



# KNOWLEDGE CITIES WORLD SUMMIT 2018



Thursday November 22

@ ULL's Aula Magna -School of Economy, Firms & Tourism

**Parallel Session 3 on Knowledge Islands**

## History and Methods of Profiling Knowledge Regions (and Knowledge Islands)

by

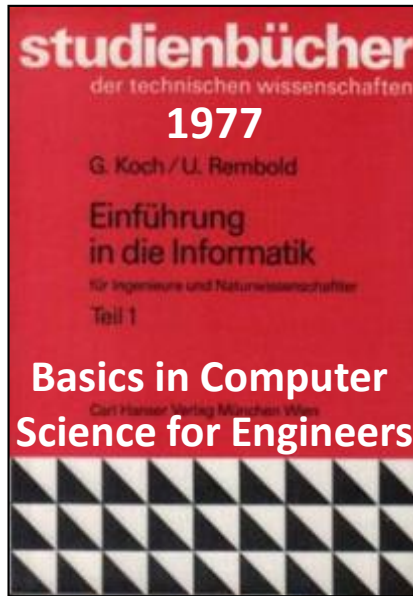
**Günter Koch**

President of the Humboldt Cosmos Multiversity, Tenerife

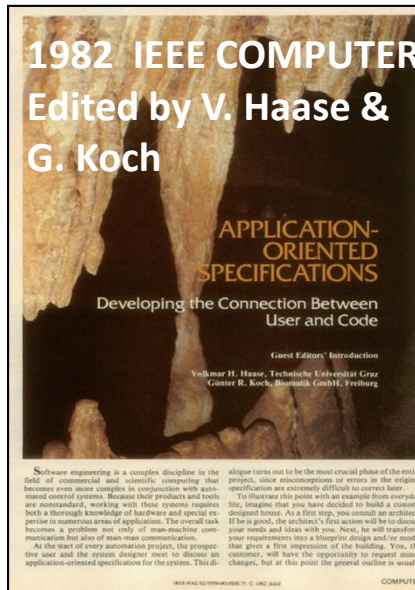
## Outline of presentation

- Personal history in methodology for profiling knowledge regions
- From corporate knowledge profile to profiling regions
- Projects of The New Club of Paris
- Examples of Knowledge Regions
- Tenerife as a Living Lab
- Founding a network of knowledge islands?

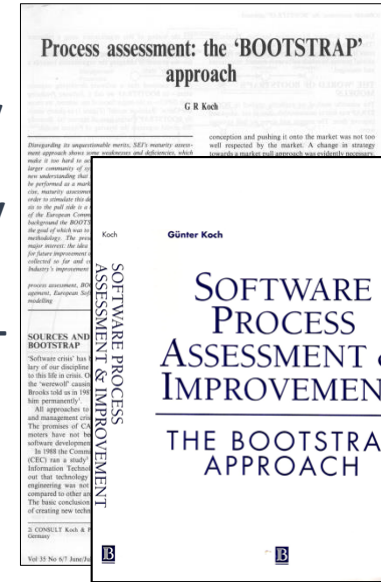
# Method developments by G.R. Koch



1976 - 1985  
Specialisation in  
Software  
Engineering  
& Require-  
ments Spec.



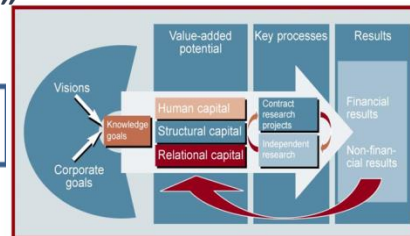
88 - 93  
Maturity  
level  
analysis/  
SW mgt.  
improvement



2004 - 2006



Intellectual Capital Reporting  
(„Koch-Schneider method“)

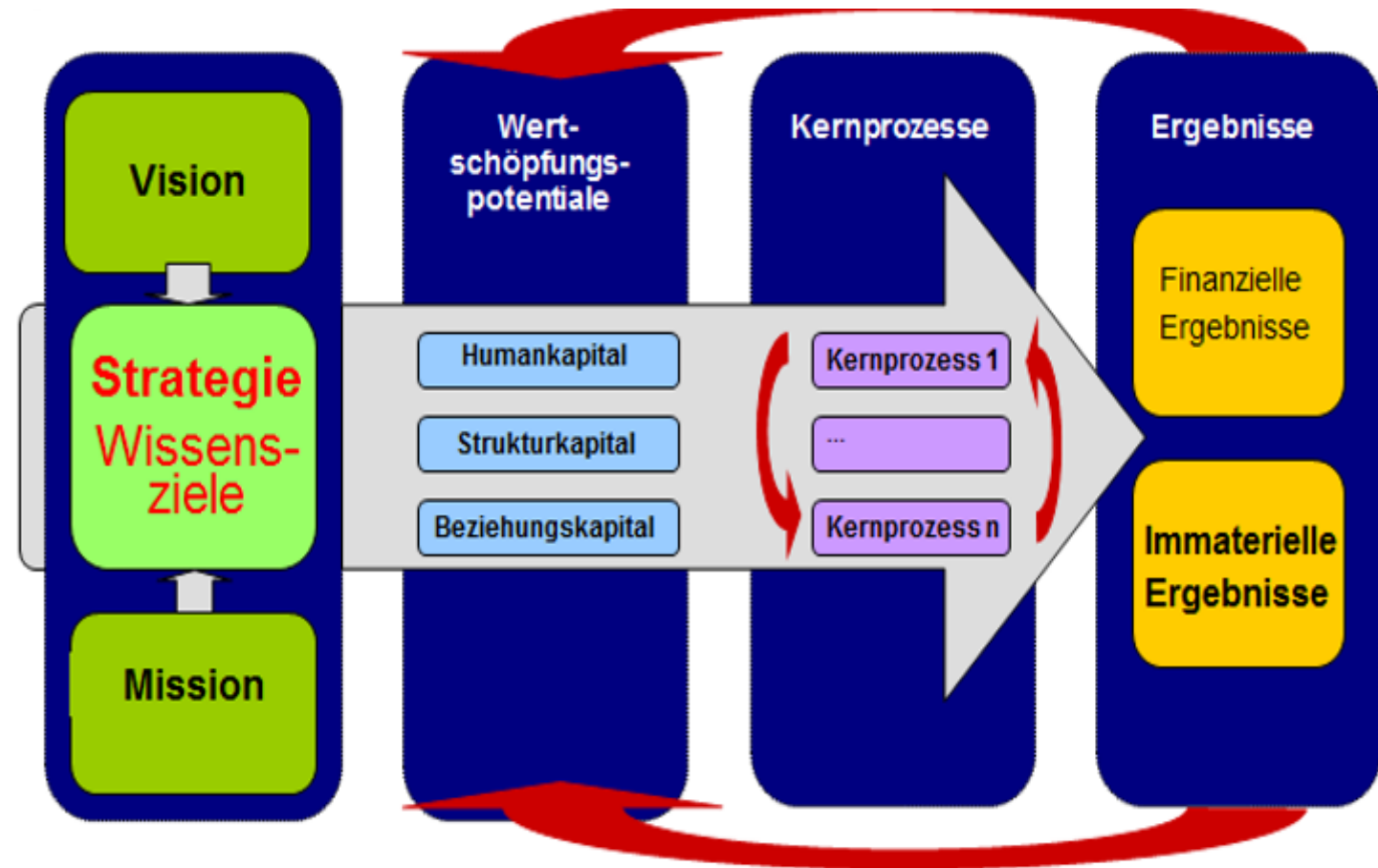
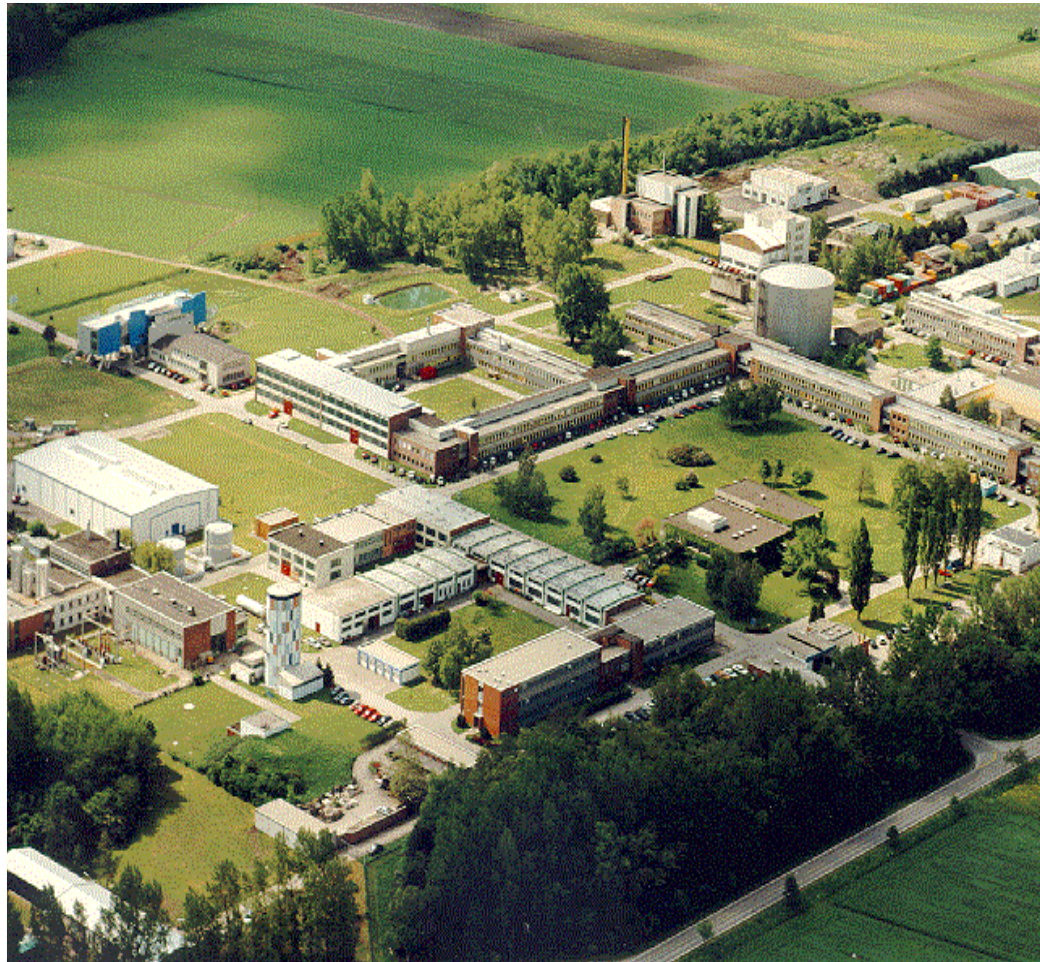


2006 Co-Founding of  
*The New Club  
of Paris*  
as Spin-Off of RICARDIS  
2012 / 2014 Founding of





# The starting point: Mission given to turn around Austria's most prominent Research Center, formerly an nuclear research facility



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# FEDERAL LAW GAZETTE OF THE REPUBLIC OF AUSTRIA

2006 Issued on 15 February 2006 Part II

63<sup>rd</sup> Regulation: Regulation on Intellectual Capital Reports

## 63<sup>rd</sup> Regulation of the Federal Ministry of Education, Science and Culture on Intellectual Capital Reports (Intellectual Capital Report Act – ICRA)

According to subsection 13(6) and subsection 16(6) of the University Act 2002, Federal Law Gazette I No. 120, amended as per the Federal Law Gazette I No. 77/2005, the following is enacted:

### Scope of application

§ 1. This regulation applies to intellectual capital reports of all universities according to section 6 of the University Act 2002 and the Danube University for advanced further education Krems according to the Federal Act on the Danube University for advanced further education Krems (DUK Act 2004), Federal Law Gazette I No. 22/2004.

### Objectives of the intellectual capital report

§ 2. The intellectual capital report aims at presenting, evaluating and communicating intangible assets, performance processes and their consequences and serves as a qualitative and quantitative basis for generating and entering a performance agreement.

### Structure of the intellectual capital report

§ 3. (1) The intellectual capital report includes the following sections:

- I. Scope of application, objectives and strategies
- II. Intellectual property
  1. Human capital
  2. Structural capital
  3. Relational capital
- III. Core processes
  1. Education and continuing education
  2. Research and development
- IV. Output and impact of core processes
  1. Education and continuing education
  2. Research and development
- V. Summary and prospects.

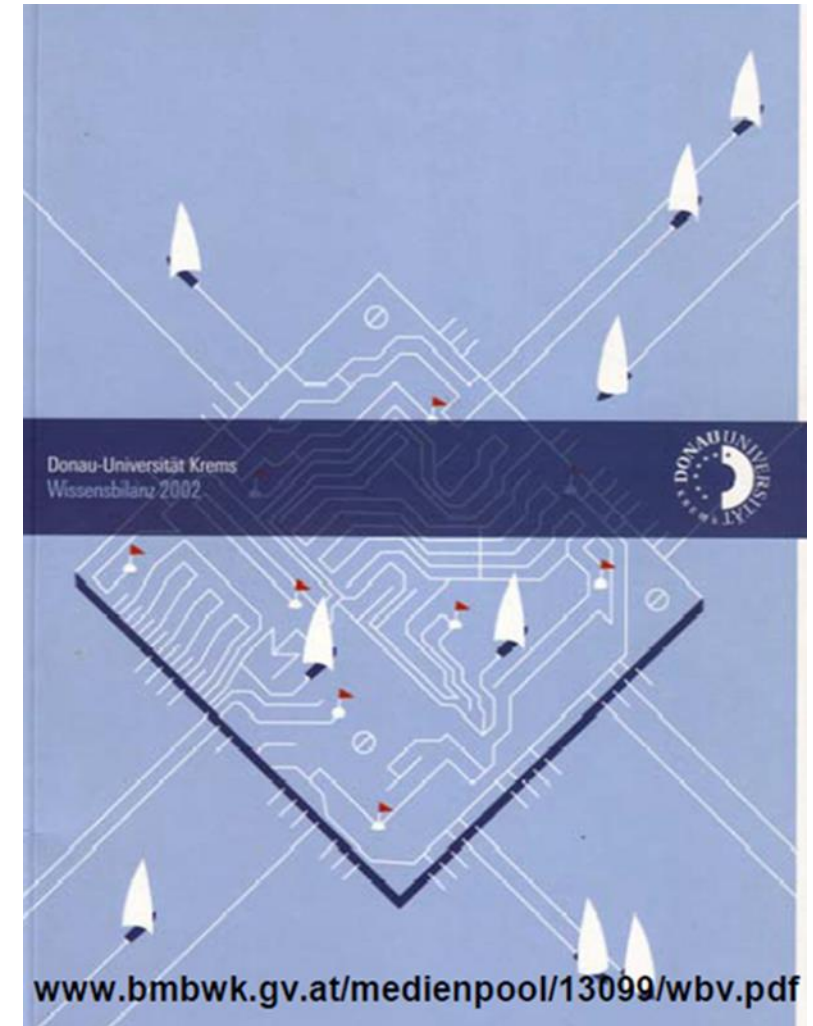
(2) According to section 6 paragraphs 4 to 6 and 12 of the University Act 2002, intellectual capital reports of universities are to include a section “VI. Specific set of indicators for universities of medicine” in addition to the sections listed in (1).

(3) According to section 6 paragraphs 16 to 21 of the University Act 2002, intellectual capital reports of universities are to include a section “VII. Specific set of indicators for universities of arts” in addition to the sections listed in (1).

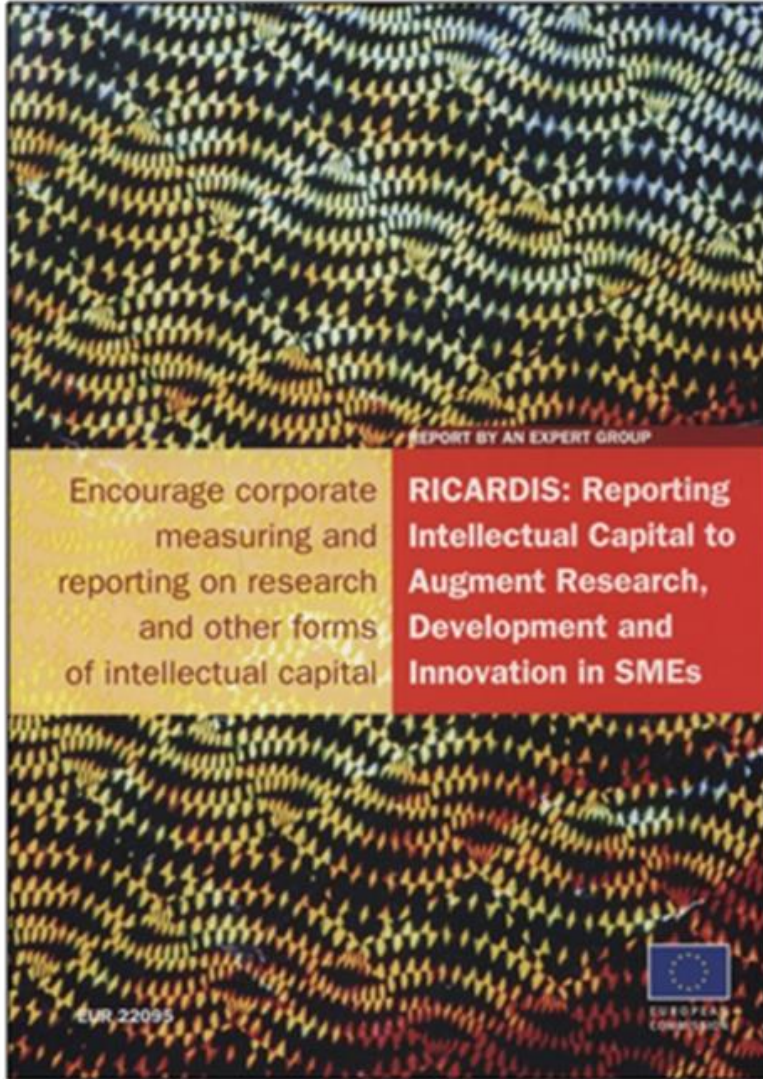
### Contents of the intellectual capital report

§ 4. (1) The section “I. Scope of application, objectives and strategies” is to be composed in a narrative format. In addition to the scope of application, objectives and strategies the following topics are

Austria decided to oblige all its public universities to provide annually a „knowledge development report“ called an „Intellectual Capital Report“

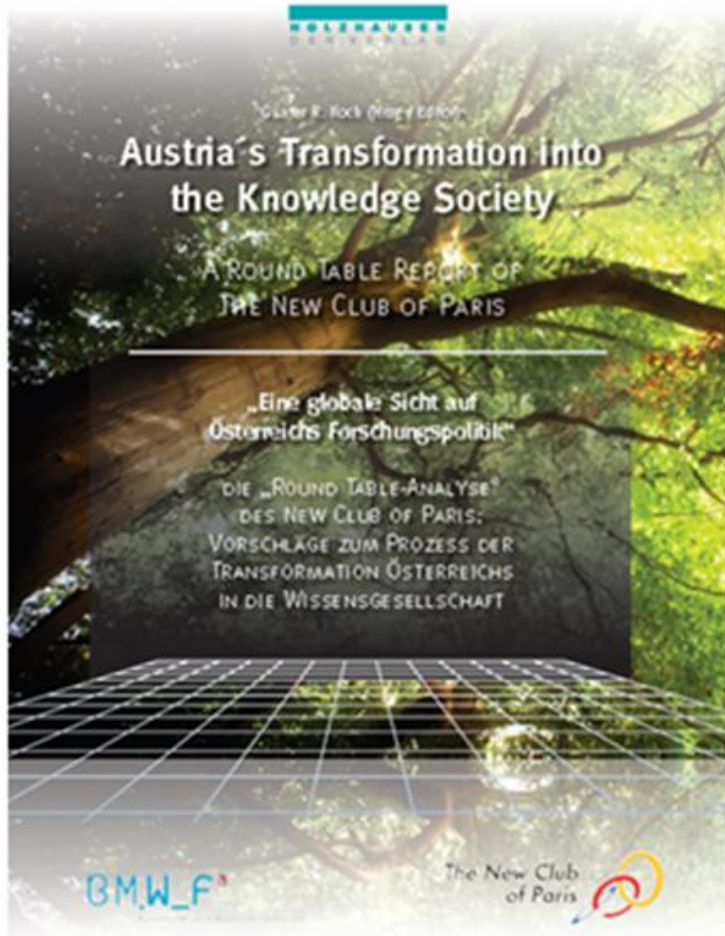


# The next phase: Extending the methodology to organisations, enterprises, political decision making for regions and countries. - Under the auspices of the European Commission „The New Club of Paris was founded“



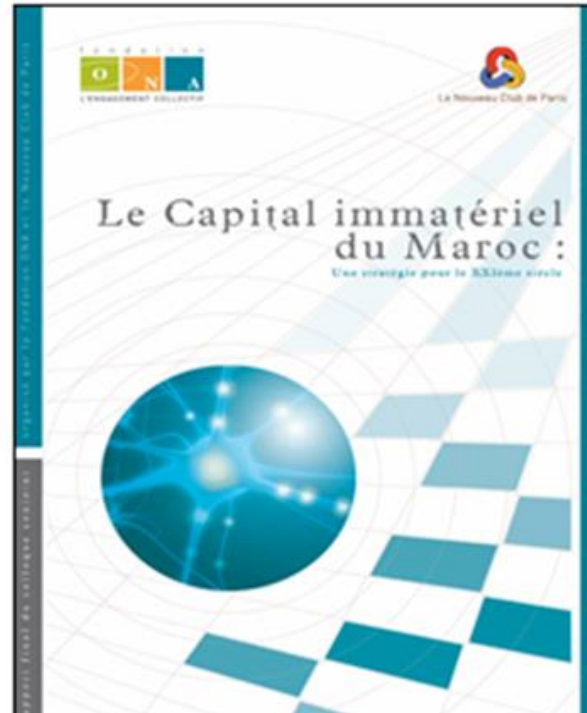


# Country reports on Knowledge Policies and in support of setting the political agenda for countries and regions were developed.



- **Austria**
- **Finland**
- **Malaysia**

- **Morocco**
- **(Serbia)**
- **(Romania)**



In 2014, the later science minister of Romania ordered two studies

- one on how university standards can be improved
- one on how to design a policy for profiling a nation as a knowledge country

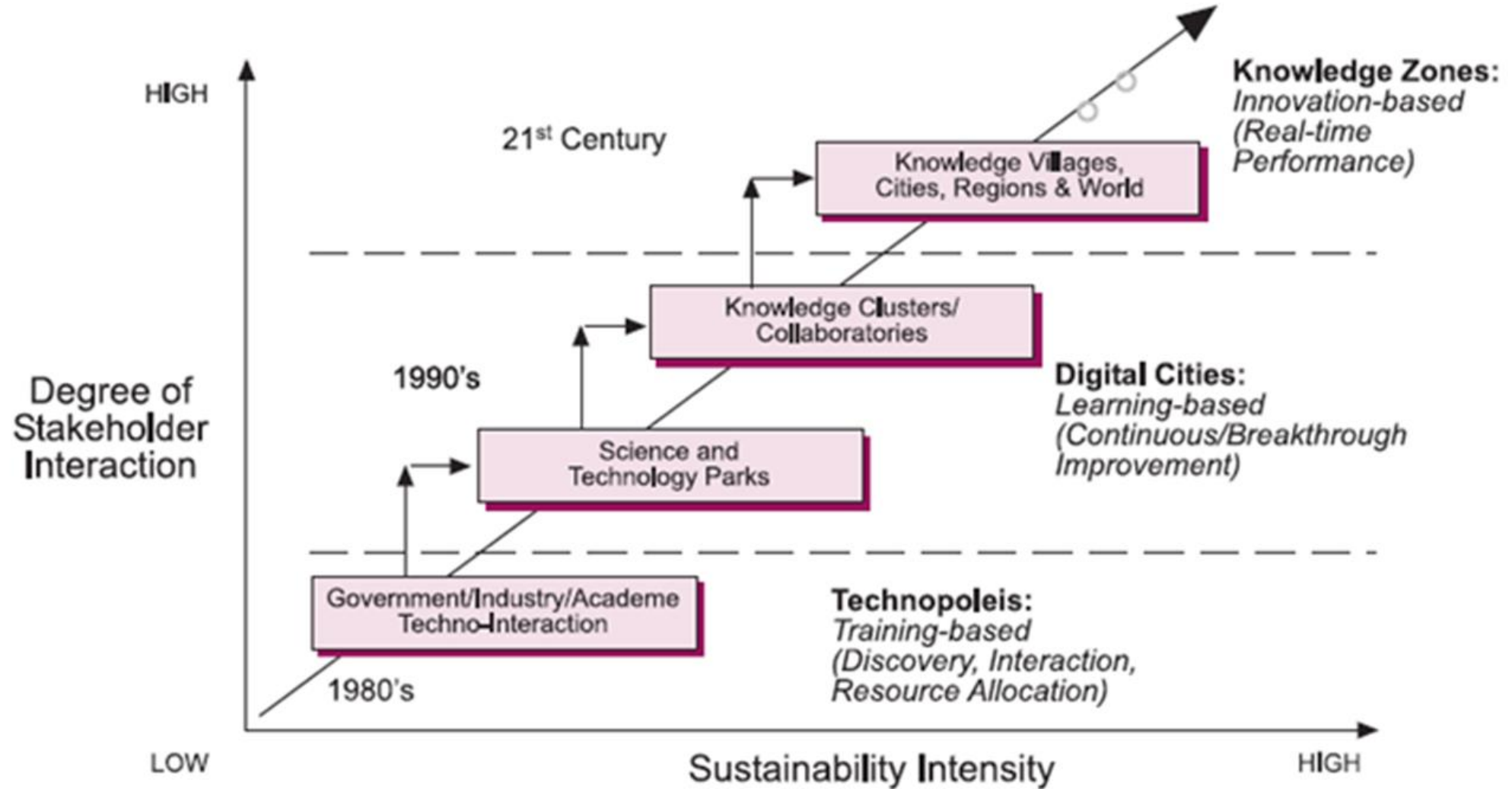


Both studies were based on the Koch-Schneider  
Methodology of Intellectual Capital Reporting





# From Knowledge Institutions to Knowledge Zones



Source: Adapted by Amidon (2004)

# A concrete consequence of Intellectual capital analysis of regions: The Slovakian region around Košice turned itself into a knowledge region



**Explicit Knowledge Methodology-based public projects in the Danube Region**

GERMANY, CZECH REPUBLIC, SLOVAKIA, AUSTRIA, HUNGARY, SLOVENIA, CROATIA, ROMANIA, SERBIA, BOSNIA AND HERZEGOVINA, REPUBLIC OF...

Arbeitskreis Wissensbilanz

VAIC

The New Club of Paris Round Table

Academic projects

legend

Designing the landscape of the Intellectual Capital of a nation  
Methodological guidelines

Number 2 2014 in  
Blueprints Series

edited by  
Günter Koch  
Adrian Curoj

Andreas Brandner  
Bernhard Krabina  
Claudia Nagel-Pictorius  
Jozsef Maria Vardas

Günter R. Koch (Editor)  
Austria's Transformation into the Knowledge Society  
A Round Table Report of The New Club of Paris



More information on **knowledge regions and knowledge islands** you may find here:

<http://humboldt-cosmos-multiversity.org/wp-content/uploads/2015/12/NETTIES-book.pdf>

Page 245 ff: “**PROFILING REGIONS AS KNOWLEDGE REGIONS – MODEL CASES FOR TENERIFE**”

IAFeS Edition

## "Open Data and Big Data - The Impact on Digital Society and Smart Cities"

13th NETTIES Conference  
(Network Entities)

Humboldt Cosmos Multiversity  
Tenerife March 5th - 8th 2015

Abstract: A **Knowledge Region** ... is formed by its well defined institutions, as well as persons making up the regional constitution, but it goes beyond the nomination of its elements. The challenge is to identify models which combine the different aspects of a “knowledge body” as e.g. once have been introduced through “Intellectual Capital Reporting” models. Such models applicable to municipalities have been invented and applied for different locations, some of which are addressed in this article as model cases. The question addressed especially in this paper is if and how such methodology may be applied to the Canary Island of **Tenerife as a model case for a “Knowledge Island”**.

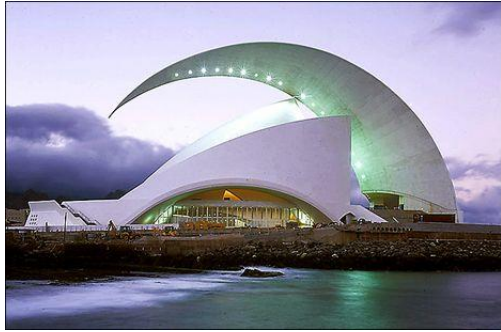
# The fantasy

**„Turning the island into a model location for a digital, smart and knowledgeable economy serving for a social , political and economic togetherness, also including non-native residents**

- The reference: Taking up **the model of „Living Lab“-research** applied to the whole island
- Creating a new image on Tenerife
  - as a **knowledge island** by „selling“ its structural intellectual capital
  - as a place allowing for experimenting with new services...
- ... as might be: start-up and coworking communities, ecological projects, social services
- ... giving explicitly space for discourses on new ideas as might be: economy of common good, future centers, ACSI brainshops, prototype labs, ...
- Daring to apply new education models (@ university) and social services based on self organisation
- Living lab projects especially suited for Tenerife (due to studies already made):
  - alternative energy production combined with electromobility
  - integration of social services
  - opening excellence labs like the Astrophysical institute for cooperation with external business partners
  - education infrastructures in view of West Africa
  - new economic systems e.g. based on cryptoeconomics



# Tenerife's current knowledge & science hotspots (selection) as building blocks for the structural dimension of a knowledge economy



*„Volcano early warning signals“  
research, spinning off from the  
Environmental Research Division  
of ITER, Tenerife, Canary Islands*



# Questions







Humboldt  
Cosmos  
Multiversity

Sharing Knowledge

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# Humboldt Cosmos Multiversity

The Idea of a Multiversity is a city of infinite variety...

This city is more like the totality of civilization as it has evolved...

and movement to and from the surrounding society...