



Strategic Technology and Innovation Management Programme 2020

5. Innovation velocity

This project seeks to develop time efficient ways to assess how quickly a new technology will become relevant and accessible to specific companies and more effective ways to speed-up the progress of technology-based

projects within companies.

Aims

- Continue developing the draft technology profiling approach from STIM 2019
- Explore how companies review and manage innovation velocity within their technology projects, looking wider than NPD cycle time.
- Consider how these two perspectives can be linked.

Approach

External view: The technology profiling approach has been developed into a one chart profile with 4 segments (market, business, technology, eco-enviro) and 16 dimensions, to be used with discussion slides based on an established innovation characterisation (Abernathy & Clark 1985).

Internal view: A project scoring approach has been developed based on tackling the three innovation velocity challenges: temporal uncertainty, conflict and scarcity which can be countered by means of effective scheduling, synchronisation and resource allocation (Ellwood et al 2017).

Activities in 2020

- Presented at the Network meeting in the Moller Centre and discussed with a number of STIM companies one-toone (March).
- Featured in a STIM company webinar including a four question poll for both external and internal perspectives (May).
- Included as an group exercise on technological innovation in an ECS led module at DTU Copenhagen, where 7 groups scored different technologies using the profiling approach on MIRO. Online feedback questionnaires were completed by 14 participants (Sept).
- Piloted the two project perspectives in two workshops using MIRO, each involving 17-20 people (October).

Deliverables

- Overview of application potential given in two sets of Powerpoint slides for half day workshops on technology profiling and temporal project scoring.
- Insight into discussions on combining the two perspectives.

Future research in 2021

- Refine and test the technology profiling approach with metrics for the dimensions.
- Develop project scoring approach with additional questions for each temporal challenge.



