


ZEF ZEF

## Measuring the K-Society: Data, Information, Knowledge



S. Gerke & H.-D. Evers

ZEF ZEF

ZEF

## Characteristics of knowledge-based economies

- ❖ High average standard of **education**
- ❖ A growing proportion of its labour force are employed as **knowledge workers**
- ❖ Its industry invests heavily in **research and development**
- ❖ Its organisations are transformed into **intelligent organisations** by employing **KM**
- ❖ There are **multiple clusters** of expertise and knowledge production

ZEF

2

ZEF

## Measurement


- **Indicator:** A pointer or an index. An economic indicator is a variable that tends to move ahead of and in the same direction as general economic activity.
- **Index:** a figure reflecting a change in value or quantity as compared with a standard or base. The base usually equals 100 and the index number is usually expressed as a percentage.

ZEF

3

ZEF

## Measuring Knowledge



- Why should we measure knowledge?
- Can knowledge be measured?
- DISCUSS!

ZEF

Slide 4

ZEF

## Measuring the K-Gap

- basic indicators
  - nr of researchers per tsd population
  - expenditure for r&d as pct of GDP
- ICT indicators
  - Nr. of telephone lines per tsd population
  - Nr. of computers per tsd population
  - Nr. of internet users (per tsd population)
- output indicators
  - Nr. of university graduates
  - Nr. of scientific publications
  - Nr. of patents

ZEF

Slide 5

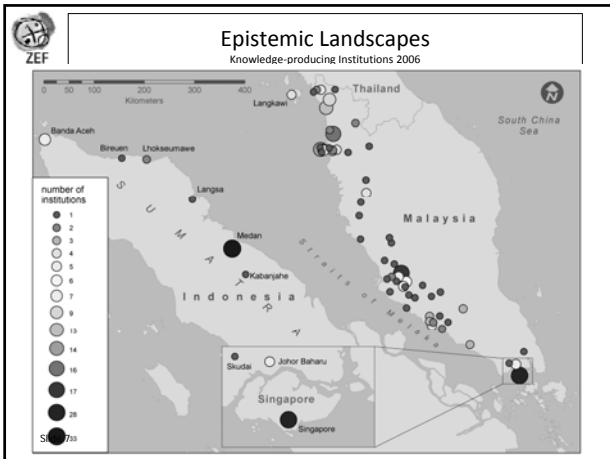
ZEF

## Global Data Sources

- OECD Statistics Portal - Science, Technology and Patents  
[http://www.oecd.org/topicstatsportal/0,2647,en\\_2825\\_497105\\_1\\_1\\_1\\_1\\_1,00.html](http://www.oecd.org/topicstatsportal/0,2647,en_2825_497105_1_1_1_1_1,00.html)
- World Bank <http://www.worldbank.org/>
- KAM <http://go.worldbank.org/JGA05XE940>
- Global Development Gateway <http://topics.developmentgateway.org/knowledge>  
<http://home.developmentgateway.org/cg/country-gateways/dataandstatistics.do>
- ITU <http://www.itu.int/home/index.html>

ZEF

Slide 6



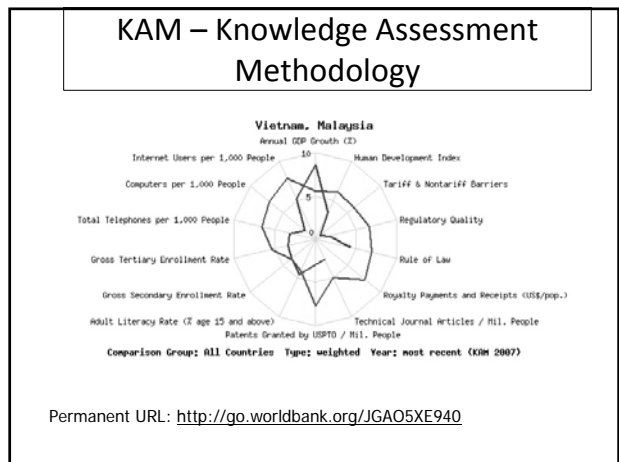
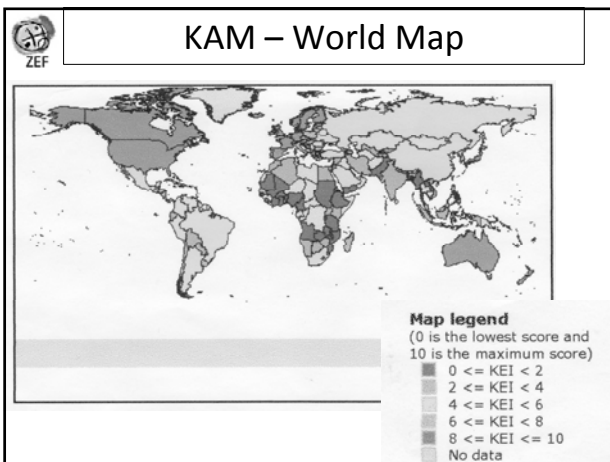
### KAM:

#### Knowledge Assessment Methodology

- The KAM is an interactive benchmarking tool created by the World Bank **Knowledge for Development Program** to help countries identify the challenges and opportunities they face in making the transition to the knowledge-based economy.
- The KAM derives a country's overall **Knowledge Economy Index (KEI)** and **Knowledge Index (KI)**.

[http://info.worldbank.org/etools/kam2/KAM\\_page1.asp](http://info.worldbank.org/etools/kam2/KAM_page1.asp)

<http://go.worldbank.org/JGAO5XE940>



Permanent URL: <http://go.worldbank.org/JGAO5XE940>

