Scientific Empowerment of Civil Society through the Science Shops: Science for Citizenship

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## 1. Problems of Citizens in Advanced SciTech Society

Profound impacts of S&T in both positive & negative aspects.

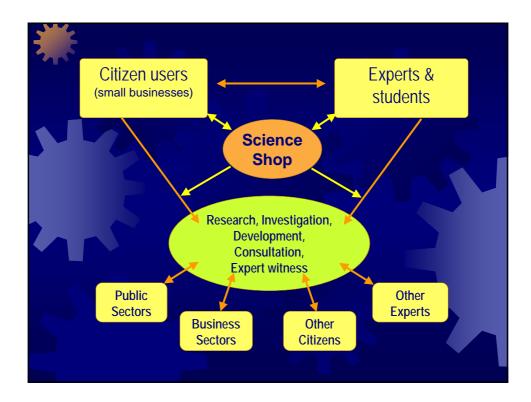
 Indispensability of SciTech literacy for people's daily, social, political lives, but it is in fact limited and little help.

- Too many disciplines, too much information to learn, but people are occupied by their own business.
- Problems faced with people are often highly contested, uncertain even for experts.
- CSOs(NPOs/NGOs) have accumulate their own expertise and experience in various fields, but not in scitech.
- Scitech experts' accountability is limited to business needs, people's scitech needs are left behind promotion of academic-industry alliance.
- Deep mutual distrust between the public, experts, government and industries.

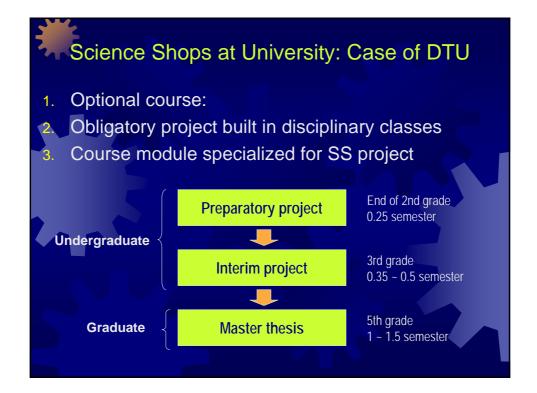








Types of Science Shops								
	HOST: MODEL:	University base Dutch Model		d US Model	Mixed (University-based and independent)		Non-university based	
	LOCALE:	Central Office	Faculty Office	CBR Centres	CURA	NGO as incubator	NGO (Univ. related)	NGO (Non-univ. related)
	COUNTRIES:	Netherlands Denmark Germany Austria UK (Norway) USA/Canada Australia South-Korea Malaysia	Netherlands Denmark Romania South-Africa USA/Canada	USA Denmark (Canada)	Canada	Israel	(Germany) (Austria) USA	Germany Austria USA
	MODE:	Mediation Some: Internships	Research Mediation	Participatory action research (PAR)	Participatory research	Mediation	Mediation Research Some: Participatory	Research Some: Participatory
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## Knowledge needs of users

- Problem documentation: the citizens group experiences a problem, which they want documented in order to make governmental authorities, companies etc. aware of the problem. This can also include counter-expertise.
- Knowledge enhancement: the citizens group wants knowledge about possible future changes in technology, public policy etc. within a field of industry or a region, in order to be able to participate in the shaping of the future.
- Perspective change: the citizens group wants assistance in developing preventive solutions to a problem, in order to support their efforts for social and environmental improvement.

(Michael Søgaard Jørgensen. "An introduction to the concept of science shops and to the Science Shop at The Technical University of Denmark", January 2001.)



