

DELIVERABLE

4th consultation with experts on “Big data and Policy Making”

Summary

This deliverable reports on the consultation held with experts on “Big data” and Policy Making” focusing on the final data outcome from the BIGPROD project. The report contains access to the data shared, webinar recording, webinar presentation and the most important findings from the Q&A session.

Deliverable Information

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4th consultation with experts – policy focus

The purpose of this report is to summarize a fourth consultation conducted with experts. The fourth consultation with experts was designed to show the outcome in the sense of novel data created and the scientific publication written to describe the data. The consultation was divided into two separate sessions -- experts overall and then a session with a policy focus, which are reported at separate deliverables. However the consortium planned two identical sessions that included an introduction, webinar presentation and a Q&A session. In the design of the events, invitations were sent so that the Q&A session would be focused on either an overall or a policy-oriented discussion.

The list invitees focusing on the overall view included experts mostly from the scientific community. These included Thomas Scherngell (AIT), Pierre Mohnen (MU), Martina Neuländtner (AIT), Johannes Jasny (ISI), Bart Verspagen (MU), Janna Axenbeck (ZEW), Gaétan de Rassenfosse (EPFL), Juan Mateos Garcia (NESTA), René Belderbos (KUL). The invitees were invited and a Doodle was arranged to find an appropriate time. To ensure maximum attendance experts were allowed to join the policy focused group if their schedule did not allow them to join the session more aligned with their expertise. The participants were also allowed to invite colleagues.

The session was held on Wed 10 November 2021 from 3:00 PM to 4:00 PM. The session was done using Microsoft Teams. The session was joined by Arho Suominen (VTT), Ad Notten (MERIT), Scott Cunningham (STRATH), Sajad Ashouri (VTT), Fabiana Visentin (MERIT), Johannes Jasny (ISI), Serdar Turkeli (MERIT), Matthias Deschryvere (VTT), Lukas Pukelis (PPMI), Nordine Es-Sadki (MERIT), Peter Gal (ECO/SPAD), Alessio Mitra (RTD), Torben Schubert (ISI), Arash Hajikhani (VTT), Thomas Scherngell (AIT), Cees van Beers (Delft), Pierre Mohnen (KE), Francesco Losma (OECD), Sari Vainikainen (VTT), Hugo Hollanders (MERIT), Carlo Pietrobelli, Flavio Calvino (STI/PIE), Lea Samek (STI/PIE), Hélène Dernis (STI/PIE), Mika Naumanen (VTT), Bart Verspagen (MU) and Asta Bäck (VTT). Due to allowing forwarding the invitation to colleagues, the number of participants exceeded the number expected.

The session was designed so that the participants were sent the scientific publication¹ and the data² created. The session began with introduction of the project, a webinar presentation and a Q&A session. The outcome from the session was a webinar presentation³ and recording⁴ shared publicly. In addition, the project team was given a transcript of the Q&A session. The material was shared using the Microsoft Teams working space, as seen in Figure 1.

¹ [Scientific publication available at SSRN](#)

² [Data available at Dataverse](#)

³ [Presentation available at the project website](#)

⁴ [Webinar recording available at the project website](#)

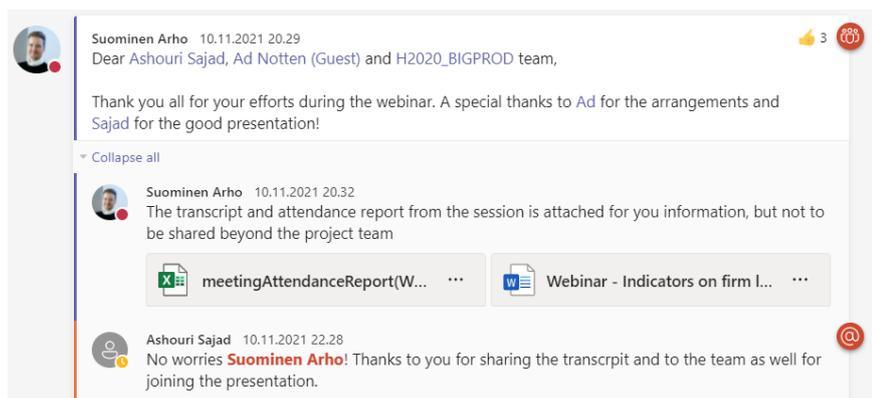


Figure 1 Webinar attendance list and transcript of findings from the session shared with the consortium.

The main outcomes from the consultation included important insights to shape the final leg of the project. One important aspect arising from the session was the importance of validating the data. Professor Mohnen highlighted for example if the data shows that the “portion of patenting is consistent with the proportion that you have [seen] in the past [with] that data”. Professor Verspagen also highlighted if the project does “in some way accounting for any potential biases that might result from the fact that companies could differ in terms of what they report on their website”. Overall, from the scientific community the main questions were aligned with the comments above. The consultation focused on highlighting that the project team should emphasise discussing the information value and validity of the data created. Overall, there was strong interest towards the data, but also raising question on how to validate the data.

As the session was also joined by more policy focused experts, the transcript also highlighted some policy relevant advice for the project. For example, Peter Gal asked on how the measures for servitization and digitalization were created and how these can be used to inform policy. An important finding here is that these aggregated measures, if robust, offer significant value towards the innovation indexes allowing for macrolevel understanding on innovation behaviour. Along these lines, H el ene D ernis also asked if there is an opportunity to incorporate third party data to the variables created in the project. The development of practical, easy to integrate, measures is important to policymakers.

Actions to the project from the consultation focuses on validation and making sure that we focus on creating the aggregate measures to completion.

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About BIGPROD

BIFPROD is a research project focusing on Big Data based analysis of productivity using webscraped data. This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 870822.

The project partners in the project are Quantitative Science and Technology Studies team, Foresight-driven Business Strategies, 1) VTT Technical Research Centre of Finland, Competence Center Innovation and Knowledge Economy (Coordinator), 2) Fraunhofer ISI, Economics of Knowledge and Innovation team, 3) UNU-MERIT, Maastricht University, 4) Public Policy and Management Institute, 5) Economics of Technology and Innovations, Faculty of Technology, Policy and Management, 6) Delft University of Technology, Economics of Technology and Innovations, 7) Faculty of Technology, Policy and Management, Delft University of Technology



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