



TUTORIAL 4: National Systems of Innovation

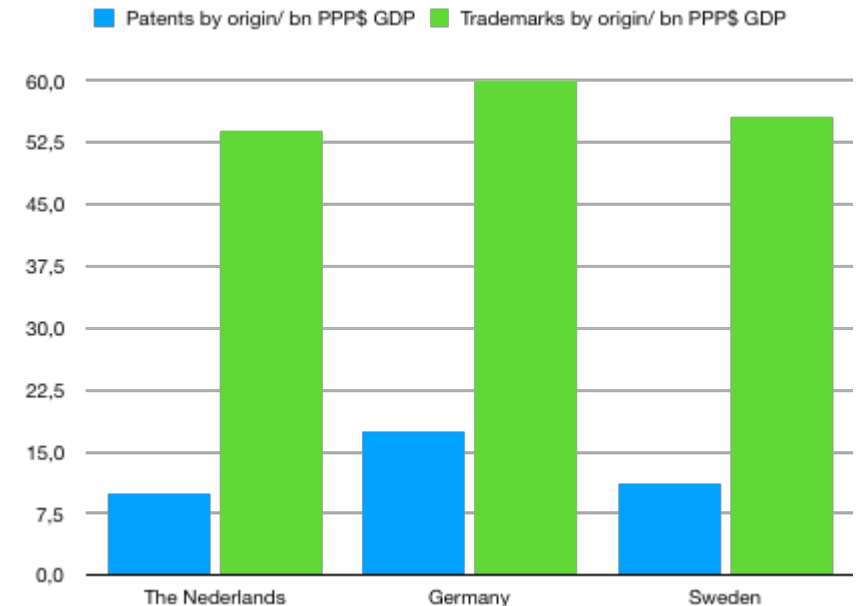
Project group: A4

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INNOVATIVE PERFORMANCE

Indicators of Number of Patents/GDP and Number of Trademarks/GDP

	The Netherlands	Germany	Sweden
Global Innovation Index Score	61.44	58.19	63.65
Patents by origin/ bn PPP\$ GDP	10.0	17.5	11.2
Trademarks by origin/ bn PPP\$ GDP	53.9	65.2	55.6



Sources:

GII 2019, retrieved 1 October 2019, from <https://www.globalinnovationindex.org/gii-2019-report>

The data of patents / GDP and the trademarks / GDP of The Netherlands and Sweden is similar. The number of trademarks / GDP and the trademarks / GDP of Germany is significant more than the other two countries. Notable is that Germany has a lower global innovation score. Hypothetically, Sweden and the Netherlands are more innovative due to other indicators.

INNOVATIVE PERFORMANCE

Other Global Innovation Index Score Indicators

	The Netherlands	Germany	Sweden
Regulatory environment	91.9	84.4	92.0
Ease of starting a business	94.3	83.6	94.7
Ease of resolving insolvency	84.3	90.1	79.5

Sources:

GII 2019, retrieved 1 October 2019, from <https://www.globalinnovationindex.org/gii-2019-report>

The regulatory environment in Germany is less profitable for innovations compared to The Netherlands and Sweden. Due to this regulatory environment, the ease of starting a business is lower in Germany. On the other hand, the ease of resolving insolvency in Germany is higher due to the regulatory environment which is more supportive to existing companies.

INNOVATIVE PERFORMANCE

Other Global Innovation Index Score Indicators

	The Netherlands	Germany	Sweden
Knowledge absorption	67.6	47.5	58.4
FDI net inflows, % GDP	27.7	1.8	3.0

Sources:

GII 2019, retrieved 1 October 2019, from <https://www.globalinnovationindex.org/gii-2019-report>

Germany is less international oriented than The Netherlands and Sweden. This causes less knowledge absorption from external sources. This can be seen in the data of knowledge absorption, in particular, the FDI net inflows, % GDP.

INNOVATIVE PERFORMANCE

Other Global Innovation Index Score Indicators

	The Netherlands	Germany	Sweden
Knowledge diffusion	75.0	42.7	63.9
Intellectual property receipts, % total trade	7	1.7	3.7
ICT services exports, % total trade	3.6	2.3	6.2

Sources:

GII 2019, retrieved 1 October 2019, from <https://www.globalinnovationindex.org/gii-2019-report>

Germany is less international oriented than The Netherlands and Sweden. This causes less knowledge diffusion. This can be seen in the data of knowledge diffusion, in particular, Intellectual property receipts and ICT services exports.

CONCLUSION

Based on the data of the Global Innovation Index, we can conclude that Germany is (despite of the higher number of patents and trademarks) less innovative than The Netherlands and Sweden. Due to the regulatory environment of Germany, it is harder for new firms to enter the market. Second, Germany is less international oriented than Sweden and The Netherlands, therefore the knowledge absorption and knowledge diffusion number is lower.