

Statistical Indicators Benchmarking the Information Society

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empirica

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Relevant projects

- ECaTT*) Electronic Commerce and Telework Trends in Europe (9/1998-6/2000) ü
- EC-KMU *) Status-quo and Development Perspectives of Electronic Commerce in Germany, Europe and the USA in 1999 and 2001 (5/1999-3/2000, 5/2001-11/2001) ü
- SIBIS*) Statistical Indicators Benchmarking the Information Society (1/2001-6/2003)
- SeniorWatch*) (2000-2002)
- BISER*) Benchmarking the IS in European Regions (12/2001-12/2003)
- eBusiness-W@tch*) E-Business Market Watch (1/2002-6/2003)
- BEEP: Best eEurope Practices (2/2001-2/2003)
- FAMILIES Work and IST (9/2000-4/2002)

*) = empirica is main contractor

1999	1999	2001	2001	2002	2002	2002
ECATT EU10 plus CH Y Germany Y France Y United Kingdom Y Italy Y Spain Y Netherlands Y Ireland Y Finland Y Sweden Y Denmark Y Switzerland	EC-KMU-1 EU6 plus USA Y Germany Y France Y United Kingdom Y Italy Y Netherlands Y Finland Y USA	EC-KMU-2 Y EU plus USA: Y Germany Y United Kingdom Y Italy Y Finland Y USA	SENIORWATCH EU15: Y Germany Y France Y United Kingdom Y Italy Y Spain Y Netherlands Y Ireland Y Finland Y Sweden Y Denmark Y Belgium Y Luxembourg Y Portugal Y Austria Y Greece	SIBIS EU15 plus CH & USA: Y Germany Y France Y United Kingdom Y Italy Y Spain Y Netherlands Y Ireland Y Finland Y Sweden Y Denmark Y Belgium Y Luxembourg Y Portugal Y Austria Y Greece	EISER EU15 regions: Y Germany Y France Y United Kingdom Y Italy Y Spain Y Netherlands Y Ireland Y Finland Y Sweden Y Denmark Y Belgium Y Luxembourg Y Portugal Y Austria Y Greece	eBiz EU15: Y Germany Y France Y United Kingdom Y Italy Y Spain Y Netherlands Y Ireland Y Finland Y Sweden Y Denmark Y Belgium Y Luxembourg Y Portugal Y Austria Y Greece
E-Commerce Telework	E-Commerce	E-Commerce Telework	ICT ICT services	E-Commerce Work, Skills, Employment Education Social Inclusion Health Telecommunication & access R&D eGovernment	IS-related indicators Regional development	ICT eBusiness in 15 industrial sectors
Y General Population Survey (GPS) Y Decision Maker Survey (DMS)	Y General Population Survey (GPS) Y Decision Maker Survey (DMS)	Y Decision Maker Survey (DMS)	Y Older Population Survey (OPS) Y Decision Maker Survey (DMS)	Y General Population Survey (GPS) Y Decision Maker Survey (DMS)	Y General Population Survey (GPS) Y Decision Maker Survey (DMS)	Y Decision Maker Survey (DMS)
GPS: 8000 DMS: 4500	DMS (USA): 500	DMS: 2300	OPS: ????? DMS: 700	GPS: 11500 DMS: 3500	GPS: ? DMS: ?	DMS: ?

SIBIS Topic Research Reports objectives

- Overall aim - a map for measuring the IS developments for each of the topic areas. In particular, providing:
 - a comprehensive base for the translation of policy concerns into a set of IS indicators
 - analysis of current and emerging indicators
 - reports on the results of Topic research activities, i.e. providing comprehensive descriptions of the topic areas, along an agreed structure for each Topic, each being a document (topical discourse and initial statistical indicator descriptions) constituting input for subsequent WPs.

SIBIS Topics

- No. 1: Telecommunications and access
- No. 2: Internet for research
- No. 3: Security and trust

Objective 1:
A cheaper, faster
and secure Internet

- No. 4: Education
- No. 5: Work, employment and skills
- No. 6: Social inclusion

Objective 2:
Investing in people
and skills

- No. 7: e-Commerce
- No. 8: e-Government
- No. 9: Health

Objective 3:
Stimulate the use of
the internet

The work plan towards SIBIS indicators

WP 1

<p><u>Taking stock:</u> Collecting background information</p>	<p>Feb 01 > Jun 01</p>
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- General framework (Task 1.1)
- Policy analysis (Task 1.2)
- Statistical resources (Task 1.3)

WP 2

<p><u>Creating the model:</u> Topic structures and indicator development</p>	<p>Apr 01 > Dec 01</p>
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- Topic Analysis Rep. (2.1)
(April > Sep 01)
- Indicator definition (2.2)
(May > Dec. 01)

WP 3

<p><u>Getting the data:</u> eEurope Surveys (GPS + DMS)</p>	<p>Nov 01 > Apr 02</p>
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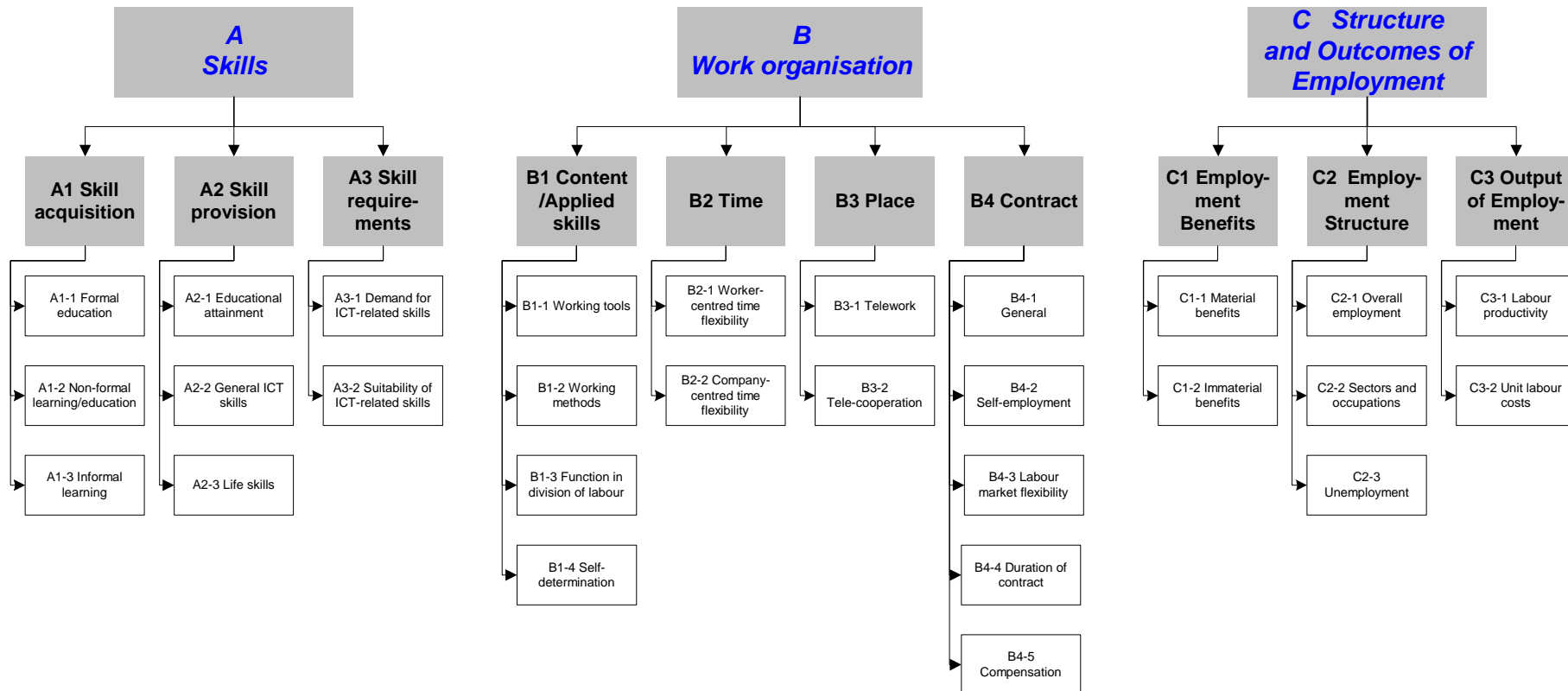
- General Population Survey (Task 3.1)
- Decision Maker Surveys (Task 3.2)

WP 5

<p><u>Analyse the results:</u> Topic Reports</p>	<p>May 02 Aug 02</p>
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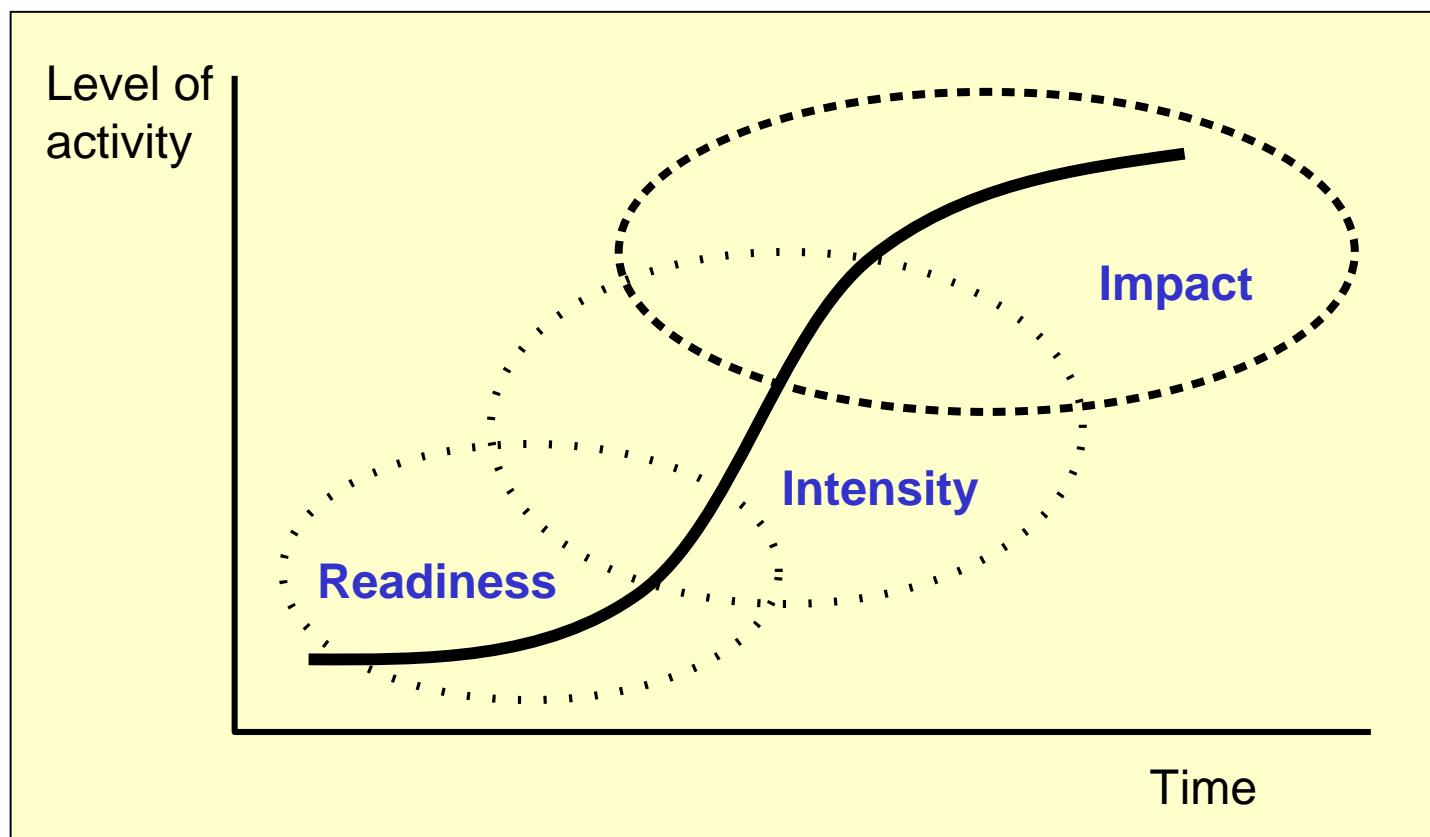
- eEurope Topic Reports (5.1)

Topic 5 - Work, employment and skills



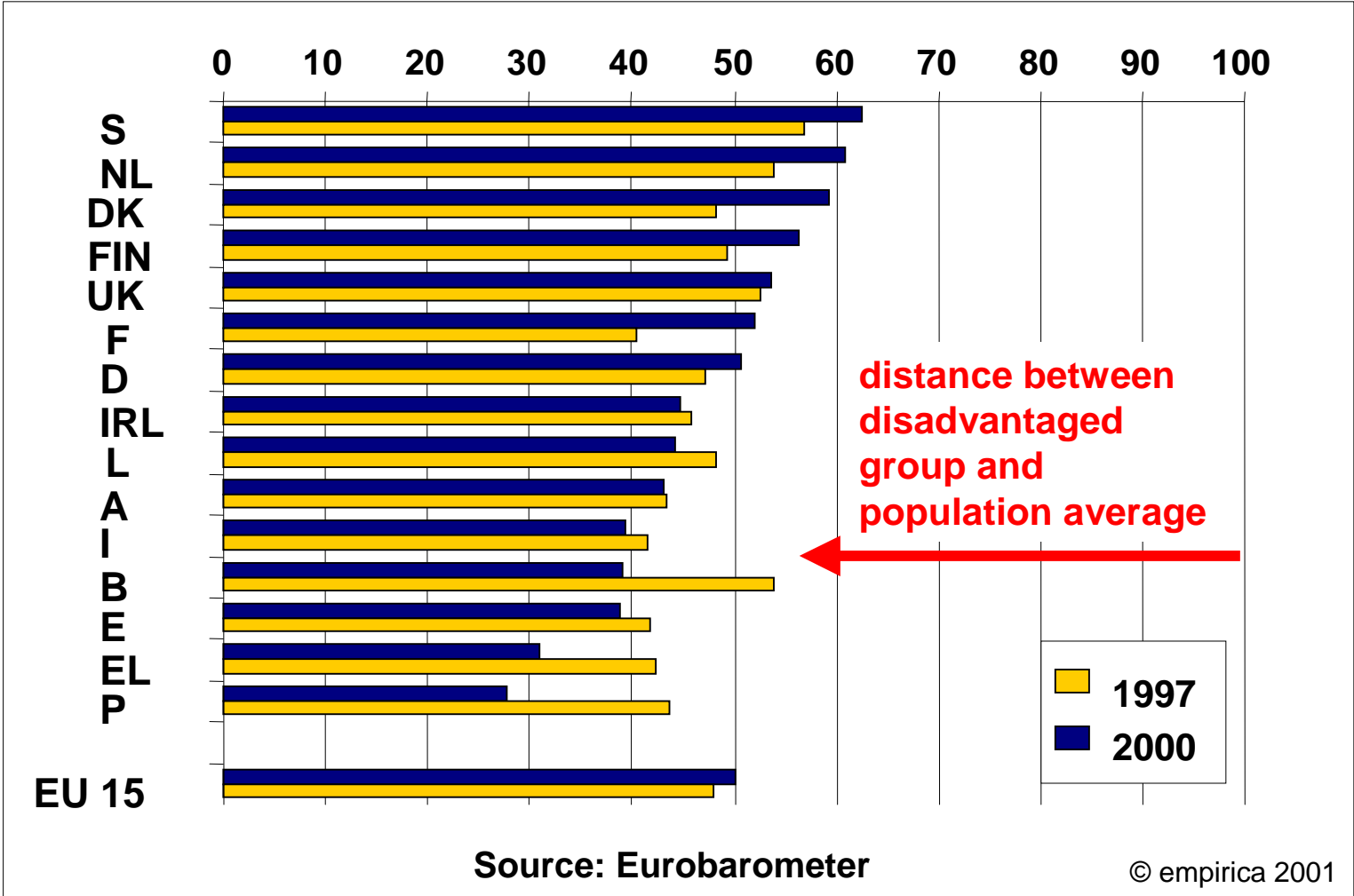
Indicator development by market maturity

Market maturity determines research interest and needs:
WPIIS Model for eCommerce indicators

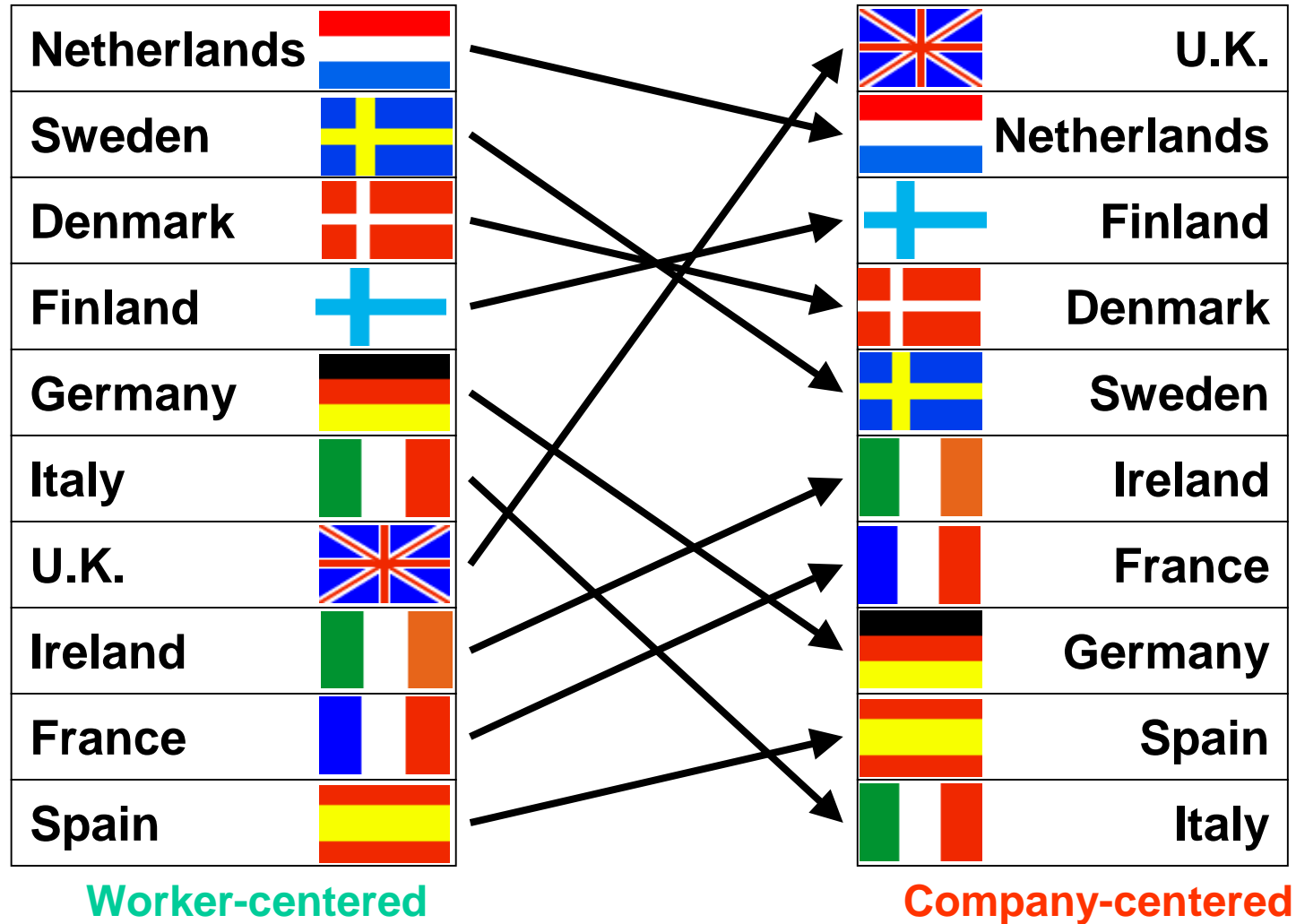


WPIIS = OECD Working Party on Indicators of the Information Society

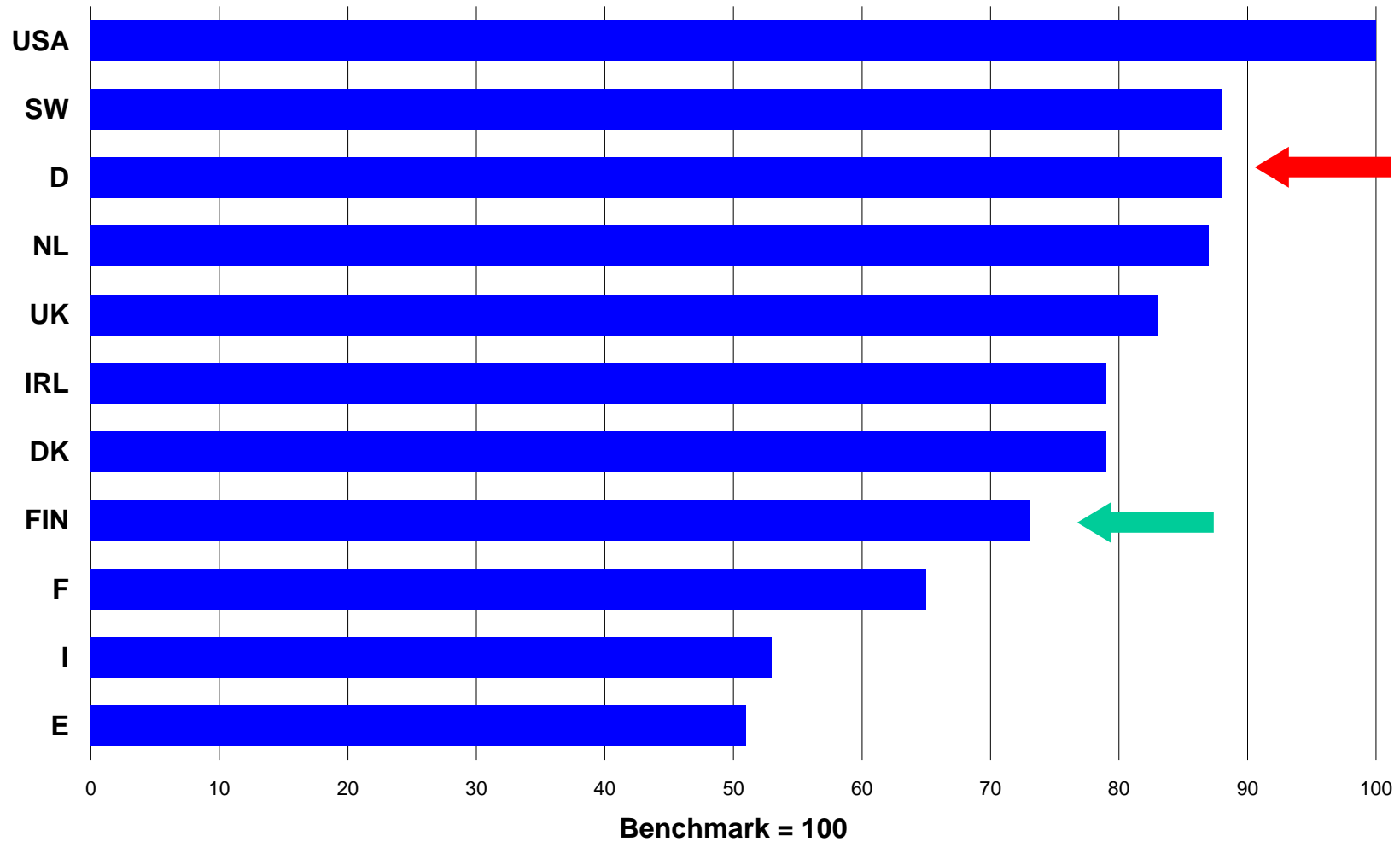
The "DIDIX" 2000: Digital Divide Index



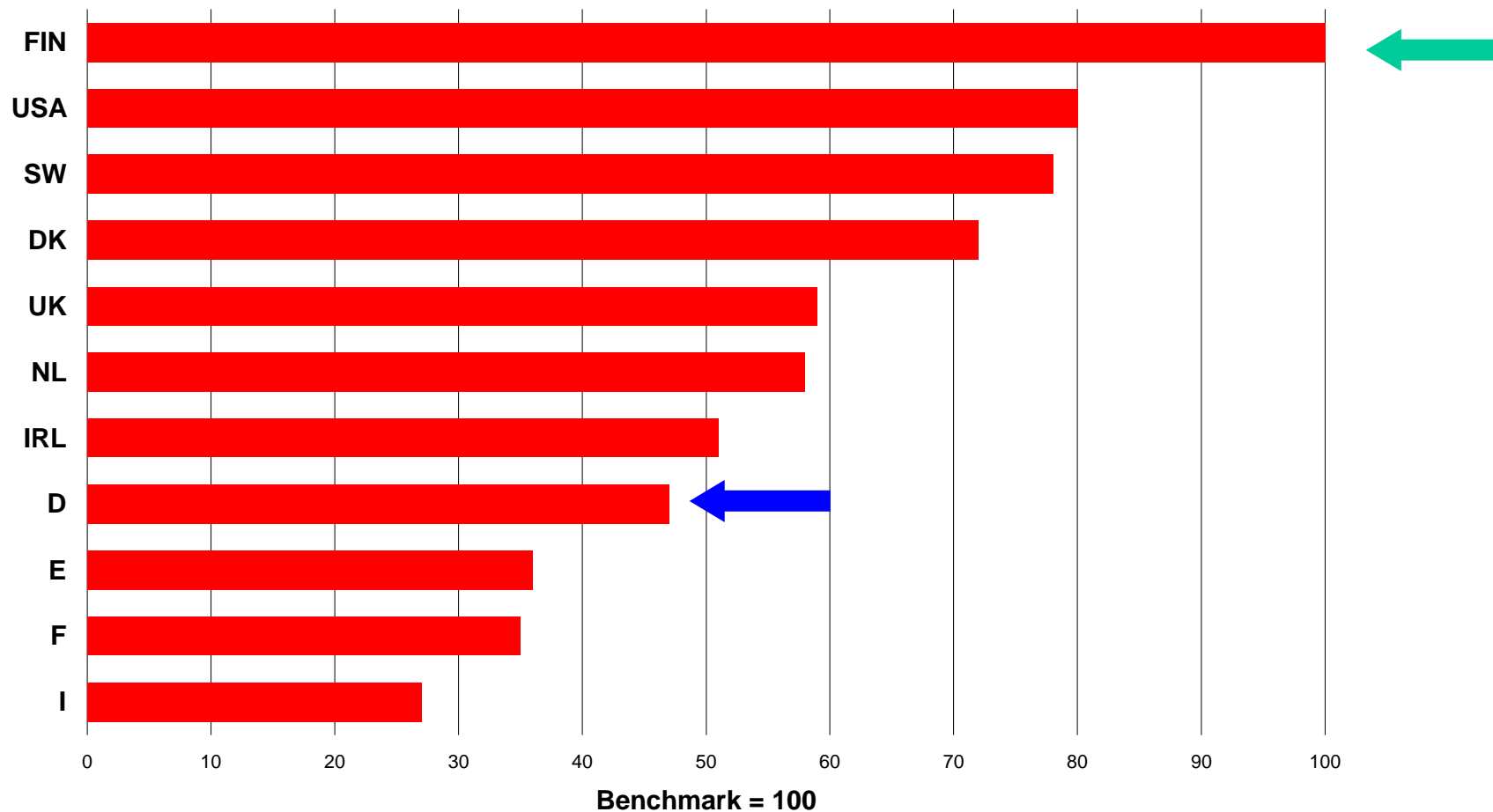
AWAI Index: Adaptability of Work Arrangements Index



E-Commerce Potential Index



E-Commerce Use-Index



SIBIS Advisory Group of Experts (AGE)

- Approx. 25 experts from EU countries and USA
- Differentiation in:
 - AGE Topics
 - AGE Methods
 - AGE Politics
- Interest to join?
- www.sibis-eu.org: „expert area“
- ID = ...
- Password = ...

WP 4: eEurope Evaluation

- Evaluation of 30 selected eEurope actions in all EU-MS
- Evaluation reports will have two sections:
 - Brief introduction to **policy priorities** of eEurope goals in each of the countries
 - Results of a **questionnaire** based local research delivering data about policy implementation & impact in EU-MS (mix of questions aiming at quantitative and qualitative information)
- WP includes 2 evaluation waves
 - 1st wave: 2001
 - 2nd wave: 2002
- Schedule for 2001:
 - 15 September: Finalisation of local data collection
 - 30 November: 1st draft of eEurope Evaluation Report
 - **15 January 2002**: eEurope Evaluation Report (submitted)

eEurope Actions Evaluation and Benchmarking

Action	Total score	% achieved
Internet access measures for schools	45	75%
Incentives for teachers use of digital technologies	42	70%
Implementation of LLU	41	68%
Support of SMEs "Go Digital"	39	65%
Telematic networks in healthcare	37	62%
Laws against Cybercrime	35	58%
Online Public procurement	34	57%
Implementation of digital signature	34	57%
WAI implementation	32	53%
Dev. of infrastructures in LFR	30	50%
Ecommerce Code of conduct	30	50%
IT training measures	30	50%
Digital Literacy measures	26	43%
Telework support	20	33%

LLU: Local Loop Unbundling
 LFR: Less Favoured Regions
 WAI: Web Accessibility Initiative
 SME: Small and Medium Enterprise

Policy Progress Achievement Score

Achievement scores:

- 0 = no explicit activities identified;
- 25% = activities planned, but not yet started;
- 50% = activities launched, but no progress yet visible/measurable
- 75% = activities launched and underway with some measurable progress already achieved
- 100% = mission fully completed, i.e. objective has been realised and is documented

Source: SIBIS consortium 2001

eEurope Actions Evaluation and Benchmarking

Country	Total Score	Max possible score	% achieved
Germany	11	12	92%
Sweden	9	12	75%
UK	9	12	75%
Portugal	8	12	67%
Netherlands	8	12	67%
Austria	7	12	58%
Denmark	7	12	58%
Ireland	7	12	58%
Spain	7	12	58%
Finland	6	12	50%
France	6	12	50%
Greece	6	12	50%
Italy	6	12	50%
Luxembourg	5	12	42%
Belgium	4	12	33%
Total score	106	180	59%
Average EU score	7		

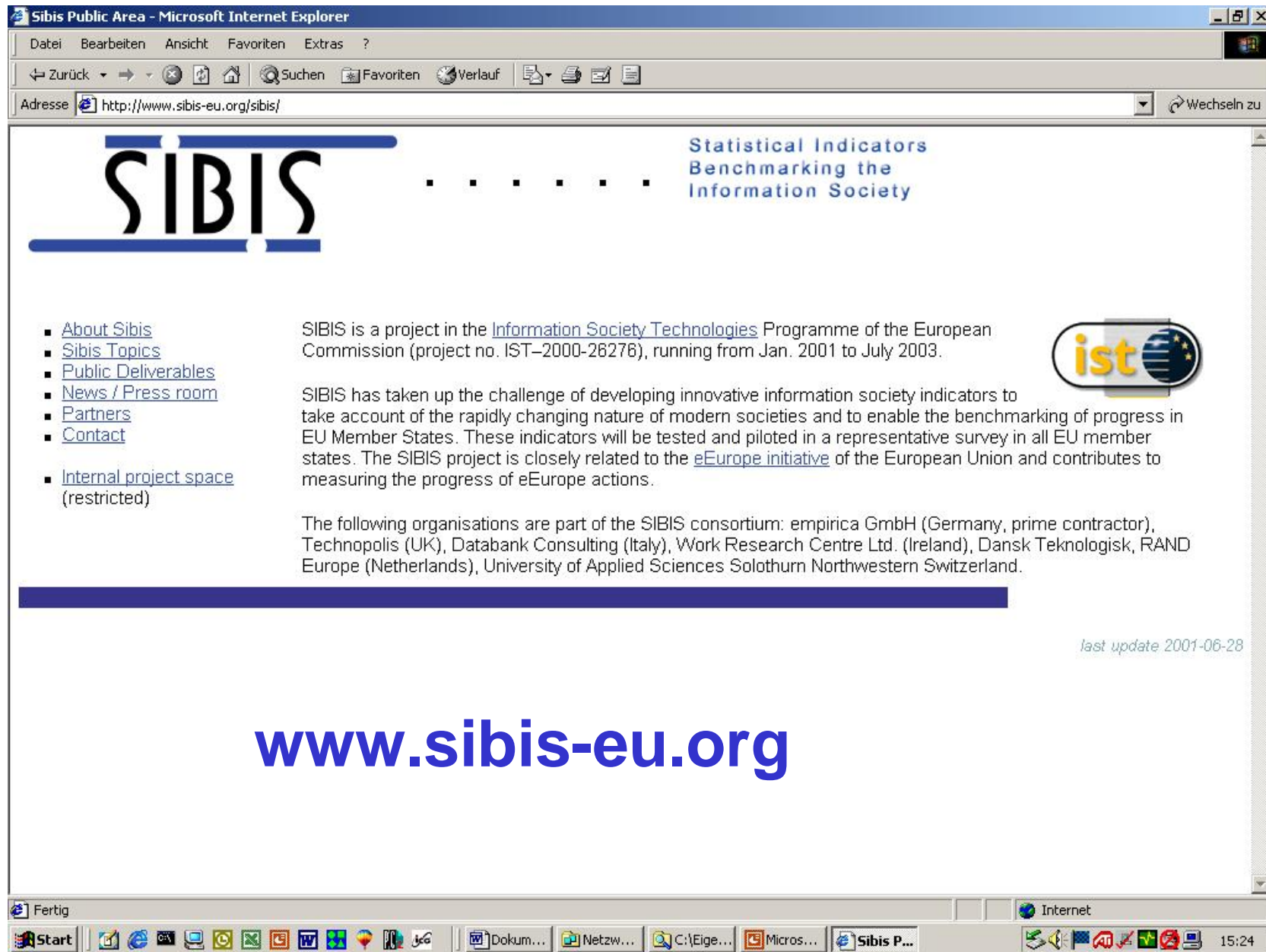
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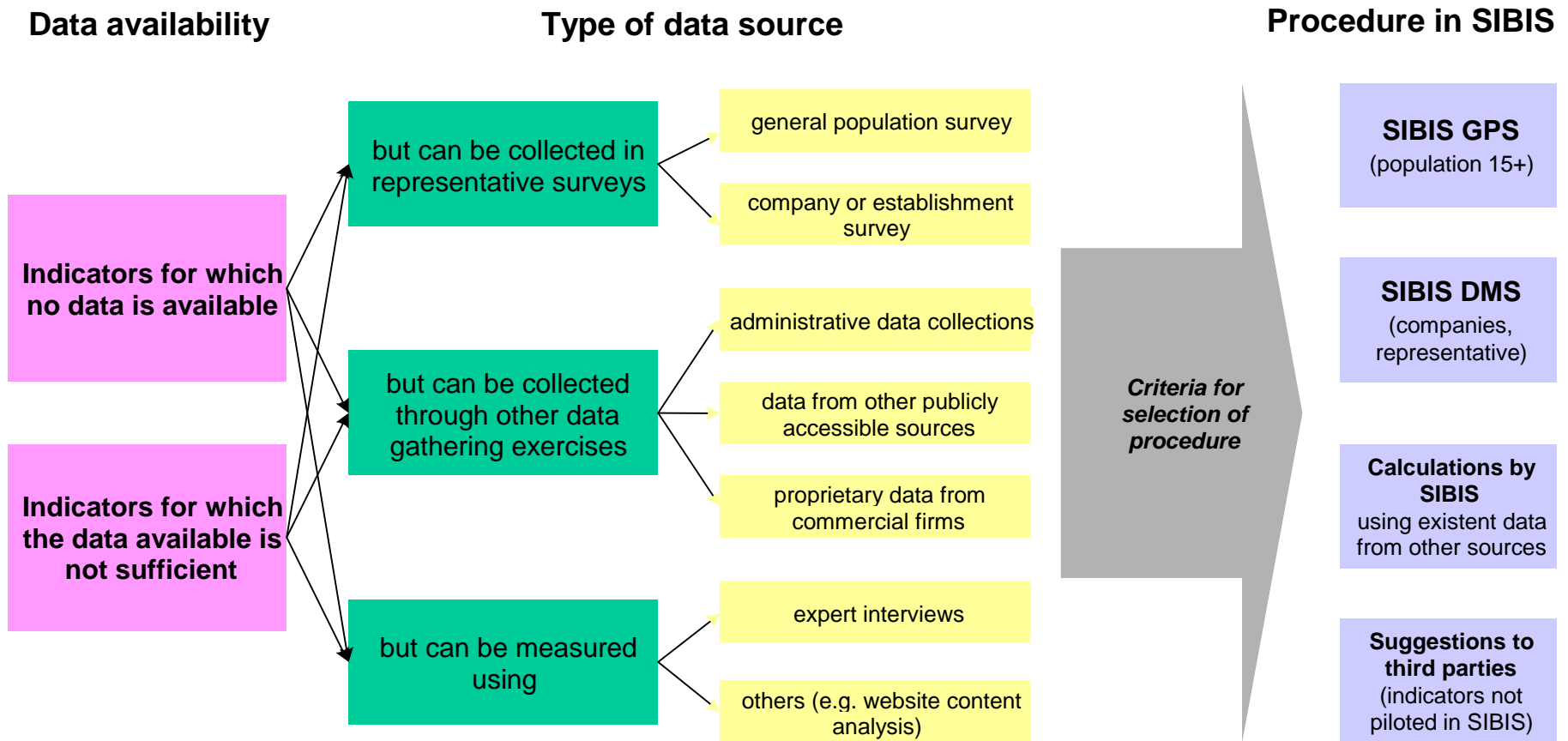
Country ranking according to
Policy Progress Achievement Score

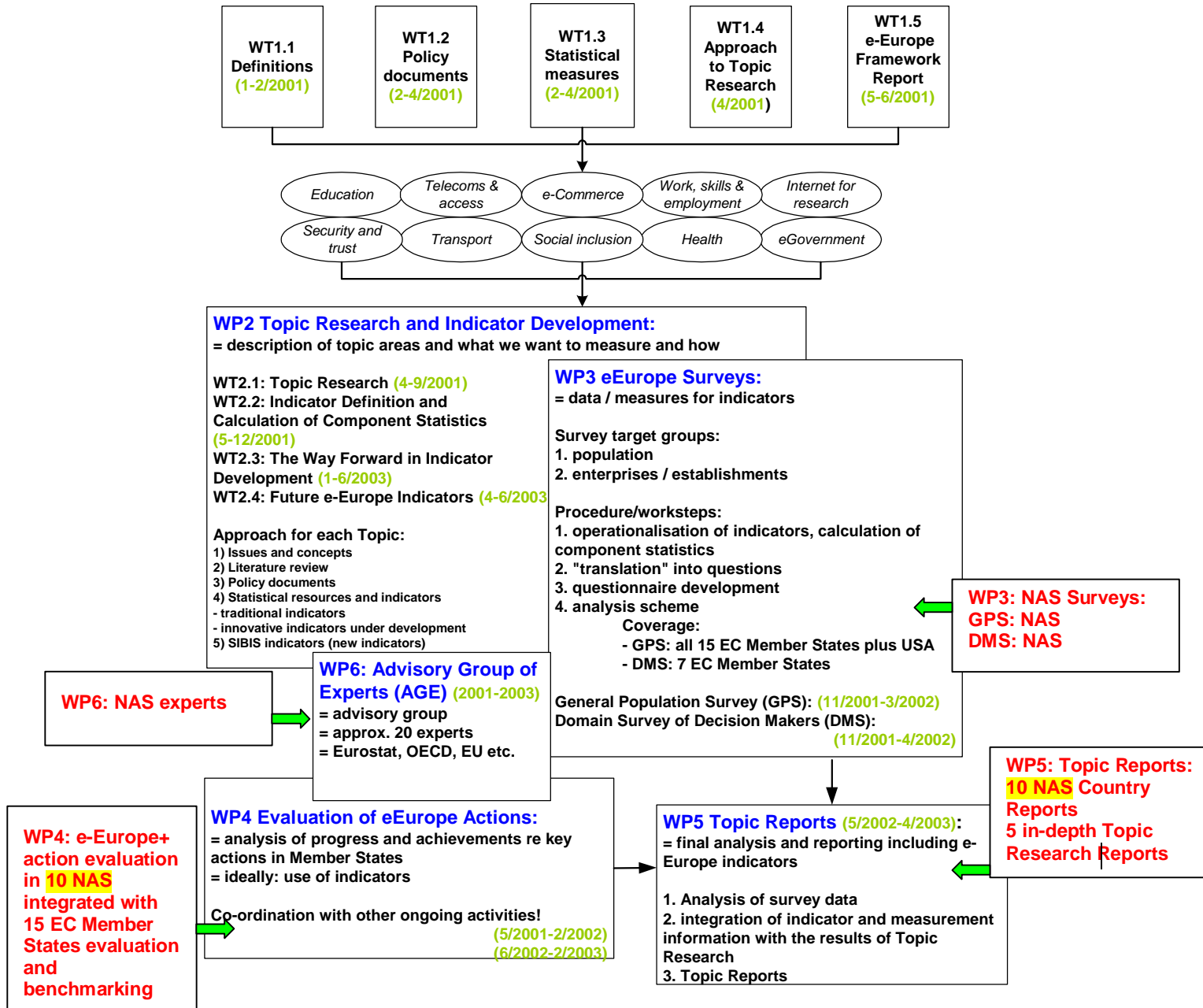


Established vs. innovative indicators

- **Traditional / established indicators**
 - data collected by official statistical organisations on a regular basis, usually long-term data series available
 - high degree of international standardisation in definitions and data collection
- **Innovative indicators**
 - definition recently developed or currently under development, often for a highly specific purpose
 - data either not yet fully available or calculated, or piloted for the first time in surveys
 - candidates to become traditional indicators
- **New indicators (!!!)**
 - indicators specifically developed by the SIBIS project

Indicator development and testing





Major output of the SIBIS project

- 9 Information Society **Topic Reports** (background, concepts, issues, indicators)
- ~ 50 innovative Information Society **Indicators** and calculation of component statistics (to be piloted in the SIBIS surveys)
- **General Population Survey (GPS)** of >10,000 citizens in the EU and the USA
- **Decision Maker Survey (DMS)** of ~ 3,000 establishments
- e-Europe Indicator Handbook
- **Evaluation of 30 key eEurope actions**
- International SIBIS **Conference** (probably as part of an IST conference)

Thank you very much for your attention!

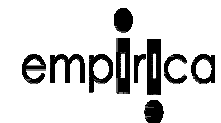
For more information please visit:

www.empirica.com

www.sibis-eu.org

www.ecatt.com

www.seniorwatch.de



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