

# living planet symposium | BONN 23-27 May 2022

TAKING THE PULSE  
OF OUR PLANET FROM SPACE



## The socio-economic benefit of Earth Observation: insights from firms of the Italian downstream sector

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May 24, 2022



The research is based on the project ‘Cost Benefit Analysis of public policies in the space sector’ (2018-2021), conducted by the Department of Economics, Management and Quantitative Methods of University of Milan and financed by the Italian Space Agency (ASI).

A synthesis of the project (in English) is available on the ASI website (<https://www.asi.it/en/2022/01/the-significant-impact-of-asi-on-the-space-economy-results-of-a-recent-study-carried-out-by-the-agency-in-collaboration-with-the-university-of-milan/>).

An extension of the project is ongoing, with a focus on EO final users.

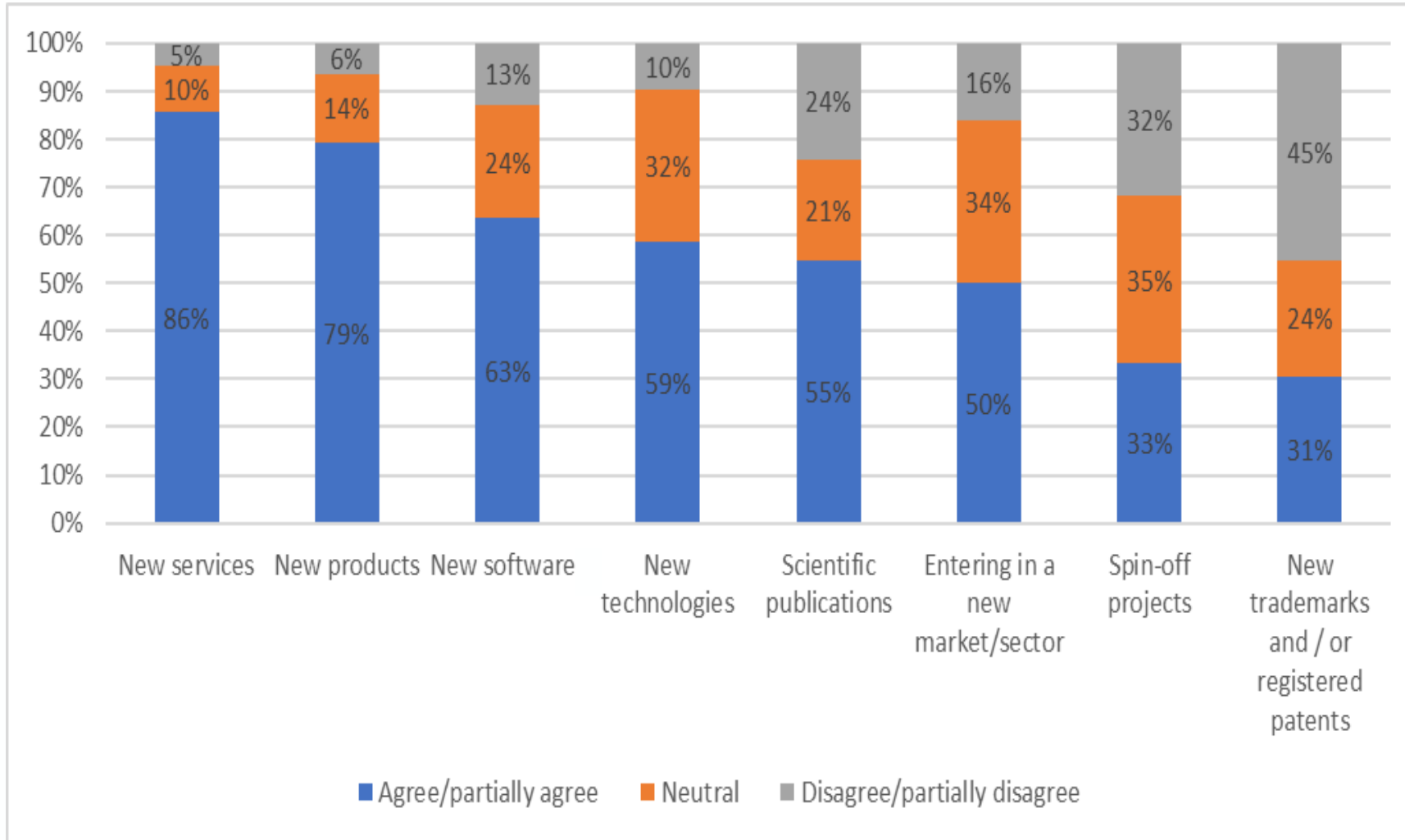
We focus on firms operating in the so-called EO *downstream* sector, with the technology and the skills to transform raw EO data into services and applications for final users.

We aim at exploring the various dimensions of EO data impact (innovation vs economic impact).

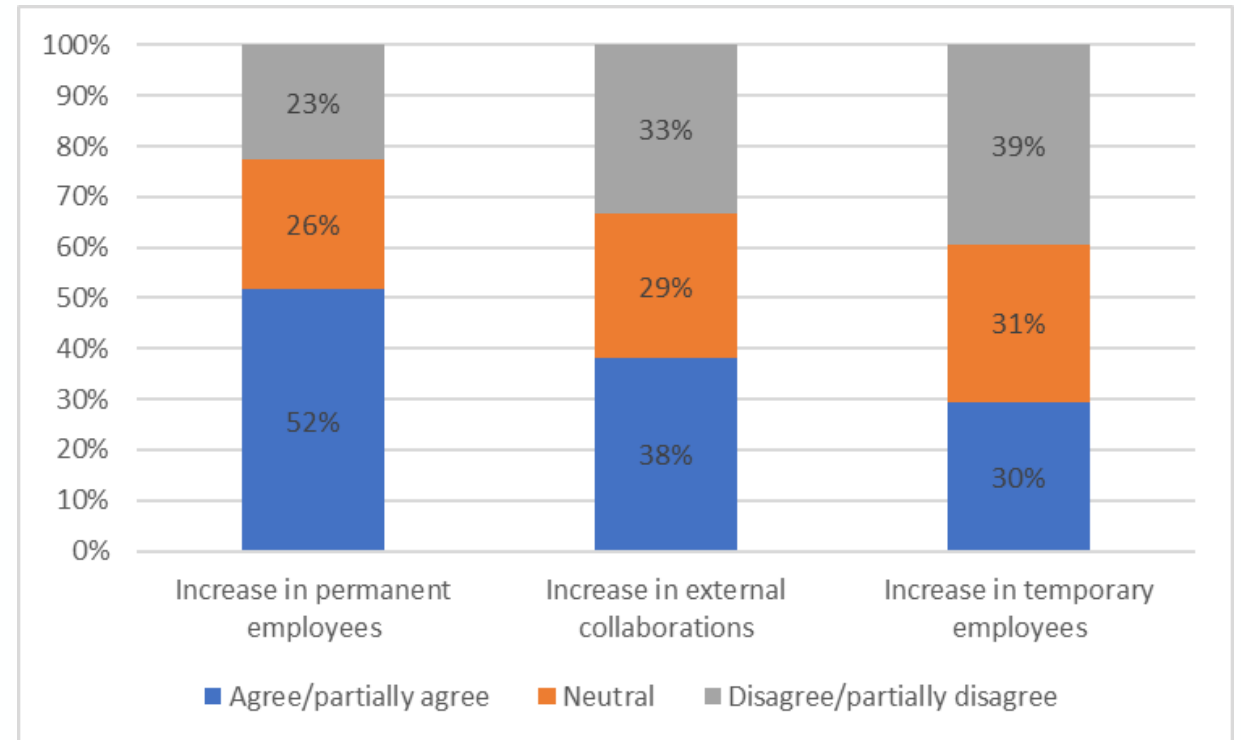
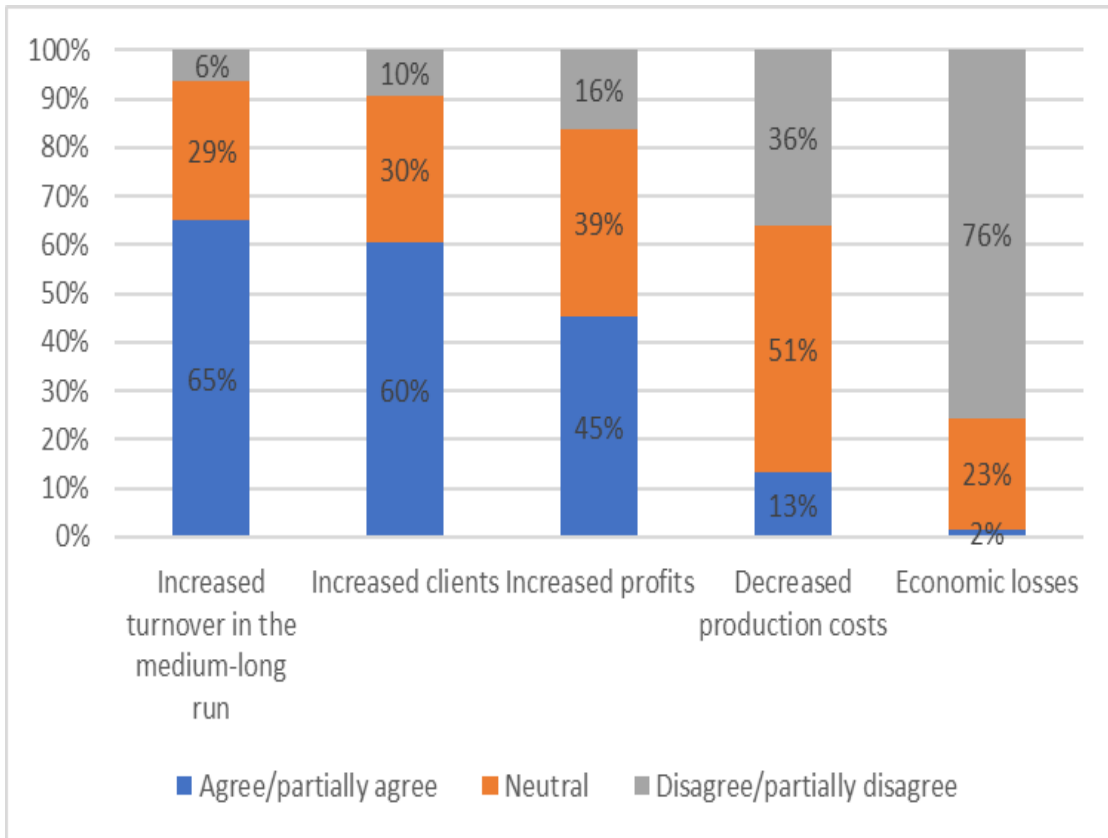
We focus on Italy (a country at the forefront of the EO sector) and we collected primary data through an online survey of firms operating in the downstream sector to know the benefits stemming from EO.



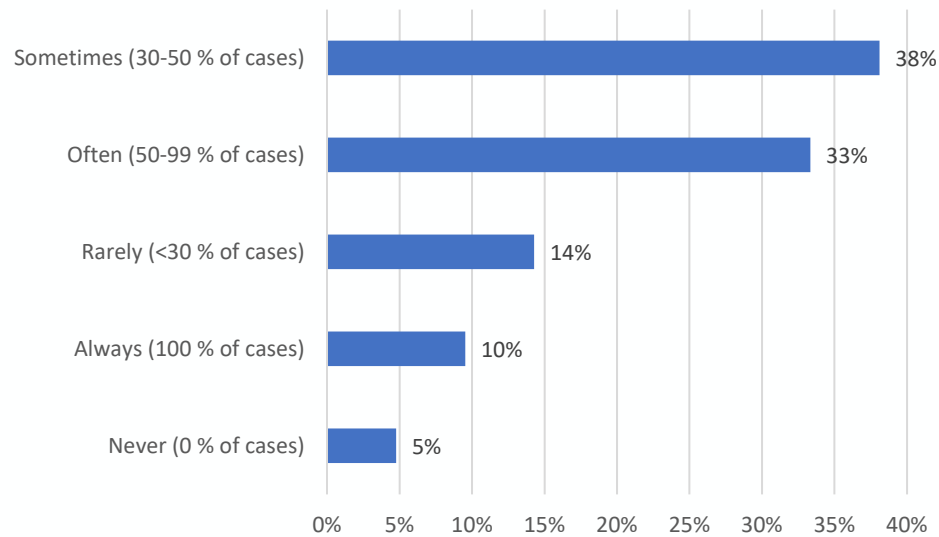
# Impact on innovation



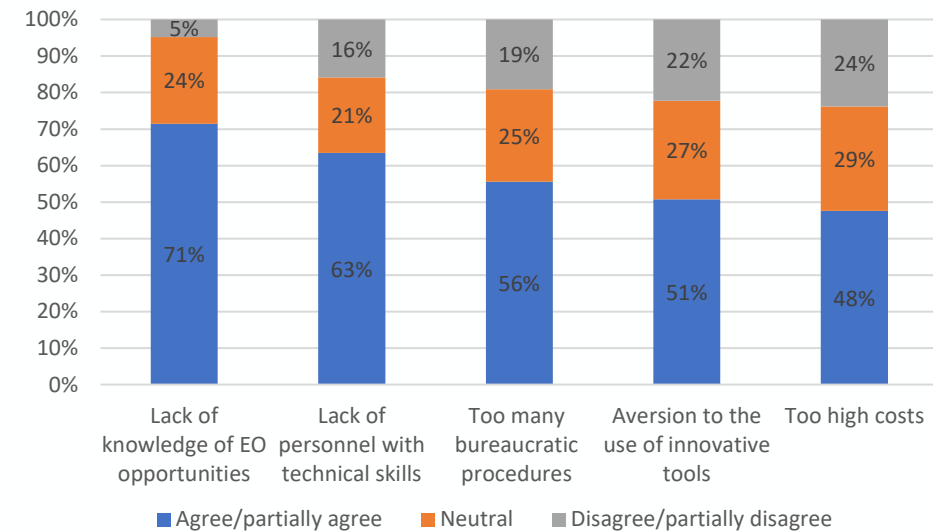
# Impact on economic performance



## DIFFICULTY IN FINDING QUALIFIED PERSONNEL

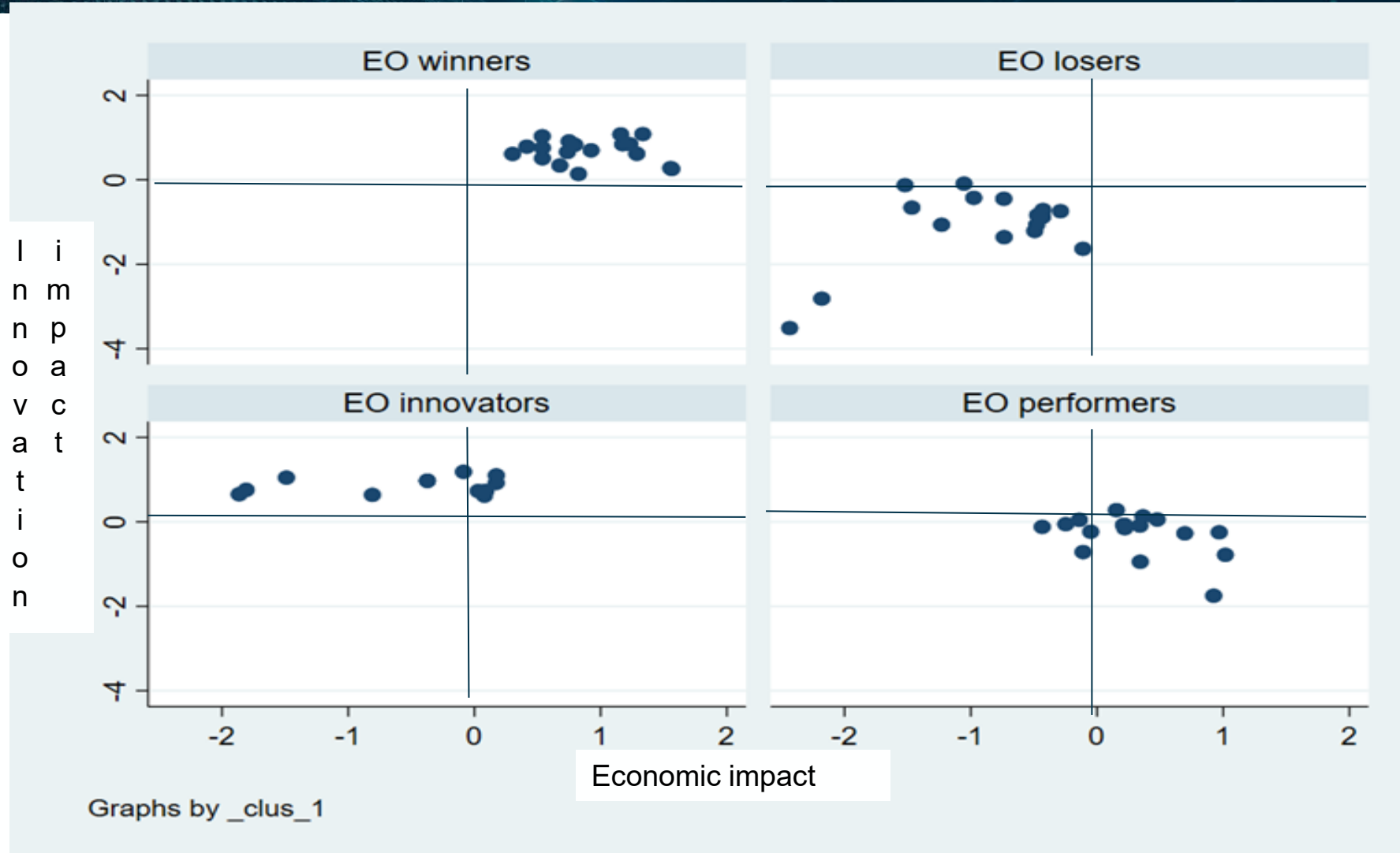


## BARRIERS TO EO DIFFUSION AMONG FINAL USERS





# Impact heterogeneity





# Are there systematic differences in firms characteristics across clusters?

1. Small firms and start-ups seem over-represented among EO innovators.
2. Firms located in the South of Italy seem over-represented among EO innovators.
3. Firms with a strong specialization in EO seem over-represented among EO innovators and EO winners.