

Strategic Technology and Innovation Management Programme 2018

Assessing technology potential by mapping sustainable value – a configurable toolset

Clare Farrukh

cjp22@cam.ac.uk

Dr Maria Holgado

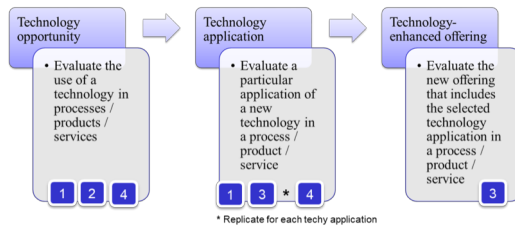
m.holgado@sussex.ac.uk

Integrating existing approaches to develop a wider view of social and environmental value in technology assessment.

Aims

To develop a configurable toolset that prompts idea generation around sustainable value in conjunction with methods to map technology benefits and exploitation routes.

Evolution of technology assessments at different stages of technology involvement



Progress

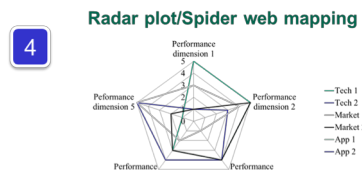
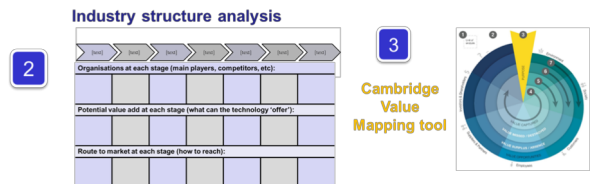
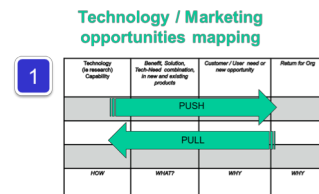
We carried out pilot applications of a half day workshop approach for companies wishing to assess new technology opportunities and technology applications.

The project has contributed insights into several wider challenges:

- Adoption and use of management tools
- Achieving industrial/academic collaboration in developing and applying tools
- Matching technology and market – a dynamic balancing act
- Including environmental and social aspects in technology commercialisation

Deliverables

Workshop guidelines and set of templates; summary of learning; working paper



Workshop focus	Leading aspect (templates)	Outputs/ actions
Multi-company workshop	Technology leading (1,2,3)	Start up company very positive and one established company keen to use again.
Single company workshop	Technology leading (1,2,3)	Only technical involved. Template 2 difficult with internal org. Wanted to use template 4 next time.
Technology application	Customer need leading (1,3,3,4)	Making a proposal to take technology solution forward. Plan to use template 3 again.
Technology application	Technology leading (1,3,4)	Collecting technical data. Plan to explore wider range of uses. May build a physical mock-up as a demonstrator.
Technology application / opportunity	Customer need leading (1,3,4)	Agreed should have narrowed focus before workshop. Ongoing discussions in this area. Will use template 3 again.
Technology application	Technology leading (1,3,4)	Shared knowledge and understanding, while uncovering several new possible uses for technology.