Handout 2. Advantages and disadvantages of the different operational choices for Science Shops

1. Advantages and disadvantages of the different organisational models

	Advantages	Disadvantages
Pop up / pilot	 Flexible, don't require huge resources (staff or funding) Can be used to pilot activity before committing resources 	 More difficult to establish reputation and branding
University: Centralised	 Cross-university engagement Able to respond to wide range of research needs and topics Often more embedded in university's strategy & funding 	 Can require dedicated funding and coordination Reliant on cross-university support
University: Faculty specific	 Closer to staff and students undertaking the research Easier to coordinate 	 More difficult for CSOs to approach Offers limited research scope to CSOs (if no other Science Shops within the university)
University: Regional	 Provides a central regional contact point for CSOs Shared knowledge and networking opportunities 	 Requires an additional level of coordination



Based within NPO / SME	 Access to support and expertise within the mother organisation (e.g. financial, marketing & communications) Can utilise mother organisation's visibility and reputation for branding and marketing 	 May be limited in capacity due to other demands (how many projects can be done)
Independent legal entity	 Freedom and flexibility (with regard to how it is run, funded, branding, etc.). 	 Funding insecurity as fully dependent on external funding No access to additional support & resources from a mother organisation Financial report and accounting responsibilities and other legal duties

2. Advantages and disadvantages of the different funding options

Option	Advantages	Disadvantages
Mother organisation	Primary funding sourcePotentially sustainableStable	 Dependence on mother organisation Reliant on budgetary considerations of the organisation
Project grants	 Often full funding of Science Shop activities and/or research projects Financial security for set periods of time 	 Limited in time Application process can be time-intensive Competition for limited funding sources
Social entrepreneurship	 Sustainable Independence of external funding Expanding client base 	 Risk of bias in allocation of time and resources Potential erosion of social function of Science Shop

3. Advantages and disadvantages of the different infrastructure options

Option	Advantages	Disadvantages
Mother organisation	 Usually elaborate infrastructure available Very common 	 Dependence on mother organisation Reliant on budgetary considerations of the organisation and availability of spaces
Private office space/building	IndependenceSecuritySustainable	● Expensive
Sharing office space	 Reduction of operating costs of the Science Shop 	 Not always an option Dependence on external organisation/ government decisions
Home offices	 Significant reduction of operating costs of the Science Shop Flexibility 	 Dependent on commitment of individual staff members
Virtual Science Shop	 Significant reduction of operating costs of the Science Shop Accessibility Flexibility 	 Lack of personal contact (but online modes of collaboration and engagement may substitute for these in some cases)



4. Advantages and disadvantages of the different coordination staff options

Option	Advantages	Disadvantages
Part-time mother organisation staff	 Inside knowledge on the organisation Good knowledge of the research process (if lecturers/researchers) Lower costs (might be employed for a small part of their time or work on voluntary basis) 	Potential difficulties to allocate time and combine with other positions
Hired staff	 High quality due to possibility to hire specialised professionals Undivided attention to Science Shop tasks (particularly if full-time) 	Higher costs, not available for all Science Shops
Students	 Lower costs High communication and promoting potential 	 Possible lack of experience High turnover May be difficult to fit into timescale of work
Volunteers	FreeNatural motivation	 Can invest only limited time Potentially high turnover (compared to permanent staff)

5. Advantages and disadvantages of the different implementation staff options

Option	Advantages	Disadvantages
Students	Free (no direct costs)Abundant	Risk of lower quality or drop outNeed supervising
Teachers/researchers, Science Shop staff	High qualityCan work independently	 Higher costs (compared to students or volunteers)
Advisory committee	 Direct involvement of stakeholders Help from more sources in project implementation 	 Potential differences in opinion and need to compromise
Volunteers	FreeNatural motivation	 Can invest only limited time Potentially high turnover (compared to permanent staff)
Client's staff	• 'Inside' knowledge	 Need training in research methods
Citizens (e.g. in citizen science projects)	FreeLarge scale potential	 Needs extra efforts and possibly funding to mobilise Might need more guidance Risks related to data quality



6. Advantages and disadvantages of the different project type options

Type of project activity	Advantages	Disadvantages
Research	 Possibility to train students in research implementation, data analysis and reporting Possibility to use knowledge expertise of scientific institution 	NPOs and SMEs can lack scientific personnel and students for implementation of research on their own without outside help
Stakeholder debates	 Can be used by NPOs and SMEs that lack expertise in research and available human resources Easier to involve other stakeholders from civil society and decision makers 	 Without research evidence, these debates can lack scientific arguments Universities can be less keen to use stakeholder debates as the main activity of students undertaking scientific projects for course papers, BA, MA thesis, and require expert facilitation, etc.
Services/products	 Responds to very practical demands of civil society organisations (IT products, design, etc.) This is an option for NPO and business based Science Shops that have limited expertise in research and available human resources 	Restricted scientific usability of this activity for universities

- Increase public knowledge and awareness about the latest scientific developments
- Public is only passively involved

7. Advantages and disadvantages of the different thematic scope options

Thematic scope	Advantages	Disadvantages
Specialised	 Possibility to concentrate knowledge resources Easier to position as a Science Shop with a particular focus 	 Restricted range of societal requests or lack of requests, especially if Science Shop orients itself to work on a very marginal topic
Multidisciplinary	 Can serve a broader range of societal requests 	 More difficult to ensure the availability of experts and students in different topics