



Benefits of Data Sharing

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Data Sharing



What is data sharing?

The practice to make data available to others who might take advantage of it?









Data Sharing



Why sharing data from research point of view?

- Encourages scientific enquiry and debate
- Promotes innovation and potential new data uses
- Leads to new collaborations between data users and data creators
- Maximises transparency and accountability
- Enables scrutiny of research findings
- Encourages the improvement and validation of research methods
- Reduces the cost of duplicating data collection
- Increases the impact and visibility of research
- Provides credit to the researcher as a research output in its own right
- Provides great resources for education and training











Data Sharing



Why sharing data from government point of view?

















Data sharing



What are the benefits?

- For provider
- For the society
- For the political system





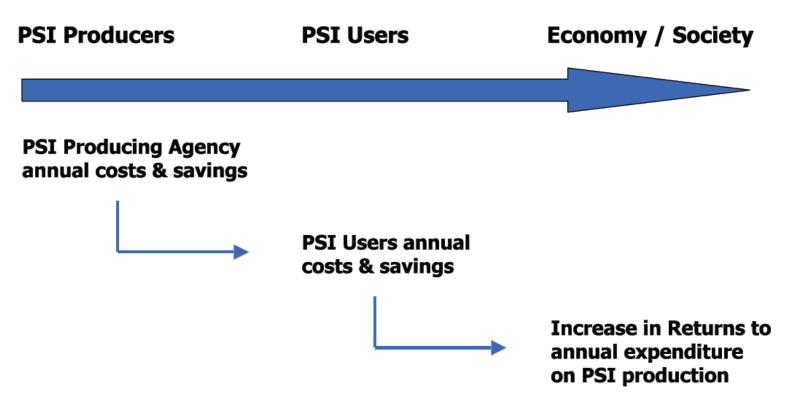




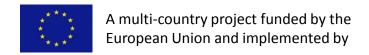


Cost-Benefit Framework





Houghton, 2011





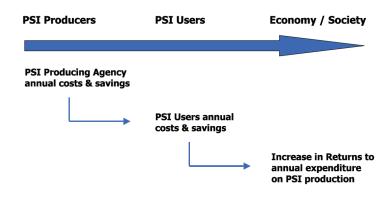


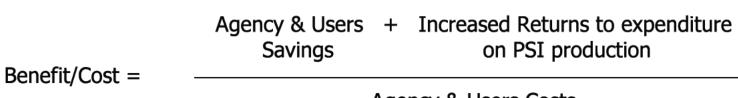




Cost-Benefit Framework







Agency & Users Costs











Common good



- Information is a "public good"
 - Non-excludable and non-rival
 - It good is considered as <u>non-excludable</u> "when it isn't possible to prevent people who have not paid for it from having access to it"
 - The use of the good doesn't degrade the value of the good itself
 - "a good is considered <u>non-rival</u> (non-subtractable) if, for any level of production, the cost of providing it to a marginal (additional) individual is zero."
 - Multiple consumable, infinitely expansible
 - Spreading and distribution of information is difficult to restrict
- Information as a distributable good is under-produced by the private sector
- Important role of the information from the public sector









Costs of Open Data



- Technology costs
 - Implementation set-up costs (e.g. design, hardware, software development)
 - Management costs
 - Maintenance costs

Technology costs strongly depends on technical approaches and organisational issues









Costs of Data Sharing



- Processes costs
 - Changes in organisational models
 - Training
 - Coordination
 - Consultation
 - Promotion and user integration
- Some of the costs for processes affect only dedicated levels of governmental system









Benefits



Shared Information as business case

- For decision makers
- For the economy and education
- For the public

"A business model describes the rational of how an organization creates, delivers and captures value."

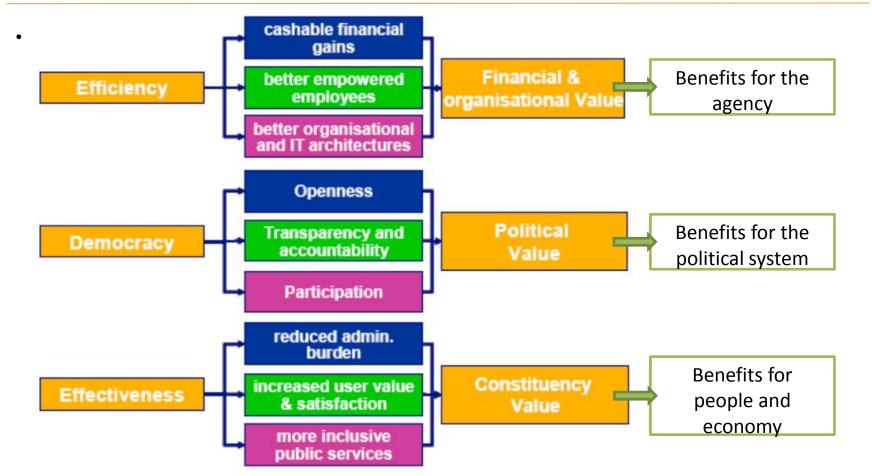




















Efficiency



- Efficiency → Financial and organisational value
 - Monetary gains and cost savings (Agency & User)
 - Savings in time
 - Saving in consumables
 - Distribution with no marginal costs
 - Personal and staff
 - More motivated and higher qualified staff
 - Organisational improvements
 - Streamlining of processes and information flows
 - Time savings by redesigned processes)
 - New processes (eCommerce)
 - Interdepartmental data sharing
 - New synergies and communication channels











Effectiveness



- Effectiveness → Constituency Value
 - Benefits for residents
 - Time savings and increased efficiency of citizen and economy
 - User satisfaction
 - Reduced administrative burden
 - Increased usage of governmental data
 - Increased value of governmental services
 - Extension of services and innovation
 - Information infrastructure (SDI) as common knowledge and basis for innovation
 - Development of new services based on data available
 - New data will be available from public and private sources
 - Increased productivity on national level





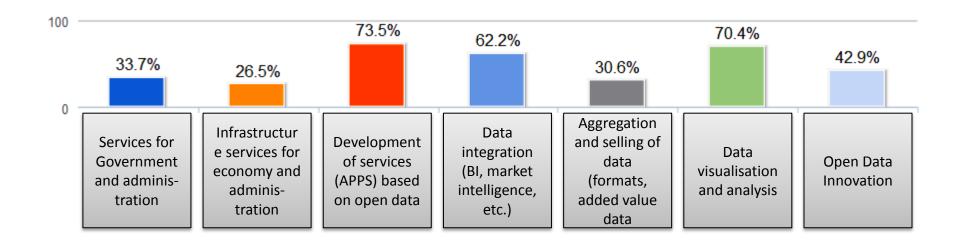




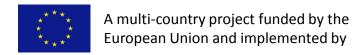
Efficiency



- Efficiency & Effectiveness
 - Economic potential of OGD



Quelle: OKFN/ Futurezone.at, 2012, S. 4. (translation from German done by C. Ansorge)







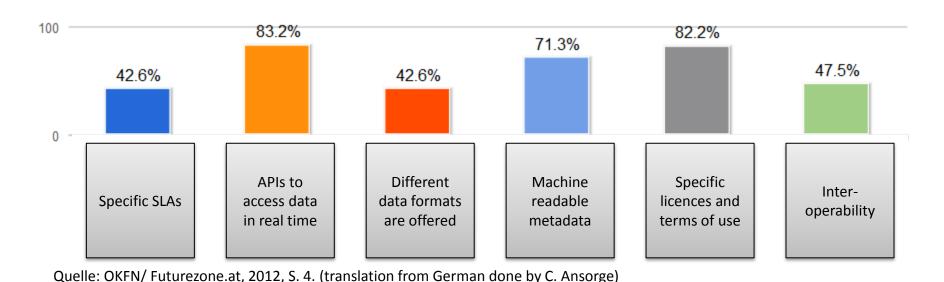


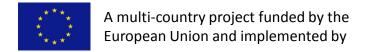


Efficiency



- Efficiency & Effectiveness
 - Success criteria for specific business models













Democracy & SDI



How can SDI lead to an increased political value?

- Openness
 - Interactive services and web access
 - Citizen and economy can discover data available
- Participation
 - Feedback from citizen and economy regarding needs or requirements
- Transparency and accountability
- Increased public awareness for the governmental activities and measures









Opportunity costs



What are the costs if you act?













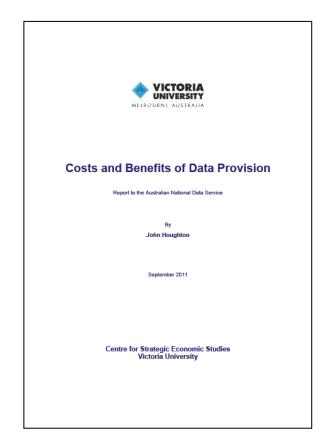




Literature



- http://ands.org.au/resource/houg hton-cost-benefit-study.pdf
 - The costs and cost savings experienced by PSI producing agencies involved in the provision of free and open access to information;
 - The costs and cost savings experienced by the users of PSI in accessing, using and reusing the information; and
 - The potential wider economic and social impacts of freely accessible PSI









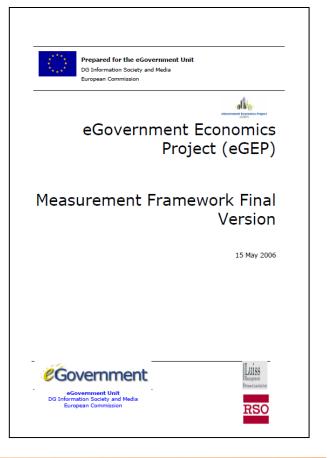


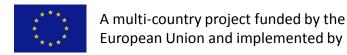


Literature



- http://www.umic.pt/images/st ories/publicacoes200709/D.2.4
 Measurement Framework fi nal version.pdf
- eGovernment Economics Project
 - Benefit Model used by Catalonia Study (JRC)
 - Indicators for measuring, penetration and success of SDI







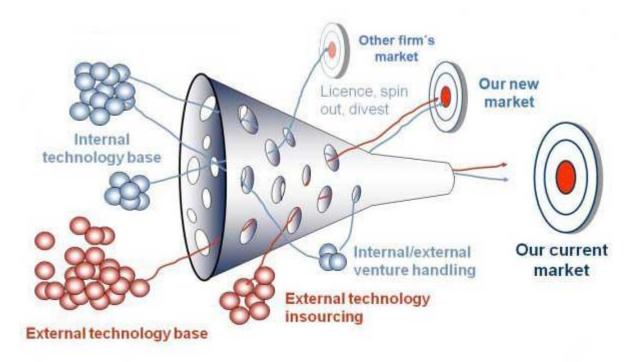






Open Innovation





Stolen with pride from Prof Henry Chesbrough UC Berkeley, Open Innovation: Renewing Growth from Industrial R&D, 10th Annual Innovation Convergence, Minneapolis Sept 27, 2004

Thank you very much!











References



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References



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 - http://opendatahandbook.org
- Open Definition
 - http://opendefinition.org/









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