graph' icons. The main area contains a grid of 48 icons, each with a 'PNG ICO MORE' label and a heart icon. The icons are diverse, including 3D pie charts, 3D bar graphs, 2D pie charts, and line graphs. Some icons have text labels like 'July', 'Aug', and 'Sep' at the bottom. The interface includes a search bar, navigation buttons, and a sidebar with filters and a list of related search terms.

[www.findicons.com](http://www.findicons.com)