

The three paper work discuss the following topics:

- 1** - Economies and Intellectual Property (Patent, Trademark and design) in the Arab world Region 2012-2021).
- 2** - Innovation & Patents (IPMED).
- 3** - Global Innovation Index in Jordan, Considering Main Intellectual Property Rights: Patents, Design & Trademark.



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Economies and Intellectual Property (Patent, Trademark and design) in the Arab world Region 2012-2021)

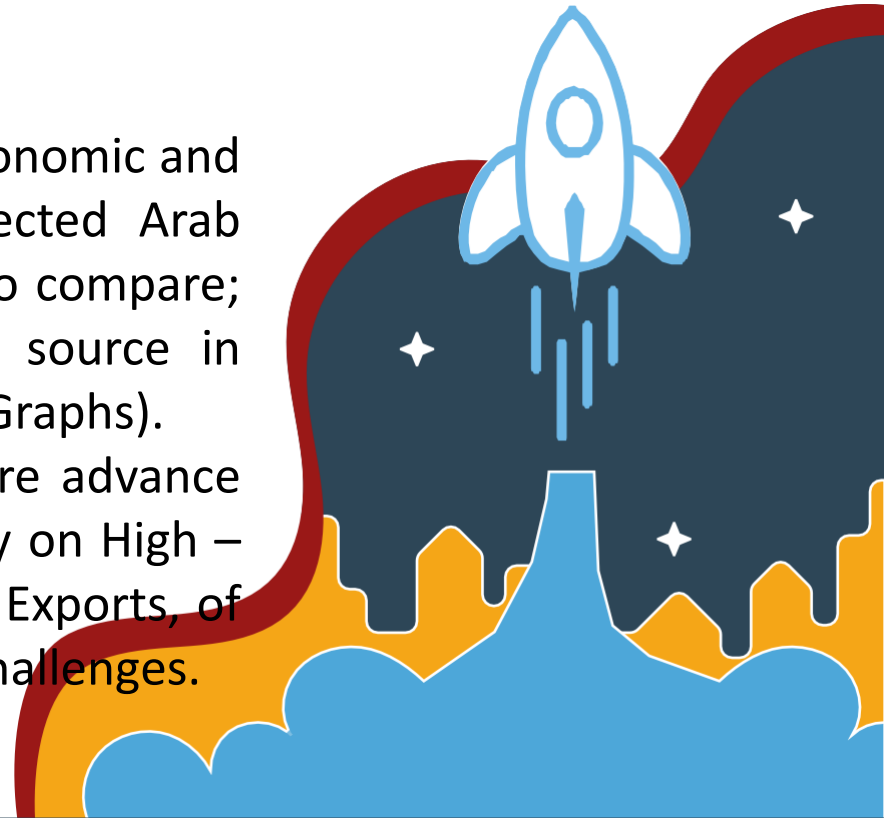
Objectives:

- To Review the main economic indicators in order to compare such as GDP per Capita, GDP Growth, Gross Capital Formation % GDP And High – Technology exports % of Manufacturing Exports, to the Arab countries during the period (2012-2021).
- To Review Intellectual Property in order to compare such Patent, Trademark and Design Applications, to the Arab countries during the period (2012-2021).



Summary

- This paper work focuses on the main economic and Intellectual Property indicators to selected Arab countries (due to availability) in order to compare; by transmission Data from its formal source in order to be presented as information's (Graphs).
- This paper work recommends to prepare advance research and technical studies especially on High – Technology exports % of Manufacturing Exports, of the Arab countries, circumstances and challenges.

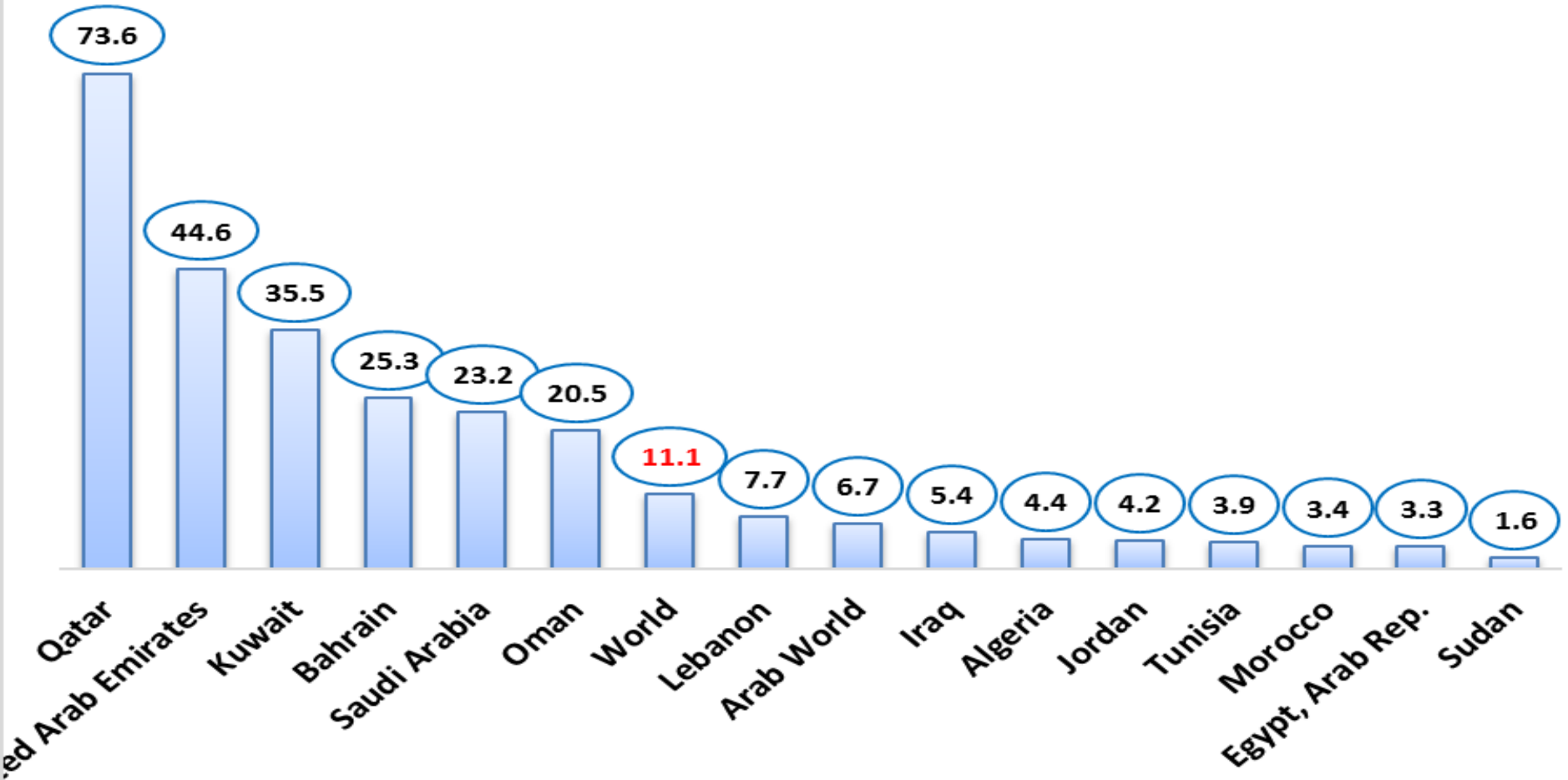


GDP per Capita

Figure below indicate that Qatar is the highest GDP per capita (73.6 Thousand US\$) among the Arab counters as average during the period (2012-2022) , followed by United Arab Emirates ,Kuwait, Saudi Arabia, Oman respectively which are above the average GDP per capita of the world (11.1 Thousand), While the Arab world average countries is about (6.7 Thousand) taking in to account that Morocco, Egypt and Sudan are 3.4 , 3.3, 1.6 Thousand respectively.



GDP per capita (current 1000 US\$) Average 2012-2022

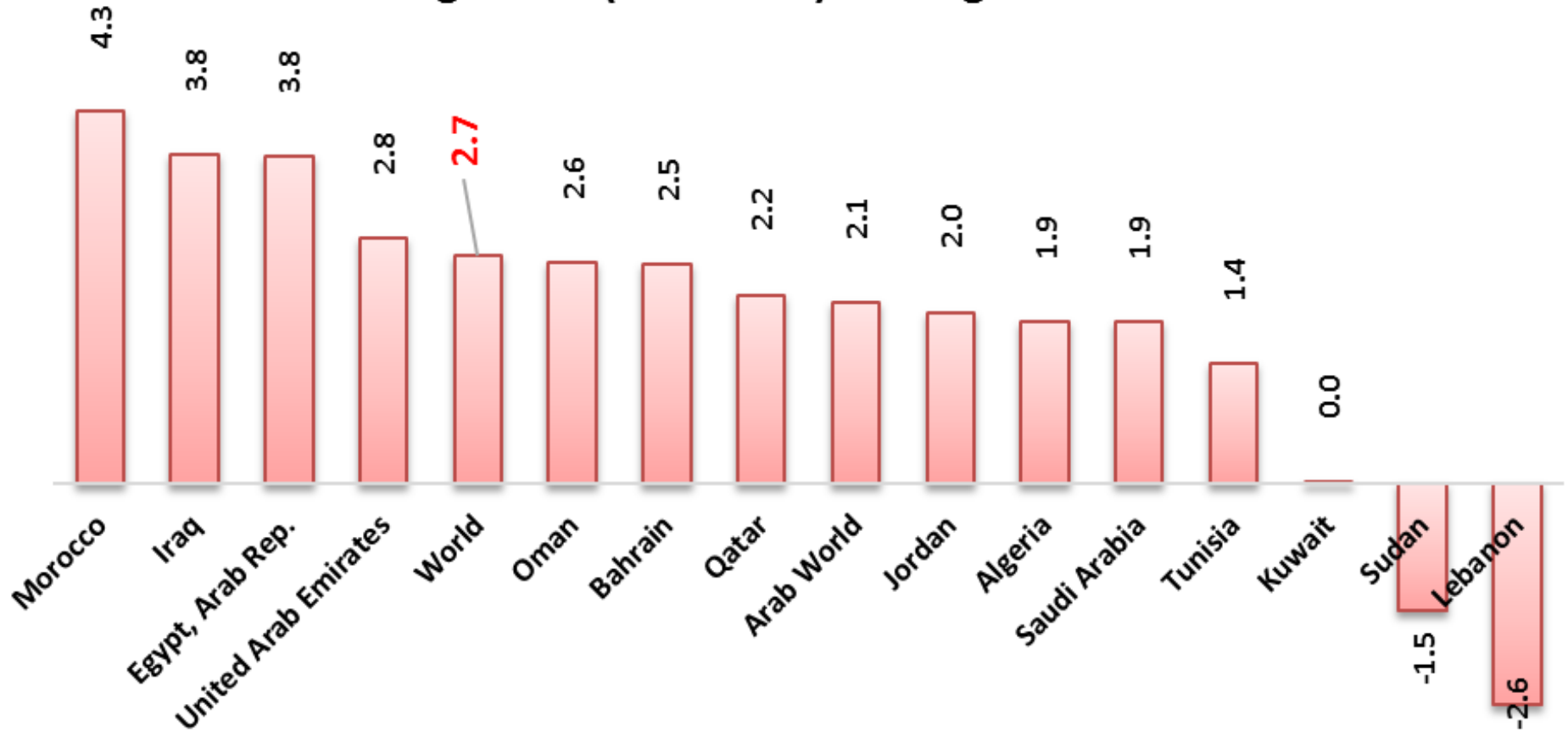


GDP.Growth

Figure below Shows that Morocco is the highest GDP annual growth (4.3) among the Arab counters as average during the period (2012-2021) , followed by Iraq ,Egypt , United Arab Emirates respectively, which are above the GDP annual growth of the world (2.7), While the Arab world average countries is about (2.1) taking in to account that Sudan and Lebanon are - 1.5 , -2.6 respectively.

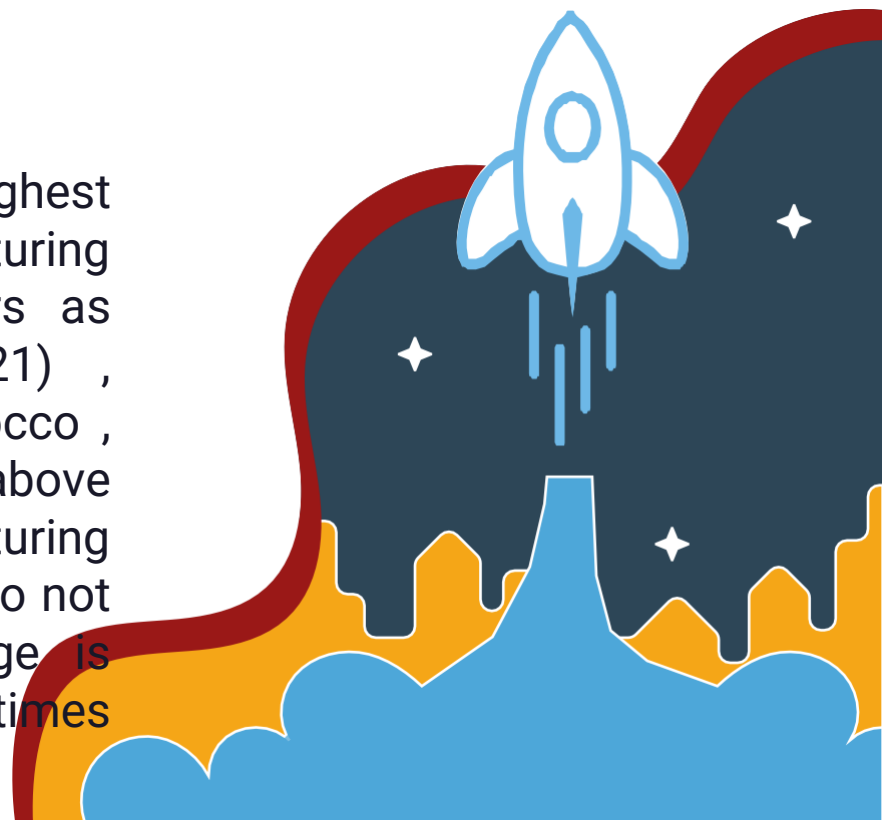


GDP growth (annual %) Average 2012-2021

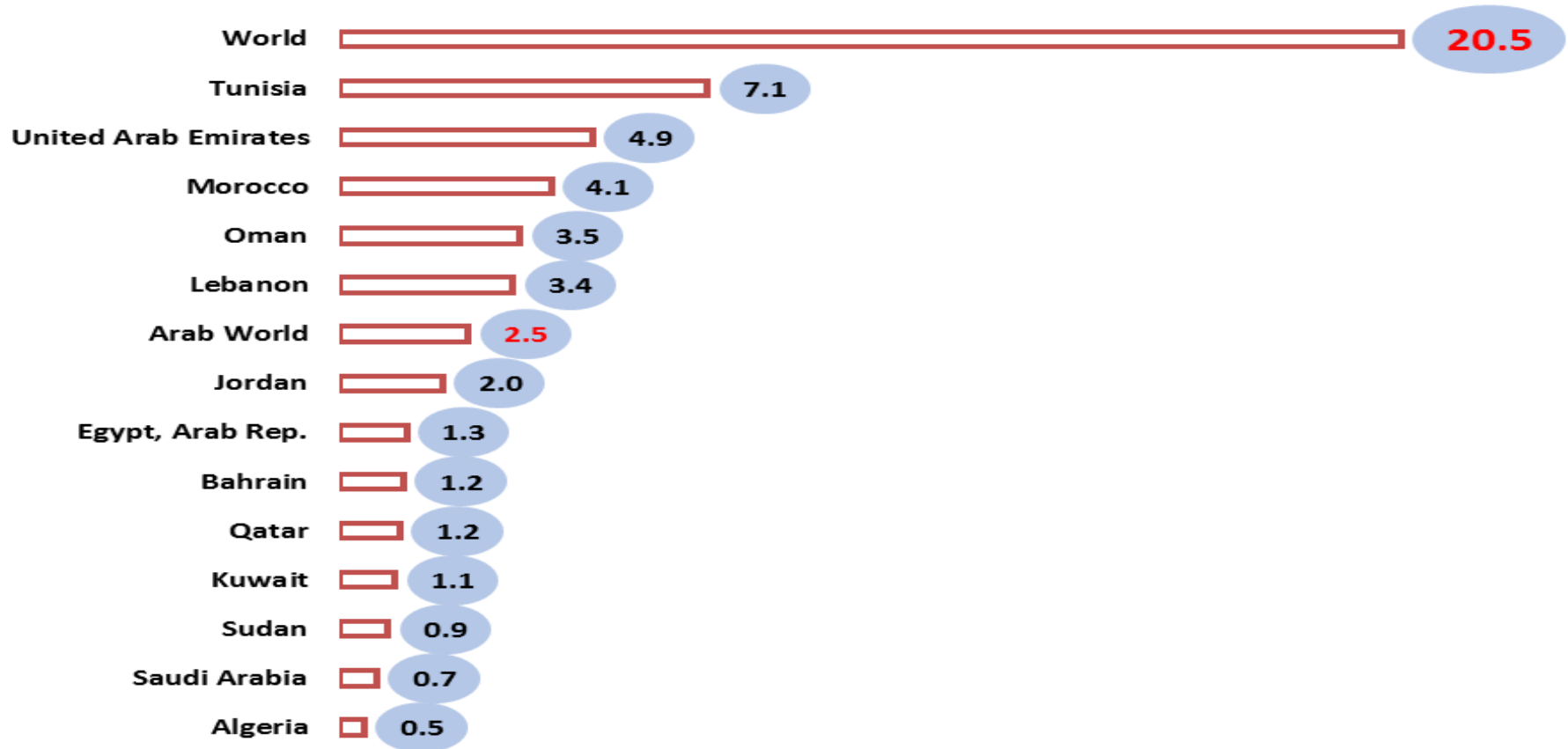


High – Technology exports % of Manufacturing Exports

Figure below Shows that Tunisia is the highest High – Technology exports % of Manufacturing Exports (7%) among the Arab counters as average during the period (2012-2021) , followed by United Arab Emirates , Morocco , Oman , Lebanon respectively which are above High – Technology exports % of Manufacturing Exports of the Arab world countries that do not exceed (2.5%), While the World average is about (20%) which indicate almost (8) times more of the Arab countries .



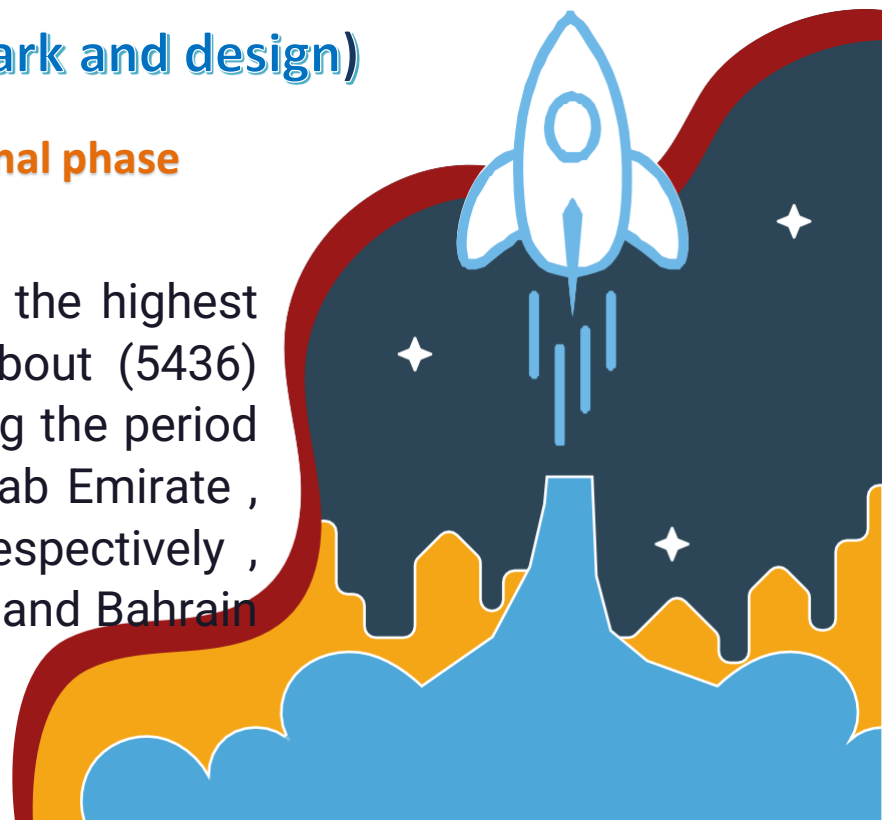
High-technology exports (% of manufactured exports) Average 2012-2021



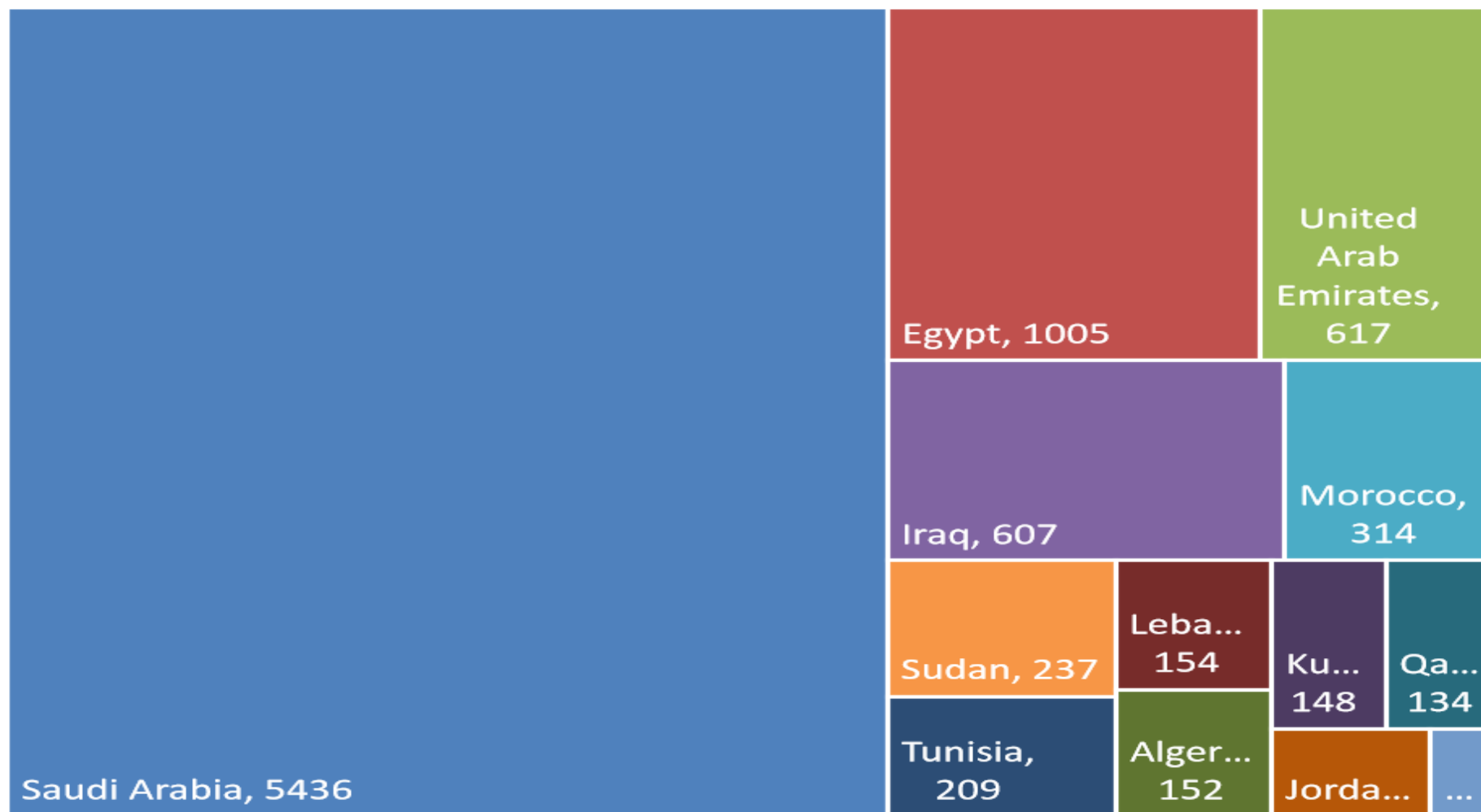
Intellectual Property (Patent, Trademark and design)

Total patent applications (direct and PCT national phase entries)

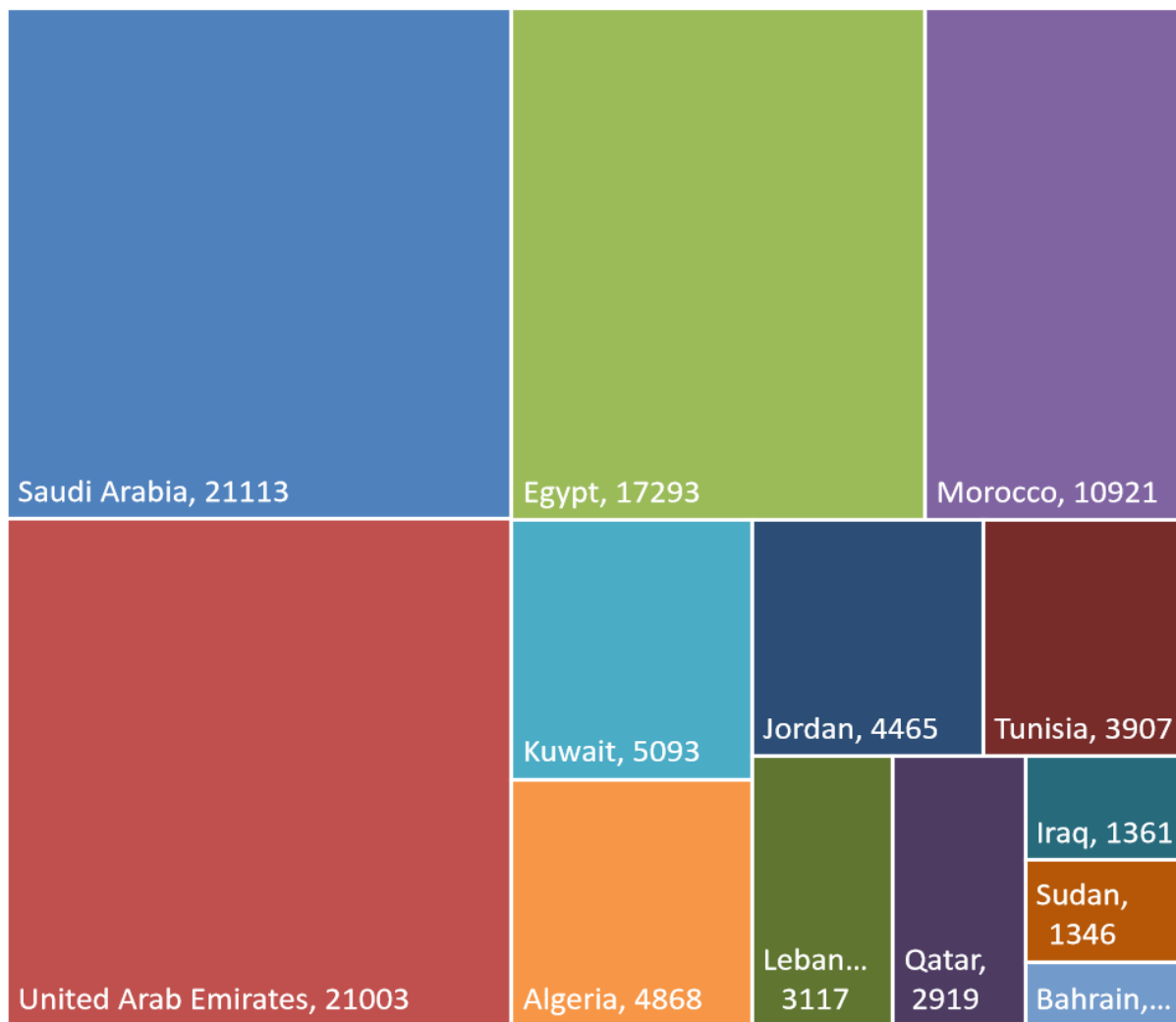
Figure below indicate that Saudi Arabia is the highest number of Patent Application which is about (5436) among the Arab counters as average during the period (2012-2021), followed by Egypt ,United Arab Emirate , Iraq , reaching about 1005 , 617, 607 respectively , while the average above period to Jordan and Bahrain are just 106, 40 respectively.



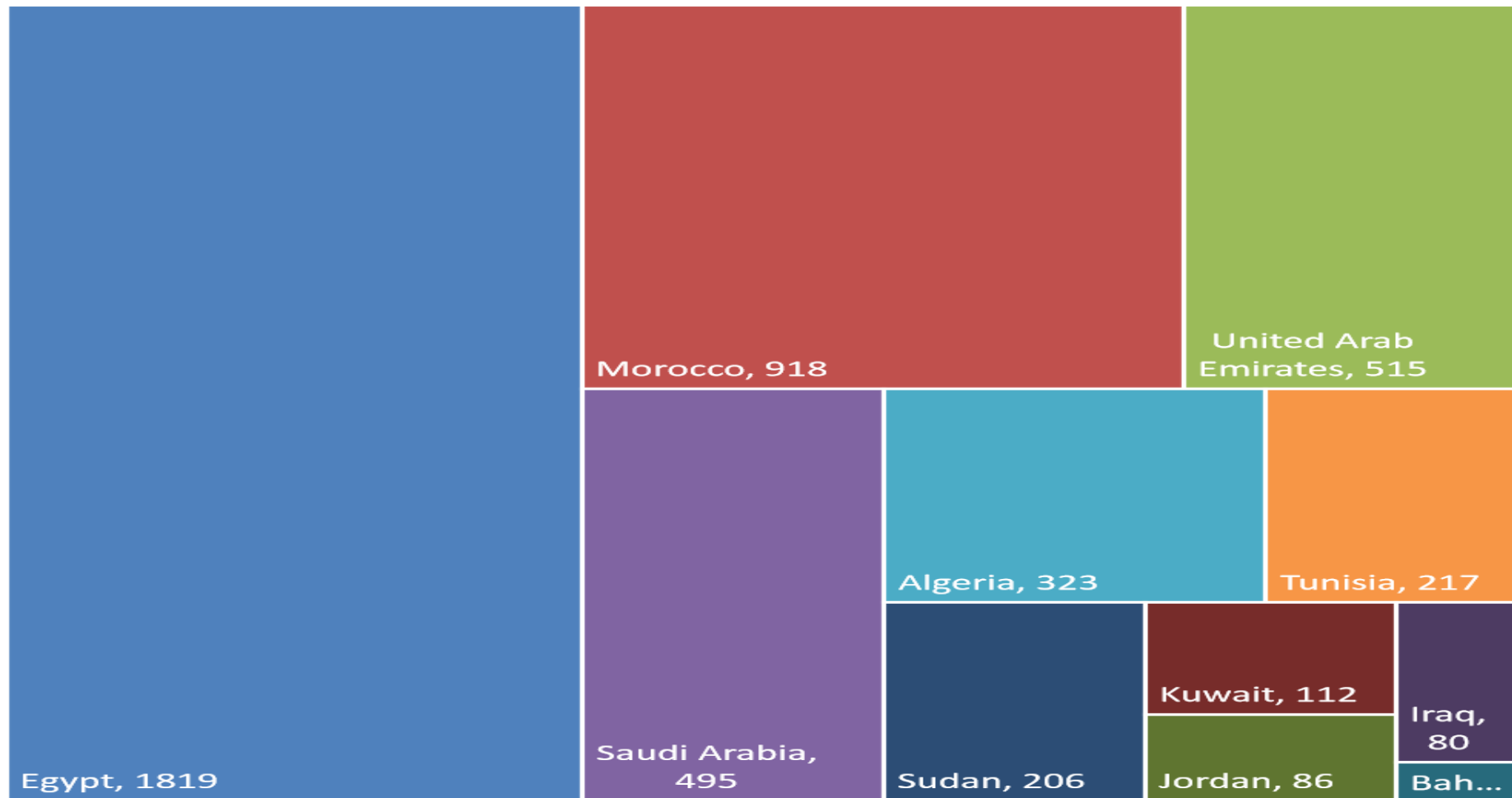
Total Patent Application (Average 2012-2021)



Total Trademark Application (Average 2012-2021)

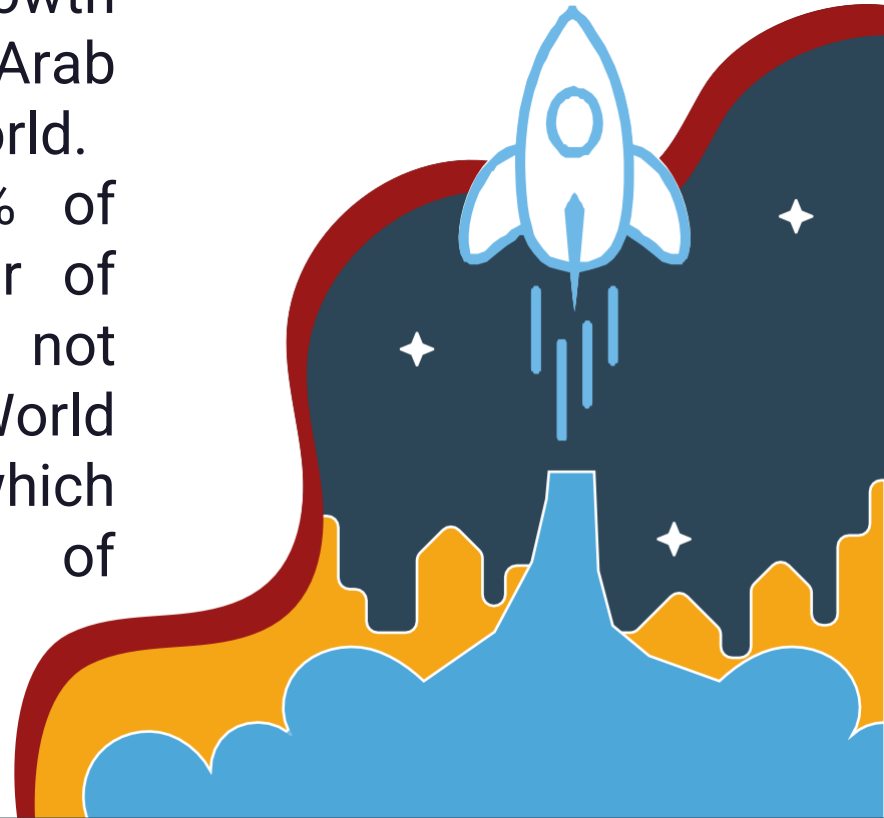


Total Design Application (Average 2012-2021)



Conclusions

- + GDP per Capita, GDP Growth economic indicator of The Arab countries are less the average world.
- + High – Technology exports % of Manufacturing Exports indicator of the Arab world countries do not exceed (2.5%), While the World average is about (20%) which indicate almost (8) times more of the Arab countries.



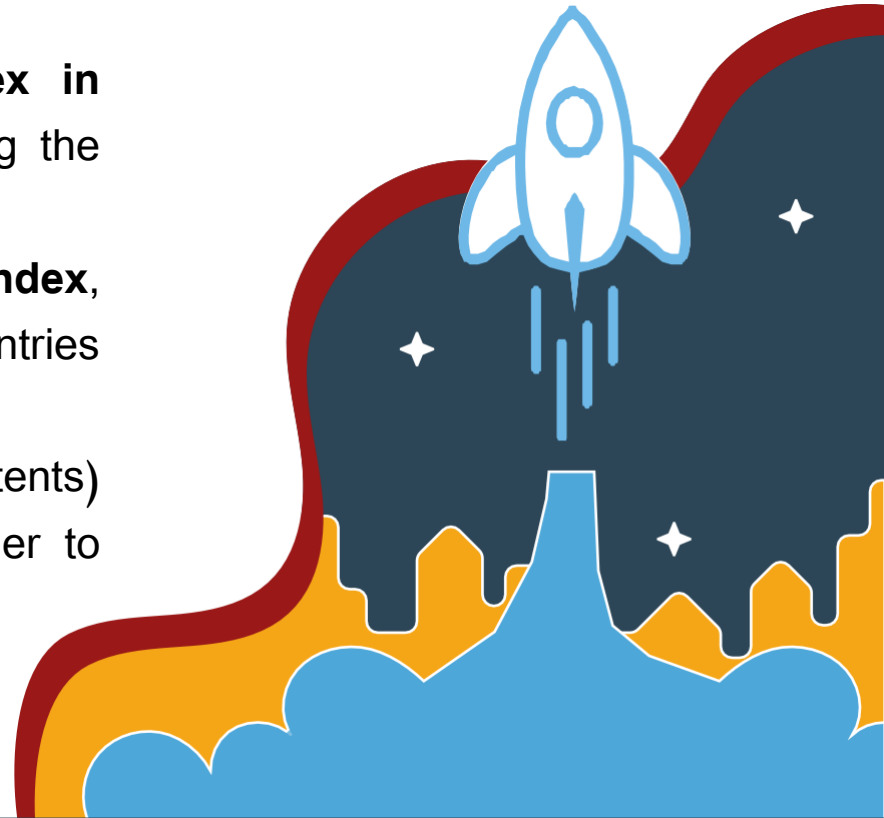
- ✓ Saudi Arabia is the highest number of Patent Application which is about (5436) among the Arab counters as average during the period (2012-2021), followed by Egypt ,United Arab Emirate , Iraq , reaching about 1005 , 617, 607 respectively , while the average above period to Jordan and Bahrain are just 106, 40 respectively.
- ✓ Saudi Arabia is the highest number of Total Trademark Applications which is about 21113 among the Arab counters as average during the period (2012-2021), followed by United Arab Emirate Egypt, Morocco reaching about 21003, 17293, 10921 respectively, while the average above period to Iraq and Bahrain are just 1361, 850 respectively.



Innovation & Patents (IPMED)

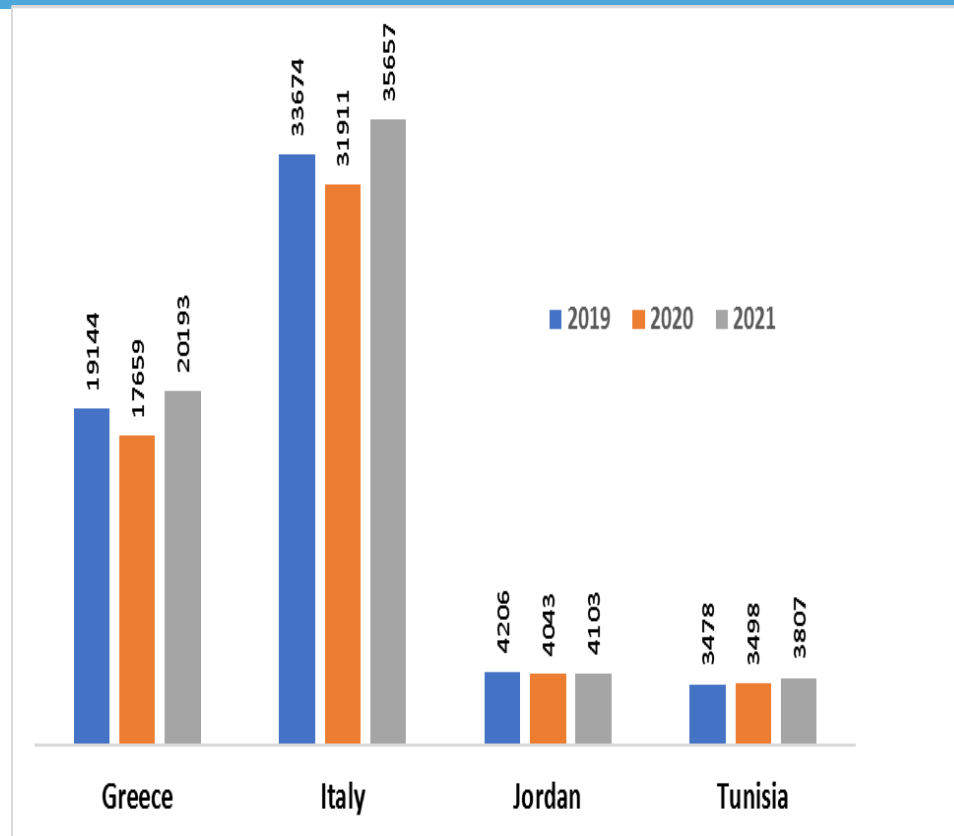
Objectives:

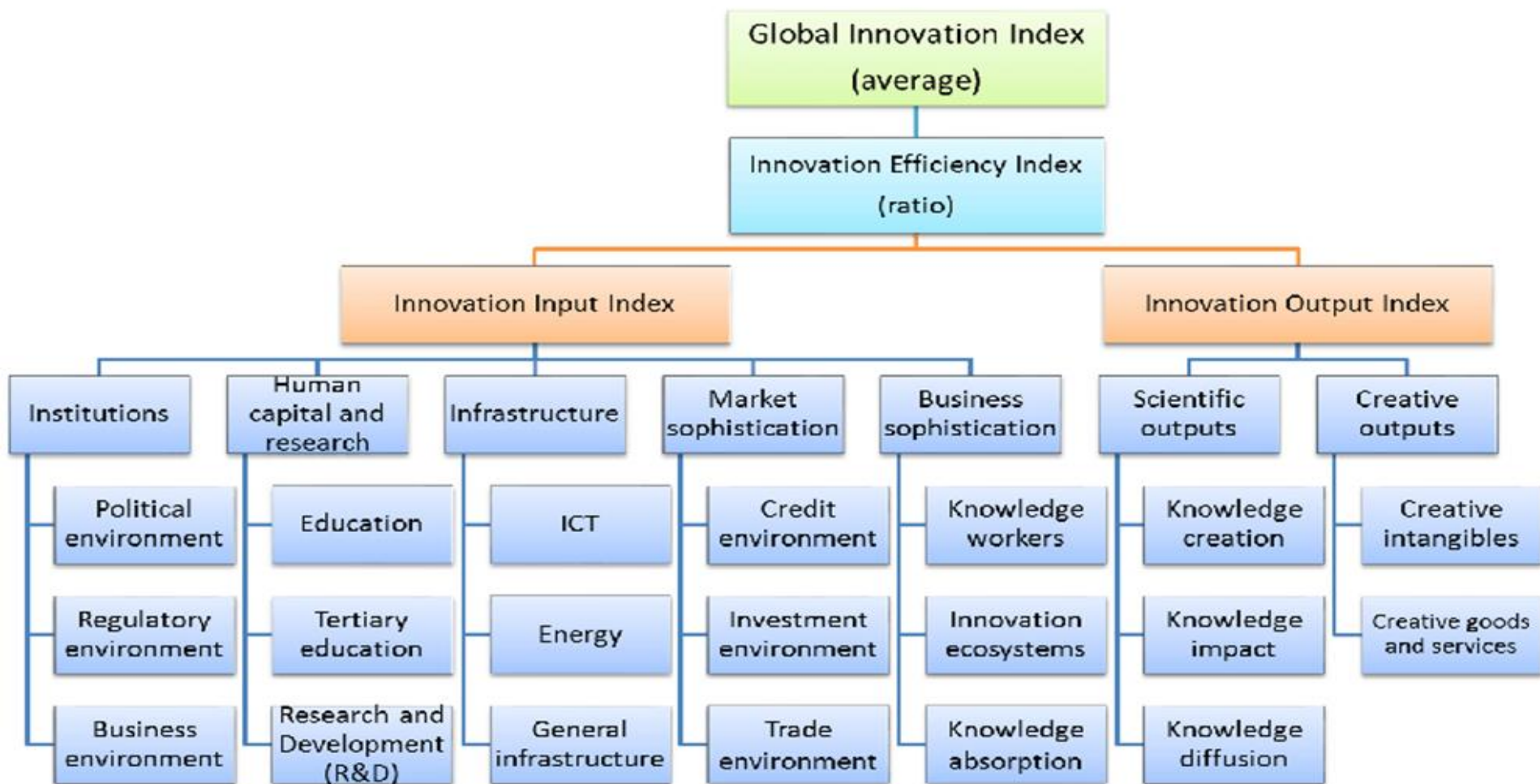
- 1-Comparing Patents and Innovation **Index in Greece, Italy, Jordan and Tunisia** during the Period (2012–2022).
- 2-Highlighting improvement in **Innovation Index**, Focusing on **Patents** in the above countries (IPMED).
- 3- To come up with selected indicators (Patents) such as patent grants by technology in order to compare between the IPMED counters.



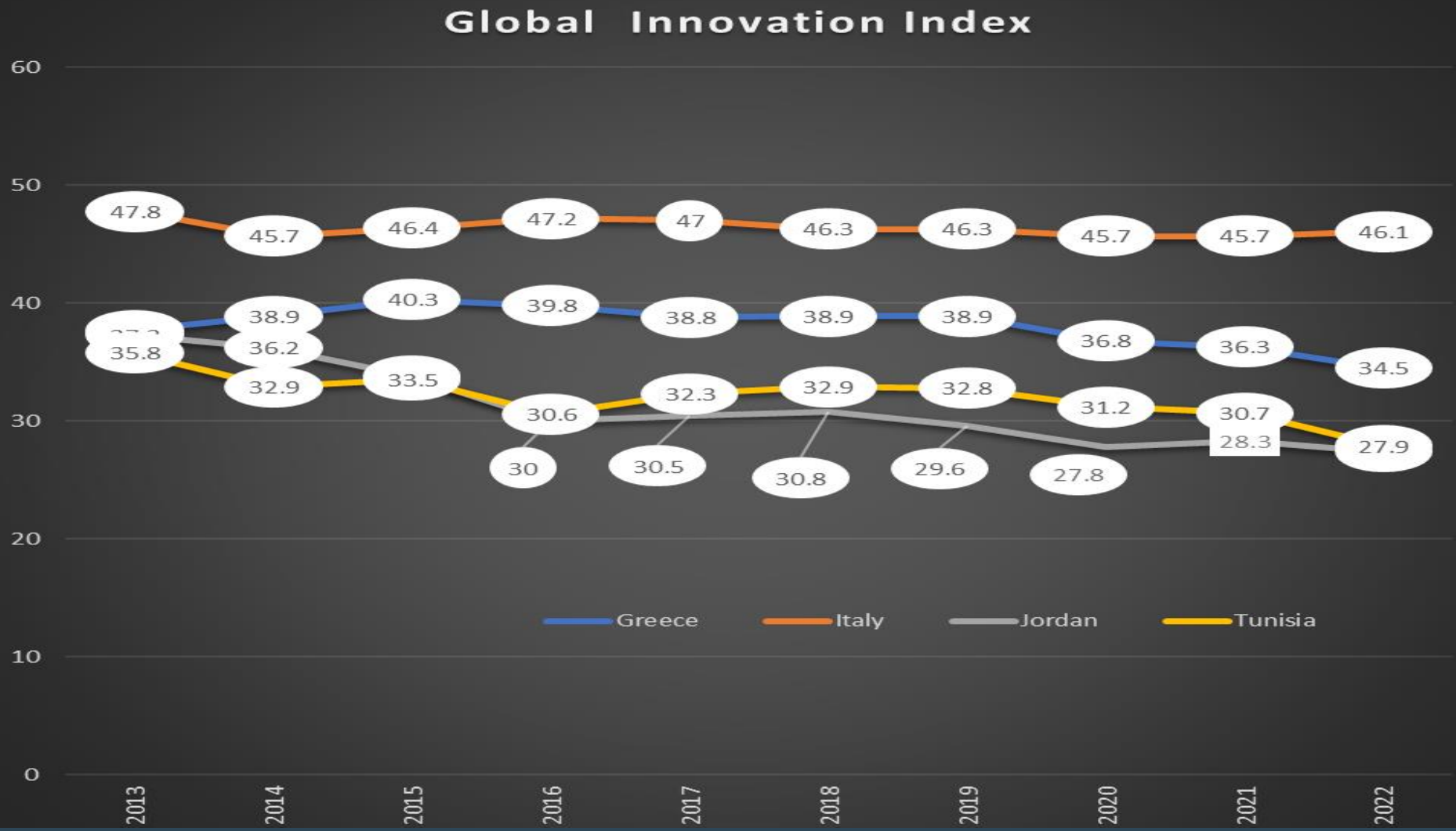
Selected Economies Indicators

GDP per Capita – IPMED

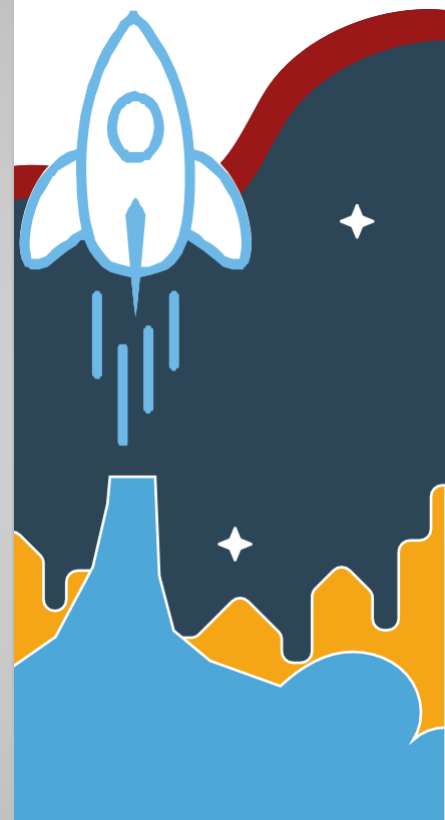
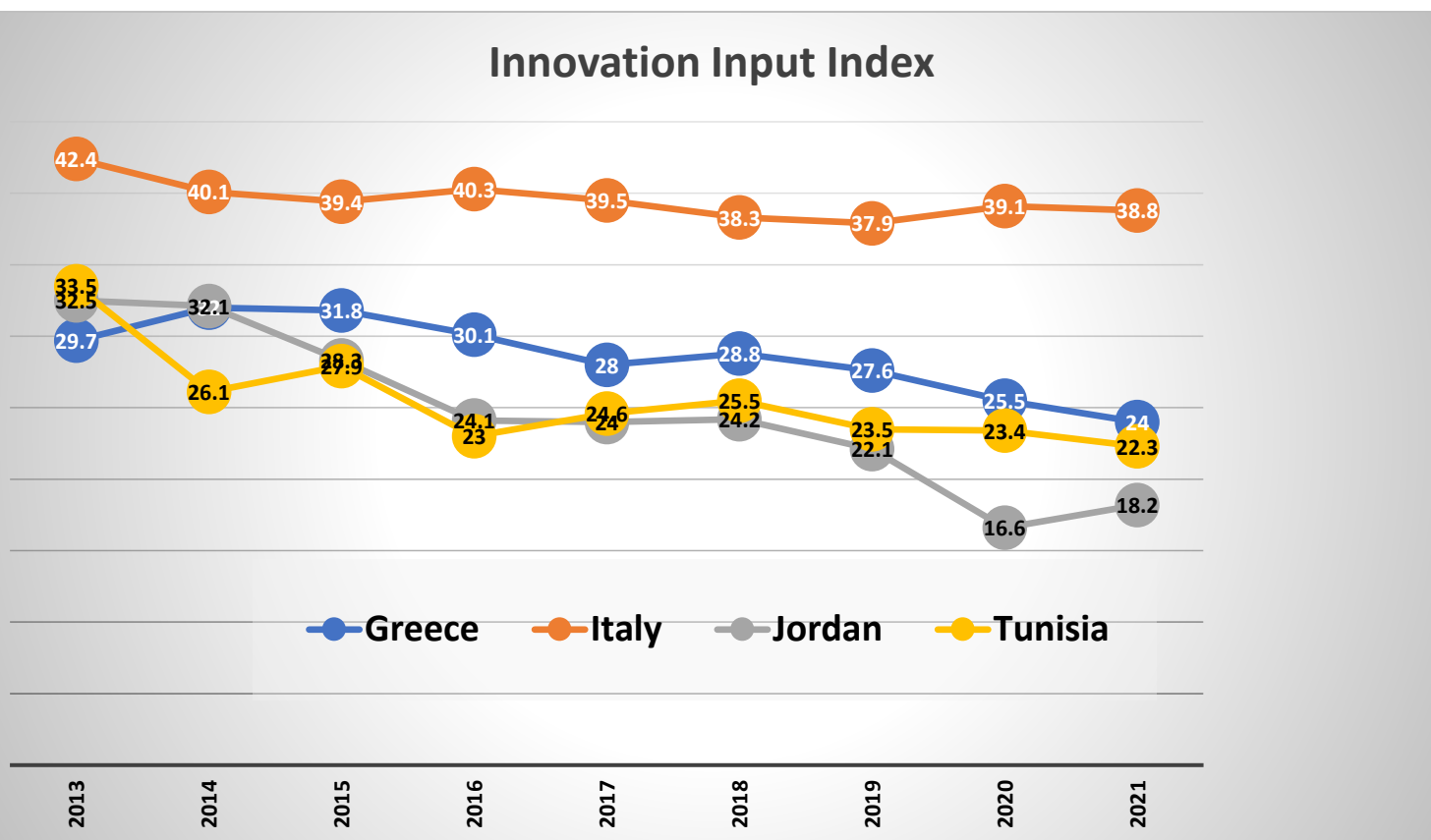




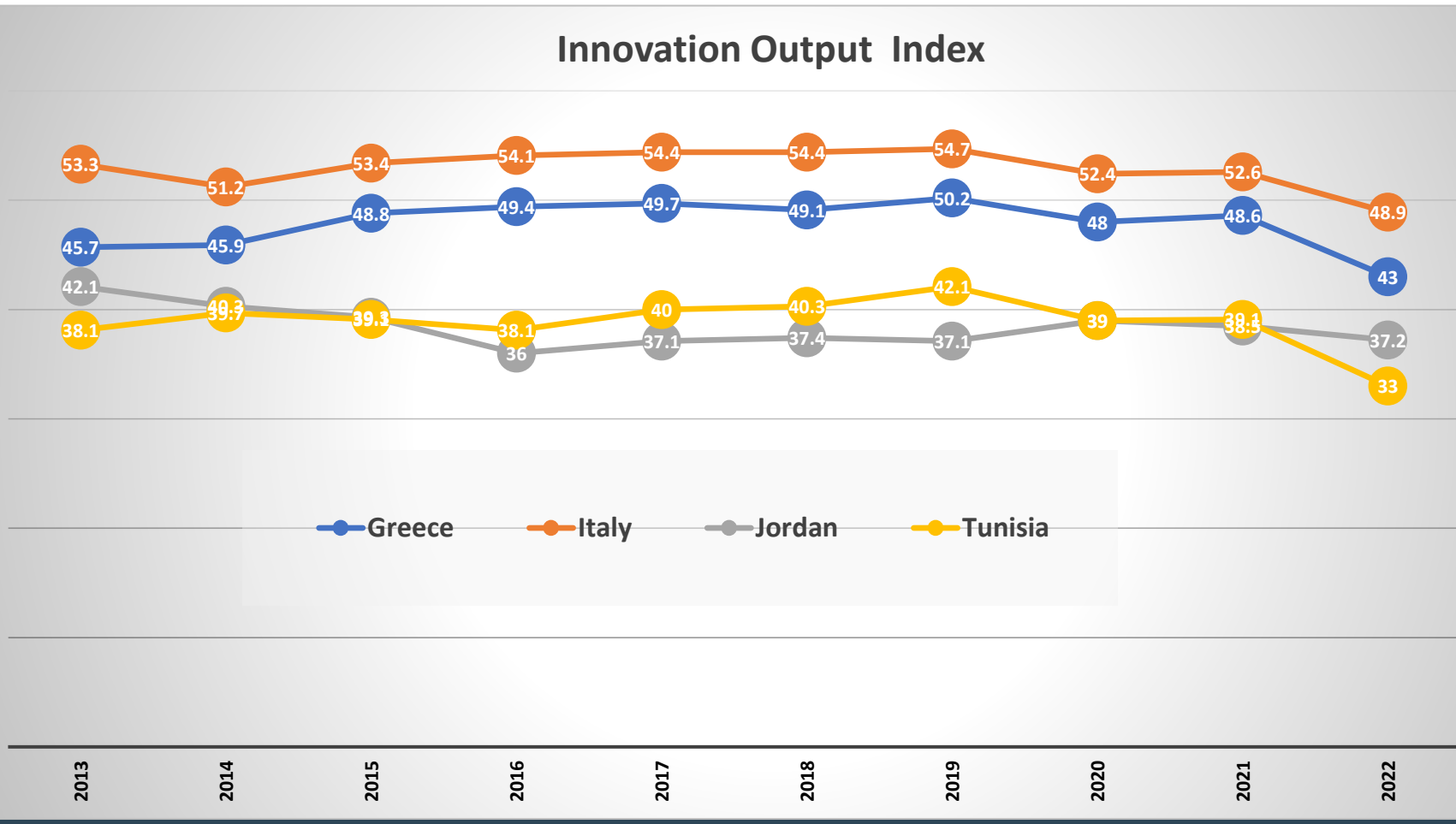
Innovation Index (GII) – IPMED



Innovation Sub-Index (Inputs)



Innovation Sub-Index (Outputs)



Patents – IPMED

Total Patent Applications (Direct and PCT National Phase Entries)

Year	Greece	Italy	Jordan	Tunisia
2012	1107	28696	120	191
2013	1083	28970	213	218
2014	1254	29360	83	176
2015	1154	30306	184	218
2016	1234	31252	144	270
2017	1233	31393	88	188
2018	1137	32289	51	201
2019	1164	32028	49	N/A
2020	1129	32551	75	N/A
2021	1387	34206	53	N/A



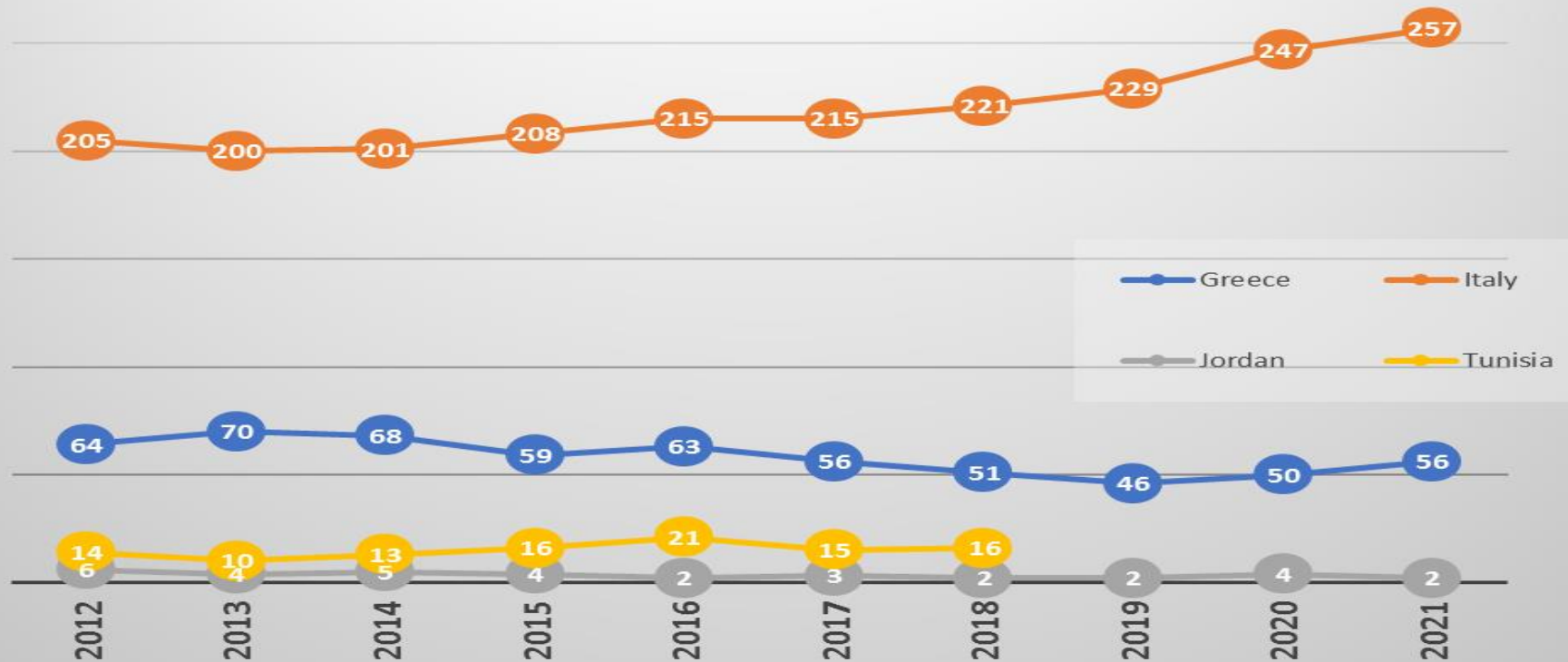
Grant for Direct Applications – IPMED

Year	Greece	Italy	Jordan	Tunisia
2012	390	9643	14	143
2013	367	12077	18	104
2014	399	11658	63	n/a
2015	339	11103	33	n/a
2016	362	11158	9	1
2017	377	10245	27	n/a
2018	347	12441	48	n/a
2019	403	14426	26	n/a
2020	391	14615	24	n/a
2021	391	12209	19	n/a



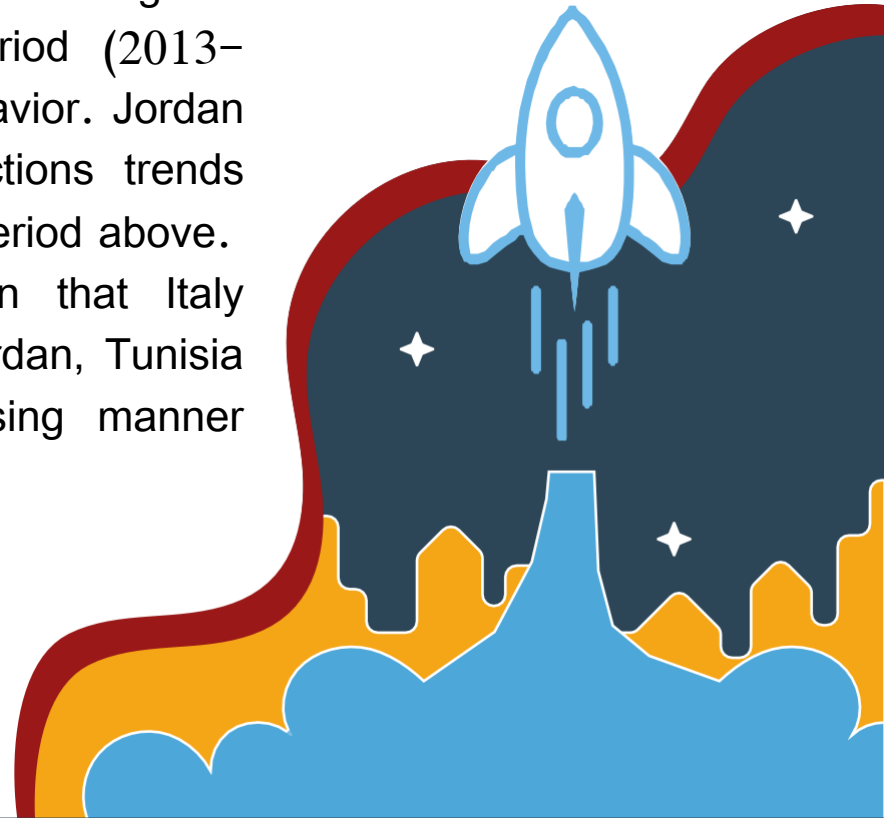
Resident Applications per-million population (by origin)

Resident Application Per Million Population

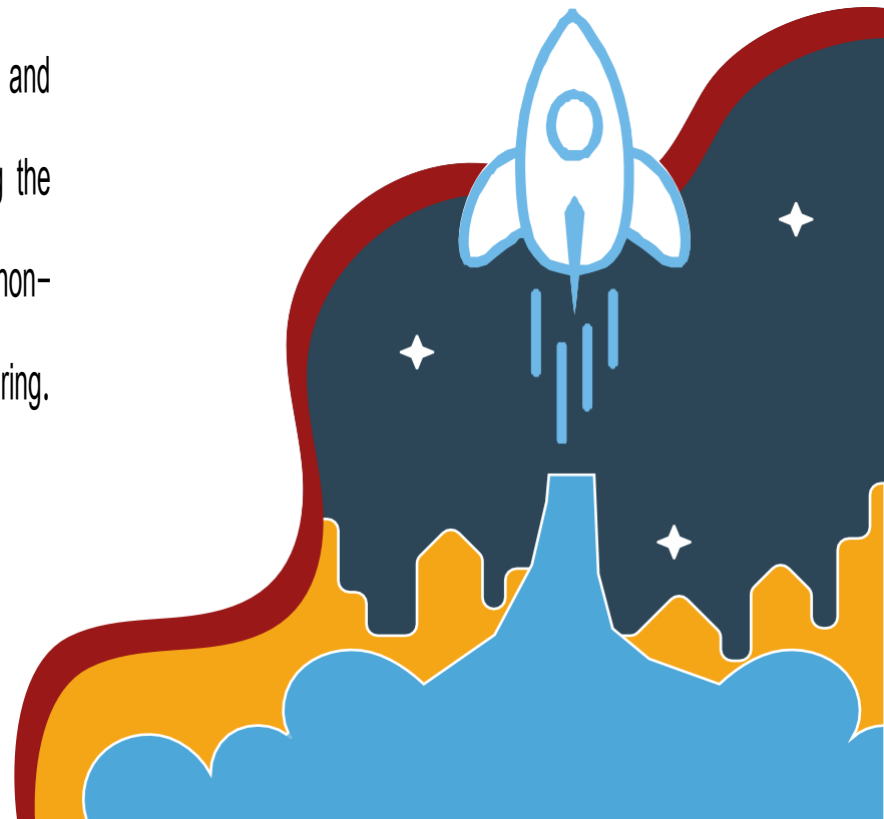


Conclusions

1. Innovation Index (GII) score of Italy was the highest among the four countries during the period (2013–2022), followed by Greece in a steady behavior. Jordan & Tunisia however followed a rather fluctuations trends below both Italy & Greece during the same period above.
2. Innovation Sub-Index (Inputs) resulted in that Italy remained stable in trend, while Greece, Jordan, Tunisia showed slightly fluctuations in a decreasing manner during the period (2017–2022).



1. Manufacturing percentage contribution including Construction of the GDP in (Greece and Italy), respectively are less than percentage contribution (Jordan and Tunisia) during the period (2011-2021) ; Therefore this indicate that there is an opportunities for non-manufacturing countries to improve technology in other sectors in addition of Manufacturing.
2. Resident percentage to the total patent application of Italy is slightly increasing, while Greece, and Jordan are fluctuation during the period (2012-2022). While Tunisia had improved by increasing during the period (2013-2022).



Global Innovation Index in Jordan, Considering Main Intellectual Property Rights: Patents, Design & Trademark

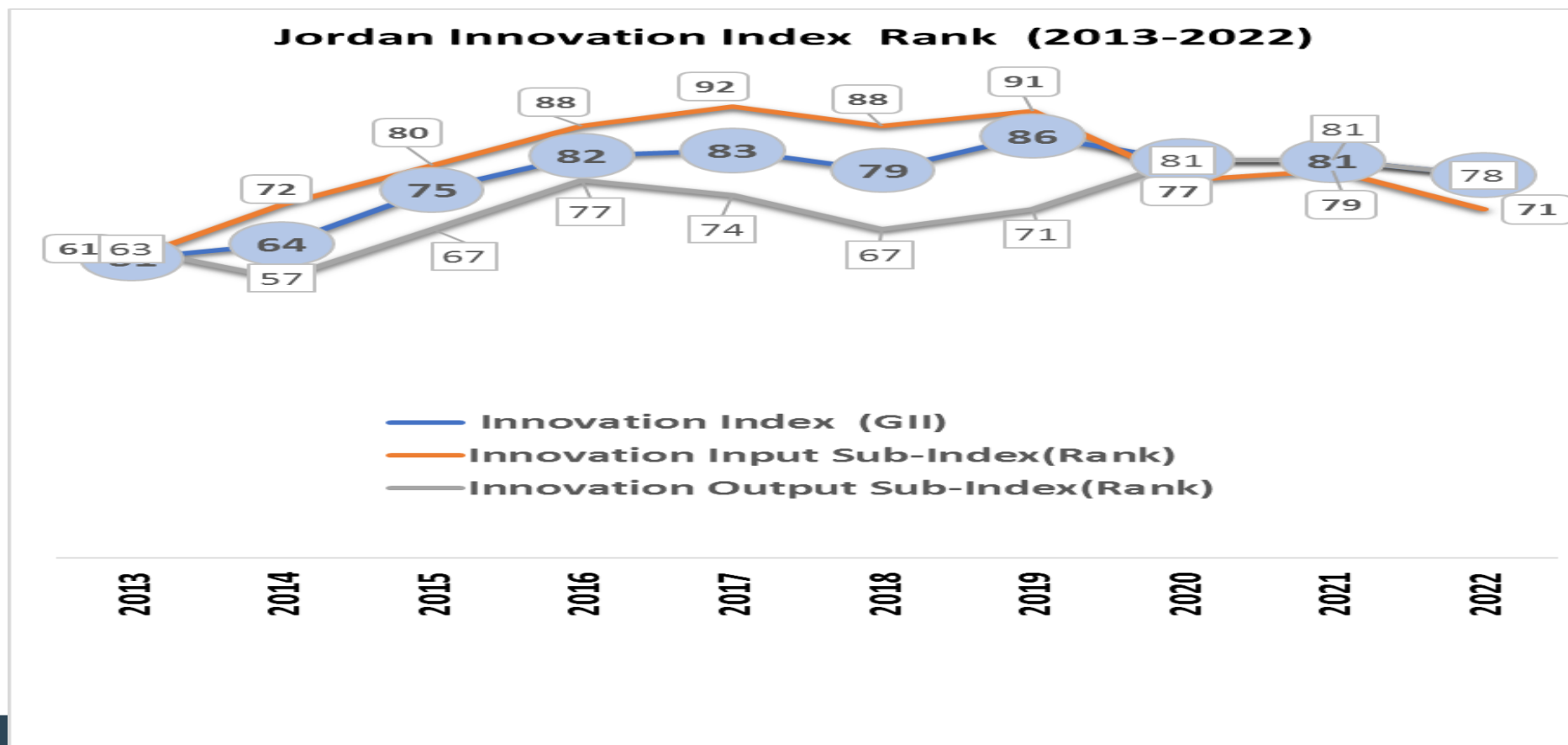
Objectives:

1. To Review Jordan Global Innovation Index.
2. To determine the strength and weakness the Innovation Sub Inputs & Sub Outputs components.
3. Presenting the main indicators of the Intellectual Property Rights in Jordan (Patents, Design and Trademark) evolution in Jordan

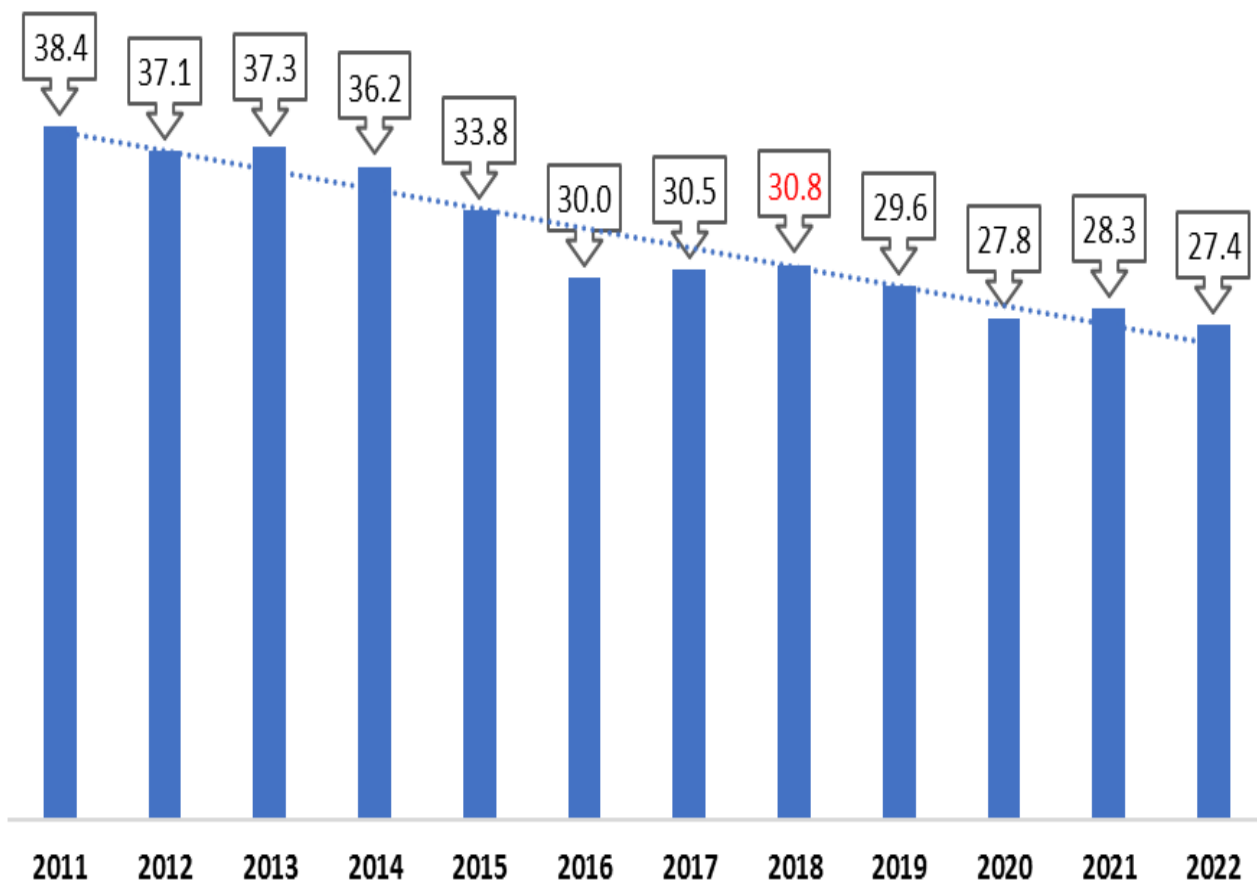


Jordan Ranking

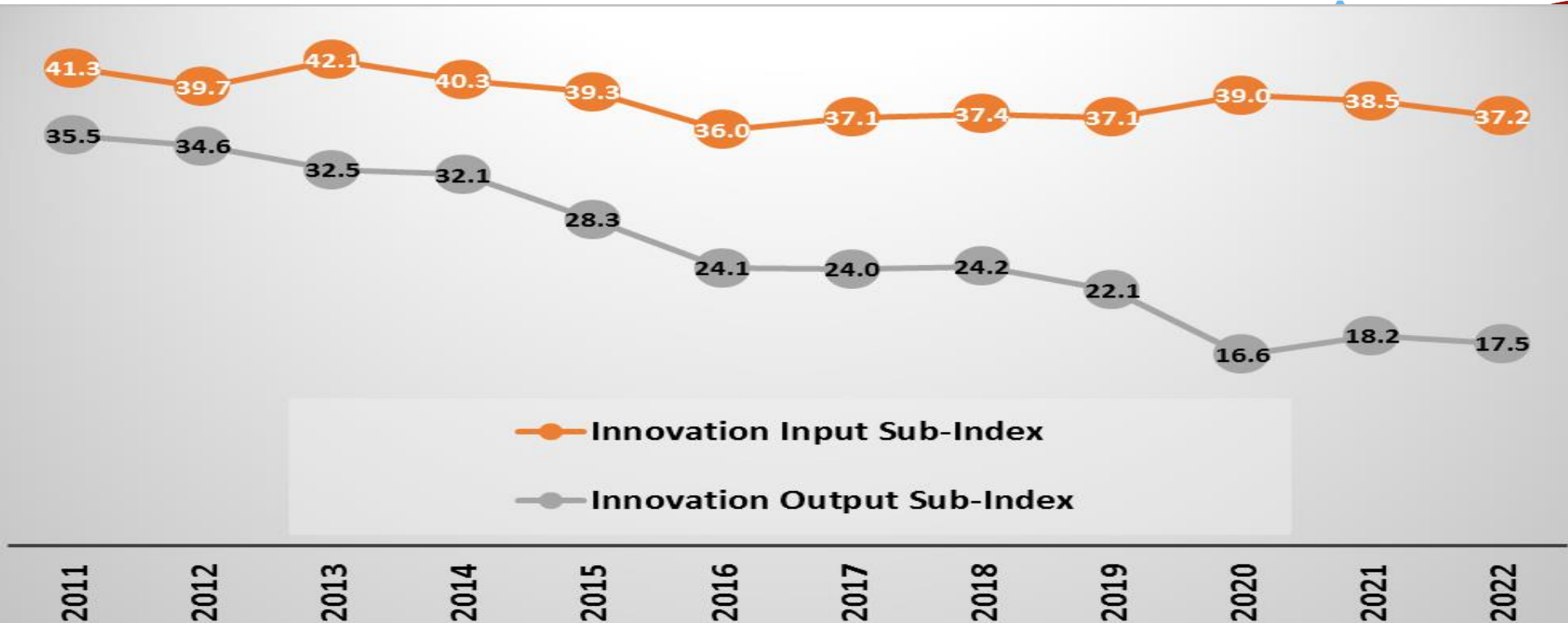
Figure below indicate that Jordan Global (GII) is improving its rank since 2019 ; from rank **86** to rank **78** year 2022. While the Sub indicators (input & output) are still slightly fluctuation during the same above period (2019–2022).



Jordan Innovation Index (2011-2022)

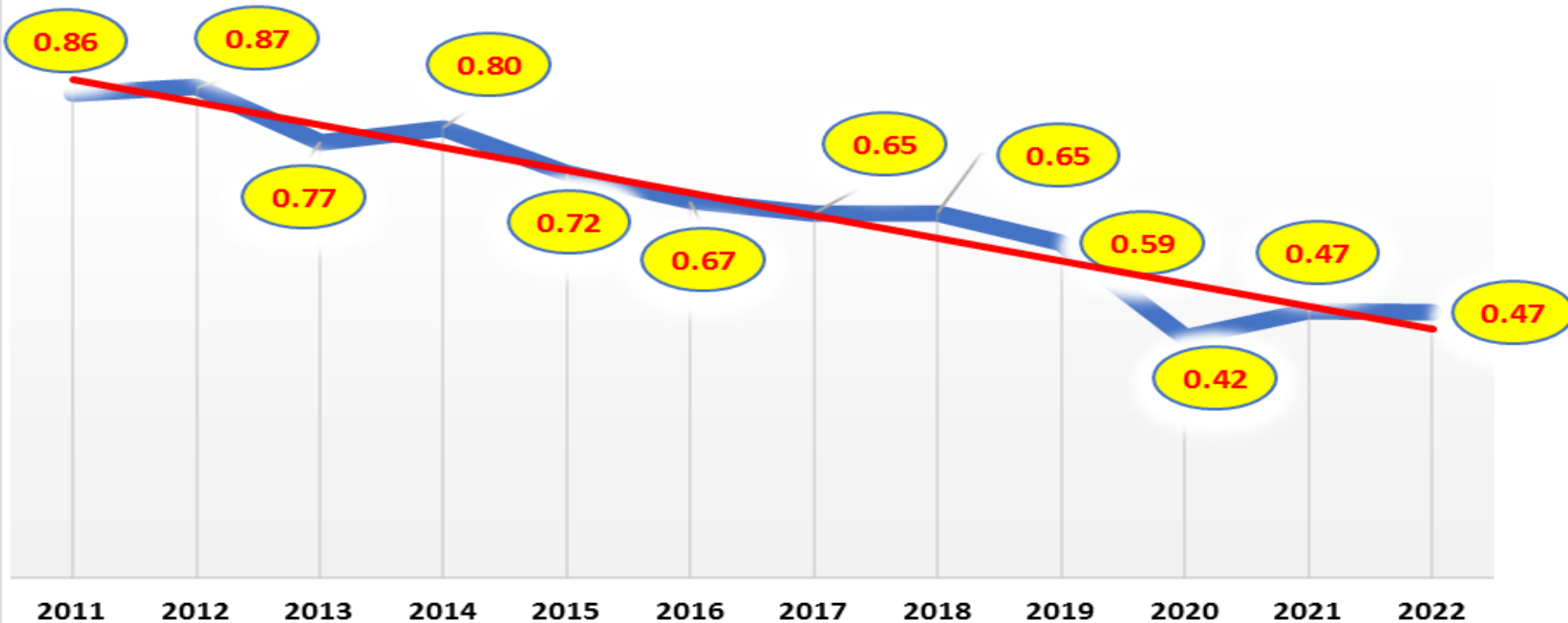


Jordan Innovation Sub-Index (Inputs, Outputs)

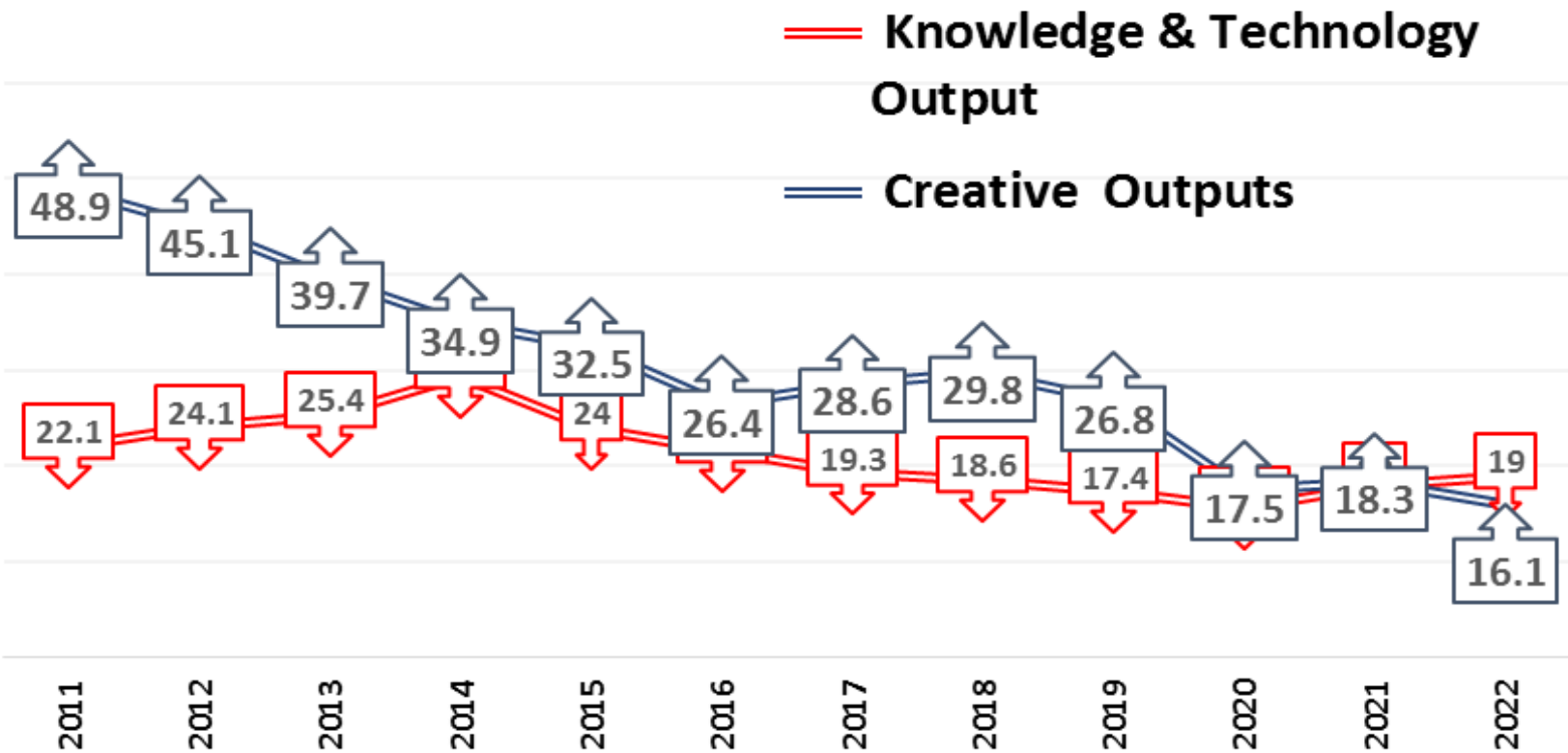


Jordan Innovation Efficiency Ratio

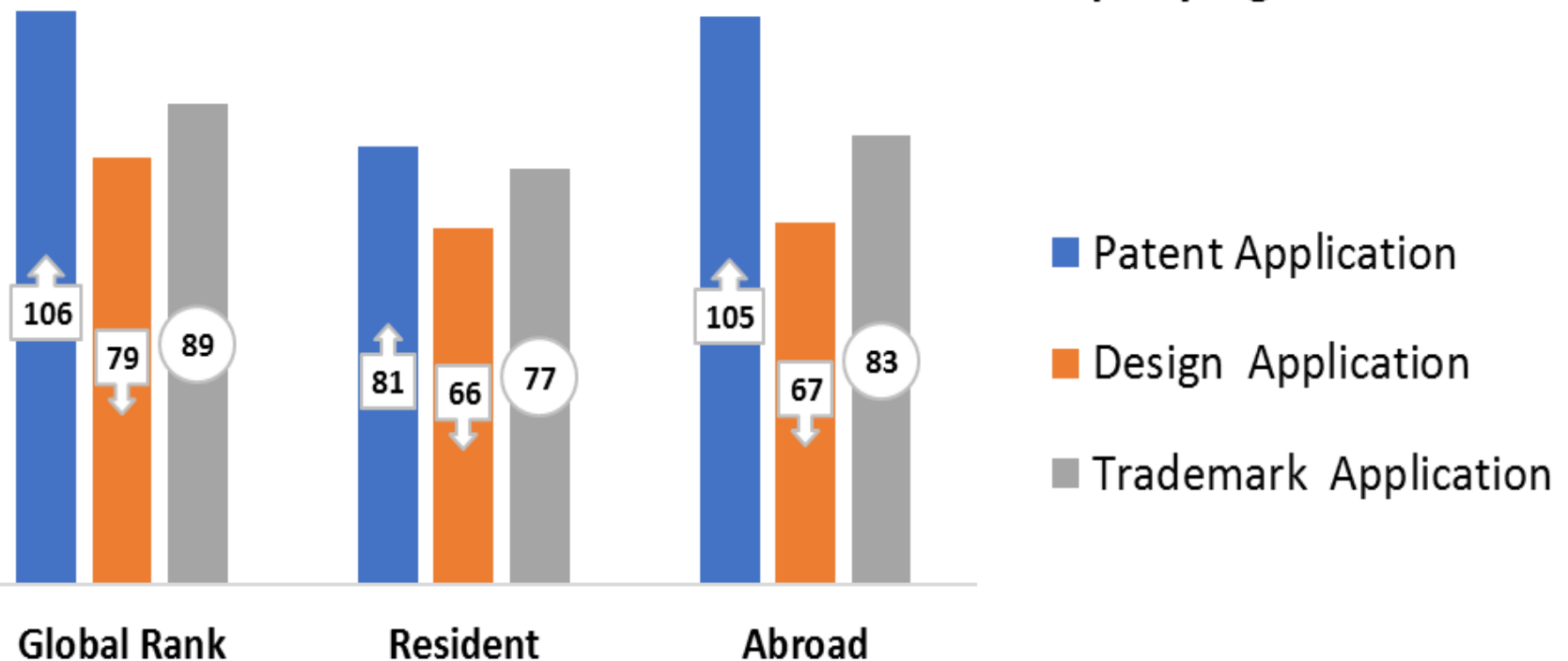
Joran Innovation Efficency Ratio (2011-2022)



Jordan Innovation Outputs Sub-Index (2011–2020)

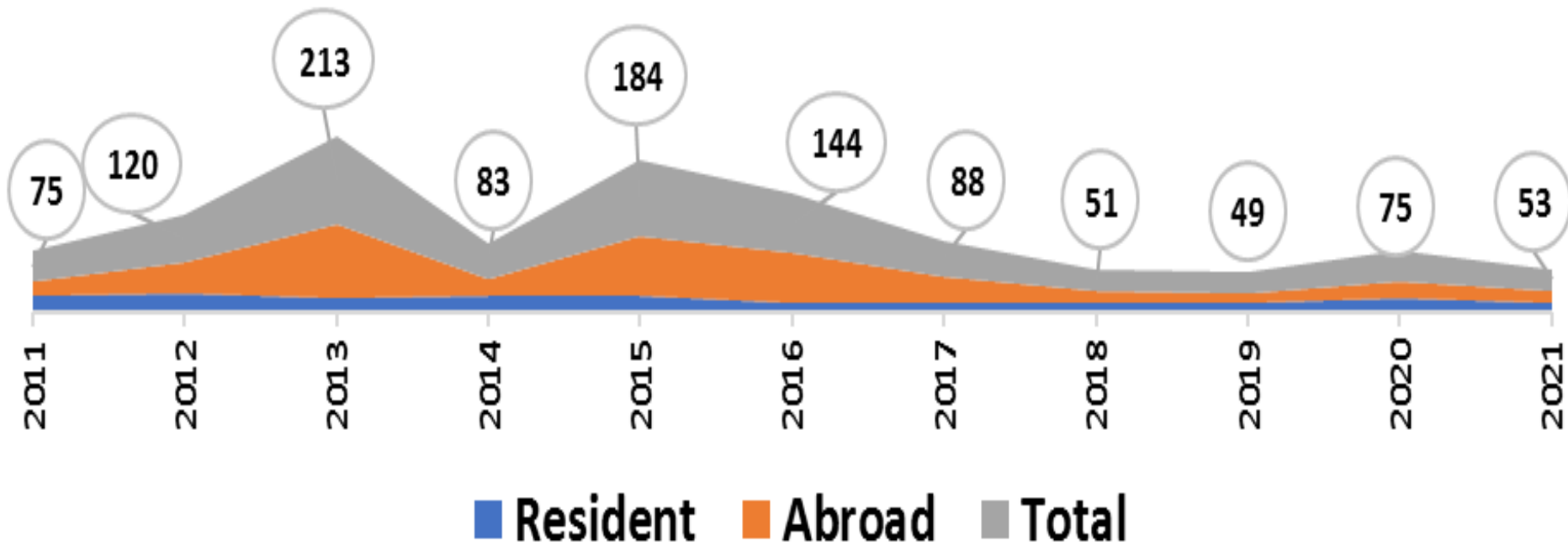


Jordan Rank 2021- Main Intellectual Property Rights



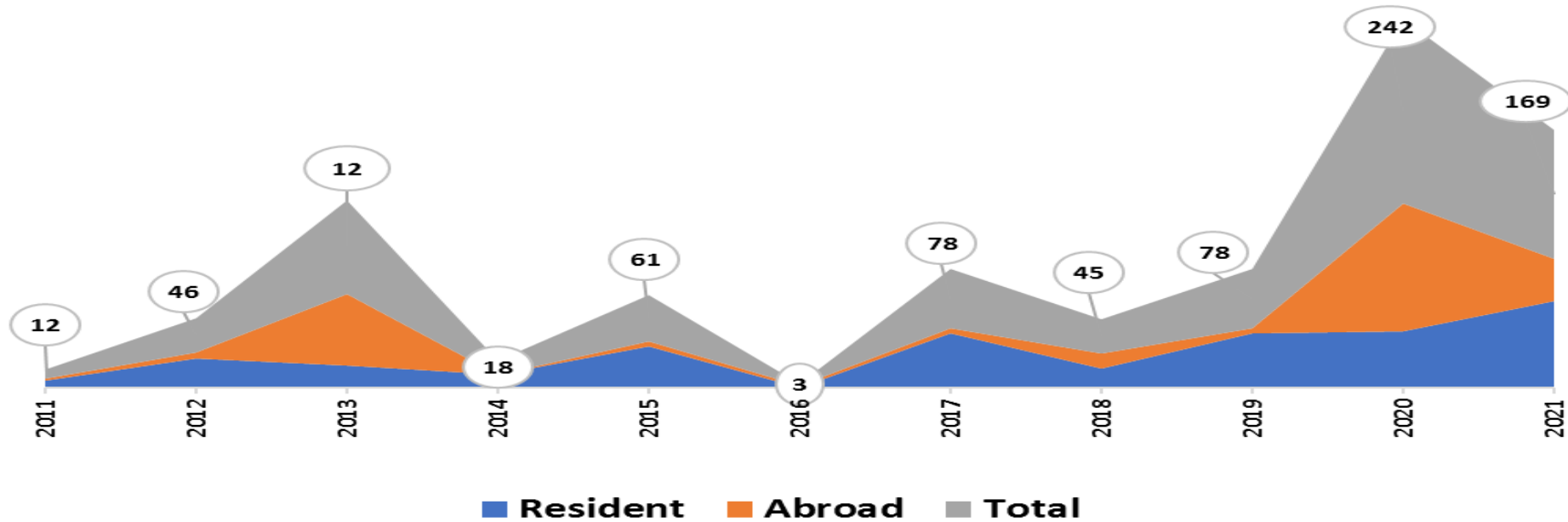
Patent Application

Patent Applications - Jordan (2011-2021)



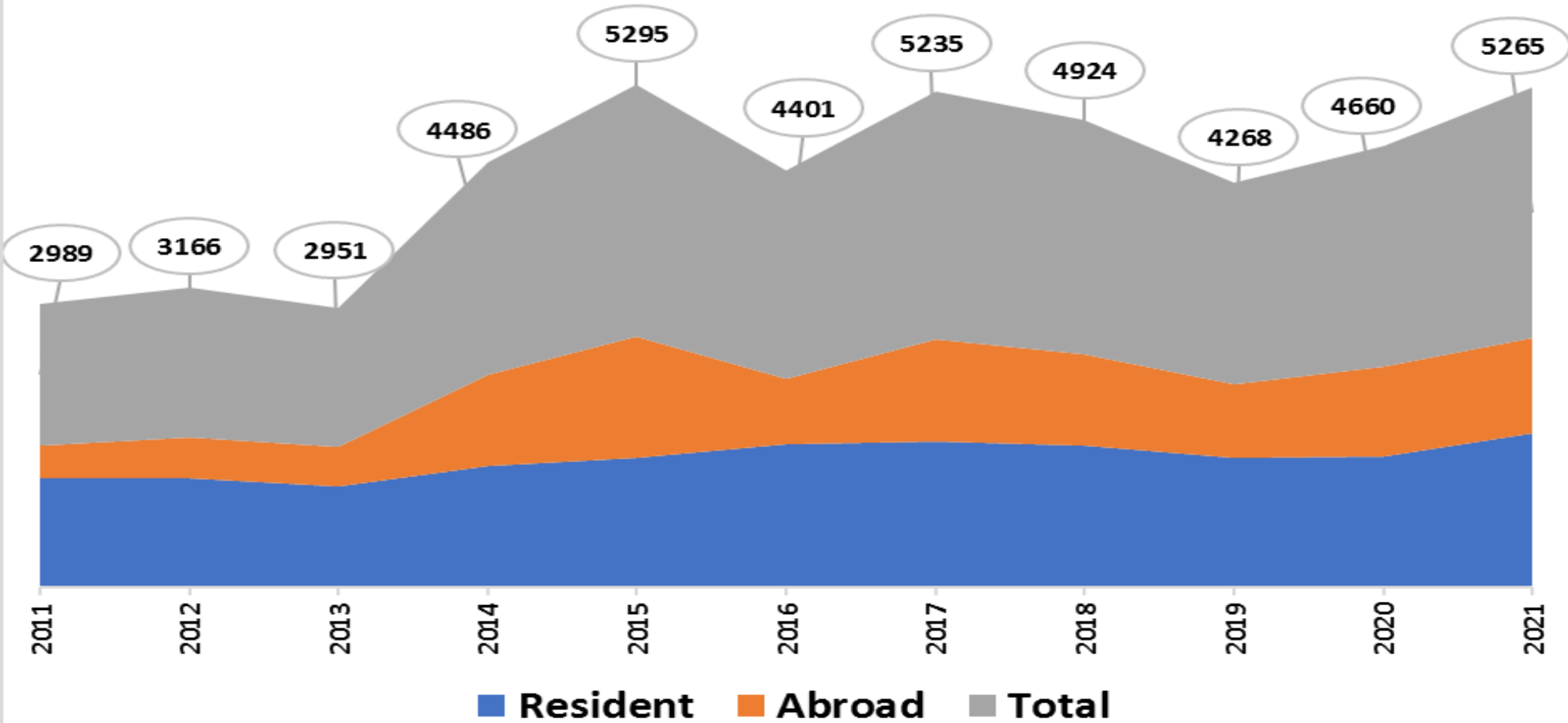
Design Application

Design Application - Jordan (2011-2021)



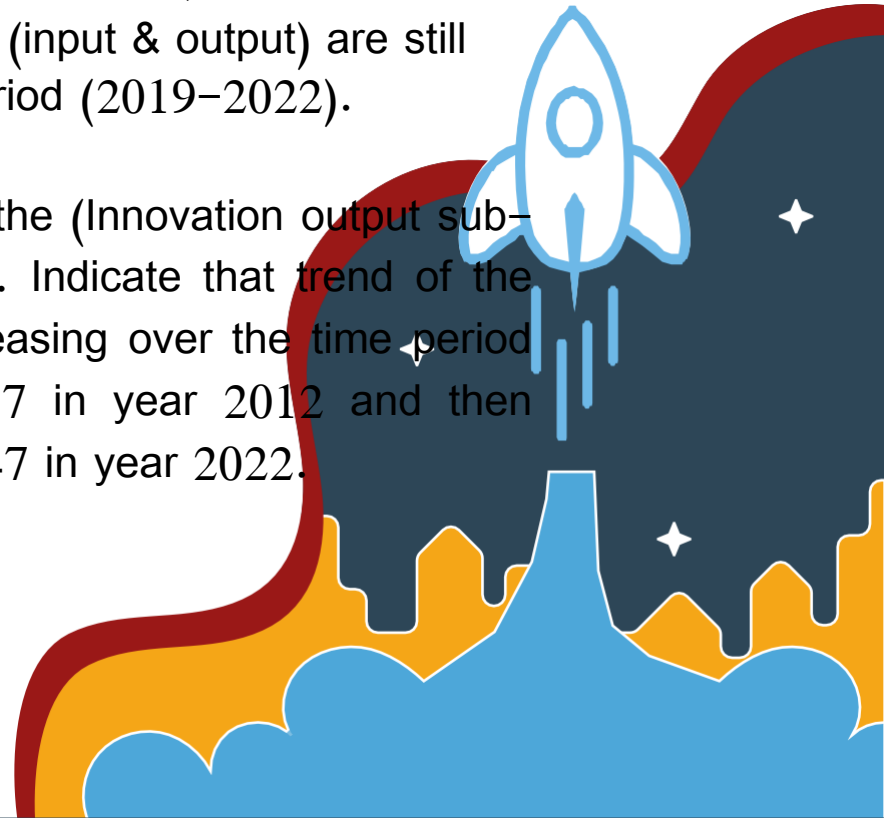
Trademark

Trademark Application - Jordan (2011-2021)

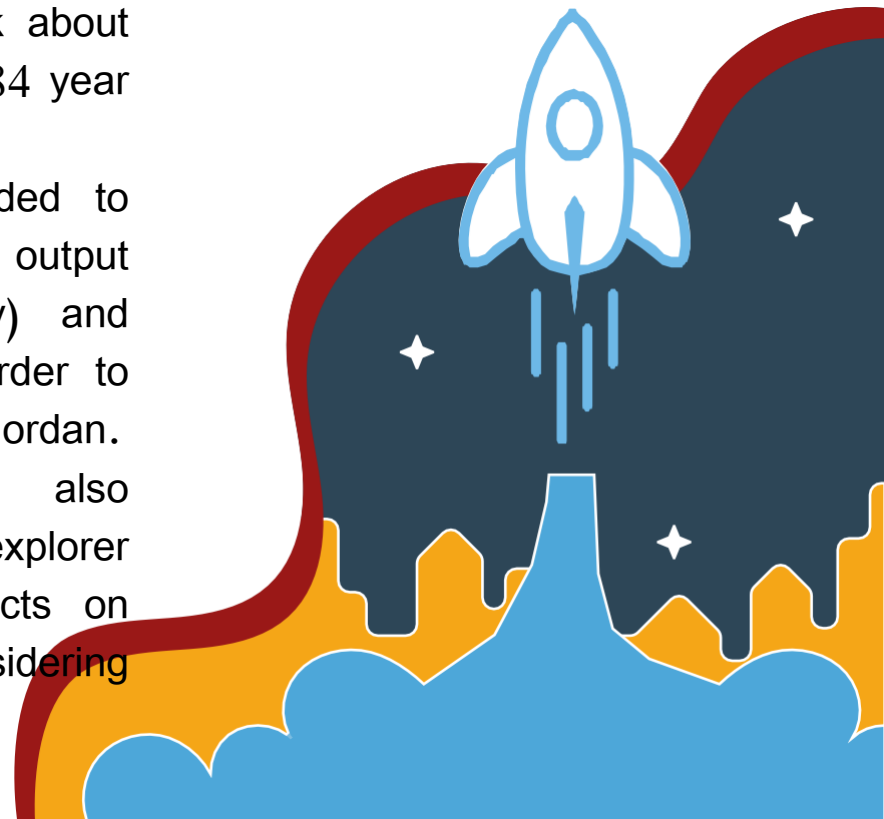


Conclusions & Recommendations

- Jordan Global (GII) is improving its rank since 2019 ; from rank 86 to rank 78 year 2022. While the Sub indicators (input & output) are still slightly fluctuation during the same above period (2019–2022).
- The efficiency ratio is calculated by dividing the (Innovation output sub-index) on the (innovation inputs sub-index). Indicate that trend of the innovation efficiency ratio of Jordan is decreasing over the time period (2012–2020), this ratio reached about 0.87 in year 2012 and then decreased slowly until it became recently 0.47 in year 2022.



- Total number of Patent application reach its peek about 213–year 2013, while the trend decreases from 184 year 2015 to 53 year 2021.
- The Private and public sectors are recommended to participate in order to promote Innovation output components that are (Knowledge & Technology) and (Creative) which can both play a vital role in order to enhance productivity in Manufacturing industries in Jordan.
- More depth studies (Cause–Effect) are also recommended in order to investigate and explorer (Innovation Input and Output) component's effects on Innovation and Intellectual Property Rights considering various expected factors in Jordan economies



Thank you

