

IPR and firm performance in the EU

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Intellectual property rights and firm performance in the European Union





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Firm-level analysis report, February 2021



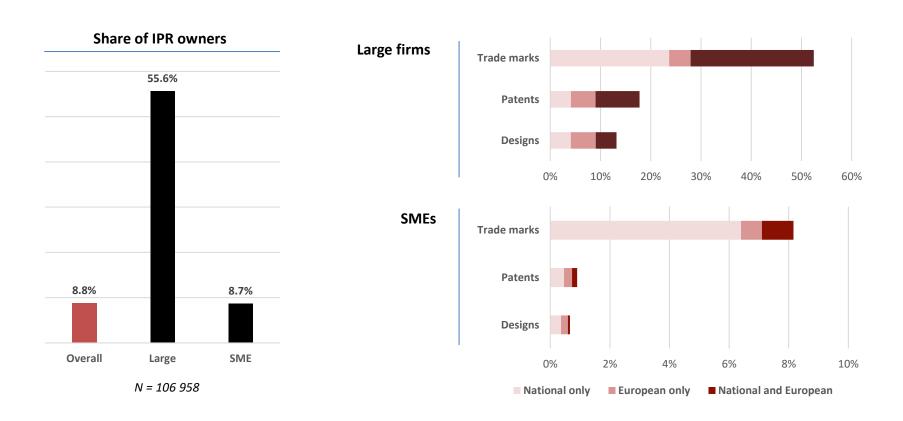


Purpose and methodology of the study

- Study analyses the relationship between IPR ownership and the economic performance of European firms
 - Focus on registered IPRs at the national and European levels
 - Focus on productivity (revenue per employee) as main measure of performance
 - The study covers all 27 EU countries and the UK
- Descriptive statistics and econometric analysis of a large matched sample of EU firms and IPRs
 - Random panel of more than 127 000 companies over 13 years (2007-2019)
 - Stratification by firm size (micro, small, medium and large) based on turnover and employment criteria
 - Financial data retrieved from Bureau van Dijk ORBIS database
 - IPR data retrieved from EPO PATSTAT, the EUIPO register, TMView and DesignView



IPR ownership patterns in small and large firms



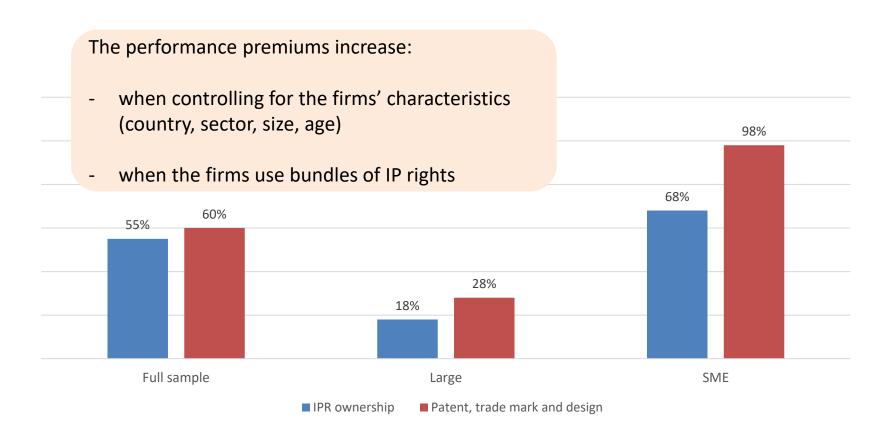


Main financial and firm variables of IPR owners (2007-2019)

		Number of employees	Revenue per employee (EUR '000/year)	Wages per employee (EUR '000/year)
Non-IPR owners		5.1	148.6	29.8
IPR owners	Any IPRs	13.5	178.6	35.6
	% difference compared with non-owners	163.8%	20.2%	19.3%
	Patent owners	28.7	202.4	45.5
	% difference compared with non-owners	460.1%	36.3%	52.6%
	Trade mark owners	13.5	179.6	35.0
	% difference compared with non-owners	164.3%	20.9%	17.4%
	Design owners	29.1	196.3	38.7
	% difference compared with non-owners	467.9%	32.2%	29.7%



Econometric analysis: IPR premiums by firm size

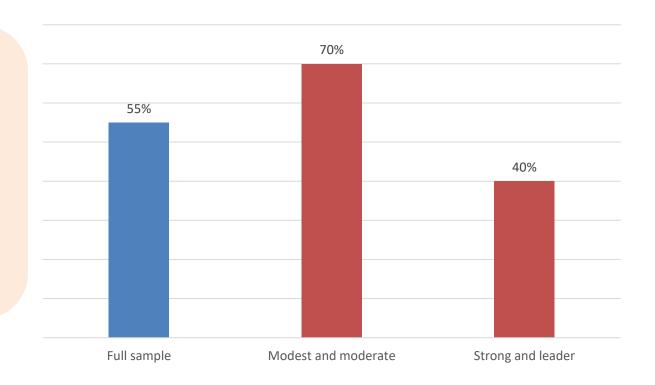




IPR premium and EU countries' innovation performance

Based on the ranking of countries innovation performance in the EU Innovation Scoreboard.

Firms in countries that are modest or moderate innovators benefit from a significantly higher IPR premium.





Summary

- About 10% of firms in the EU own IPRs (8.7% of SMEs)
 - EU firms use trade marks much more frequently than patents or designs
 - Large companies own (European) IP rights much more frequently
 - The share of IPR-owners varies between sectors and countries.
- Evidence points to a stronger performance of IPR-owners
 - +20.2% on average for EU firms
 - The premium is even higher (+55%) when controlling for firms characteristics, especially for SMEs (+68%)
 - IPR premium increases when different types of IP rights are bundled



IPR and firm growth

High-growth firms and intellectual property rights





High-growth firms and intellectual property rights

IPR profile of high-potential SMEs in Europe, May 2019

A joint project between the European Patent Office and the European Union Intellectual Property Office





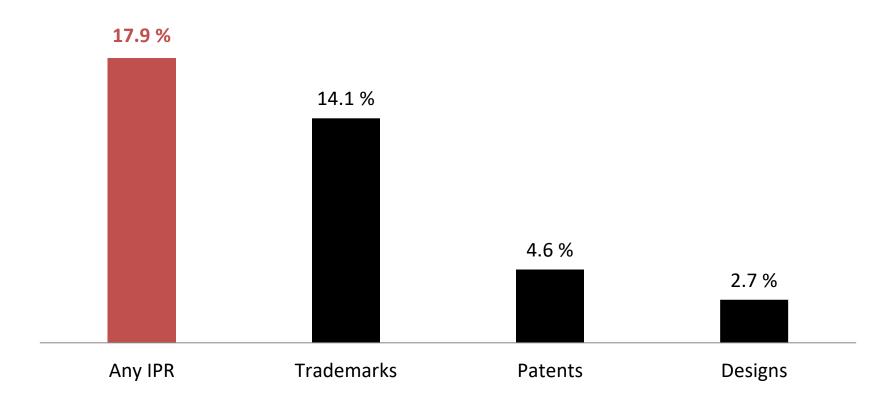
High Growth Firms (HGF)

- SMEs with a 3 year-average growth rate of at least 20 %*
 - 179 060 HGF in the EU-28 in 2016
 (EC, 2018)
- International growth typically driven by innovation and intellectual assets
- Focus on 64 998 European SMEs in manufacturing industries
- Observe the filings of registered IPRs (patents, trade marks, design rights)
 during a 3-year period
- Assess likelihood of high growth during subsequent years

^{*} Definition used in this study; official EC definition is 10%.



Frequency of IPR use by European SMEs in the sample

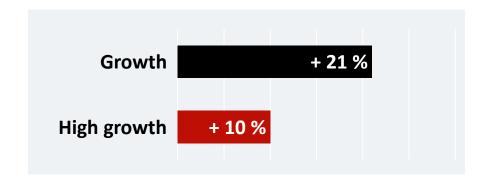




SMEs with prior IPR activities are more likely to grow than other SMEs

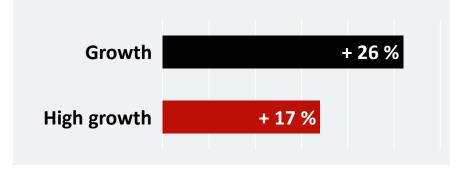
Increase in odds of growth with prior IPR use

= Innovation



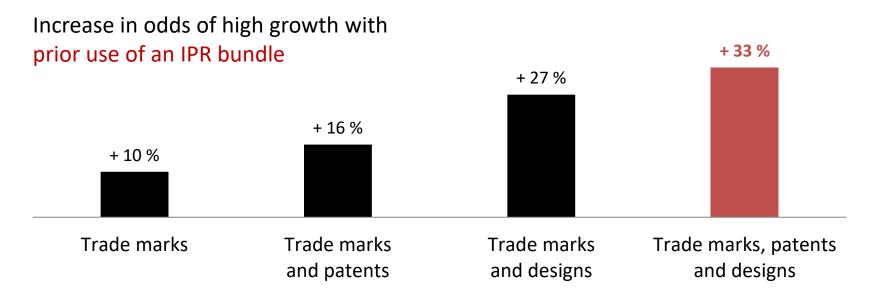
Increase in odds of growth with prior use of a European IPR

= Innovation + international





SMEs that use bundles of trade marks, patents and designs are even more likely to achieve high growth



Bundles of different IPRs denote a variety of intellectual assets and the SME's ability to build a holistic IP strategy.



References

High growth firms and intellectual property rights: IPR profile of highpotential SMEs in Europe (2019):

https://euipo.europa.eu/tunnel-web/secure/webdav/guest/document_library/observatory/documents/reports/2019_High-growth firms and intellectual property rights/2019 High-growth firms and intellectual property rights.pdf

Intellectual property rights and firm performance in the European Union (2021):

https://euipo.europa.eu/ohimportal/en/web/observatory/ip-contribution#ip-contribution_feb-2021



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Thank you