

## TRACK INFORMATION

Title: Enabling technologies for innovation ecosystem emergence

Outline: Innovation is increasingly a result of inter-firm processes e.g. open innovation (Chesbrough, 2019), as well as of indirect, ecosystemic interaction between companies that happens by sharing common objectives, locations, or platforms (Gawer & Cusumano, 2014). However, little is yet known about the mechanisms that drive the emergence of different ecosystems (Radziwon et al., 2022). In this context, it has been suggested that certain technologies may enable the birth of ecosystems (Dattée et al., 2018). Such enabling technologies form the basis for innovations in complementary sectors (Teece, 2018). Complex and complementary technologies that constitute dominant designs tend to be more enabling for subsequent innovation (Nylund et al., 2022a). However, these technologies need to overcome structural, societal and cultural barriers (Nylund et al., 2022b). The unprecedented reach of digital technologies is therefore an enabling factor (Dąbrowska et al. 2022), as evidenced by the dynamic interplay of fintech ecosystems (Alaassar et al., 2022). Hence, understanding the mechanisms that connect enabling technologies with ecosystem emergence is highly relevant for the R&D Management community. This track therefore welcomes both conceptual and empirical papers with a qualitative and/or quantitative methodologies.

Indicate a maximum of 5 key topics to be addressed in the track:  
Submissions are invited to contribute to one or more of the following topics:

- The technological and industrial convergence as both catalyst and outcome of the emergence of new ecosystems;
- The contemporary technologies that generate and build innovation ecosystems;
- The emergence, organization and governance of innovation ecosystems enabled by general purpose technologies, in the context of societal challenges;
- Business models that help technology-enabled innovation ecosystems in reaching maturity and new value propositions.

### Track Chair

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<b>References</b>
<p>References:</p> <p>Alaassar, A., Mention, A. L., &amp; Aas, T. H. 2022. Ecosystem dynamics: exploring the interplay within fintech entrepreneurial ecosystems. <i>Small Business Economics</i>, 58(4), 2157-2182.</p> <p>Chesbrough, H., 2019. <i>Open Innovation Results: Going Beyond the Hype and Getting Down to Business</i>. Oxford University Press.</p> <p>Dąbrowska, J., Almpantopoulou, A., Brem, A., Chesbrough, H., Cucino, V., Di Minin, A, Giones, F., Hakala, H., Marullo, C., Mention, A.-L., Mortara, L., Nørskov, S., Nylund, P. A., Oddo, C. M., Radziwon, A., &amp; Ritala, P. 2022. Digital transformation, for better or worse: A critical multi-level research agenda. <i>R&amp;D Management</i>, 52(5), 930-954.</p> <p>Dattée, B., Alexy, O., and Autio, E. 2018. Maneuvering in poor visibility: How firms play the ecosystem game when uncertainty is high. <i>Academy of Management Journal</i>, 61(2), 466-498.</p> <p>Gawer, A. &amp; Cusumano. M. A. 2014. Industry Platforms and Ecosystem Innovation. <i>Journal of Product Innovation Management</i>, 31(3), 417-433.</p> <p>Nylund, P. A., Brem, A., &amp; Agarwal, N. 2022a. Enabling technologies mitigating climate change: The role of dominant designs in environmental innovation ecosystems. <i>Technovation</i>, 117, 102271.</p> <p>Nylund, P. A., Ferràs-Hernández, X., Pareras, L., &amp; Brem, A. 2022b. The emergence of entrepreneurial ecosystems based on enabling technologies: Evidence from synthetic biology. <i>Journal of Business Research</i>, 149, 728-735.</p>

Radziwon, A., Bogers, M. L., Chesbrough, H., & Minssen, T. 2022. Ecosystem effectuation: creating new value through open innovation during a pandemic. *R&D Management*, 52(2), 376-390.

Teece, D. J. 2018. Profiting from innovation in the digital economy: Enabling technologies, standards, and licensing models in the wireless world. *Research Policy*, 47(8), 1367-1387.