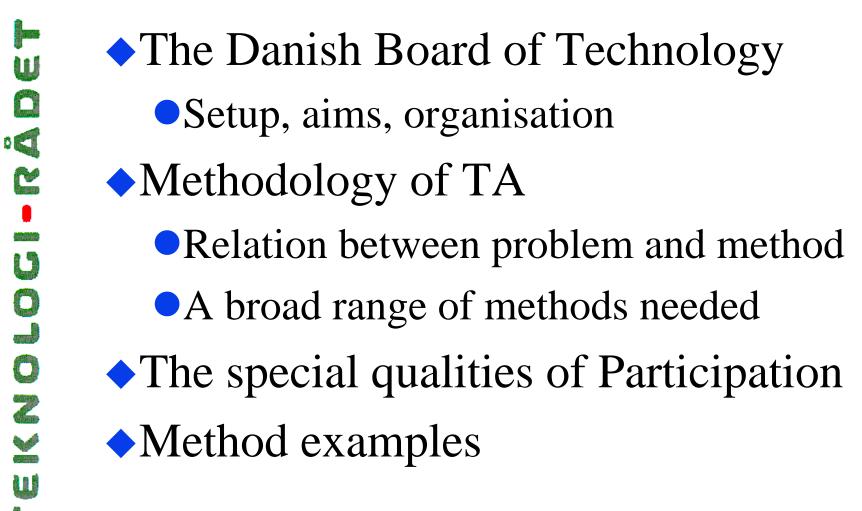
Societal Interaction in Sci/Tech Policy Analysis

Director, Lars Klüver The Danish Board of Technology

Japan, June 2004

Overview of presentation



Danish Board of Technology

Constituted by law 1985 + 1995

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- Self governing, independent institution
 - Connected to Ministry of Science, Technology and Development
 - Formal link to Committee of Science & Technology, Danish Parliament
- Chairman, Board, and Board of Representatives appointed by Minister and Committee of Science

Aims & Objectives

- Follow the technological development
- Carry out comprehensive assessments on
 possibilities and consequences of technology
 for society and the citizen
 - Communicate results to decision-makers and the population, and to support the technology debate
 - Give advice to Parliament and Government

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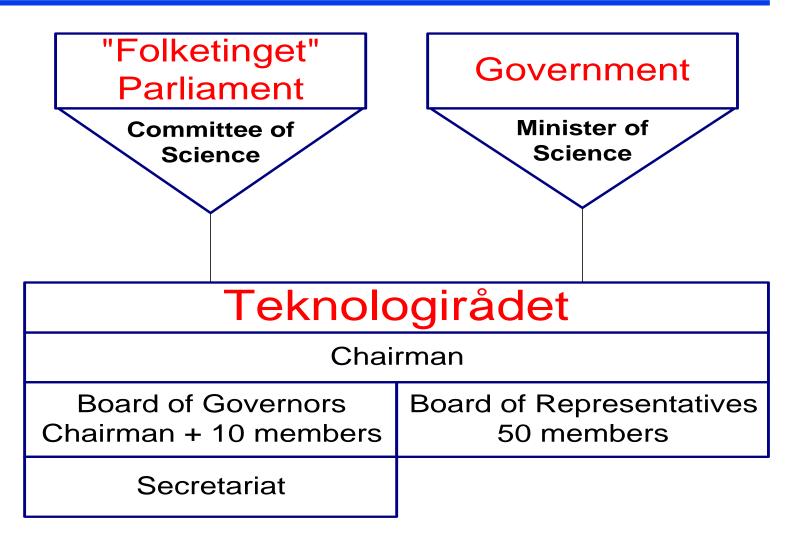
Organisation

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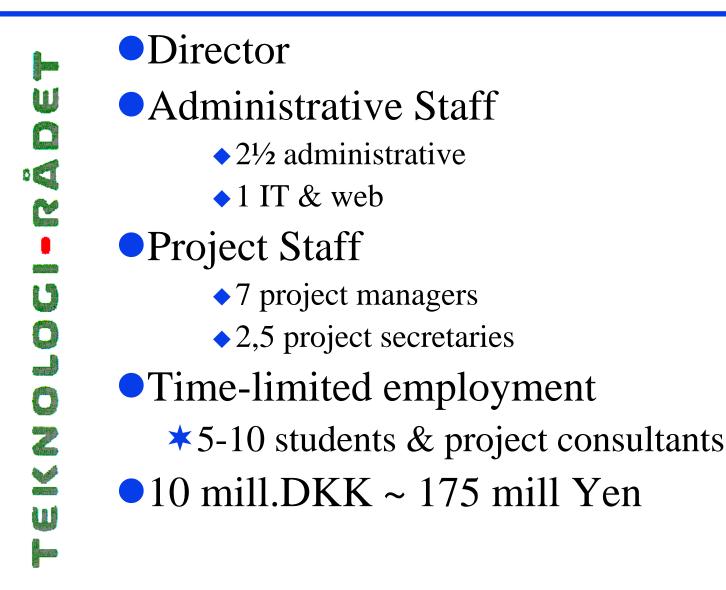
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The Secretariat



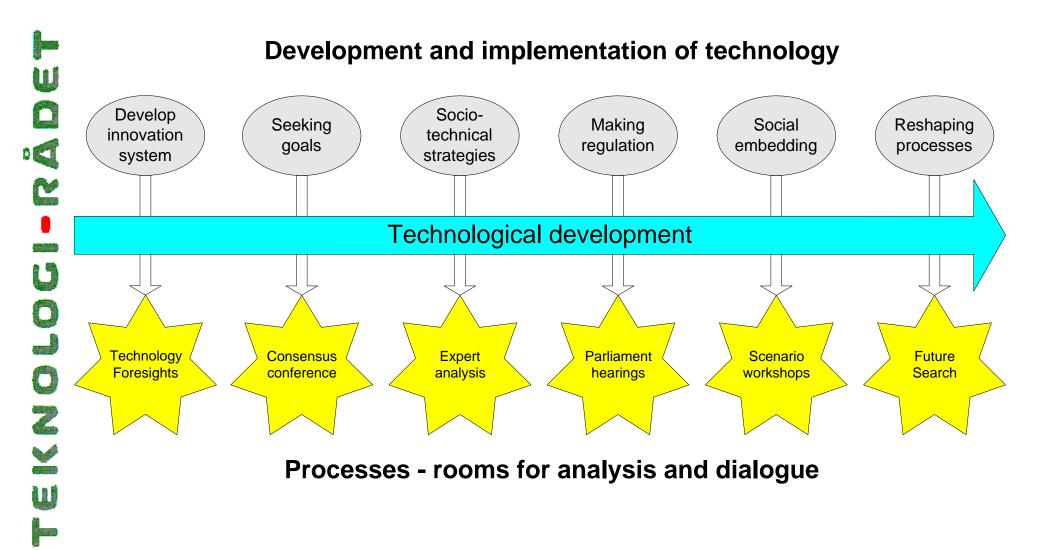
DBT principles of PTA methodology

- Supply focus, needed by decision-makers
- •Use the **knowledge** and **tools** of experts
- Include norms and interests of stakeholders
- Include experience and values of citizens
- Make transparent and fair processes
- Build upon the democratic traditions

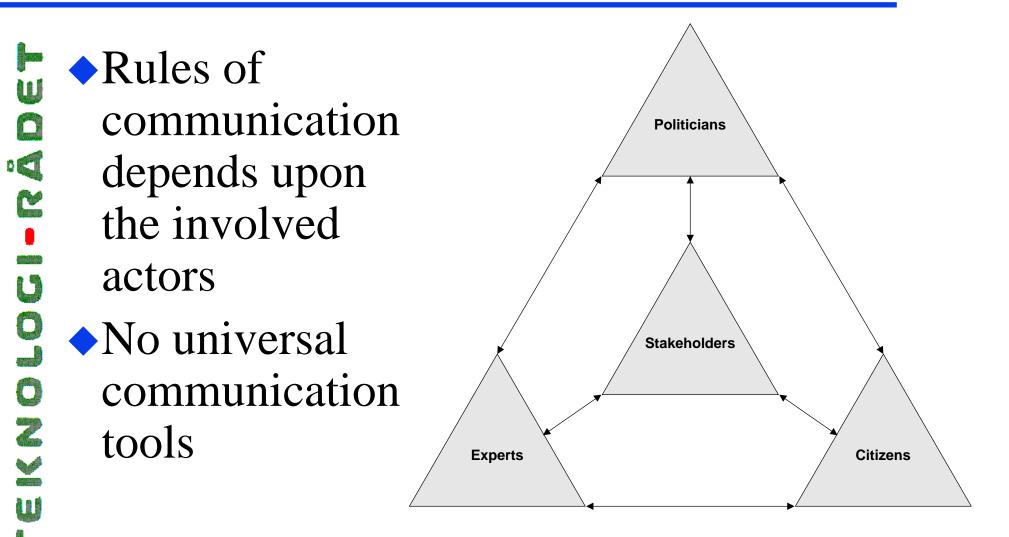
3 dimensions of policy analysis

V	Dimension	Method demand	Actors / functions
2 2 2	Cognitive	Establish knowledge-base; suggest knowledge based solutions	Experts; Users / Operative aims
	Normative	Uncover and share norms and values	Citizens; Stakeholders / Networking; Social learning
С К S	Pragmatic	Create legitimate and accepted solutions	Decision-makers; Networks; Citizens / Transparent procedures

Demand and response



Technology assessment is communication



Aim & situation determines the tool

- Do we look for knowledge, norms or solutions?
- Whom should speak with whom?
- Point of technology innovation
- Timing

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- State of political/public/scientific debate
- Governmental policies / political agenda
- What role can be played?
- What does it take to intervene?
- Demands for credibility



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Some tools at the DBT

- Citizen Consultation
 - Consensus Conference
 - Citizen Summit

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- Perspective Workshop
- Interview Meeting
- Voting conference
- Stakeholder involvement
 - Future Search
 - Policy Exercise
 - Scenario Workshop

- Expert Analysis
 - Work Groups
 - Conferences & Workshops
 - Structured Brainstorms
- Advisory function
 - Parliamentary Hearings
 - Future Panel
 - Early Warning; Briefings
- Public Debate
 - Local Debate Fund
 - Debate Products/ www

Societal interaction in TA

- Involve new players to pool knowledge, exchange views and find new paths
- As independent third part, make platforms for constructive stakeholder dialogue
- Give voice to citizens. As persons, consumers, taxpayers, and legitimate democratic assessors

pTA: Expanded TA mission

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Including open processes of assessment, to: Ensure a common, diverse knowledge-base Channel dialogues on interests and values Involve else overlooked players •Be able to deal with uncertainty Make broadly accepted solutions Integrate communication into the process

Impacts of participation in TA

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	Raising knowledge	Forming attitudes	Initialising action
Tech/Sci aspects	SCIENTIFIC ASSESSMENT * Technical options assessed and made visible * Comprehensive overview on consequences given	AGENDA SETTING * Setting the agenda in the political debate * Stimulating public debate * Introducing visions or scenarios	REFRAMING OF DEBATE * New action plan or initiative to further scrutinise the problem decided * New orientation in policies established
Societal aspects	SOCIAL MAPPING * Structure of conflicts made transparent	MEDIATION * Self-reflecting among actors * Blockade running * Bridge building	NEW DECISION MAKING PROCESSES * New ways of governance introduced * Initiative to intensify public debate taken
Policy aspects	POLICY ANALYSIS * Policy objectives explored * Existing policies assessed	RE-STRUCTURING THE POLICY DEBATE * Comprehensiveness in policies increased * Policies evaluated through debate * Democratic legitimisation perceived	DECISION TAKEN * Policy alternatives filtered * Innovations implemented * New legislation is passed

Why participation?

- For principle reasons
 - Searching social coherence
 - Managing uncertainty and inequality
 - Involving the involved
 - Citizen and affected as democratic basis
- And for professional
 - Managing communication
 - Including broad knowledge and value base
 - Ensuring results to have high credibility

Prerequisites

Political culture of "open democracy"

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- Institutional setting allows for expansion of method range into open TA processes
- Budget makes public events possible
- <u>Staff competencies</u> as process managers
- Involved <u>actors back up</u> initiatives
- Institution trusted as independent 3rd part

Future Search Method 1

- When the situation is blocked
 - Everyone knows the problems
 - •No-one are allowed to solve them
- All actors in the same room for 3 days
 - Takes responsibility for the past
 - •Agree on the present situation
 - •Agree on vision
 - •Make action plans

Future Search 2

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- Sustainable hunting in Greenland, results:
 - Education plans on sustainable hunting
 - •Rules on weapon use
 - Independent council on sustainable use of nature

Interview Meeting 1

- When polling or focus groups are not enough:
 - •Reflected, informed answers needed
 - •Qualitative as well as quantitative data
 - The answers, as well as the reasons for the answers

Interview meeting 2

- 25-50 participants
- **◆** ¹⁄₂ day:
 - Information on topic
 - Dialogue with experts
 - Filling out questionnaire
 - Group Interviews with 6-8 people groups
- Animal Cloning, November 2003
- Nano-technology, May 2004

Work Plan 2003

- Future of the Patenting System
- Medical Treatment of Life-style
- Vulnerability of ICT Infrastructures
- Oil Depletion
- New Climate New Strategies
- Alternatives to Animal Testing
- Children, health and the Environment
- Digital Rights and Free Information

Work Plan 2004

- Energy System scenarios (Future Panel)
- ICT Privacy (Expert Work Group + International Assessment)
- Globalisation of Knowledge Intensive Work (Expert work Group + Conference)
- Chemical Producing GMOs (Citizen Jury)
- Breakdown of private/work borders (Debates)
- Pervasive Health Care (Workshop and Conference)