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TOWARDS A THEMATIC ACCOUNT OF THE SPACE ECONOMY IN ITALY
METHODOLOGY AND FIRST EVIDENCES

FIRST EVIDENCES ON THE SPACE ECONOMY AND PERFORMANCE OF SPACE-RELATED FIRMS IN ITALY

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Acknowledgements

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Conceptual outline

Measuring the space economy

Focus | Scope of the space economy

Metrics | National Accounts indicators

Aim | Measuring the contribution of the space economy

Stressing the characteristics of core space firms

Focus | Upstream firms

Metrics | Performance and featuring indicators

Aim | Comparison between space and non-space firms

Taking stock, next steps and the finish line

What we have done

What we are planning to do

Where we are aiming to arrive

Measuring the space economy | A bird's-eye view

8.0 bn euro
output

4.2 bn euro
output (upstream)

2.0 bn euro
value added

0.1 %
GDP

1.3 bn euro
value added (upstream)

23.3 k
workers

14.1 k
workers (upstream)

2.1 bn euro
exports

1.6 bn euro
imports

0.7 bn euro
material investments

0.6 bn euro
R&D investments

0.4 bn euro
value added (non-market)

2.2 k
Workers (non-market)

Measuring the space economy | Non-market operators

Total non market

494 mln euro
output

353 mln euro
value added

162 mln euro
R&D investments

2.2 k
workers

Non-market R&D sector

428 mln euro
output

323 mln euro
value added

157 mln euro
R&D investments

1.9 k
workers

Non-market R&D vs. total Non-market

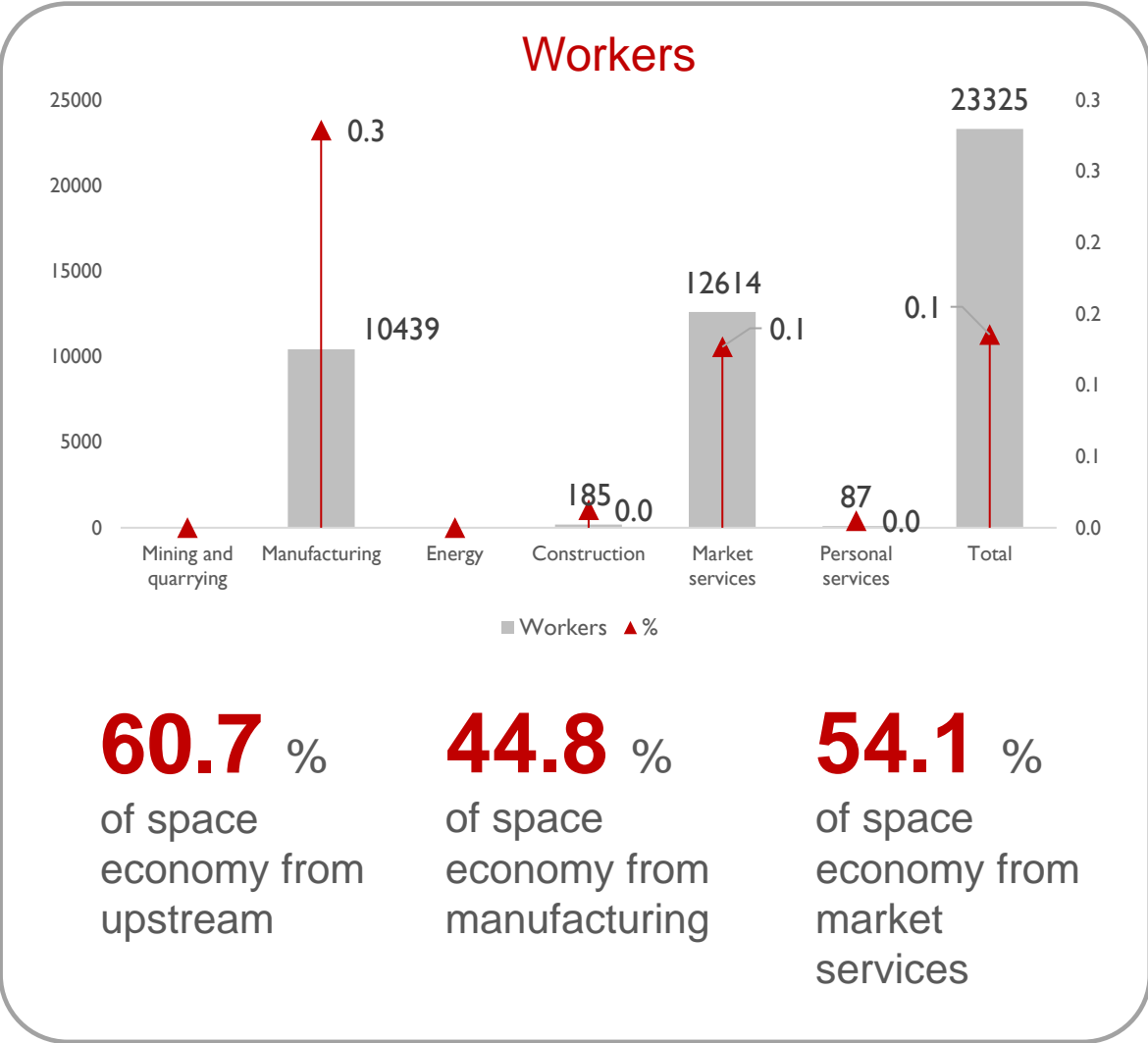
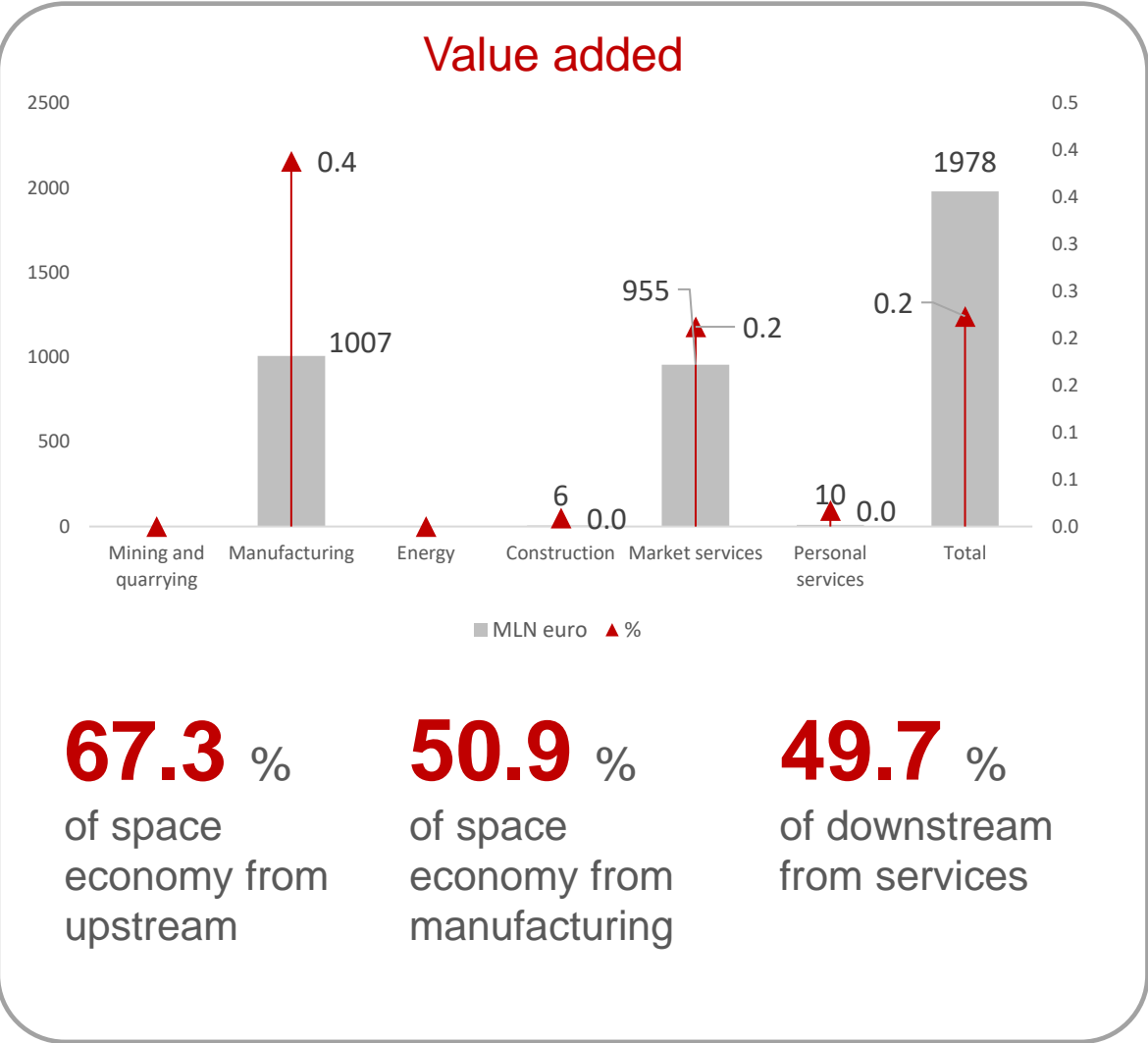
86.7 %
output

91.6 %
value added

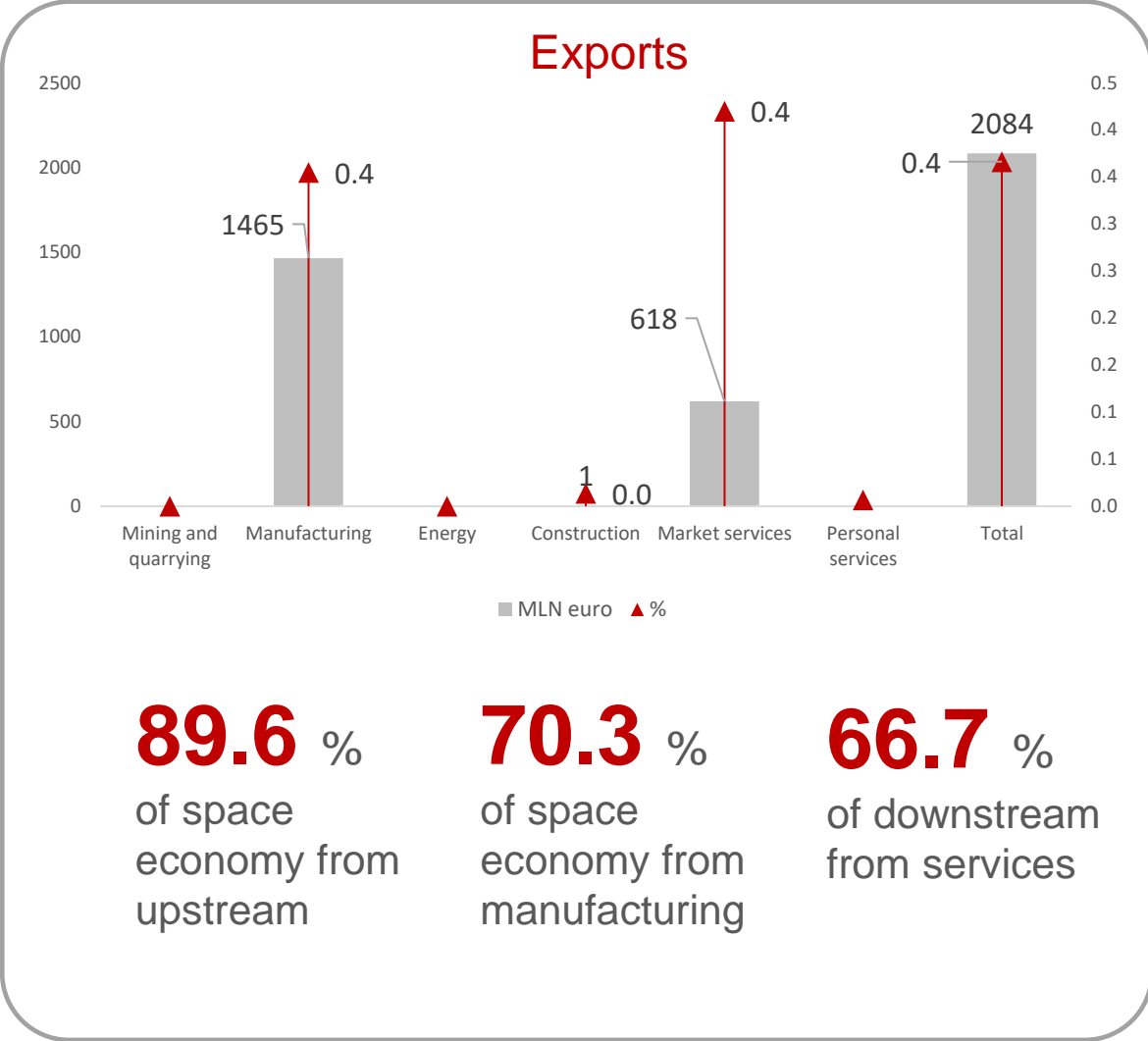
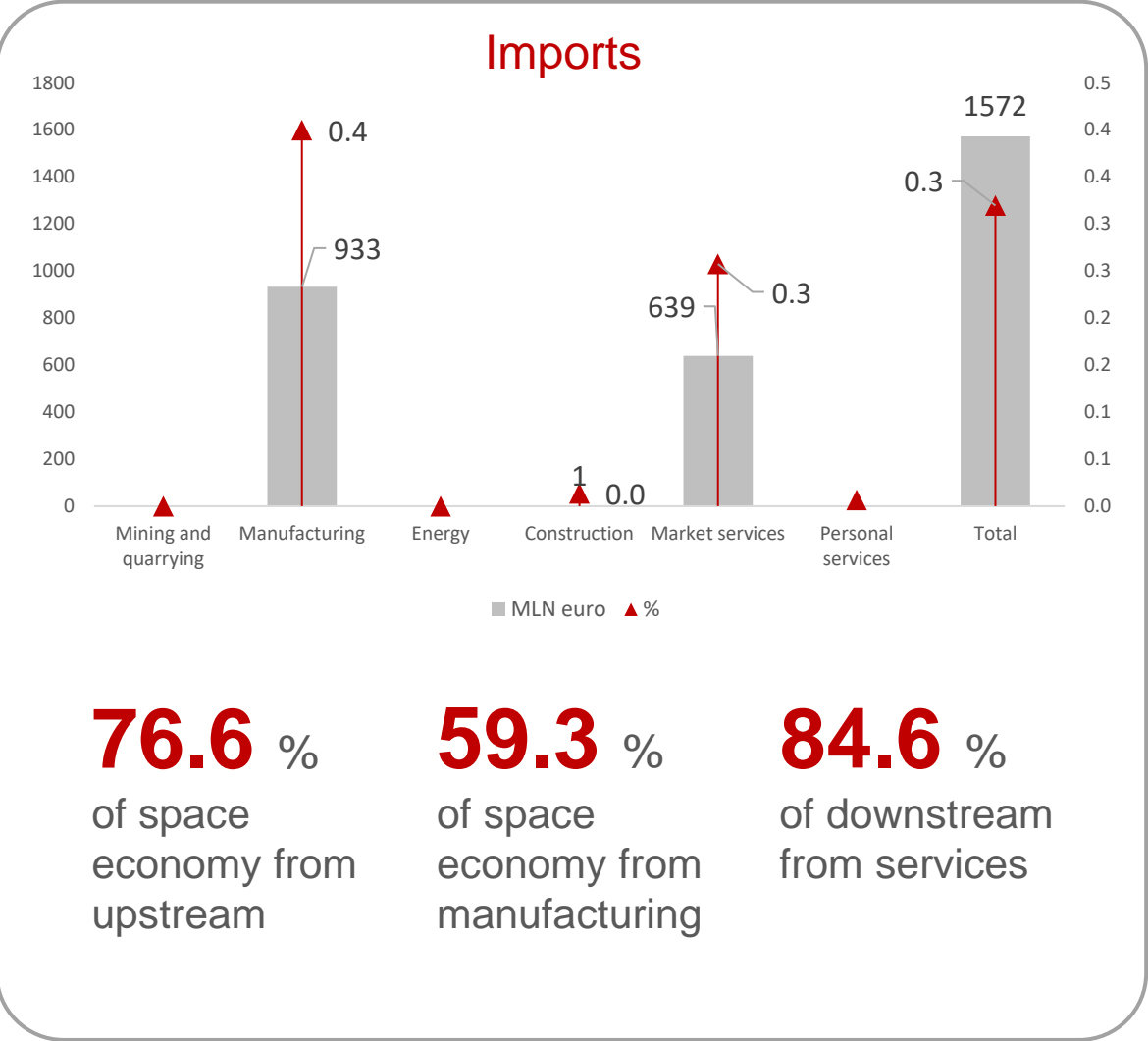
97.2 %
R&D investments

87.5 %
workers

Measuring the space economy | Industries



Measuring the space economy | Industries



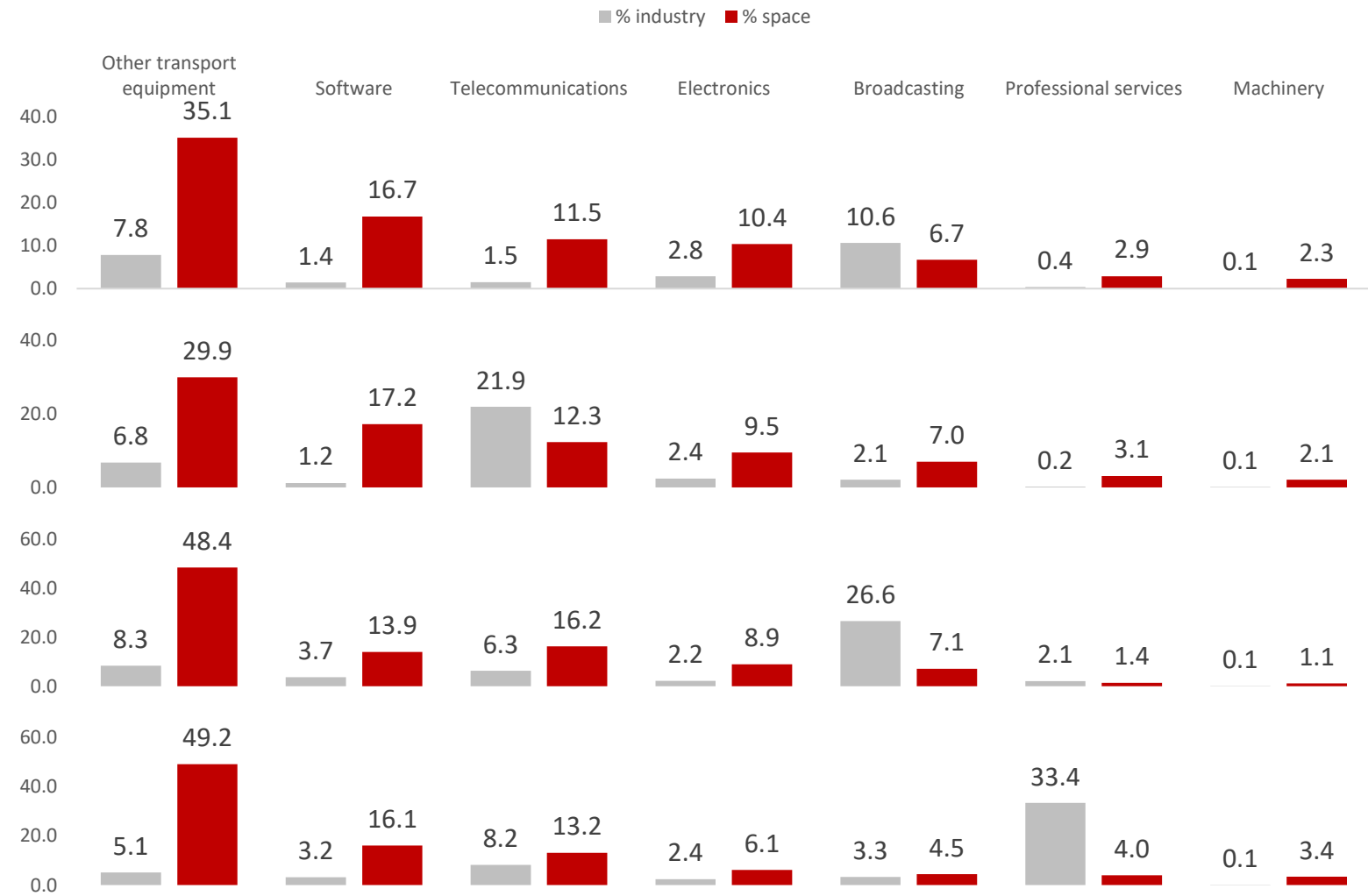
Measuring the space economy | Top 7 space industries

1.7 bn euro **85.6** %
value added of total space

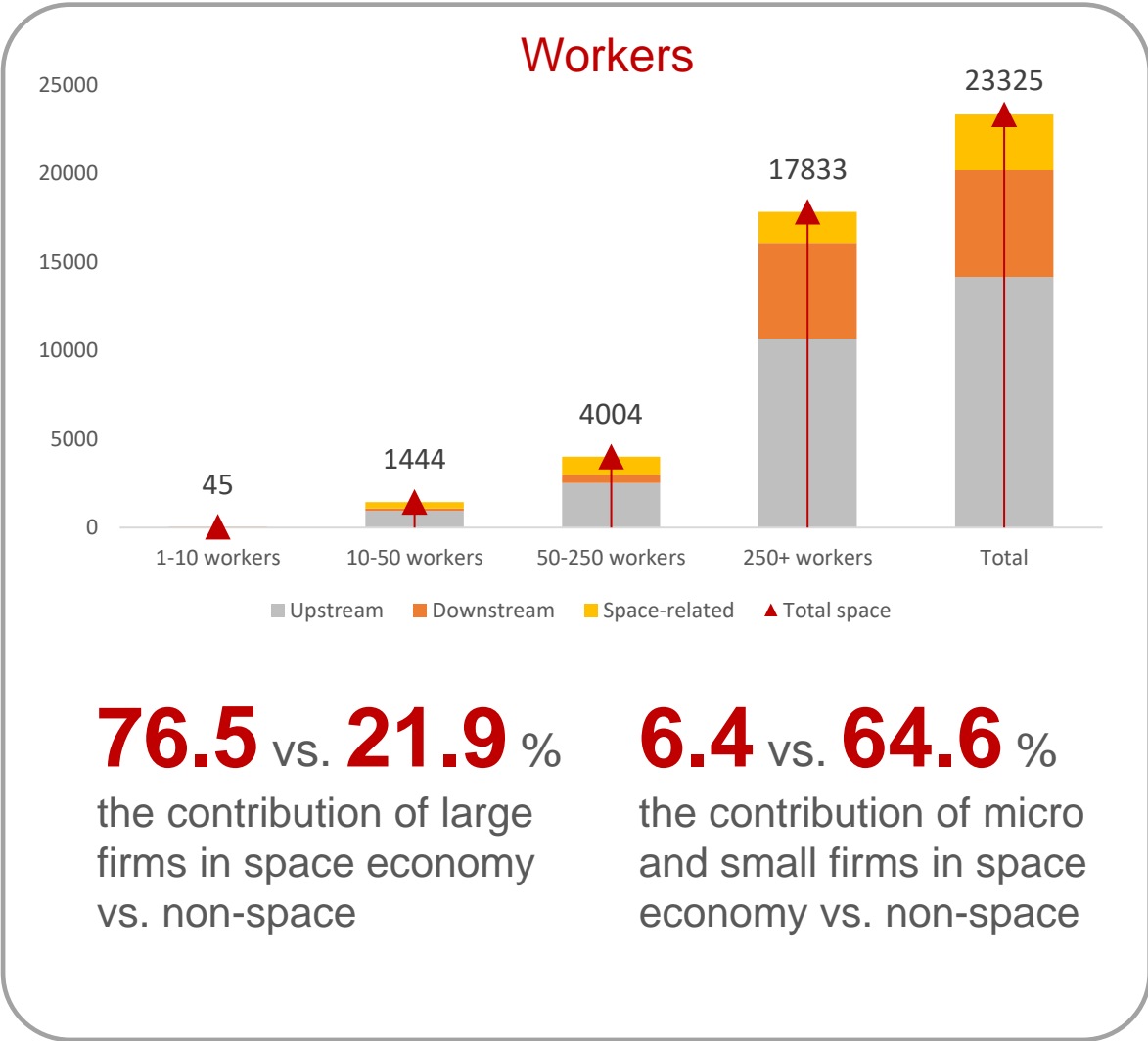
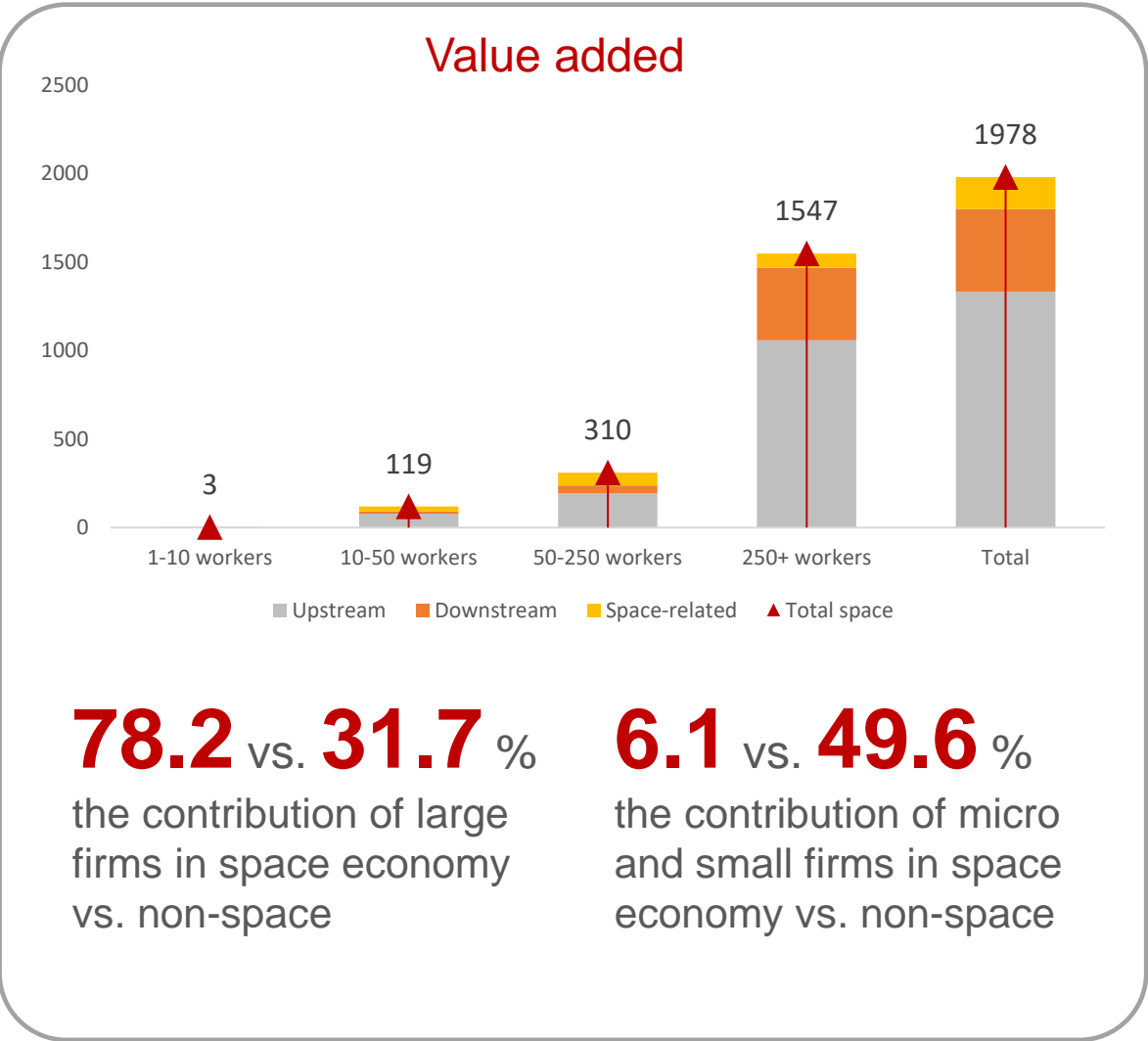
18.9 k **81.0** %
workers of total space

1.5 bn euro **97.1** %
imports of total space

2.0 bn euro **96.3** %
exports of total space

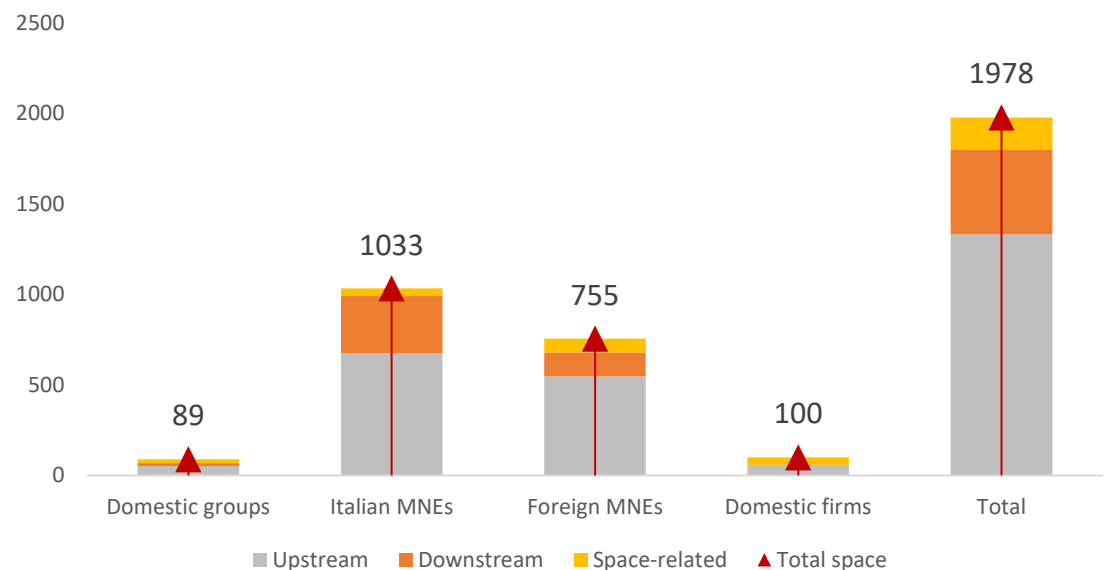


Measuring the space economy | Size-class



Measuring the space economy | Governance

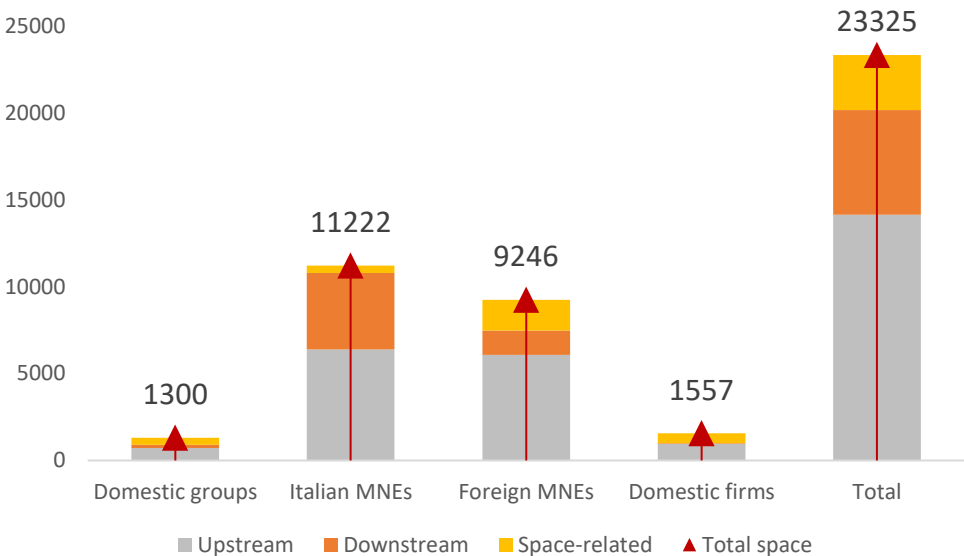
Value added



90.4 vs. 40.1 %
the contribution of MNEs
in space economy vs.
non-space

52.2 vs. 17.9 %
the contribution of Italian
MNEs in space economy
vs. non-space

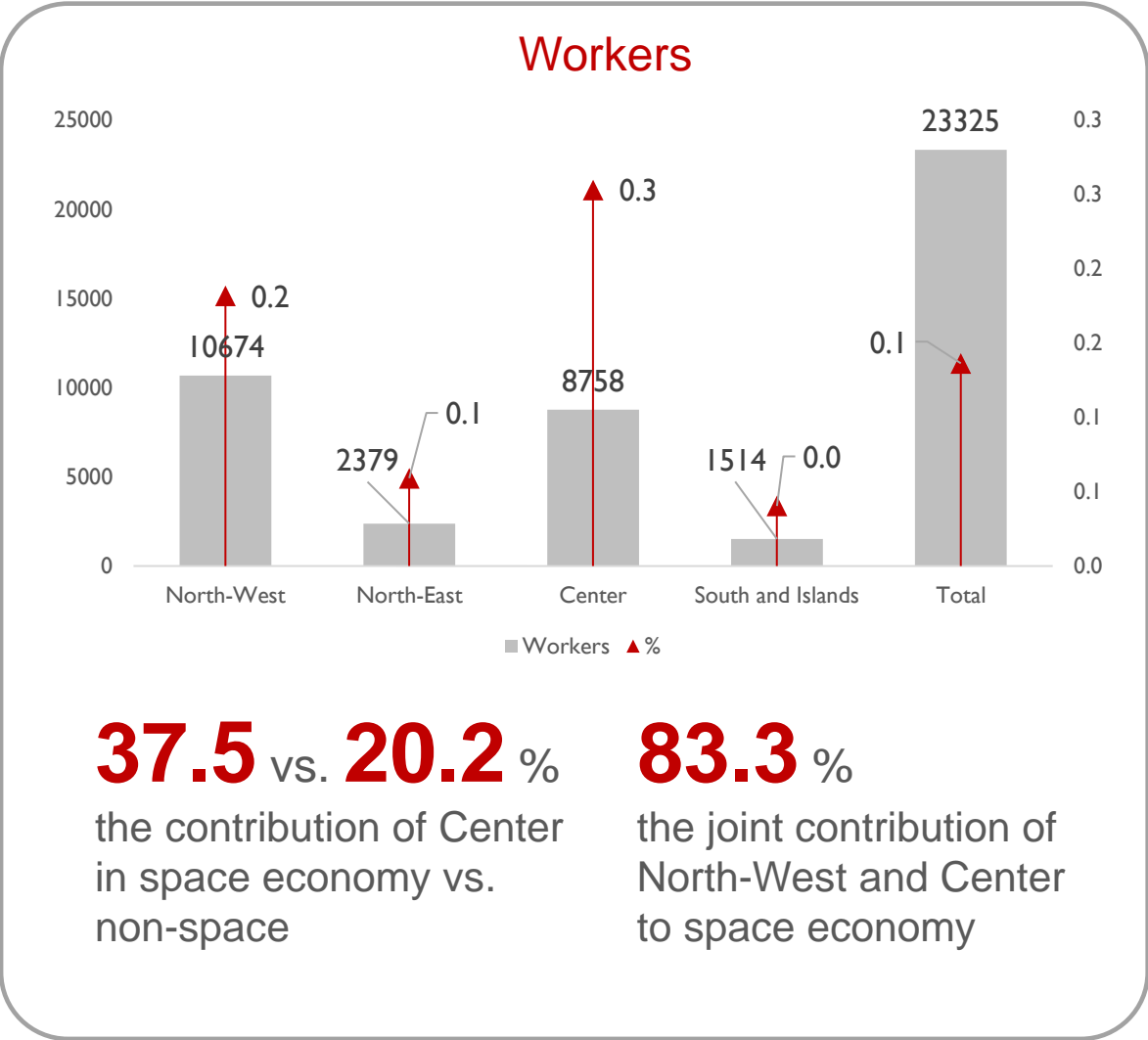
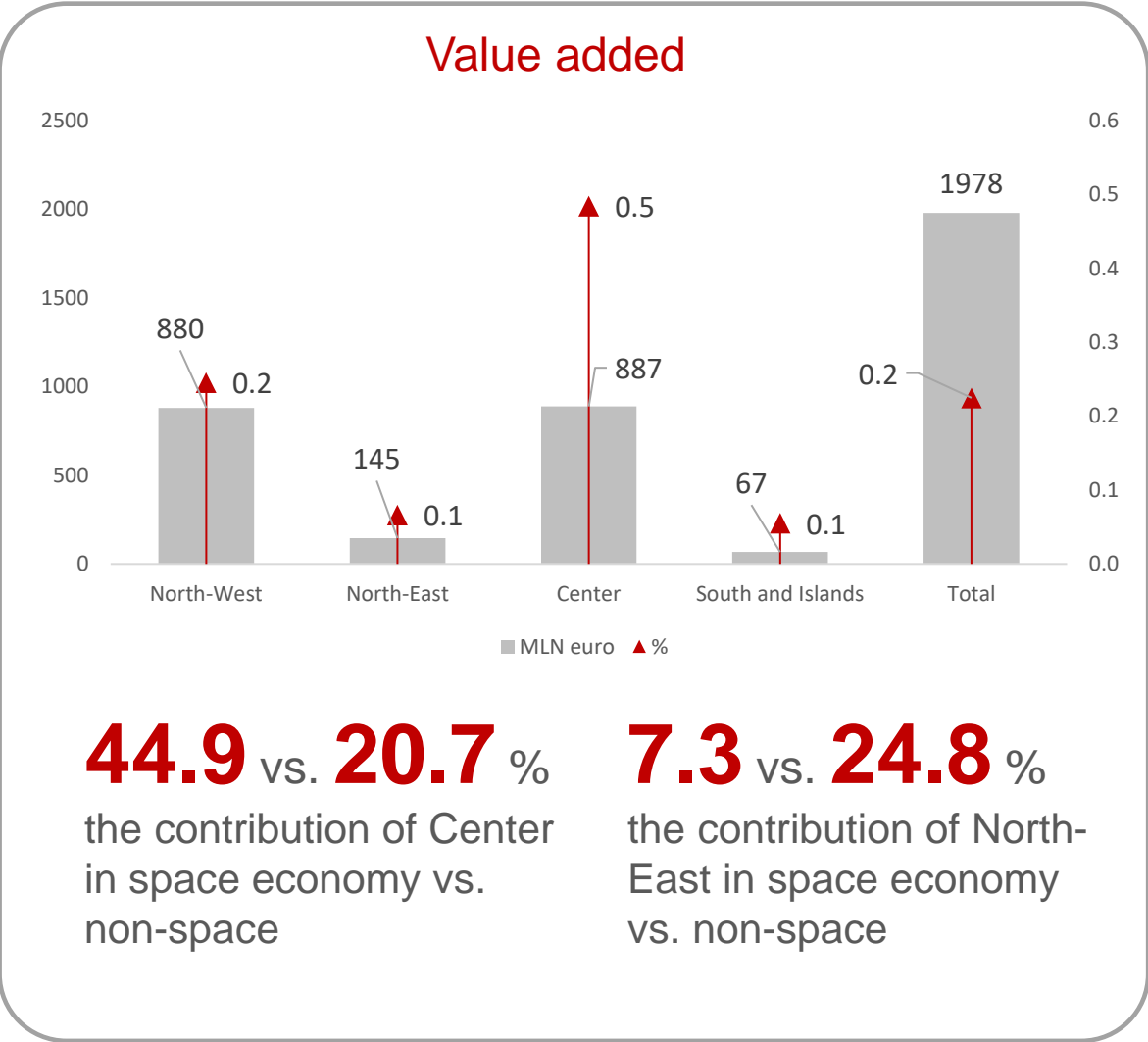
Workers



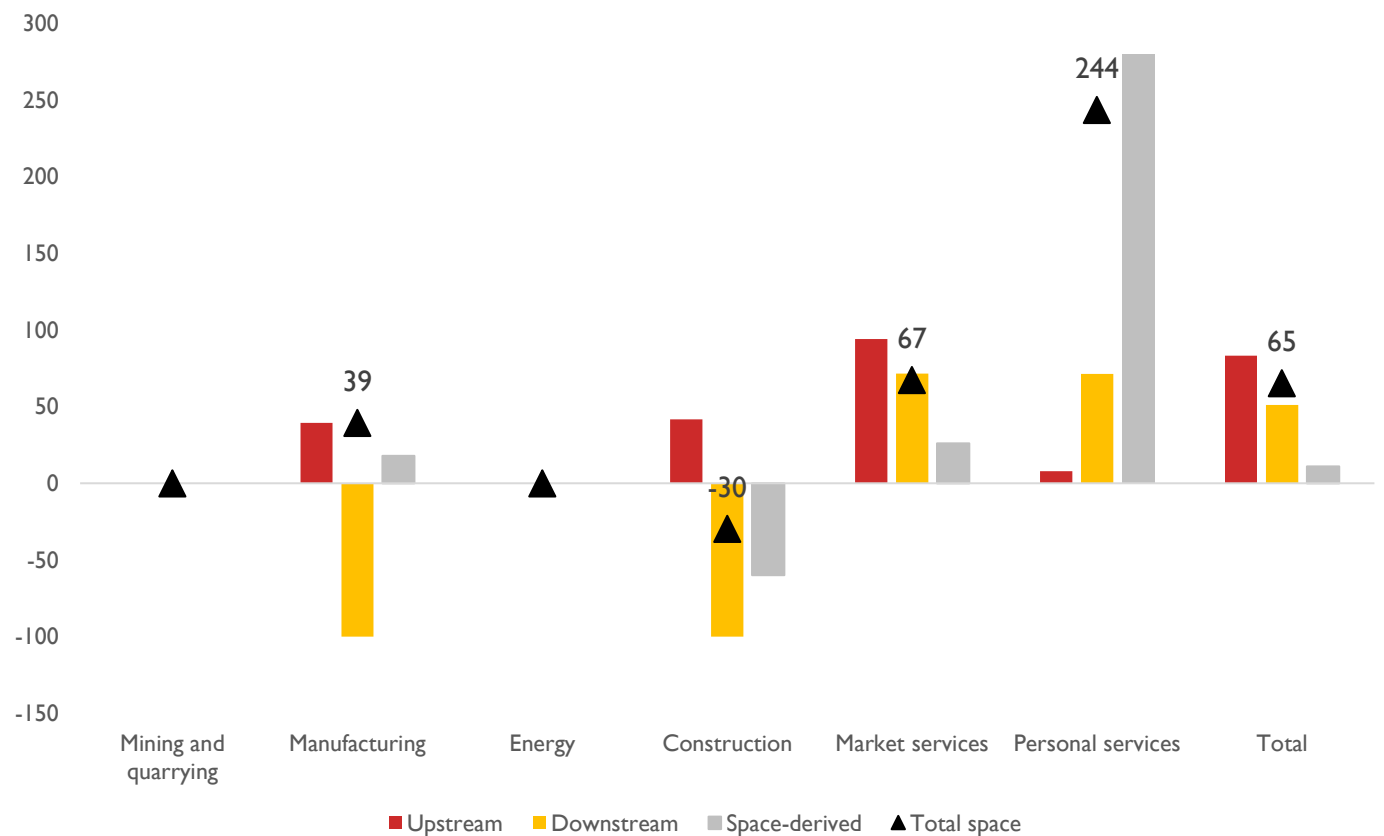
6.7 vs. 63.9 %
the contribution of
Domestic firms in space
economy vs. non space

39.6 vs. 12.0 %
the contribution of Italian
MNEs in space economy
vs. non-space

Measuring the space economy | Geography



Features of upstream firms | Productivity



84.4 k euro per workers
productivity of space firms

+65 %
the productivity of space firms vs.
non-space

94.1 k euro per workers
productivity of upstream firms

+83 %
the productivity of upstream firms
vs. non-space

Features of upstream firms | International trade

33.0 vs. **15.1** %

the propensity to export of upstream firms vs. the rest of the economy

27.5 vs. **29.0** %

the share of imports on total intermediate costs of upstream firms vs. the rest of the economy

0.50 vs. **0.28**

the degree of openness of upstream firms vs. the rest of the economy

1.89 vs. **1.13**

the exports to imports ratio of upstream firms vs. the rest of the economy

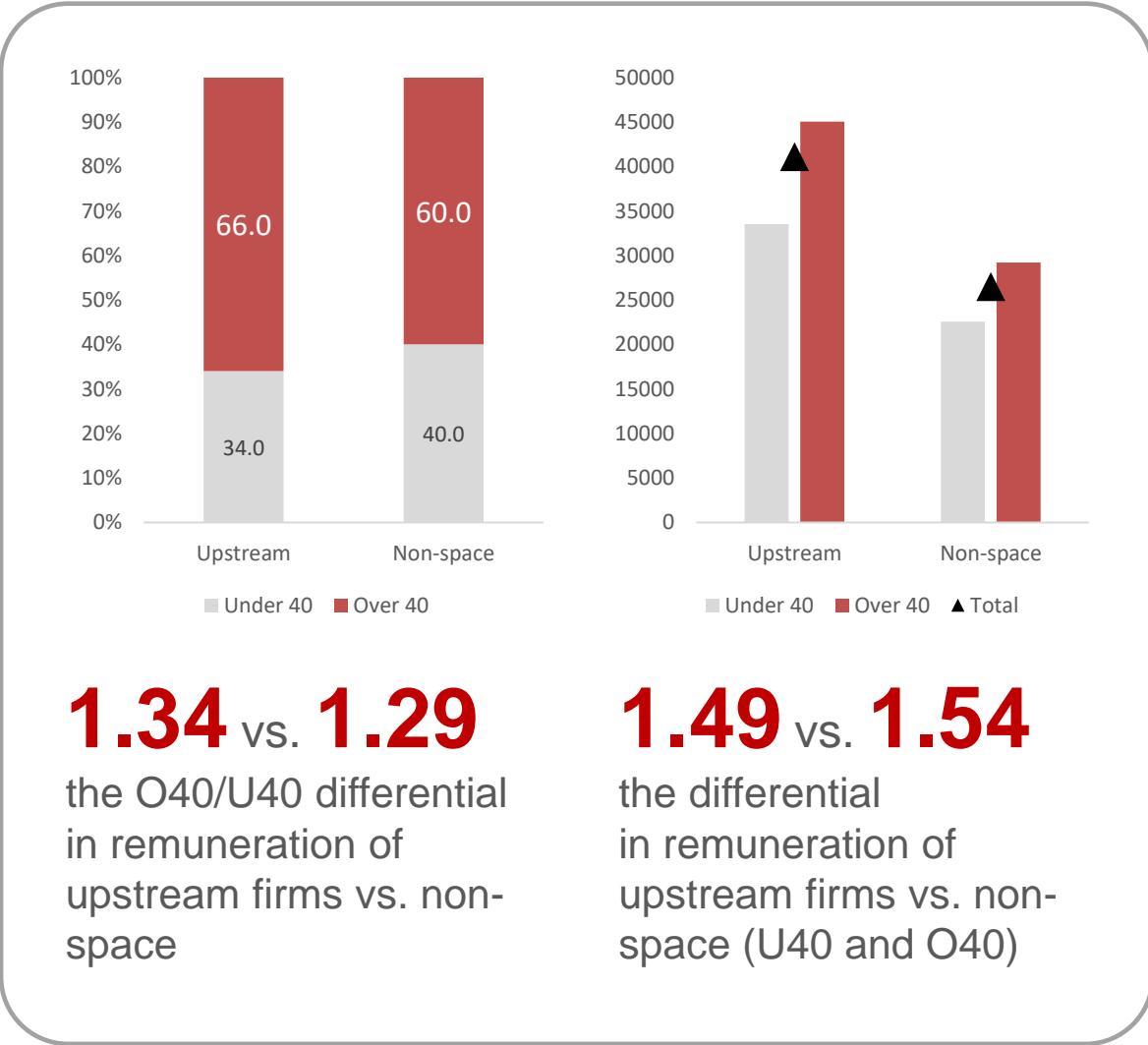
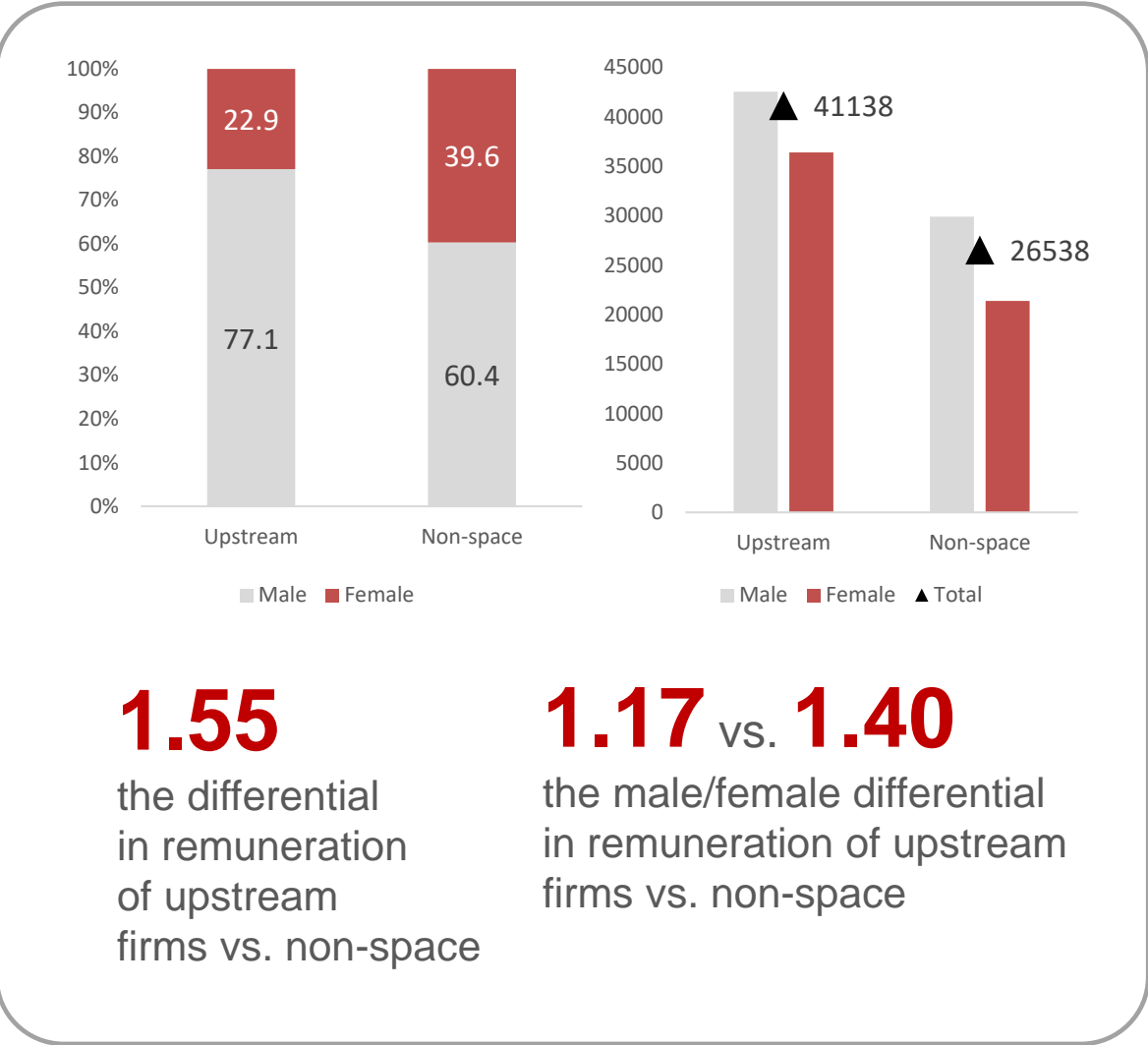
11.6 vs. **7.5**

the average number of countries of export of upstream firms vs. the rest of the economy

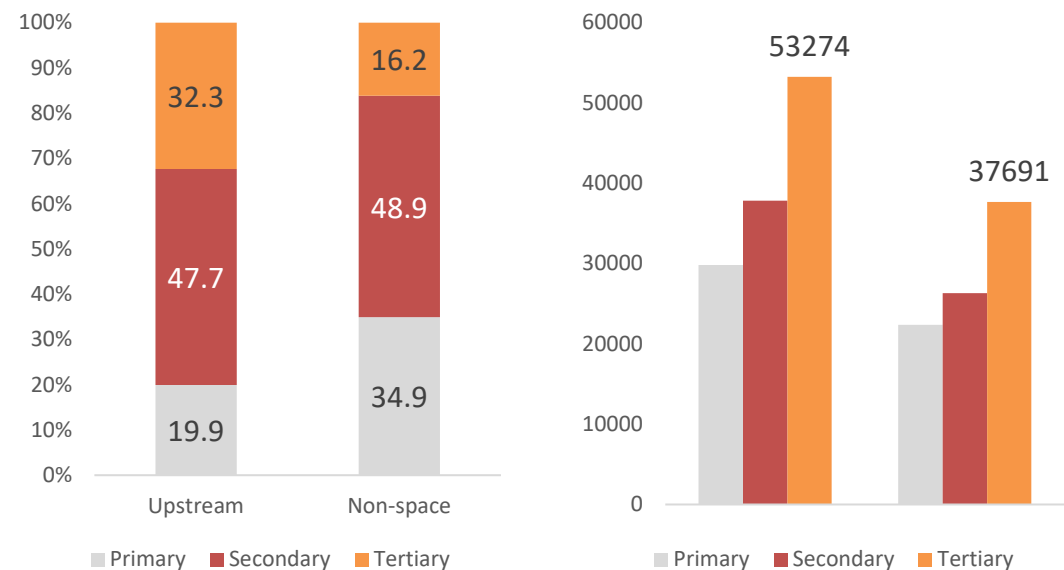
13.1 vs. **9.0**

the average number of goods/services exported by upstream firms vs. the rest of the economy

Features of upstream firms | Employment



Features of upstream firms | Employment



1.41

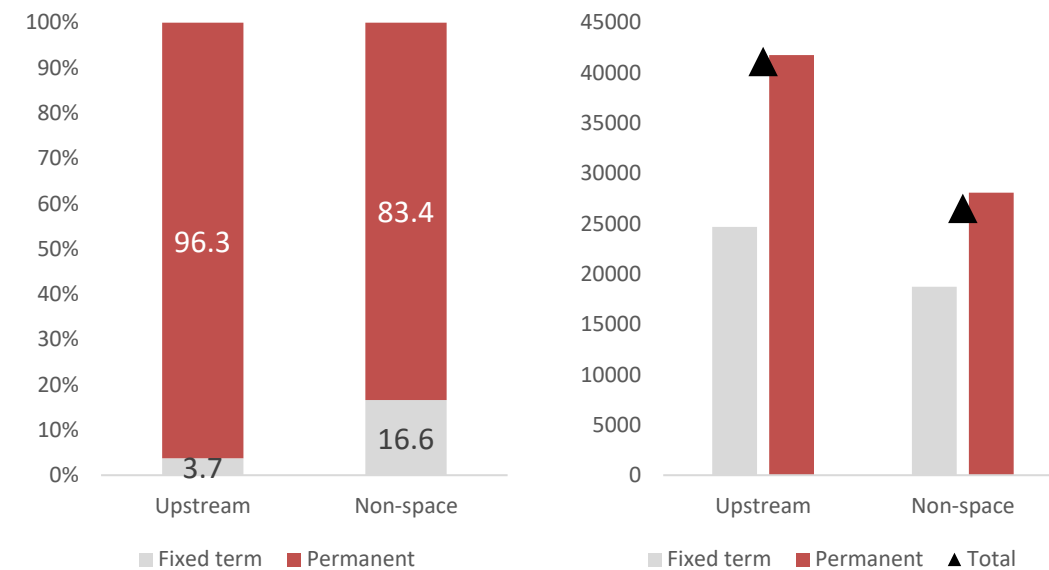
the differential in remuneration of upstream firms vs. non-space (tertiary)

1.44

the differential in remuneration of upstream firms vs. non-space (secondary)

1.33

the differential in remuneration of upstream firms vs. non-space (primary)



1.69 vs. 1.50

the permanent/fixed differential in remuneration of upstream firms vs. non-space

1.32 vs. 1.48

the differential in remuneration of upstream firms vs. non-space (fixed and permanent)

Features of upstream firms | Investments

16.4 vs. **16.9** %

the rate of (material)
investment of upstream
firms vs. the rest of the
economy

11.8 vs. **12.1** %

the rate of investment
(material net construction) of
upstream firms vs. the rest of
the economy

2.9 vs. **0.7** %

the rate of investment for data
transmission equipment of
upstream firms vs. the rest of
the economy

11.9 vs. **7.2** %

the rate of R&D investment of
upstream firms vs. the rest of
the economy

6.1 vs. **2.6** %

the share of R&D production
on total output of upstream
firms vs. the rest of the
economy

27.3 vs. **23.6** %

the share of financed R&D on
total R&D of upstream firms
vs. the rest of the economy

Taking stock

Experimental assessment ...

... based on international guidelines, using all available Istat micro databases to micro-found the macro contribution of space economy in Italy and to highlight the performances and characteristics of «space» market and non-market operators

Lack of «space-specific» information ...

... that would allow for directly identifying the «space» component in the activities of business units that are not fully «space» oriented

The methodology mixed algorithms and profiling ...

... to overcome the lack of «space-specific» information in the micro-foundation of National Accounts measures while maintaining a high reliability of results

What's next

Collecting «space-specific» information about the activity of business units



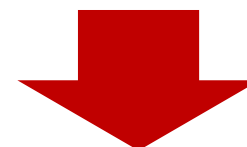
Dedicated question in the last Permanent Census of Enterprises (referred to 2023-2025) and use of new data sources (electronic invoice)

Extension of input-output framework for the space economy



eIOT framework already experimented for globalization in order to map the space economy in the Italian business system and assess its impact (instead of only its contribution)

Integration of the Italian information into the European accounting framework



Italian «space-related» eIOT framework can be embedded into the Eurostat IOT framework Figaro in order to map global «space-related» interactions

The finish line

		1		...		32		...		64		Final consumption	Investments	Change in inventories	Exports of goods	Exports of services	Exports by main trading partners and geographical areas				
		S	NS	S	NS	S	NS	S	NS	S	NS										
1	S																				
	NS																				
...	S																				
	NS																				
32	S																				
	NS																				
...	S																				
	NS																				
64	S																				
	NS																				
Intermediate costs / Totals																					
Net taxes on products																					
of which imports																					
Imports by main trading partners and geographical areas																					
Total output																					
Value added																					
Compensation of employees																					
Net taxes on production																					
Gross operative surplus																					
Workers																					

thank you

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