

# IMPACT ANALYSIS IN DG INFSO PILOT EXPERIENCES AND FUTURE PLANS

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## Outline of the presentation

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- First pilot study based on projects deliverables
- Second, participant-based, study on three domains
- Framework Contract for Impact Analysis



# First pilot based on projects' deliverables

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- Contractor: IZET, Budget: 160.000 €
- Started in April 2003. Final Report delivered in May 2004.
- Scope of the study:
  - Analysis of 890 projects funded by IST, Esprit IV, ACTS and TAP
  - Based on analysis of projects' documents such as final reports and TIPs by external experts

# Lessons learned from first pilot study

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- Difficulty to validate information in available documents.
- Project's deliverables provide only an indication about expected impacts.
- The methodology relied on experts' view regarding the possible expected impact.
- Difficulty to aggregate results at domain level.

## Pilot two: Participant-based study in three domains

- Contractor: Consortium led by Databank with Empirica, Idate and Teleport, Budget: 380.000 €
- Started in January 2004. Final report delivered in November 2004.
- Scope of the study:
  - Analysis in three IST domains in FP4 and FP5 / “Health Applications” “Mobile Communications and Systems” and “Microelectronics and Microsystems”.
  - Study based on a questionnaire survey of projects participants + 18 key stakeholders interviews.



## Impact Study - Study target and sample

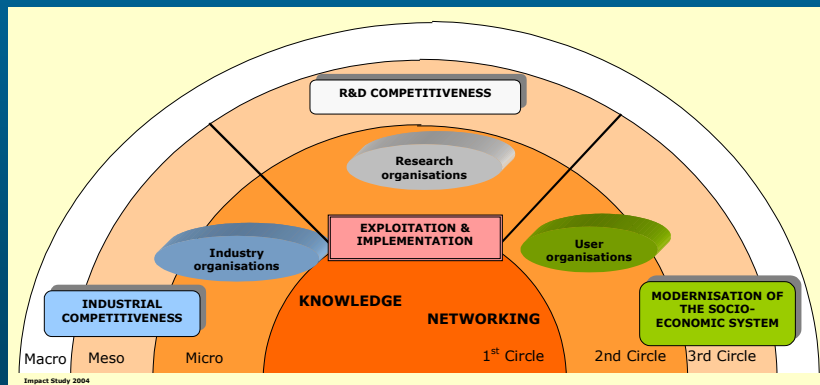
Total projects: 619  
 Partner organisations contacted: 4.133  
 Questionnaires return rate: 31% of projects  
 6,3% of participants  
 (260 respondents)

	MICRO	MOBILE	HEALTH	TOTAL
<b>Projects</b>	<b>261</b>	<b>98</b>	<b>260</b>	<b>619</b>
<b>Projects represented in the sample</b>	<b>73</b>	<b>50</b>	<b>70</b>	<b>193</b>
<b>Return rate of projects</b>	<b>28%</b>	<b>51%</b>	<b>27%</b>	<b>31%</b>

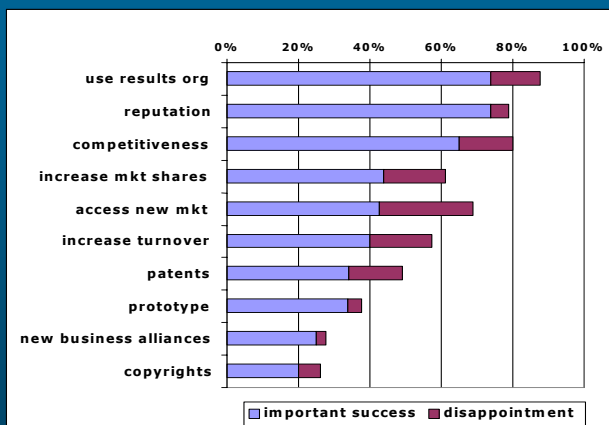
Source: IST Impact Study 2004



# The IST Programme's Role in the Innovation System



## Goals attainment for Business Organisations

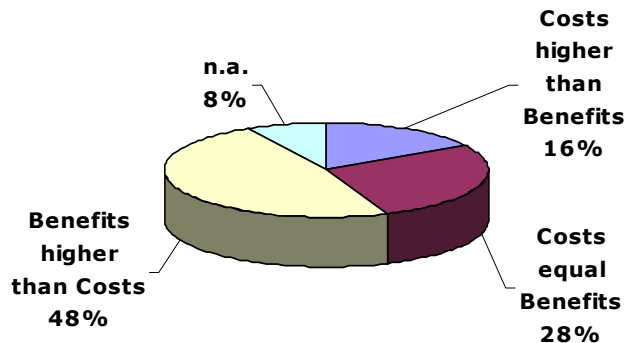


IST Impact Study, 2004

Base: 80 respondents

# Cost/benefits ratio

Ratio Costs Benefits

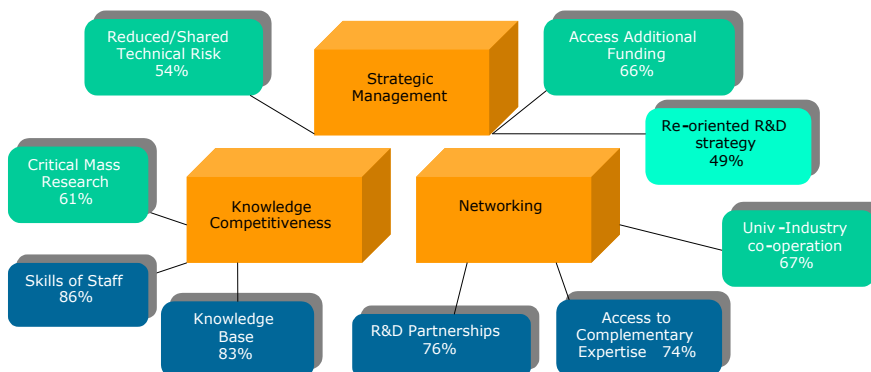


IST Impact Study, 2004

Base: 191 resp. RTD projects



## Building Competitiveness through Knowledge



IST Impact Study, 2004

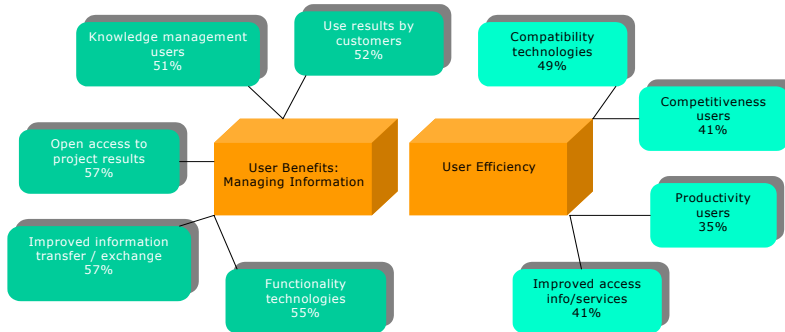
Medium to High Impact Achievements% of respondents

Base: 191 resp. RTD projects

Almost all (71 -90) Majority (51 -70) Half (35 -50) A quarter (21 -34) Minority (<20)



# User Benefits & Efficiency



IST Impact Study, 2004

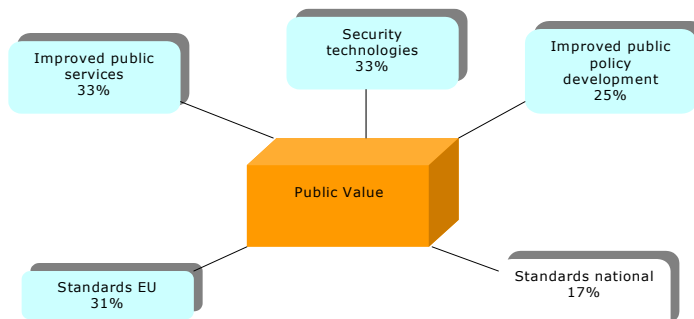
Medium to High Impact Achievements - % of respondents

Base: 191 resp. RTD projects

Almost all (71-90) Majority (51-70) Half (35-50) A quarter (21-34) Minority (<20)



# Public Value



IST Impact Study, 2004

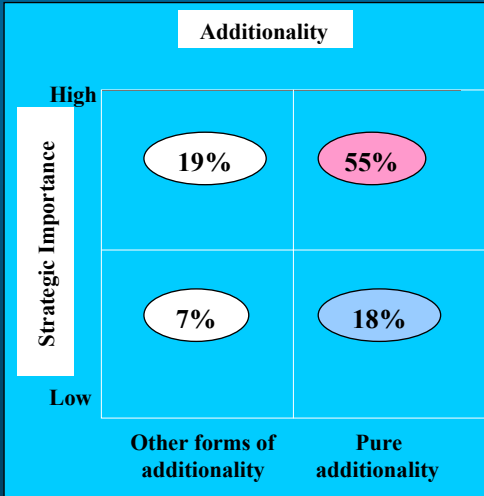
Medium to High Impact Achievements - % of respondents

Base: 191 resp. RTD projects

Almost all (71-90) Majority (51-70) Half (35-50) A quarter (21-34) Minority (<20)



# Additionality



73% agree that without EU funding the project would not have been undertaken

## Mobile domain - main results

- High knowledge and skills impacts
- Project chains: greater support from EU funds, greater presence of “pure” EU chains: research focused on European themes
- Different results between FPs: decrease of technological risk profile and strategic centrality
- Higher presence of large projects with relatively high impacts

## Micro domain - main results

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- Highest impacts in knowledge and networking compared to the other domains
- Higher impacts for university-industry co-operation and the reduction of technical risk (thanks to co-operative research)
- Combination of IST and Eureka funding very effective. Difficulty to isolate relative impacts.
- High appreciation for take-up measures combining pilot suppliers and users such as Semiconductor Equipment Assessment (SEA)

## Health domain - main results

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- Greater tacit knowledge transfer, through the transfer of RTD personnel to industry and university
- FP support has contributed to improve awareness of e-health opportunities and potential benefits
- Exploitation and implementation were lower than expected
- Difficult and complex MS environment: highly regulated sector, lagging behind all other sectors in IST application



## Conclusions from second pilot study

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- For 65 % of respondents, improving competitiveness is an important goal which has been successfully achieved
- For ~50 % of participants benefits obtained are definitely higher than costs:
  - For 76 % benefits are at least equal to costs
- Access to complementary skills and R&D partnerships amongst the highest benefits for the participants (~75%)
- For 55% of respondents European funding allowed research projects of high strategic value to be carried out
  - Without EU funding, this research would not have been done

## Methodology lessons

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- For meso-level analysis, use of survey questionnaire + stakeholders interviews is effective, but need to include a study on the competitive characteristics of the sectors.
- The stakeholders sample should be wider than in this study, segmented in order to achieve a qualitative representativeness of main constituencies in the relevant market sector.

# Framework Contract for Impact Analysis

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- **Objective:** Allow the systematic impact analysis of all RTD activities financed by INFSO, starting from FP5
- **Common methodological approach** which takes into account the specificities of each area but allows the aggregation of results. Methodology based on participants questionnaire surveys, stakeholders' interviews, competitiveness studies, etc.
- **Budget:** 2M€/year for 3 years
- **Current status:** Framework contract signed in Sept. 6 domain assignments to be launched before end 2005



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## Impact Analysis Further information

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Information about DG INFSO's impact analysis activities is available on:

<http://www.cordis.lu/ist/about/impact-analysis.htm>

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