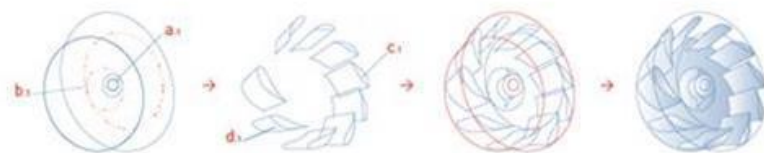
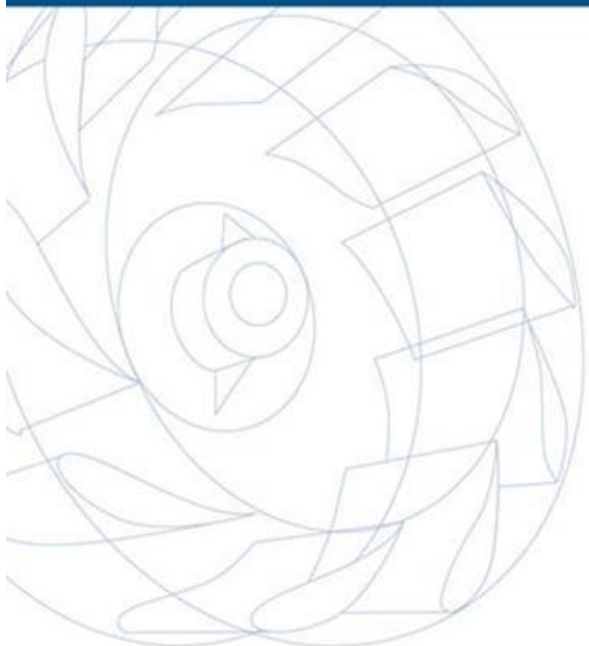


> Regional Initiative

# PATENTS FOR DEVELOPMENT

## Indicators of Technological Innovation in Latin American and Caribbean Countries

2015



Indicators of Technological Innovation in Latin American and Caribbean Countries.  
2015

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# PRESENTATION

CAF identified the need to promote the generation of patentable innovative technologies that could be exportable. Latin America and the Caribbean have the potential to generate advanced technologies that may contribute to the sustainable development of the region and other regions around the world. To release this potential, we have started the Technological Patents Regional Initiative.<sup>1</sup> CAF's initiative intends to establish a regional platform for the generation of patentable technological concepts through international patent applications from Latin America and the Caribbean to contribute to increase the exports of high technology from the region.

In the framework of this program, CAF is pleased to present the document *2015 Technological Innovation Indicators by Regions*. This document compiles the main data and indicators that will be used throughout the implementation of CAF's initiative. The methodology used for the indicators is accepted and used internationally, based on previous works by the OECD and the World Bank.

The text is divided into 3 parts. The first describes the methodology and indicators that will be presented, as well as the primary data sources. In the second section we find all the data in tables, organized by subject, and separated between those aimed at presenting an analysis and those that will be used as a baseline for the evaluation of the initiatives. The third section shows comparative graphs prepared from the data found in the second section, over which part of the analysis regarding technological innovation in the region will be constructed.

We expect this work to fulfill its fundamental objective of offering readers of different backgrounds the necessary data and figures for the evaluation of the status of technological innovation in CAF's member countries in Latin America and

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<sup>1</sup> [www.caf.com/patentes](http://www.caf.com/patentes)

the Caribbean, and increase interest regarding CAF's Patents for Development Regional Initiative.

# EXECUTIVE SUMMARY

The following study is one of the results of CAF's Technological Patents for Development Initiative carried out between 2013 and 2015. Among the main objectives of this Initiative is the development of a preliminary evaluation of the status of technological innovation in the Latin American and Caribbean region. The objectives are twofold: the first is to present to readers, independently of their background or profession, an easy to understand material that reflects the technological status in the region with empirical data, through indicators defined by CAF. The second objective is to prepare a baseline for the impact evaluation of the initiative, which will allow CAF and its partner institutions to evaluate its importance in the region. In the first phase, this evaluation will be developed through its outputs, that is, an improvement in the countries' performance both in the generation of invention patent applications, as well as the concessions of patents through these applications. In a second phase, in the medium and long term, the initiative's impact evaluation will be carried out through its outcomes, that is, the generation of resources originating in royalties, licensing, and sale of intellectual property in international markets in the short term, and an increase of high technology exports from the region to other regions in the world in the long term. This baseline will be adapted to include parameters that are more associated to industrial property during its following phases.

# ACRONYMS

**WB.** The World Bank Group

**CAF.** Development Bank of Latin America

**EPO.** European Patent Office

**IMF.** International Monetary Fund

**OECD.** Organization for Economic Cooperation and Development

**WIPO.** World Intellectual Property Organization

**PCT.** Patent Cooperation Treaty

**UN COMTRADE.** United Nations Commodity Trade Statistics Database

**UNSTATS.** United Nations Statistics Division

**USPTO.** United States Patent and Trademark Office

# GLOSSARY OF TERMS

**Intellectual Property:** The intellectual property rights refer to all those exclusivity rights over intellectual creations which are recognized by a legal system. Intellectual property rights guarantee the owner of an intangible asset the right to use it, distribute it, and sell it, as well as exclusive licensing. These rights are usually divided into two types: industrial property and copyright, with the first ones referring to creations that are related to a product or services process (such as patents), and the latter to artistic (musical, literary, etc.) or institutional works.

**Patent:** A patent is an exclusive right granted for an invention, that is, a product or procedure which in general contributes to a new way of doing something or a new technical solution for a problem. For it to be patentable, the invention must satisfy determined requirements: it must be legal, it must have an element of novelty (that there is no similar concept in prior art), to have a practical use (industrial application) and it must not be obvious considering prior art (that the logic of the invention cannot be directly deduced from prior art).

**GDP (Nominal Gross Domestic Product):** “At a current price, the GDP is the sum of the gross value added of all the products in an economy plus all the taxes on those products, minus any subsidy which is not included in the value of the products.” In the GDP graphs that have been prepared, it will be expressed in billions of USD (1,000,000,000 USD= 1 Billion USD)

**Patent Cooperation Treaty (PCT):** This is an international treaty managed by the World Intellectual Property Organization (WIPO) and subscribed by more than 148 countries in the Treaty of Paris. The PCT allows for the simultaneous application for the protection of an invention by means of a patent in a large number of countries by presenting a sole international application without the need to present several national or regional applications. The national or regional patent offices are

the competent organizations to handle the concessions of patents in what is called the “national phase”. WIPO Website.



# METHODOLOGY

When addressing the subject of technological innovation, CAF will use the terminology *inputs*, *outputs*, and *outcomes* to define the parameters used in the construction of indicators to measure these activities.<sup>2</sup> The inputs define the resources allocated to innovation activities which come from different sources (public or private), and have different classifications. The outputs are the specific result (material or immaterial) of the innovation process over which an evaluation process is generated to compare with the estimated results. At the same time, the outcomes describe the final effects targeted during the planning process, that is, the global result expected from the implementation of the Initiative. For the purpose of the Initiative we will only define the indicators of inputs and outcomes:

i) **Output Indicators:** The parameters used to establish a baseline to evaluate the starting phase of the initiative will be the following: patent applications via PCT, USPTO applications and concessions, and EPO patent applications and concessions. Over these parameters, comparisons will be established with the nominal GDP and by millions of inhabitants of the country of residence of the applicants for the construction of technological innovation performance indicators.

ii) **Outcome Indicators:** Different performance parameters will be used for these indicators which will help construct an image of the status of technological innovation in the region. Among the parameters used are *High technology exports* and *Royalties from the use of intellectual property*. As with the aforementioned, indicators will be constructed based on these parameters in order to facilitate the understanding of the subject.

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<sup>2</sup> This definition was partially taken from NYCEDC *Innovation Index*, New York City Economic Development Corporation 2011, and [http://www.huffingtonpost.com/steven-strauss/managing-innovation\\_b\\_3375149.html](http://www.huffingtonpost.com/steven-strauss/managing-innovation_b_3375149.html)

## OUTPUT INDICATORS

**Patent Applications via PCT:** The application process of a patent via PCT (Patent Cooperation Treaty) has two main phases: the international phase and the national phase. In this case the applications via PCT will be used as a reference in the international phase. These applications count only as a petition, and they do not guarantee the granting of the patent in the national phase. However, it has been proven that there is a relationship between the increases of patent applications via PCT as a reference of the performance of the technological innovation of a country. The indicators defined by CAF for this parameter are: *i)* Patent Applications via PCT/million inhabitants; and *ii)* patent applications via PCT/GDP. The first one establishes a relationship between technological innovation measured in numbers of patent applications via PCT and the population associated with innovation activities, while the second reveals the importance of the patent applications via PCT in comparison with the dynamics of the national economies. As CAF's Technological Patent Regional Initiative has among its main objective to generate patent applications via PCT, these will be one of their output indicators.

**USPTO Applications and Patent Concessions:** The United States Patent and Trademark Office (USPTO) is the federal entity in charge of granting invention patents in that country, in compliance with the four basic requirements: be legal, new, useful, and not obvious. The USPTO is one of the main intellectual property offices in absolute terms in the world, and the concession of invention patents by this office implies the protection of high technology products exported to one of the main commercial markets in the world. The indicators defined by CAF for this parameter are the following: *i)* concession of USPTO patents/million inhabitants; *ii)* concession of USPTO/GDP patents; and *iii)* patent applications via USPTO/concession of USPTO patents. The first one reveals the share of USPTO concessions based on the number of inhabitant, which shows us the capacity for technological innovation in the applicant country. The second indicator relates the level of economic activity of each country with the technological innovation

patented in the United States, and the third reveals the rate of mortality of the applications via USPTO.<sup>3</sup>

**EPO Applications and Patent Concessions:** European patents may be obtained for all the countries that signed the European Patent Convention by presenting a sole regional application before any European Patent Office (EPO) in any of the three official languages (English, French, or German). The EPO concessions are considered regional patents as they force any national office where a concession is presented, to grant a national patent. This process may only be conditioned to a translation to the official language of the country which is a member of the EPO. The indicators defined by CAF for this parameter are the following: i) EPO patent concessions/million inhabitants, and ii) Patent applications via EPO/EPO patent concessions. The first shows the relative importance of the technological innovation patented in Europe based on the total number of inhabitants, and the second shows the rate of mortality of the applications via EPO.<sup>4</sup>

## **OUTCOME INDICATORS**

**Exports of High Technology Products:** The data used for the calculation of high technology products was obtained from the statistics of the World Bank Group. They are based on a methodology developed by the OECD and Eurostat to define what high technology exports are. Using a “goods approach”, the importance of the expenditures in R&D on the total value of sales is measured, to establish a classification (high, medium, low technology). Examples of these sectors include the aeronautical industry, information technology, scientific instruments, and pharmaceutical industry, among others. The indicators defined by CAF for this parameter are the following: i) high technology exports/total value of exports; and

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<sup>3</sup> To determine the mortality rate of the USPTO and EPO applications, the total number of granted patents was divided by the total number of applications for patents three years before (estimated time for the granting of a patent in both offices).

<sup>4</sup> Ibid.

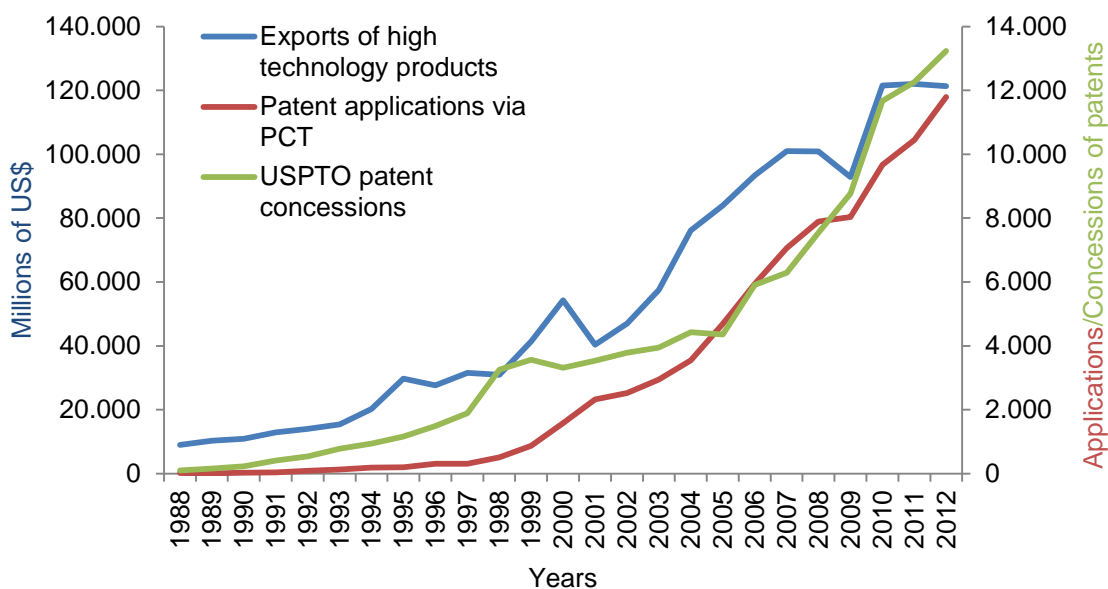
ii) high technology exports/inhabitants. The first indicators reveal the relationship between the high technology sector and the total export guideline, which has implications in the external insertion of the countries. The second indicator reveals the importance of the high technology sectors in terms of the total population of the countries.

**Royalties from the Use of Intellectual Property:** Royalties and licensing rates are payments and charges between residents and non-residents for the authorized use of intangible assets, non-financial, non-manufactured, and intellectual property rights (such as patents, copyrights, registered trademarks, industrial processes, and franchises). In the beginning, work will be carried out with the data collected by the World Bank Group, which includes all the incomes derived from any form of intellectual property, taken from data from the balance of payments of each country, in USD at current prices. In the future, this disaggregated data will be presented, discriminating between the receipts for the use of patents of other types of intellectual property. The indicators defined by CAF for this parameter is the royalties/million inhabitants. This indicator reveals the share of the royalties for intellectual property in relation to the total population.

# PATENTS AND TECHNOLOGICAL DEVELOPMENT

One of the most important hypotheses of CAF's Patents for Development Regional Initiative is that there is a close relationship between a technological innovation strategy based on international patents, and the increase of high technology exports in the long term. The model for the development of the technological base in South Korea (see Graph 1) is clear evidence of the relationship existing between technological innovation aimed at exports, the applications, and the patent concessions in the main world markets.

**Graph 1. Relationship between patentable technological innovation and high technology exports in South Korea**



Own preparation. Source: World Bank (March 2015) <http://datos.bancomundial.org/> USPTO Website (March 2015) [http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst\\_utlh.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst_utlh.htm) WIPO Website (March 2015) ([www.wipo.int](http://www.wipo.int))

For this second edition of Indicators of Technological Innovation in the countries of Latin America and the Caribbean developed by CAF, it has been decided to present a comparison of all the indicators used with South Korea. This

methodological selection has the purpose of providing a comparative approximation of the performance of technological innovation systems in countries which started with similar conditions, but that shows very different results in a period of 30 years.

For a technological innovation strategy to be successful in the long-term, it not only has to solve the technological needs of the region, but also must be aimed at increasing high technology exports and the incomes derived from the property of intangible assets.

CAF's Patents for Development Regional Initiative is aimed at technological innovation with an engineering emphasis to solve specific problems in the region whose solutions may be copied in other parts of the world, thus increasing the regions' high technology exports in the middle and long term.

# DATA TABLES

## OUTCOMES INDICATORS TABLES

**Table 1. Exports of high technology products (Millions of US\$). 2000-2012**

| Countries/Years     | 2000   | 2001   | 2002   | 2003   | 2004   | 2005   | 2006   | 2007    | 2008    | 2009   | 2010    | 2011    | 2012    |
|---------------------|--------|--------|--------|--------|--------|--------|--------|---------|---------|--------|---------|---------|---------|
| Argentina           | 797    | 800    | 600    | 710    | 761    | 840    | 1.044  | 1.140   | 1.949   | 1.547  | 1.648   | 1.978   | 1.946   |
| Bolivia             | 158    | 38     | 15     | 21     | 28     | 27     | 96     | 15      | 17      | 15     | 37      | 48      | 53      |
| Brazil              | 5.990  | 6.057  | 5.224  | 4.515  | 5.954  | 8.031  | 8.418  | 9.076   | 10.286  | 7.896  | 8.122   | 8.415   | 8.820   |
| Chile               | 99     | 106    | 111    | 169    | 266    | 415    | 483    | 572     | 599     | 394    | 486     | 507     | 503     |
| Colombia            | 331    | 349    | 322    | 297    | 353    | 367    | 354    | 342     | 441     | 462    | 425     | 401     | 517     |
| Costa Rica          | 1.859  | 1.071  | 1.146  | 1.701  | 1.309  | 1.777  | 2.091  | 2.530   | 2.426   | 1.791  | 2.193   | 2.512   | 2.719   |
| Ecuador             | 27     | 25     | 35     | 41     | 49     | 64     | 96     | 73      | 68      | 51     | 145     | 57      | 52      |
| Jamaica             | 1      | 0      | 1      | 0      | 1      | 1      | 1      | 2       | 6       | 3      | 3       | 4       | 5       |
| Mexico              | 31.174 | 29.735 | 28.938 | 28.726 | 31.956 | 32.400 | 35.899 | 33.482  | 33.387  | 31.184 | 37.657  | 40.795  | 44.013  |
| Panama              | 2      | 2      | 2      | 1      | 2      | 1      | 1      | 3       | 1       | 1      | 1       | 4.769   |         |
| Paraguay            | 5      | 7      | 5      | 9      | 13     | 16     | 24     | 24      | 27      | 37     | 32      | 43      | 44      |
| Peru                | 51     | 54     | 33     | 39     | 57     | 79     | 75     | 84      | 113     | 114    | 252     | 305     | 185     |
| Dominican Republic  |        | 4      | 174    | 169    | 195    | 416    | 289    | 562     | 171     | 79     | 76      | 91      | 121     |
| Trinidad and Tobago | 11     | 75     | 25     | 4      | 27     | 34     | 30     | 60      | 35      | 3      | 3       | 5       |         |
| Uruguay             | 21     | 19     | 21     | 20     | 27     | 29     | 42     | 48      | 78      | 79     | 114     | 134     | 193     |
| Venezuela           | 82     | 95     | 114    | 134    | 121    | 120    | 80     |         | 123     | 66     | 145     | 54      |         |
| South Korea         | 54.333 | 40.358 | 46.936 | 57.458 | 76.117 | 83.907 | 93.352 | 101.032 | 100.909 | 92.856 | 121.478 | 122.021 | 121.313 |

Own preparation. Source: World Bank (March 2015)

**Table 2. Total Exports (Millions of US\$). 2000-2013**

| Countries/Years     | 2000    | 2001    | 2002    | 2003    | 2004    | 2005    | 2006    | 2007    | 2008    | 2009    | 2010    | 2011    | 2012    | 2013    |
|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Argentina           | 26.341  | 26.610  | 25.709  | 29.939  | 34.576  | 40.106  | 46.546  | 55.780  | 70.019  | 55.672  | 68.187  | 84.051  | 80.927  | 76.634  |
| Bolivia             | 1.457   | 1.353   | 1.372   | 1.651   | 2.254   | 2.797   | 4.223   | 4.813   | 6.899   | 5.297   | 6.965   | 9.144   | 11.814  | 12.207  |
| Brazil              | 55.119  | 58.287  | 60.439  | 73.203  | 96.677  | 118.529 | 137.806 | 160.649 | 197.942 | 152.995 | 197.356 | 256.039 | 242.580 | 242.178 |
| Chile               | 18.215  | 18.745  | 17.423  | 21.651  | 33.025  | 41.973  | 59.379  | 68.560  | 64.508  | 55.459  | 71.106  | 81.455  | 77.965  | 77.367  |
| Colombia            | 13.158  | 12.301  | 11.897  | 13.092  | 16.730  | 21.190  | 24.391  | 29.991  | 37.626  | 32.853  | 39.820  | 56.954  | 60.274  | 58.822  |
| Costa Rica          | 5.487   | 4.716   | 4.950   | 5.800   | 5.953   | 7.151   | 7.255   | 8.928   | 9.745   | 8.836   | 9.045   | 10.222  | 11.251  | 11.472  |
| Ecuador             | 4.822   | 4.647   | 5.041   | 6.038   | 7.606   | 9.869   | 12.728  | 13.800  | 18.818  | 13.863  | 17.490  | 22.343  | 23.852  | 24.958  |
| Jamaica             | 1.308   | 1.223   | 1.104   | 1.194   | 1.405   | 1.514   | 1.989   | 2.224   | 2.439   | 1.316   | 1.328   | 1.623   | 1.712   | 1.569   |
| Mexico              | 166.294 | 158.386 | 160.751 | 164.907 | 187.980 | 214.207 | 249.961 | 271.821 | 291.265 | 229.712 | 298.305 | 349.569 | 370.643 | 380.123 |
| Panama              | 779     | 809     | 760     | 805     | 891     | 963     | 1.022   | 1.127   | 1.144   | 822     | 725     | 785     | 822     | 844     |
| Paraguay            | 869     | 990     | 951     | 1.306   | 1.554   | 1.655   | 1.843   | 2.817   | 4.463   | 3.167   | 6.505   | 7.764   | 7.271   | 9.432   |
| Peru                | 6.866   | 6.826   | 7.665   | 9.027   | 12.726  | 17.114  | 23.765  | 28.085  | 31.288  | 26.738  | 35.205  | 45.636  | 45.946  | 41.872  |
| Dominican Republic  | -       | 814     | 5.229   | 5.496   | 5.938   | 6.183   | 6.080   | 6.794   | 6.422   | 4.374   | 4.767   | 6.113   | 6.902   | -       |
| Trinidad and Tobago | 4.273   | 5.113   | 3.853   | 5.241   | 6.517   | 9.611   | 14.019  | 13.396  | 18.650  | 9.126   | 10.982  | 18.834  | 17.771  | -       |
| Uruguay             | 2.295   | 2.058   | 1.861   | 2.208   | 2.937   | 3.405   | 3.952   | 4.518   | 5.942   | 5.386   | 6.724   | 7.912   | 8.709   | 9.066   |
| Venezuela           | 30.948  | 25.304  | 23.987  | 24.974  | 39.887  | 55.413  | 61.385  | 62.838  | 83.478  | 56.583  | 66.963  | 91.094  | 95.035  | 87.961  |
| South Korea         | 172.267 | 150.431 | 162.466 | 193.817 | 253.845 | 284.418 | 325.457 | 371.477 | 422.003 | 363.531 | 466.381 | 555.209 | 547.854 | 559.619 |

Own preparation. Source: *United Nations Statistics Division* (March 2015), for Panama Data were obtained from the website of the Instituto Nacional de Estadística y Censo (INEC) (March 2015)



**Table 3. Royalties for the use of intellectual property (Millions of US\$). 2005-2013**

| Countries/Years     | 2005  | 2006  | 2007  | 2008  | 2009  | 2010  | 2011  | 2012  | 2013  |
|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Argentina           | 51    | 71    | 106   | 105   | 102   | 145   | 176   | 183   | 163   |
| Bolivia             | 2     | 2     | 2     | 2     | 3     | 3     | 7     | 15    | 22    |
| Brazil              | 102   | 150   | 319   | 465   | 434   | 397   | 591   | 511   | 597   |
| Chile               | 54    | 55    | 61    | 64    | 59    | 64    | 75    | 75    | 77    |
| Colombia            | 10    | 11    | 17    | 30    | 39    | 56    | 59    | 90    | 66    |
| Costa Rica          | 0,1   | -     | -     | 0,6   | 0,6   | 7,5   | 4,1   | 4,4   | 4,0   |
| Ecuador             | -     | -     | -     | -     | -     | -     | -     | -     | -     |
| Jamaica             | 13    | 12    | 15    | 17    | 9     | 5     | 4     | 5     | 5     |
| Mexico              | 70    | 81    | 95    | 97    | 94    | 88    | 97    | 96    | 96    |
| Panama              | -     | -     | -     | -     | -     | 8     | 8     | 12    | 13    |
| Paraguay            | 219   | 255   | 287   | 282   | 264   | 254   | 297   | -     | -     |
| Peru                | 2     | 3     | 1     | 2     | 2     | 3     | 5     | 12    | 8     |
| Dominican Republic  | -     | -     | -     | -     | -     | -     | -     | -     | -     |
| Trinidad and Tobago | -     | -     | -     | -     | -     | -     | -     | -     | -     |
| Uruguay             | 0,1   | -     | 0,03  | 0,1   | 0,1   | 0,2   | 0,4   | 0,4   | 0,4   |
| Venezuela           | -     | -     | -     | -     | -     | -     | -     | -     | -     |
| South Korea         | 1.908 | 2.046 | 1.735 | 2.382 | 3.199 | 3.145 | 4.336 | 3.436 | 4.232 |

Own preparation. Source: World Bank (March 2015)

## OUTPUTS INDICATORS TABLES

Table 4. Patent applications via PCT. 1994-2014

| Countries/<br>Years    | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002  | 2003  | 2004  | 2005  | 2006  | 2007  | 2008  | 2009  | 2010  | 2011  | 2012  | 2013   | 2014   |
|------------------------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| Argentina              | 2    | 4    | 3    | 5    | 4    | 7    | 9    | 9    | 8     | 14    | 11    | 20    | 20    | 32    | 24    | 9     | 16    | 24    | 25    | 26     | 33     |
| Bolivia                | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0     | 0     | 2     | 0     | 0     | 1     | 0     | 0     | 0     | 0      | 0      |
| Brazil                 | 20   | 46   | 47   | 67   | 72   | 95   | 113  | 115  | 178   | 173   | 201   | 219   | 276   | 270   | 333   | 398   | 472   | 492   | 487   | 562    | 588    |
| Chile                  | 0    | 0    | 0    | 0    | 3    | 1    | 2    | 0    | 1     | 3     | 6     | 9     | 6     | 9     | 12    | 17    | 27    | 53    | 89    | 115    | 120    |
| Colombia               | 0    | 1    | 1    | 2    | 2    | 5    | 1    | 1    | 2     | 17    | 36    | 24    | 22    | 23    | 27    | 44    | 37    | 63    | 47    | 55     | 71     |
| Costa Rica             | 0    | 0    | 1    | 0    | 0    | 0    | 0    | 2    | 7     | 7     | 4     | 6     | 6     | 4     | 6     | 3     | 8     | 4     | 3     | 3      | 5      |
| Ecuador                | 0    | 0    | 0    | 0    | 0    | 1    | 0    | 2    | 0     | 0     | 2     | 5     | 9     | 1     | 7     | 2     | 4     | 3     | 31    | 29     | 41     |
| Jamaica                | 0    | 0    | 1    | 0    | 0    | 0    | 1    | 0    | 0     | 0     | 0     | 3     | 0     | 0     | 1     | 1     | 0     | 2     | 0     | 3      | 1      |
| Mexico                 | 1    | 0    | 3    | 11   | 31   | 46   | 66   | 55   | 73    | 104   | 132   | 131   | 118   | 142   | 169   | 186   | 203   | 194   | 191   | 226    | 188    |
| Panama                 | 0    | 5    | 4    | 2    | 2    | 4    | 6    | 5    | 6     | 10    | 7     | 16    | 15    | 17    | 16    | 14    | 9     | 10    | 5     | 13     | 13     |
| Paraguay               | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0     | 0     | 1     | 0     | 0     | 0     | 0     | 0     | 0     | 1      | 0      |
| Peru                   | 0    | 1    | 0    | 0    | 2    | 0    | 0    | 1    | 2     | 0     | 1     | 2     | 0     | 0     | 1     | 1     | 2     | 10    | 7     | 6      | 11     |
| Dominican<br>Republic  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 1    | 1     | 0     | 0     | 0     | 0     | 0     | 0     | 2     | 5     | 1     | 3     | 7      | 4      |
| Trinidad and<br>Tobago | 0    | 0    | 1    | 0    | 0    | 0    | 3    | 0    | 0     | 1     | 1     | 2     | 1     | 1     | 3     | 3     | 0     | 2     | 1     | 0      | 1      |
| Uruguay                | 0    | 0    | 1    | 0    | 0    | 1    | 2    | 0    | 4     | 4     | 9     | 11    | 6     | 5     | 5     | 4     | 8     | 10    | 5     | 5      | 5      |
| Venezuela              | 1    | 0    | 0    | 0    | 1    | 1    | 1    | 2    | 2     | 1     | 1     | 1     | 0     | 2     | 2     | 5     | 3     | 1     | 1     | 2      | 8      |
| South Korea            | 84   | 128  | 192  | 196  | 306  | 305  | 510  | 870  | 1.578 | 2.319 | 2.519 | 2.941 | 3.549 | 4.686 | 5.945 | 7.064 | 7.899 | 8.035 | 9.669 | 10.447 | 11.846 |

Own preparation. Source: WIPO Website (March 2015)

Table 5. Patent applications USPTO. 1995-2013

| Countries/<br>Years | 1995  | 1996  | 1997  | 1998  | 1999  | 2000  | 2001  | 2002  | 2003   | 2004   | 2005   | 2006   | 2007   | 2008   | 2009   | 2010   | 2011   | 2012   | 2013   |
|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Argentina           | 65    | 78    | 77    | 119   | 96    | 137   | 137   | 95    | 125    | 103    | 94     | 117    | 150    | 138    | 146    | 134    | 156    | 141    | 160    |
| Bolivia             | 2     | 1     | 1     | 2     | 2     |       |       | 1     | 1      | 1      | 3      | 2      | 1      | 5      | 2      | 2      | 1      | 3      | 3      |
| Brazil              | 115   | 145   | 134   | 165   | 186   | 220   | 219   | 243   | 259    | 287    | 295    | 341    | 375    | 442    | 464    | 568    | 586    | 679    | 769    |
| Chile               | 10    | 23    | 17    | 17    | 16    | 24    | 23    | 38    | 33     | 51     | 55     | 76     | 68     | 75     | 66     | 85     | 111    | 109    | 133    |
| Colombia            | 19    | 10    | 6     | 12    | 20    | 21    | 29    | 16    | 20     | 20     | 11     | 21     | 23     | 34     | 24     | 45     | 54     | 45     | 69     |
| Costa Rica          | 7     | 4     | 6     | 13    | 8     | 16    | 3     | 8     | 11     | 9      | 32     | 17     | 20     | 13     | 25     | 24     | 17     | 19     | 27     |
| Ecuador             | 2     | 3     | 5     | 4     | 4     | 6     | 5     | 8     | 11     | 5      | 6      | 10     | 6      | 4      | 5      | 6      | 8      | 10     | 7      |
| Jamaica             | 3     | 3     |       | 4     | 4     | 2     | 1     | 2     | 4      | 4      | 4      | 3      | 5      | 12     | 10     | 5      | 5      | 14     | 9      |
| Mexico              | 99    | 97    | 110   | 141   | 147   | 190   | 196   | 157   | 185    | 179    | 180    | 213    | 212    | 248    | 220    | 295    | 306    | 355    | 357    |
| Panama              | 8     | 4     | 2     | 7     | 5     | 6     | 6     | 2     | 14     | 1      | 6      | 5      | 9      | 6      | 8      | 1      | 6      | 6      | 6      |
| Paraguay            |       | 1     | 2     | 1     | 1     | 1     |       |       |        | 1      |        | 1      |        |        |        | 0      | 0      | 1      | 3      |
| Peru                | 5     | 4     | 3     | 6     | 5     | 5     | 8     | 8     | 8      | 5      | 2      | 2      | 3      | 6      | 7      | 9      | 10     | 7      | 8      |
| Dominican Republic  | 3     | 1     | 3     | 4     |       | 3     | 1     | 4     | 5      | 5      | 5      | 6      | 9      | 2      | 7      | 5      | 6      | 5      | 9      |
| Trinidad and Tobago | 1     |       | 1     |       | 2     | 5     | 2     | 1     | 3      | 2      | 4      | 2      | 10     | 7      | 7      | 10     | 11     | 7      | 12     |
| Uruguay             | 6     | 1     | 4     | 1     | 3     | 4     | 7     | 8     | 11     | 9      | 16     | 11     | 9      | 23     | 21     | 19     | 16     | 22     | 24     |
| Venezuela           | 32    | 38    | 40    | 35    | 42    | 45    | 53    | 36    | 29     | 18     | 34     | 22     | 32     | 22     | 31     | 38     | 26     | 45     | 28     |
| South Korea         | 2.820 | 4.248 | 4.920 | 5.452 | 5.033 | 5.705 | 6.719 | 7.937 | 10.411 | 13.646 | 17.217 | 21.685 | 22.976 | 23.584 | 23.950 | 26.040 | 27.289 | 29.481 | 33.499 |

Own preparation. Source: Portal de la USPTO (March 2015)

Table 6. USPTO patent concessions. 1995-2014

| Countries/<br>Years | 1995  | 1996  | 1997  | 1998  | 1999  | 2000  | 2001  | 2002  | 2003  | 2004  | 2005  | 2006  | 2007  | 2008  | 2009  | 2010   | 2011   | 2012   | 2013   | 2014   |
|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| Argentina           | 31    | 30    | 35    | 43    | 44    | 54    | 51    | 54    | 63    | 46    | 24    | 38    | 37    | 32    | 45    | 45     | 49     | 63     | 75     | 71     |
| Bolivia             | 0     | 1     | 0     | 1     | 1     | 2     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 1     | 1     | 0      | 1      | 0      | 2      | 1      |
| Brazil              | 63    | 63    | 62    | 74    | 91    | 98    | 110   | 96    | 130   | 106   | 77    | 121   | 90    | 101   | 103   | 175    | 215    | 196    | 254    | 334    |
| Chile               | 7     | 4     | 5     | 16    | 12    | 15    | 13    | 11    | 11    | 15    | 9     | 14    | 25    | 13    | 21    | 22     | 35     | 37     | 54     | 63     |
| Colombia            | 3     | 6     | 10    | 4     | 6     | 8     | 12    | 6     | 10    | 10    | 7     | 5     | 3     | 12    | 7     | 6      | 6      | 12     | 16     | 21     |
| Costa Rica          | 3     | 1     | 7     | 1     | 8     | 7     | 3     | 3     | 6     | 0     | 3     | 5     | 3     | 4     | 12    | 8      | 14     | 9      | 9      | 12     |
| Ecuador             | 0     | 0     | 0     | 3     | 4     | 0     | 4     | 0     | 3     | 3     | 2     | 3     | 5     | 2     | 3     | 0      | 2      | 2      | 2      | 3      |
| Jamaica             | 2     | 1     | 0     | 1     | 1     | 2     | 1     | 2     | 1     | 1     | 1     | 0     | 1     | 4     | 3     | 4      | 1      | 2      | 3      | 6      |
| Mexico              | 40    | 39    | 45    | 57    | 76    | 76    | 81    | 94    | 85    | 86    | 80    | 66    | 56    | 54    | 60    | 101    | 90     | 122    | 155    | 172    |
| Panama              | 1     | 1     | 0     | 0     | 1     | 2     | 1     | 1     | 2     | 2     | 0     | 0     | 0     | 3     | 2     | 3      | 1      | 5      | 2      | 2      |
| Paraguay            | 0     | 0     | 0     | 0     | 1     | 0     | 0     | 0     | 0     | 0     | 0     | 1     | 0     | 0     | 0     | 1      | 0      | 1      | 0      | 0      |
| Peru                | 3     | 3     | 1     | 5     | 3     | 2     | 4     | 1     | 4     | 6     | 3     | 3     | 2     | 0     | 1     | 1      | 5      | 3      | 3      | 5      |
| Dominican Republic  | 1     | 0     | 0     | 0     | 2     | 3     | 0     | 1     | 0     | 0     | 2     | 1     | 1     | 2     | 3     | 1      | 2      | 0      | 7      | 2      |
| Trinidad and Tobago | 0     | 0     | 1     | 1     | 1     | 0     | 4     | 0     | 2     | 0     | 0     | 3     | 1     | 1     | 2     | 4      | 2      | 3      | 6      | 6      |
| Uruguay             | 2     | 2     | 4     | 3     | 2     | 1     | 0     | 3     | 2     | 0     | 2     | 2     | 3     | 2     | 5     | 6      | 2      | 9      | 10     | 9      |
| Venezuela           | 29    | 25    | 25    | 27    | 39    | 27    | 26    | 30    | 19    | 18    | 8     | 13    | 11    | 14    | 8     | 13     | 18     | 25     | 14     | 12     |
| South Korea         | 1.161 | 1.493 | 1.891 | 3.259 | 3.562 | 3.314 | 3.538 | 3.786 | 3.944 | 4.428 | 4.352 | 5.908 | 6.295 | 7.548 | 8.762 | 11.671 | 12.262 | 13.233 | 14.548 | 16.469 |

Own preparation. Source: Portal de la USPTO (March 2015)

**Table 7. Patent applications EPO. 2004-2014**

| Countries/Years     | 2004  | 2005  | 2006  | 2007   | 2008   | 2009   | 2010   | 2011   | 2012   | 2013   | 2014   |
|---------------------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| Argentina           | 30    | 38    | 43    | 52     | 35     | 26     | 30     | 31     | 36     | 30     | 31     |
| Bolivia             | 2     | 0     | 0     | 1      | 0      | 0      | 0      | 0      | 0      | 1      | 0      |
| Brazil              | 294   | 309   | 370   | 441    | 530    | 538    | 522    | 595    | 650    | 699    | 680    |
| Chile               | 12    | 16    | 20    | 23     | 33     | 59     | 95     | 117    | 123    | 144    | 130    |
| Colombia            | 22    | 24    | 28    | 44     | 37     | 64     | 47     | 58     | 73     | 84     | 99     |
| Costa Rica          | 7     | 4     | 6     | 4      | 8      | 4      | 3      | 3      | 8      | 11     | 16     |
| Ecuador             | 10    | 1     | 7     | 2      | 4      | 4      | 33     | 30     | 41     | 17     | 12     |
| Jamaica             | 0     | 0     | 2     | 1      | 0      | 3      | 0      | 3      | 1      | 0      | 2      |
| Mexico              | 126   | 146   | 173   | 189    | 212    | 197    | 207    | 234    | 201    | 240    | 314    |
| Panama              | 17    | 19    | 16    | 15     | 9      | 10     | 6      | 14     | 13     | 14     | 15     |
| Paraguay            | 1     | 0     | 0     | 0      | 1      | 0      | 0      | 1      | 0      | 0      | 0      |
| Peru                | 1     | 0     | 2     | 1      | 2      | 10     | 7      | 6      | 11     | 14     | 13     |
| Dominican Republic  | 0     | 0     | 1     | 2      | 5      | 1      | 3      | 7      | 4      | 7      | 5      |
| Trinidad and Tobago | 1     | 1     | 3     | 3      | 2      | 2      | 1      | 0      | 1      | 0      | 1      |
| Uruguay             | 10    | 8     | 5     | 5      | 11     | 9      | 7      | 6      | 7      | 11     | 11     |
| Venezuela           | 3     | 5     | 4     | 6      | 5      | 2      | 7      | 3      | 9      | 3      | 1      |
| South Korea         | 5.721 | 7.674 | 9.319 | 10.329 | 10.253 | 10.221 | 12.353 | 13.164 | 14.731 | 15.993 | 16.358 |

Own preparation. Source: EPO Website (March 2015)

**Table 8. EPO patent concessions. 2004-2014**

| Countries/Years     | 2004 | 2005 | 2006 | 2007 | 2008  | 2009  | 2010  | 2011  | 2012  | 2013  | 2014  |
|---------------------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|
| Argentina           | 18   | 11   | 5    | 11   | 7     | 8     | 5     | 5     | 8     | 15    | 7     |
| Bolivia             | 0    | 0    | 0    | 0    | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Brazil              | 33   | 50   | 61   | 43   | 57    | 43    | 47    | 52    | 61    | 80    | 75    |
| Chile               | 2    | 4    | 4    | 3    | 4     | 5     | 6     | 3     | 4     | 13    | 9     |
| Colombia            | 0    | 1    | 0    | 2    | 2     | 3     | 1     | 2     | 2     | 4     | 2     |
| Costa Rica          | 0    | 2    | 1    | 1    | 1     | 0     | 0     | 0     | 0     | 0     | 0     |
| Ecuador             | 0    | 0    | 1    | 0    | 2     | 1     | 0     | 0     | 0     | 1     | 1     |
| Jamaica             | 0    | 0    | 0    | 0    | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Mexico              | 6    | 8    | 12   | 9    | 7     | 13    | 7     | 24    | 21    | 34    | 36    |
| Panama              | 5    | 9    | 4    | 10   | 4     | 5     | 5     | 7     | 4     | 5     | 5     |
| Paraguay            | 0    | 0    | 0    | 0    | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Peru                | 0    | 0    | 0    | 1    | 1     | 0     | 0     | 1     | 0     | 0     | 1     |
| Dominican Republic  | 0    | 0    | 0    | 0    | 0     | 0     | 0     | 1     | 0     | 0     | 0     |
| Trinidad and Tobago | 0    | 0    | 0    | 0    | 0     | 0     | 0     | 1     | 0     | 1     | 0     |
| Uruguay             | 2    | 2    | 0    | 2    | 1     | 1     | 1     | 0     | 1     | 1     | 0     |
| Venezuela           | 10   | 5    | 6    | 2    | 1     | 1     | 1     | 1     | 0     | 3     | 1     |
| South Korea         | 460  | 486  | 787  | 858  | 1.201 | 1.095 | 1.390 | 1.424 | 1.785 | 1.989 | 1.891 |

Own preparation. Source: EPO Website (March 2015)

**Table 9. GDP (Billions of USD). 1994-2013**

| Countries/Years     | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006  | 2007  | 2008  | 2009  | 2010  | 2011  | 2012  | 2013  |
|---------------------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| Argentina           | 308  | 309  | 326  | 351  | 358  | 340  | 340  | 322  | 122  | 155  | 183  | 223  | 265   | 332   | 408   | 380   | 465   | 560   | 605   | 612   |
| Bolivia             | 6    | 7    | 7    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 9    | 10   | 11    | 13    | 17    | 17    | 20    | 24    | 27    | 31    |
| Brazil              | 574  | 769  | 840  | 871  | 844  | 587  | 645  | 554  | 506  | 552  | 664  | 882  | 1.089 | 1.367 | 1.654 | 1.620 | 2.143 | 2.477 | 2.249 | 2.244 |
| Chile               | 58   | 74   | 78   | 85   | 82   | 75   | 77   | 71   | 69   | 76   | 99   | 123  | 155   | 173   | 180   | 172   | 218   | 251   | 266   | 277   |
| Colombia            | 95   | 110  | 116  | 127  | 117  | 103  | 100  | 98   | 98   | 95   | 117  | 147  | 163   | 207   | 244   | 234   | 287   | 335   | 370   | 378   |
| Costa Rica          | 11   | 12   | 12   | 13   | 14   | 16   | 16   | 16   | 17   | 18   | 19   | 20   | 23    | 26    | 30    | 29    | 36    | 41    | 45    | 50    |
| Ecuador             | 21   | 23   | 24   | 27   | 26   | 19   | 18   | 24   | 29   | 32   | 37   | 42   | 47    | 51    | 62    | 63    | 70    | 79    | 88    | 94    |
| Jamaica             | 5    | 7    | 7    | 8    | 9    | 9    | 9    | 9    | 10   | 9    | 10   | 11   | 12    | 13    | 14    | 12    | 13    | 14    | 15    | 14    |
| Mexico              | 470  | 320  | 371  | 448  | 470  | 537  | 649  | 694  | 724  | 713  | 770  | 865  | 965   | 1.043 | 1.101 | 893   | 1.050 | 1.169 | 1.185 | 1.259 |
| Panama              | 9    | 9    | 9    | 10   | 11   | 11   | 12   | 12   | 12   | 13   | 14   | 15   | 17    | 20    | 23    | 24    | 27    | 31    | 36    | 40    |
| Paraguay            | 7    | 8    | 9    | 9    | 8    | 7    | 7    | 6    | 6    | 7    | 8    | 9    | 11    | 14    | 19    | 16    | 20    | 25    | 25    | 29    |
| Peru                | 43   | 52   | 54   | 57   | 55   | 50   | 51   | 52   | 55   | 59   | 67   | 76   | 89    | 102   | 121   | 120   | 147   | 171   | 193   | 200   |
| Dominican Republic  | 14   | 16   | 17   | 19   | 20   | 21   | 24   | 25   | 25   | 20   | 22   | 33   | 36    | 41    | 45    | 46    | 51    | 55    | 59    | 61    |
| Trinidad and Tobago | 5    | 5    | 6    | 6    | 6    | 7    | 8    | 9    | 9    | 11   | 13   | 16   | 18    | 21    | 26    | 21    | 21    | 24    | 23    | 24    |
| Uruguay             | 19   | 21   | 23   | 24   | 25   | 24   | 23   | 21   | 14   | 12   | 14   | 17   | 20    | 23    | 30    | 30    | 39    | 47    | 50    | 56    |
| Venezuela           | 57   | 75   | 68   | 86   | 91   | 98   | 117  | 123  | 93   | 84   | 112  | 146  | 183   | 230   | 316   | 329   | 394   | 316   | 381   | 371   |
| South Korea         | 459  | 559  | 603  | 560  | 376  | 486  | 562  | 533  | 609  | 681  | 765  | 898  | 1.012 | 1.123 | 1.002 | 902   | 1.094 | 1.202 | 1.223 | 1.305 |

Own preparation. Source: *United Nations Statistics Division* (March 2015)

**Table 10. Population (Millions of people). 1996-2014**

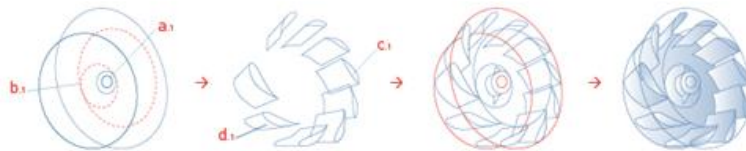
| Countries/<br>Years | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 |
|---------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Argentina           | 35   | 36   | 36   | 37   | 37   | 37   | 38   | 38   | 38   | 39   | 39   | 39   | 40   | 40   | 40   | 41   | 41   | 41   | 42   |
| Bolivia             | 8    | 8    | 8    | 8    | 8    | 9    | 9    | 9    | 9    | 9    | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 11   | 11   |
| Brazil              | 164  | 167  | 169  | 172  | 175  | 177  | 179  | 182  | 184  | 186  | 188  | 190  | 192  | 193  | 195  | 197  | 199  | 200  | 202  |
| Chile               | 15   | 15   | 15   | 15   | 15   | 16   | 16   | 16   | 16   | 16   | 17   | 17   | 17   | 17   | 17   | 17   | 17   | 18   | 18   |
| Colombia            | 37   | 38   | 39   | 39   | 40   | 41   | 41   | 42   | 43   | 43   | 44   | 44   | 45   | 46   | 46   | 47   | 48   | 48   | 49   |
| Costa Rica          | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 5    | 5    | 5    | 5    | 5    | 5    | 5    |
| Ecuador             | 12   | 12   | 12   | 12   | 13   | 13   | 13   | 13   | 14   | 14   | 14   | 14   | 15   | 15   | 15   | 15   | 15   | 16   | 16   |
| Jamaica             | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    |
| Mexico              | 97   | 99   | 101  | 102  | 104  | 105  | 107  | 108  | 109  | 111  | 112  | 114  | 115  | 116  | 118  | 119  | 121  | 122  | 124  |
| Panama              | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 4    | 4    | 4    | 4    | 4    | 4    | 4    |
| Paraguay            | 5    | 5    | 5    | 5    | 5    | 5    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 7    | 7    | 7    | 7    |
| Peru                | 24   | 25   | 25   | 26   | 26   | 26   | 27   | 27   | 27   | 28   | 28   | 28   | 29   | 29   | 29   | 30   | 30   | 30   | 31   |
| Dominican Republic  | 8    | 8    | 8    | 9    | 9    | 9    | 9    | 9    | 9    | 9    | 9    | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 11   |
| Trinidad and Tobago | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| Uruguay             | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    |
| Venezuela           | 23   | 23   | 23   | 24   | 24   | 25   | 25   | 26   | 26   | 27   | 27   | 28   | 28   | 29   | 29   | 30   | 30   | 30   | 31   |
| South Korea         | 46   | 46   | 46   | 47   | 47   | 47   | 48   | 48   | 48   | 48   | 48   | 49   | 49   | 49   | 49   | 50   | 50   | 50   | 50   |

Own preparation. Source: World Bank (March 2015)

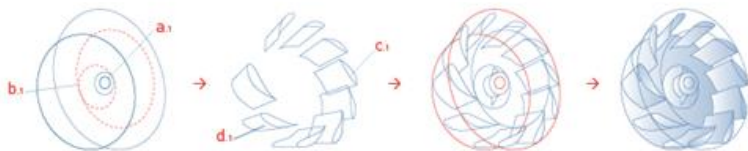


# STATUS OF THE TECHNOLOGICAL INNOVATION IN LATIN AMERICA

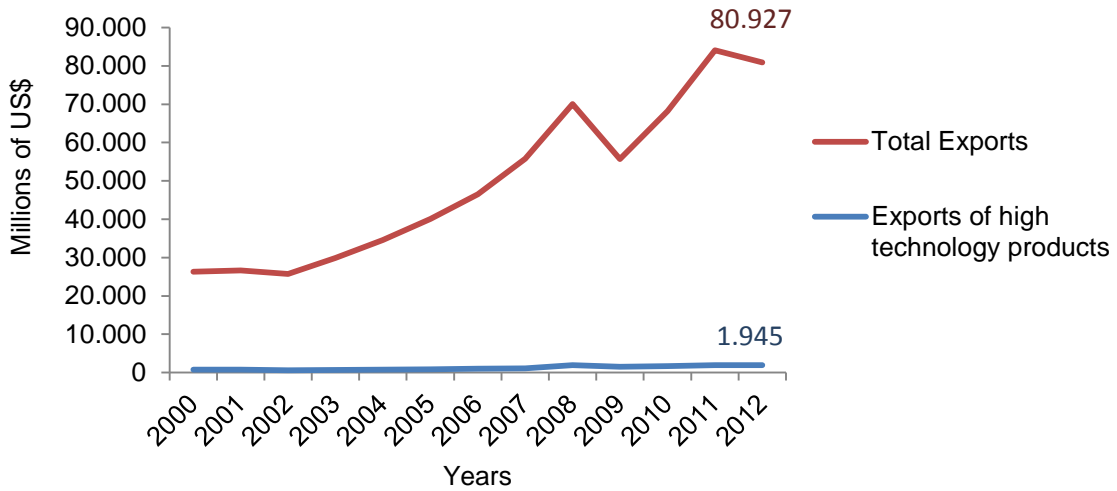
## GRAPHS PER COUNTRY



# ARGENTINA

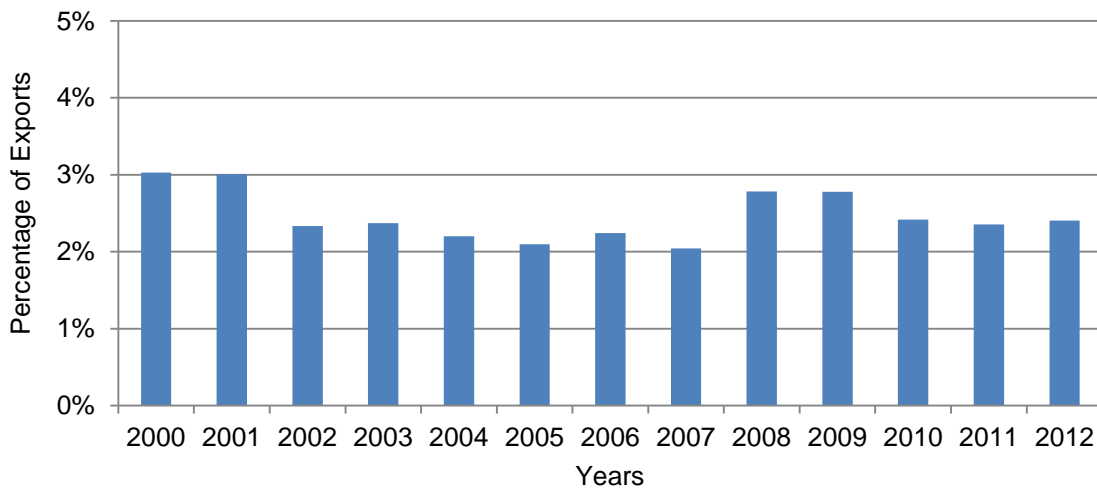


**Graph 2. Total Exports vs. Exports of high technology products- Argentina**



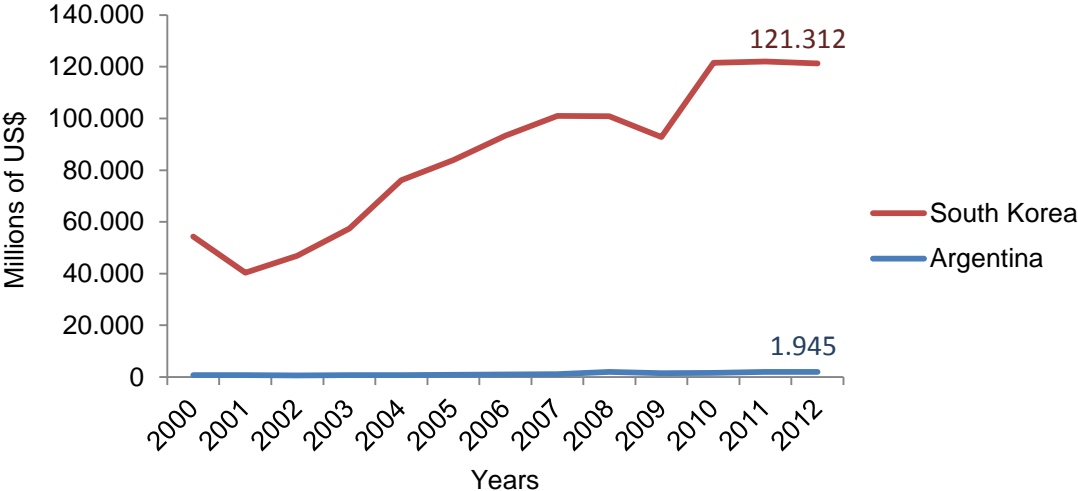
Own preparation .Source: United Nations Statistics Division (March 2015) <http://unstats.un.org/unsd/default.htm> and World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 3. Percentage of Exports of high technology products on total exports - Argentina**



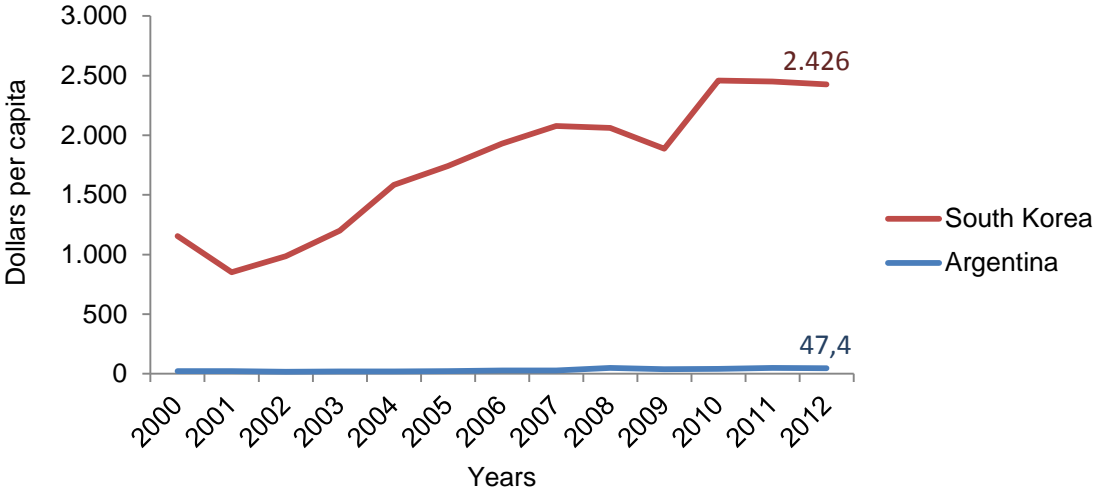
Own preparation .Source: United Nations Statistics Division (March 2015) <http://unstats.un.org/unsd/default.htm> and World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 4. Exports of high technology products- Argentina - South Korea**



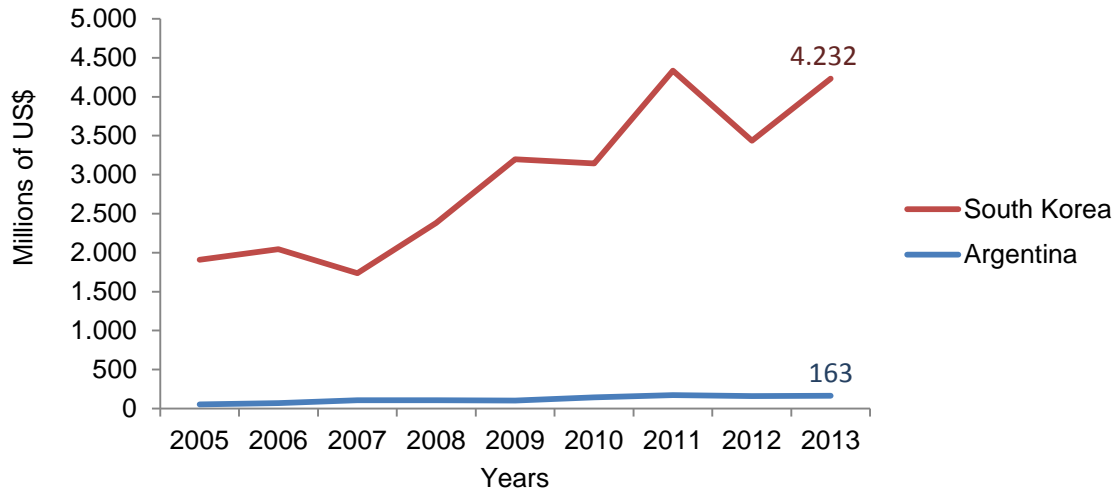
Own preparation. Source: World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 5. Exports of high technology products per capita – Argentina – South Korea**



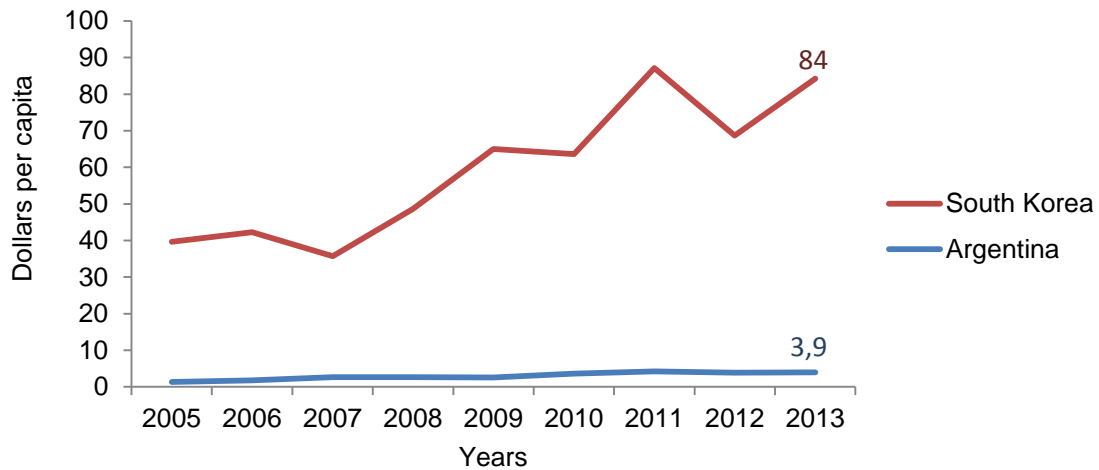
Own preparation. Source: World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 6. Royalties for the use of intellectual property – Argentina - South Korea**



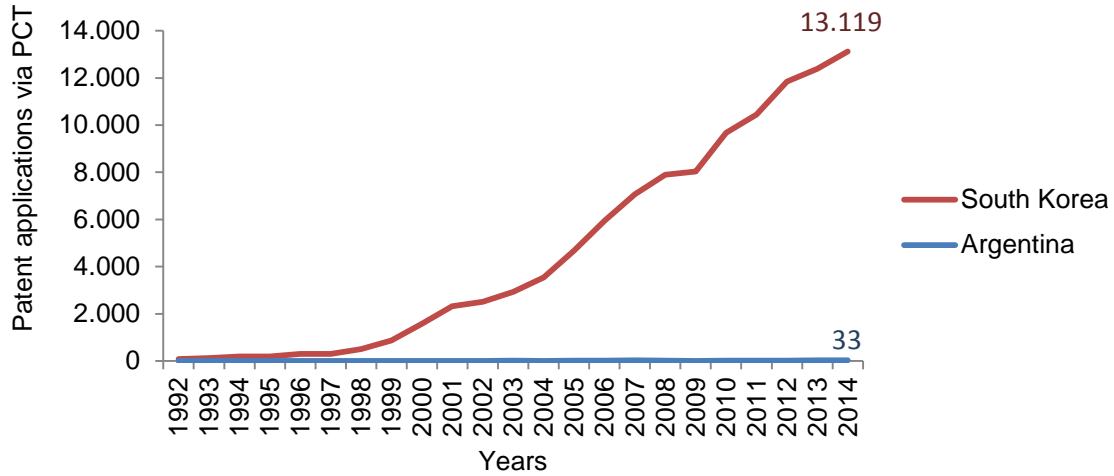
Own preparation. Source: World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 7. Royalties for the use of intellectual property per capita – Argentina - South Korea**



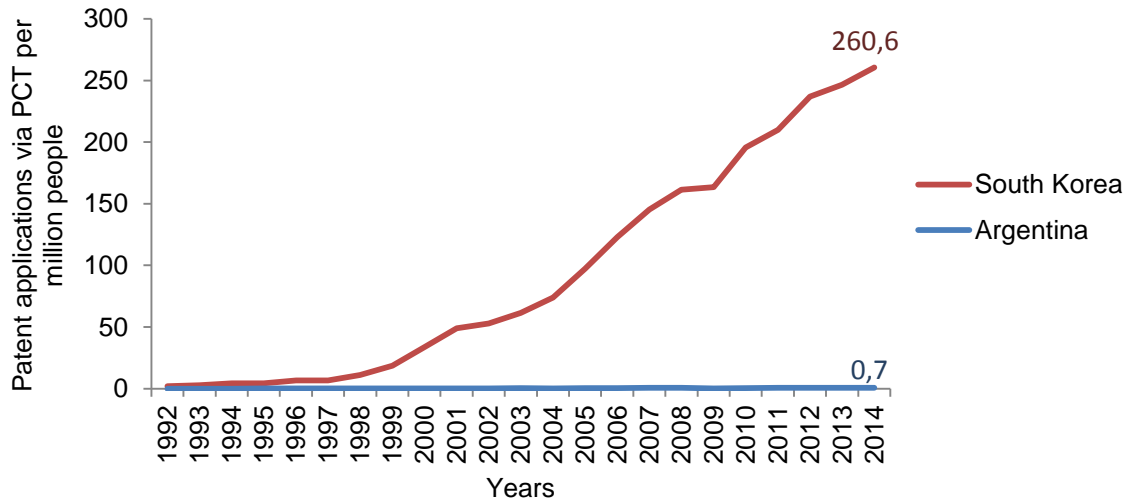
Own preparation. Source: World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 8. Patent applications via PCT- Argentina - South Korea**



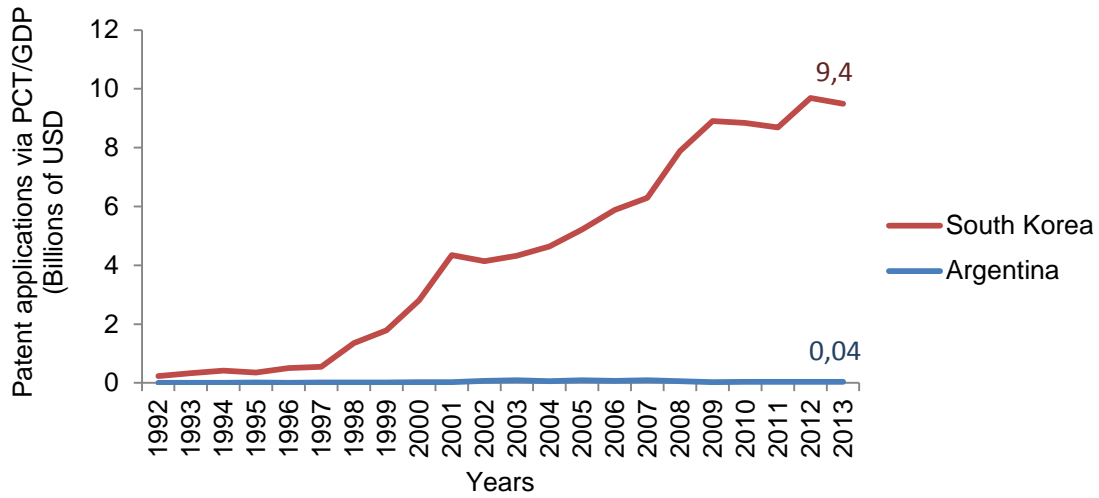
Own preparation. Source: WIPO Website (March 2015) ([www.wipo.int](http://www.wipo.int))

**Graph 9. Patent applications via PCT per million people – Argentina - South Korea**



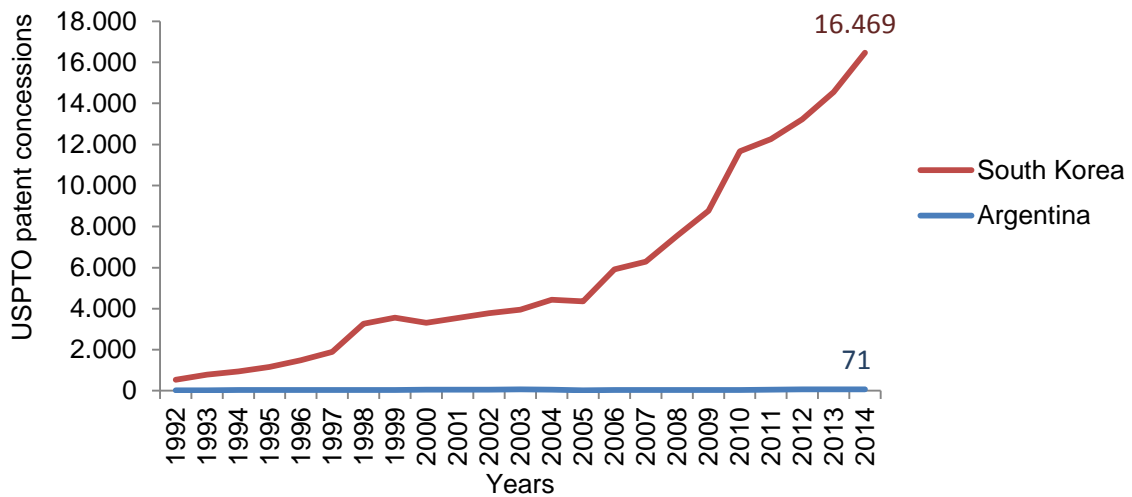
Own preparation. Source: WIPO Website (March 2015) ([www.wipo.int](http://www.wipo.int)) and World Bank (March 2015) (<http://datos.bancomundial.org/>)

**Graph 10. Patent applications via PCT/GDP – Argentina - South Korea**



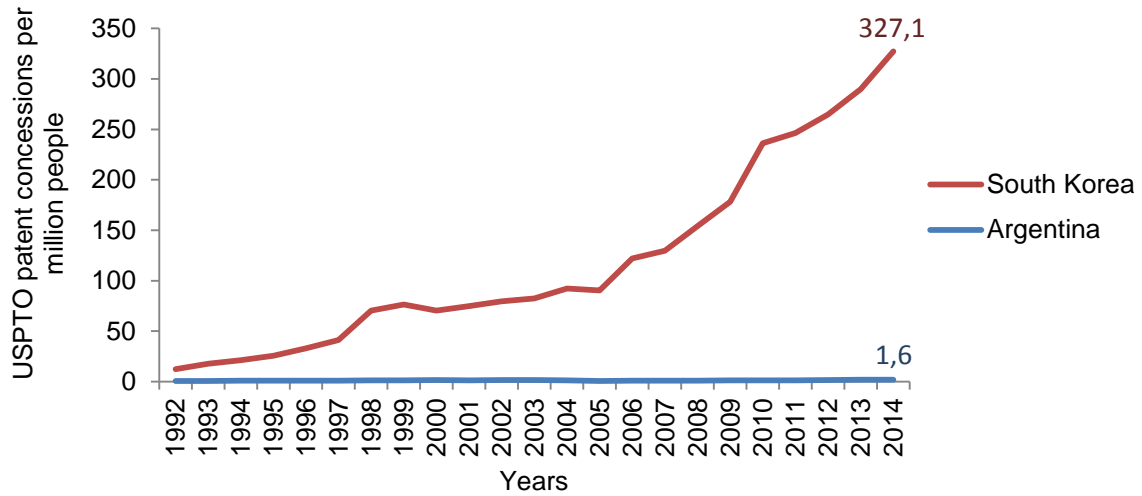
Own preparation. Source: WIPO Website (March 2015) ([www.wipo.int](http://www.wipo.int)) and United Nations Statistics Division (March 2015) (<http://unstats.un.org/>)

**Graph 11. USPTO patent concessions – Argentina - South Korea**



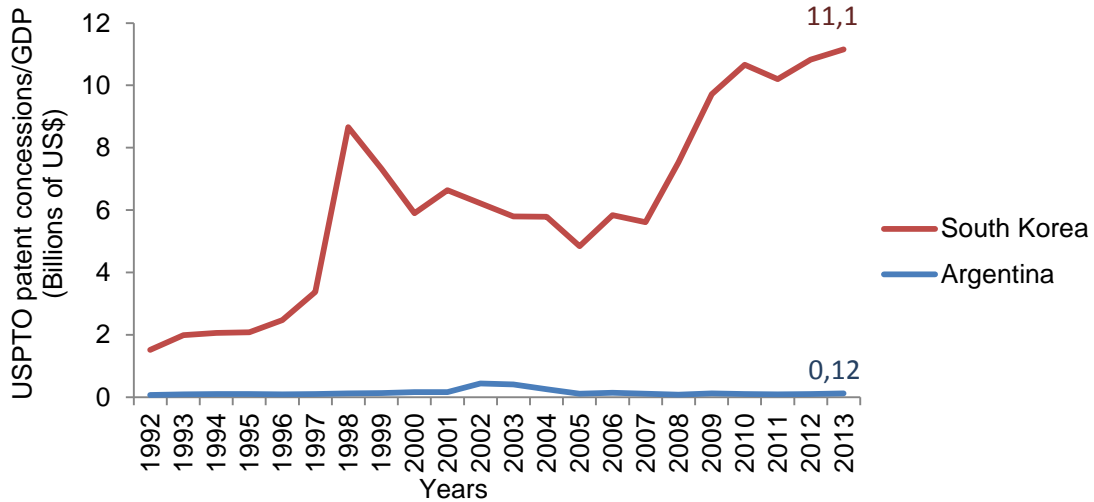
Own preparation. Source: USPTO Website (March 2015) ([http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst\\_utlh.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst_utlh.htm))

**Graph 12. USPTO patent concessions per million people – Argentina - South Korea**



Own preparation. Source: USPTO Website (March 2015) [http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst\\_utlh.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst_utlh.htm) and World Bank (March 2015) <http://datos.bancomundial.org/>

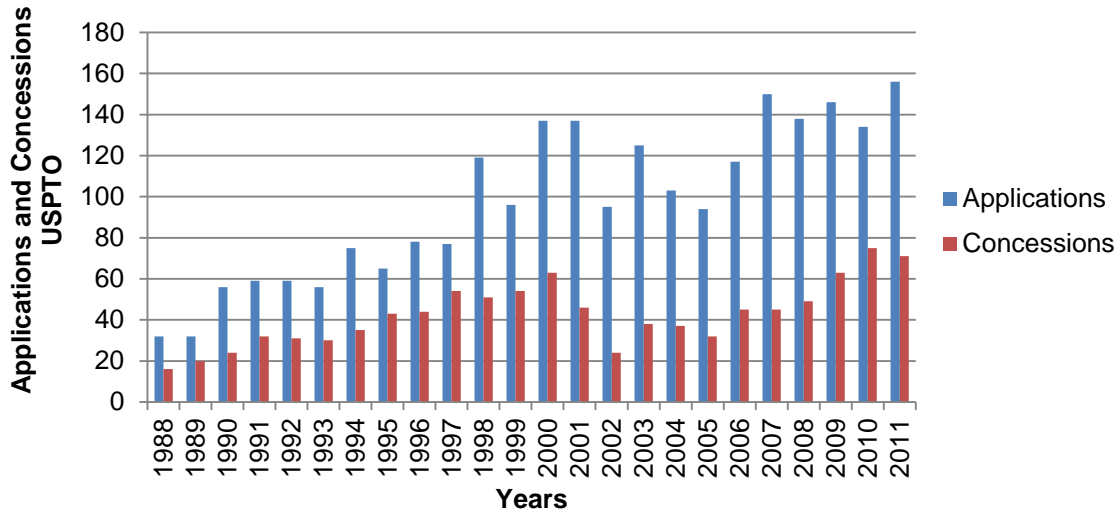
**Graph 13. USPTO patent concessions/GDP – Argentina - South Korea**



Own preparation. Source: USPTO Website (March 2015) [http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst\\_utlh.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst_utlh.htm) and United Nations Statistics Division (March 2015) <http://unstats.un.org/>

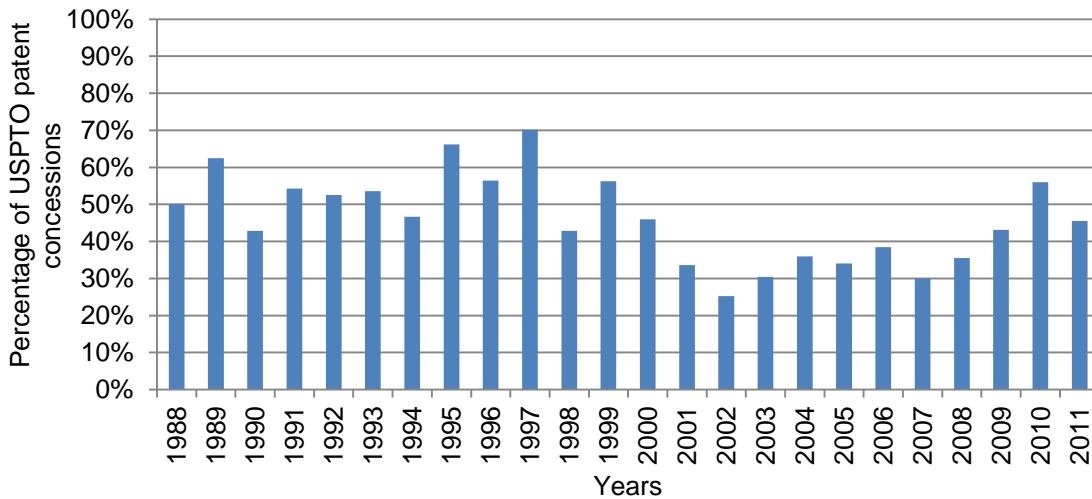


**Graph 14. Patent applications USPTO vs. USPTO patent concessions - Argentina**



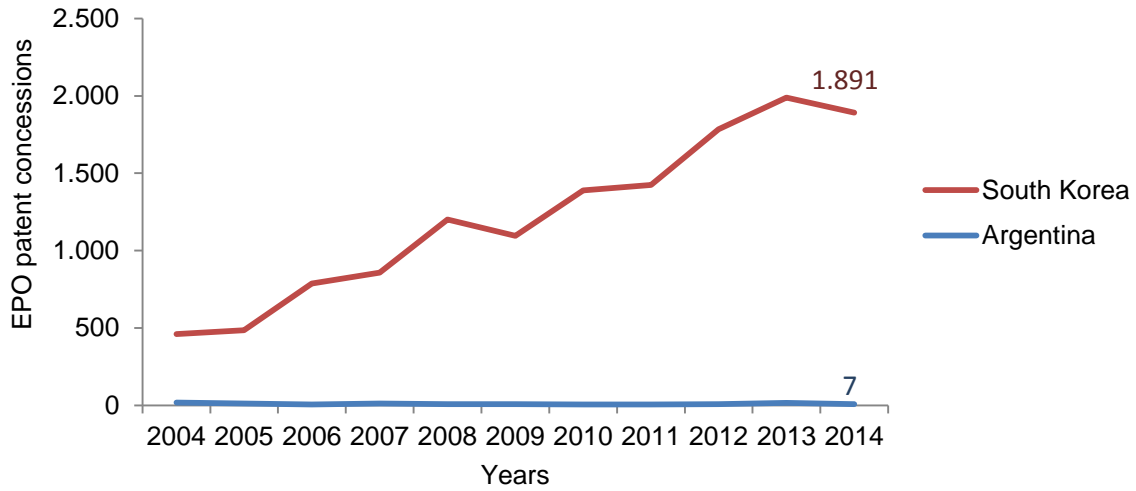
Own preparation. Source: USPTO Website (March 2015) – Concessions [http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst\\_utlh.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst_utlh.htm) and Application [http://www.uspto.gov/web/offices/ac/ido/oeip/taf/appl\\_yr.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/appl_yr.htm)

**Graph 15. Percentage of USPTO patent concessions- Argentina**



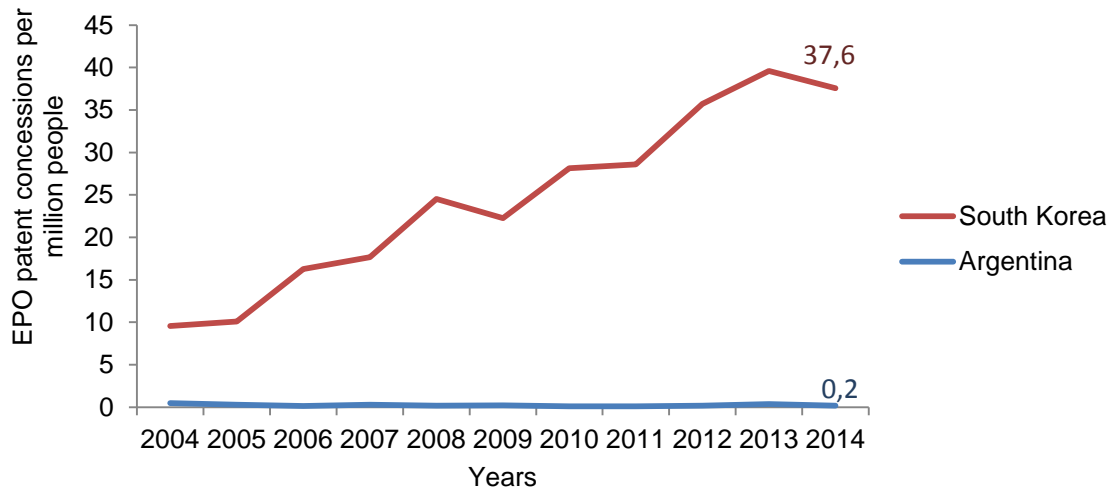
Own preparation. Source: USPTO Website (March 2015) – Concessions [http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst\\_utlh.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst_utlh.htm) and Application [http://www.uspto.gov/web/offices/ac/ido/oeip/taf/appl\\_yr.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/appl_yr.htm)

**Graph 16. EPO patent concessions – Argentina - South Korea**



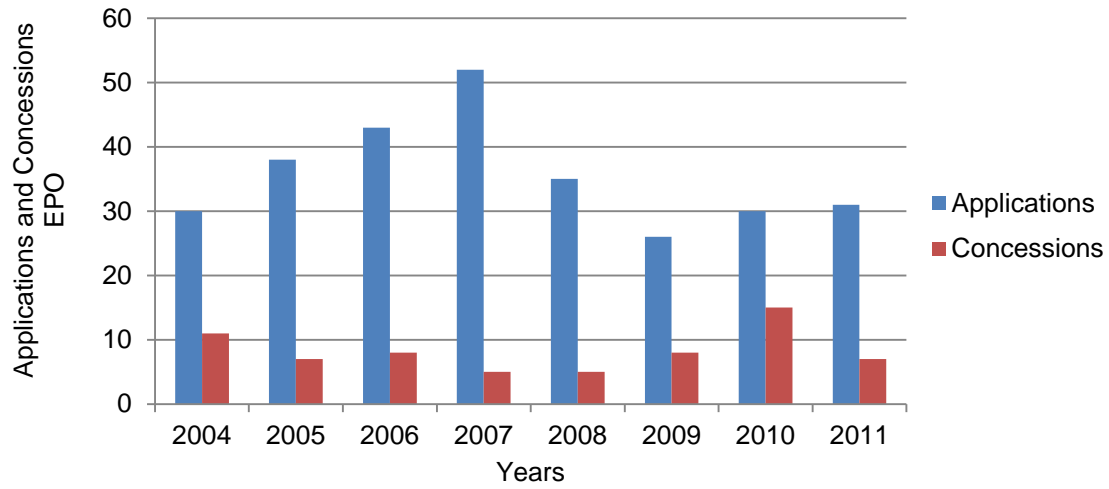
Own preparation. Source: EPO Website (March 2015) <http://www.epo.org/about-us/annual-reports-statistics/statistics.html>

**Graph 17. EPO patent concessions per million people – Argentina - South Korea**



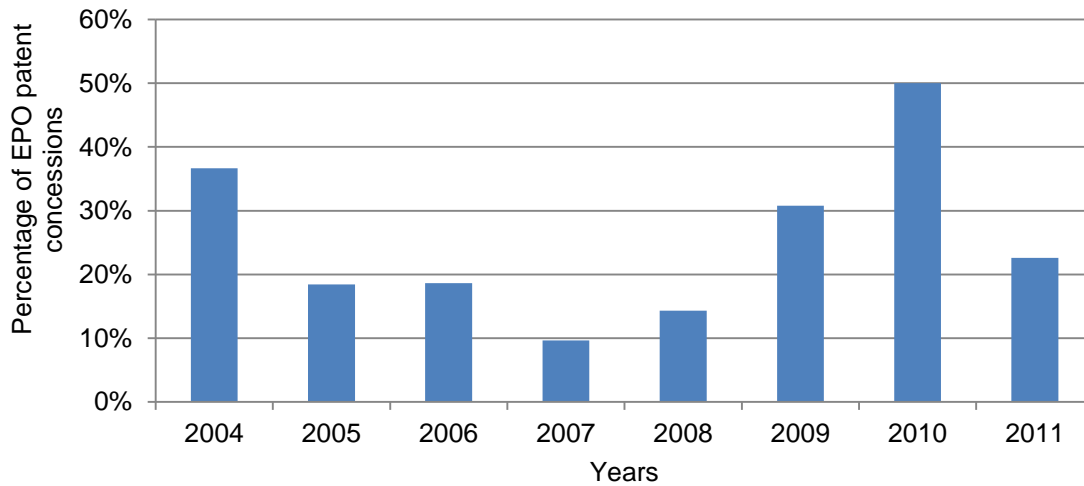
Own preparation. Source: EPO Website (March 2015) <http://www.epo.org/about-us/annual-reports-statistics/statistics.html> and World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 18. Application vs. EPO patent concessions- Argentina**



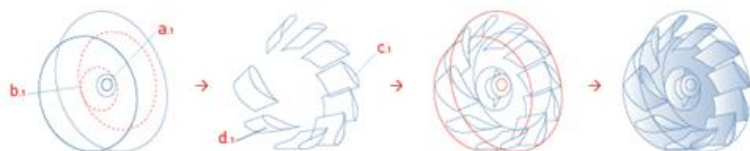
Own preparation. Source: EPO Website (March 2015) <http://www.epo.org/about-us/annual-reports-statistics/statistics.html>

**Graph 19. Percentage of EPO patent concessions - Argentina**

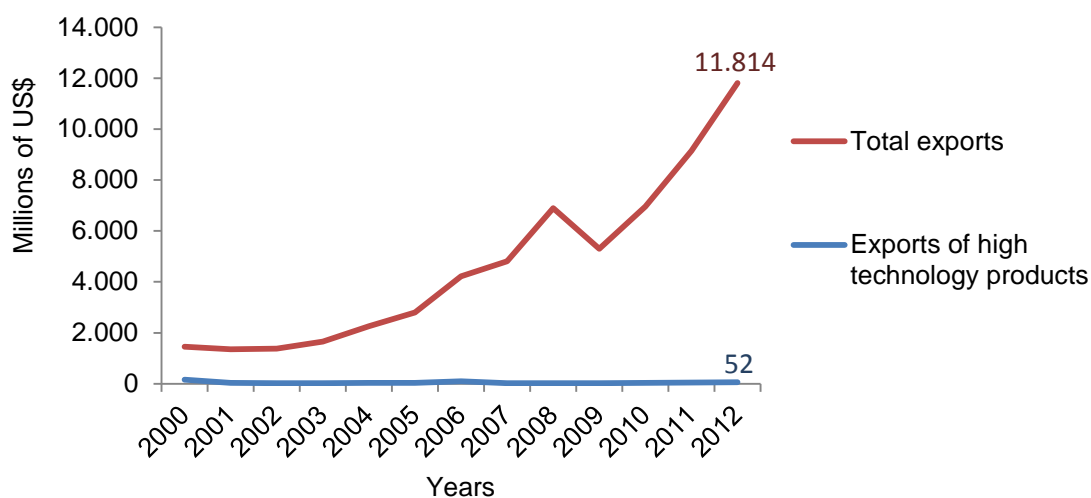


Own preparation. Source: EPO Website (March 2015) <http://www.epo.org/about-us/annual-reports-statistics/statistics.html>

# BOLIVIA

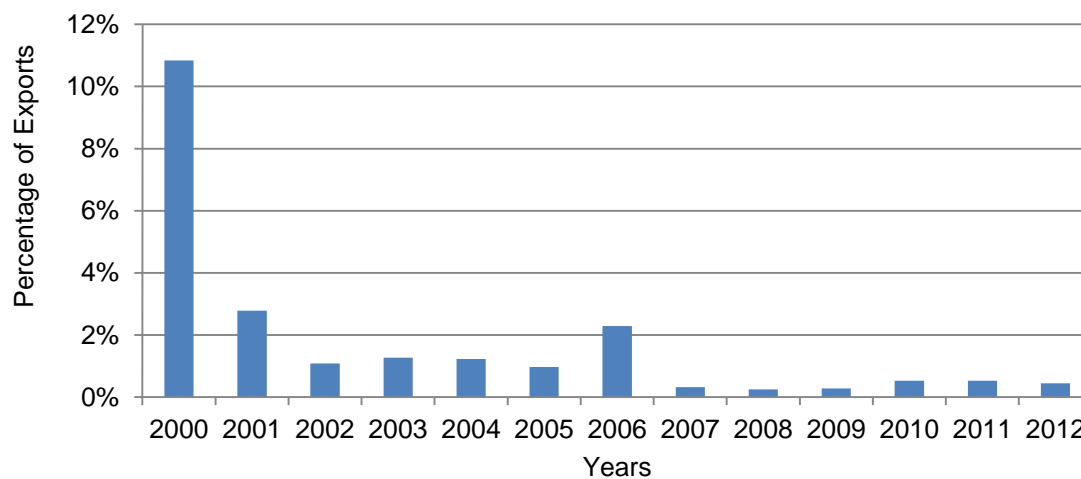


**Graph 20. Total Exports vs. Exports of high technology products- Bolivia**



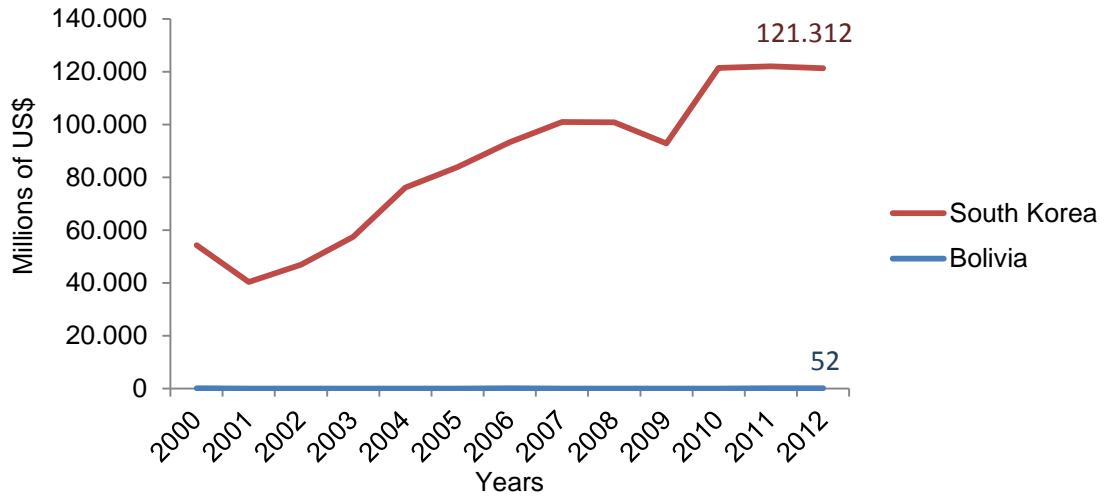
Own preparation. Source: United Nations Statistics Division (March 2015) <http://unstats.un.org/unsd/default.htm> and World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 21. Percentage of Exports of high technology products on total exports - Bolivia**



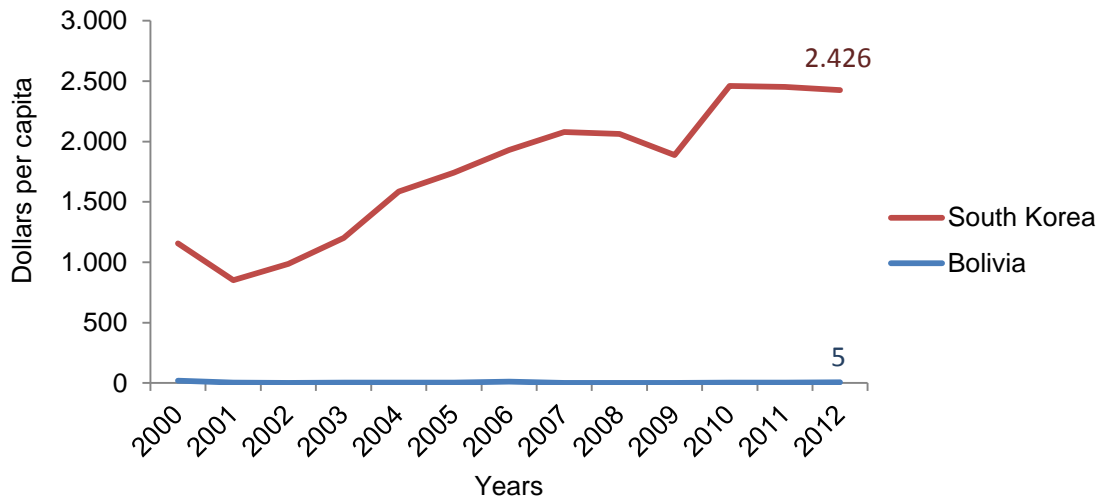
Own preparation. Source: United Nations Statistics Division (March 2015) <http://unstats.un.org/unsd/default.htm> and World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 22. Exports of high technology products– Bolivia - South Korea**



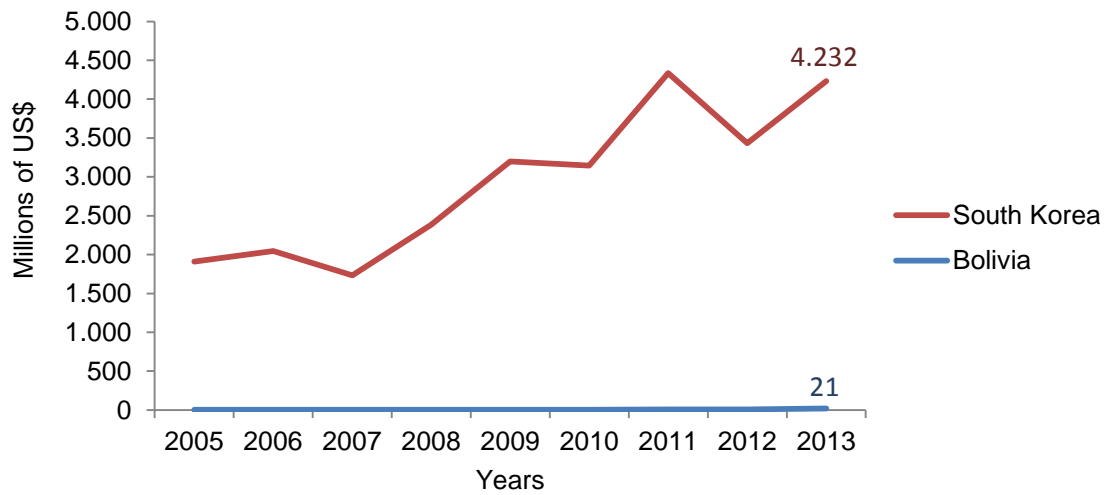
Own preparation. Source: World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 23. Exports of high technology products per capita – Bolivia - South Korea**



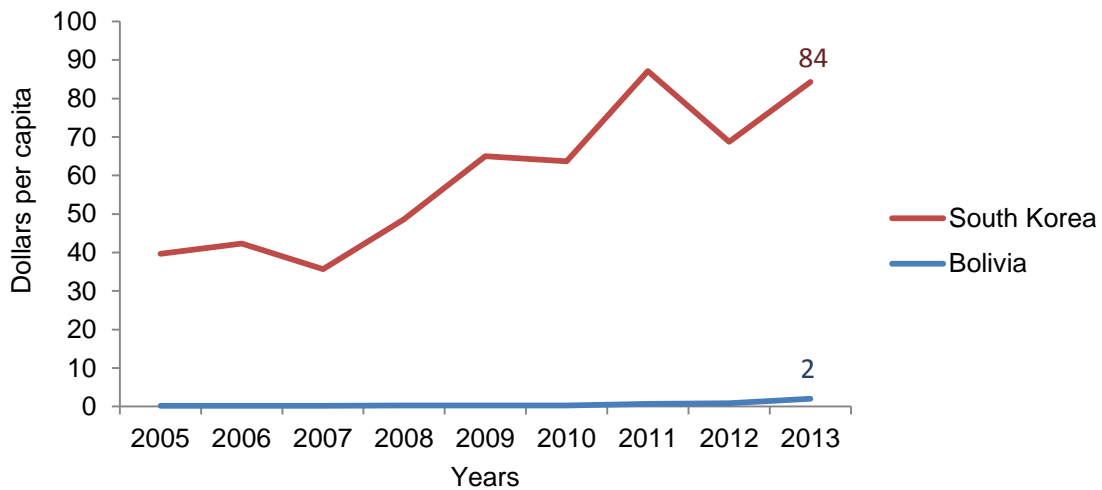
Own preparation. Source: World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 24. Royalties for the use of intellectual property – Bolivia - South Korea**



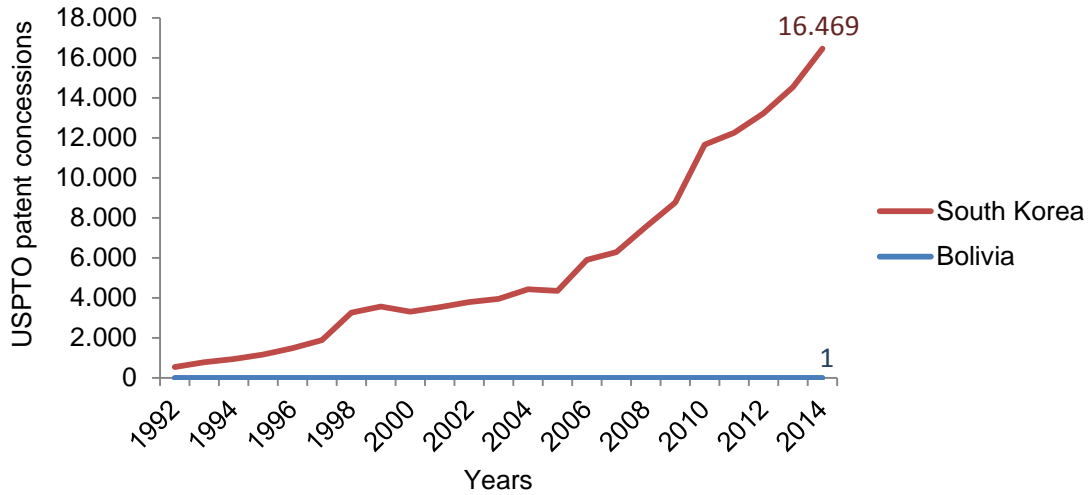
Own preparation. Source: World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 25. Royalties for the use of intellectual property per capita – Bolivia - South Korea**



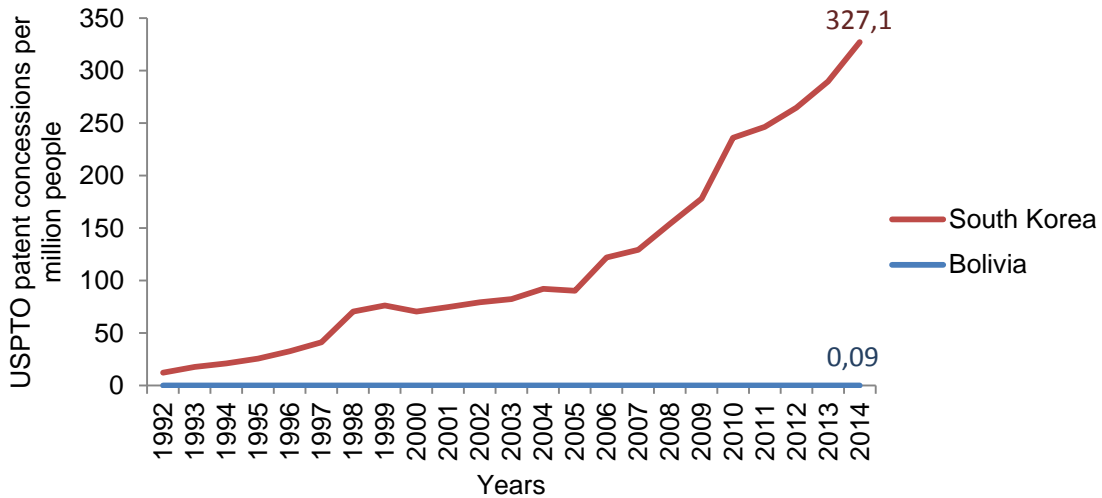
Own preparation. Source: World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 26. USPTO patent concessions – Bolivia - South Korea**



Own preparation. Source: USPTO Website (March 2015) [http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst\\_utlh.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst_utlh.htm)

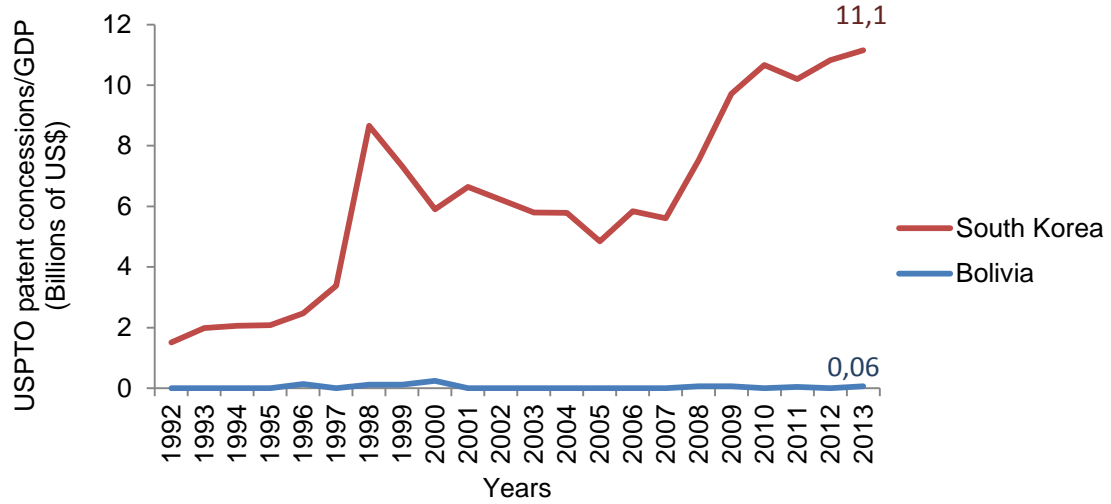
**Graph 27. USPTO patent concessions per million people – Bolivia - South Korea**



Own preparation. Source: USPTO Website (March 2015) [http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst\\_utlh.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst_utlh.htm) and World Bank (March 2015) <http://datos.bancomundial.org/>

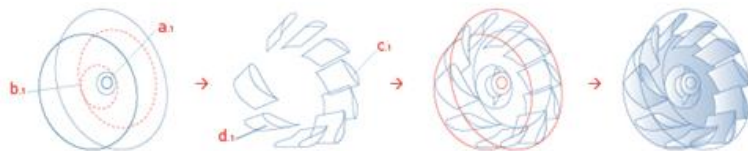


Graph 28. USPTO patent concessions/GDP – Bolivia - South Korea

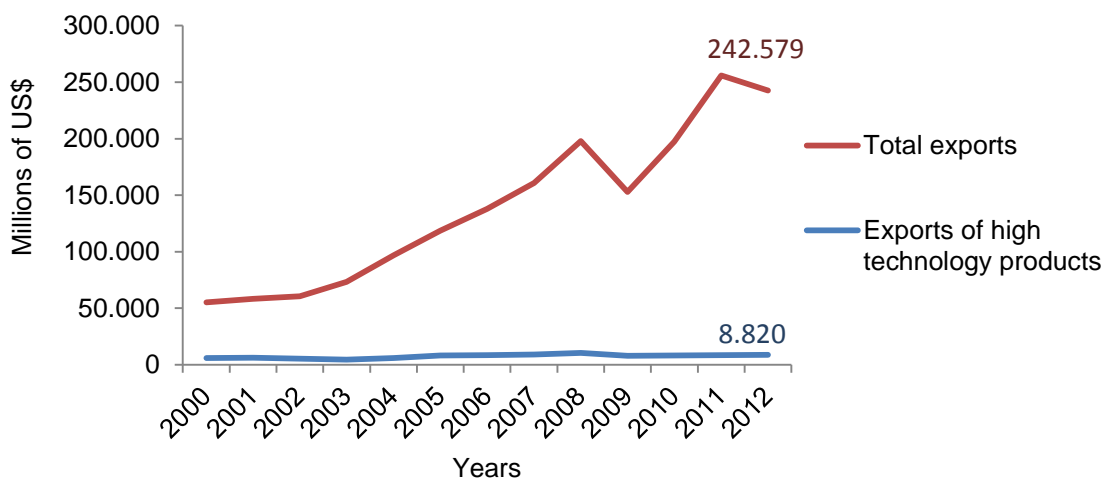


Own preparation. Source: USPTO Website (March 2015) [http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst\\_utlh.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst_utlh.htm) and United Nations Statistics Division (March 2015) <http://unstats.un.org/>

# BRAZIL

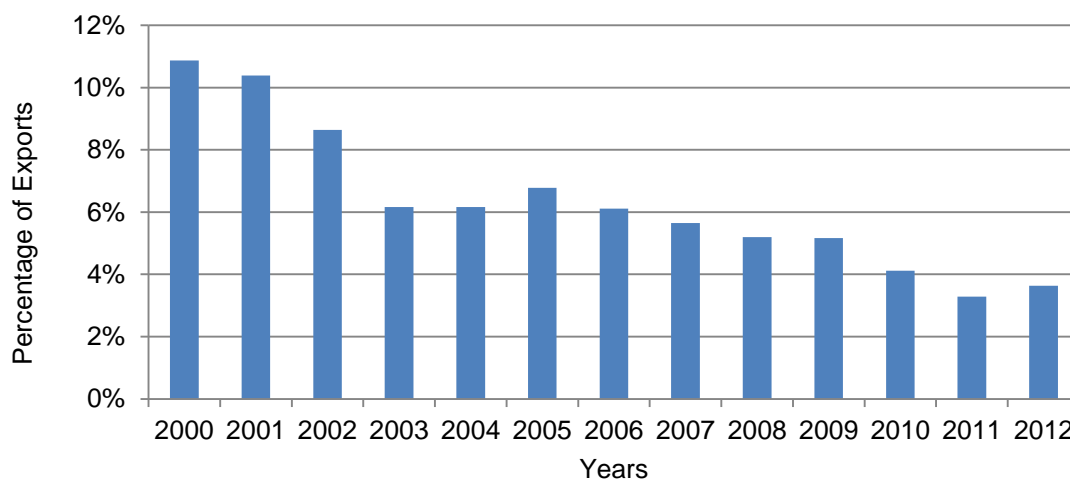


**Graph 29. Total Exports vs. Exports of high technology products- Brazil**



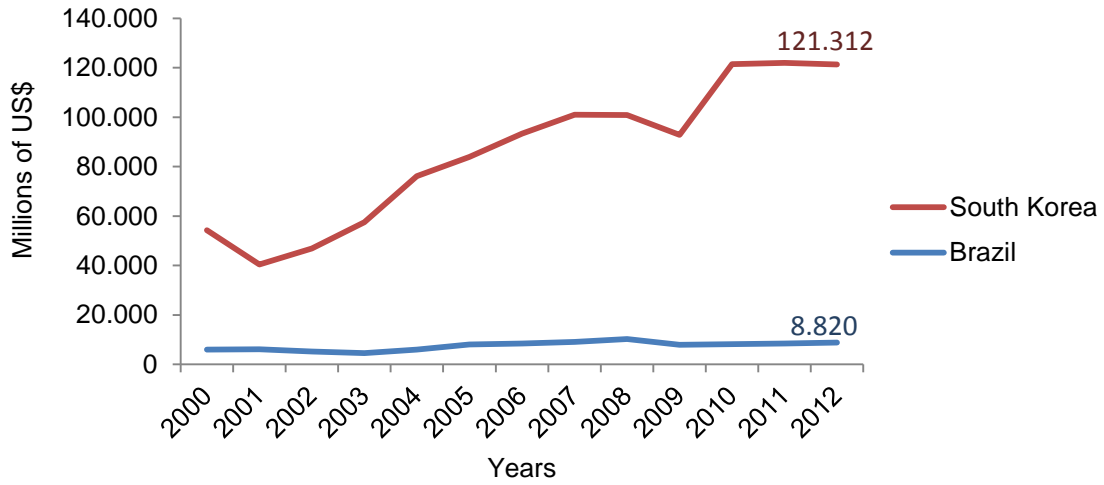
Own preparation. Source: United Nations Statistics Division (March 2015) <http://unstats.un.org/unsd/default.htm> and World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 30. Percentage of Exports of high technology products on total exports - Brazil**



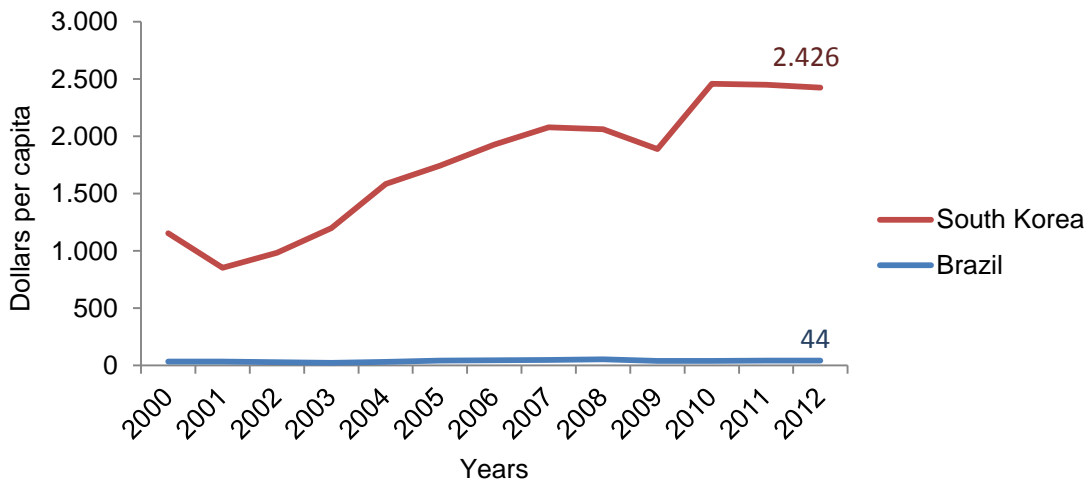
Own preparation. Source: United Nations Statistics Division (March 2015) <http://unstats.un.org/unsd/default.htm> and World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 31. Exports of high technology products– Brazil - South Korea**



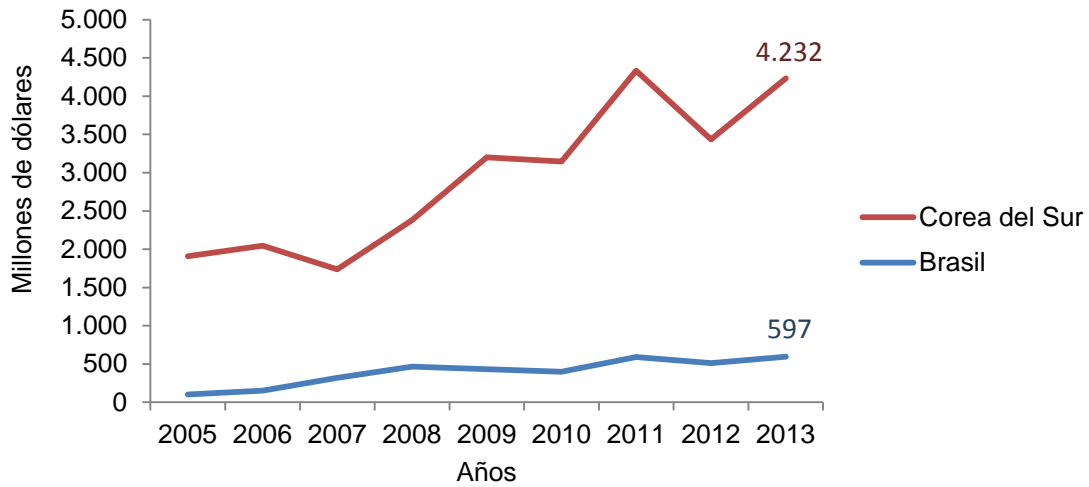
Own preparation. Source: World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 32. Exports of high technology products per capita – Brazil - South Korea**



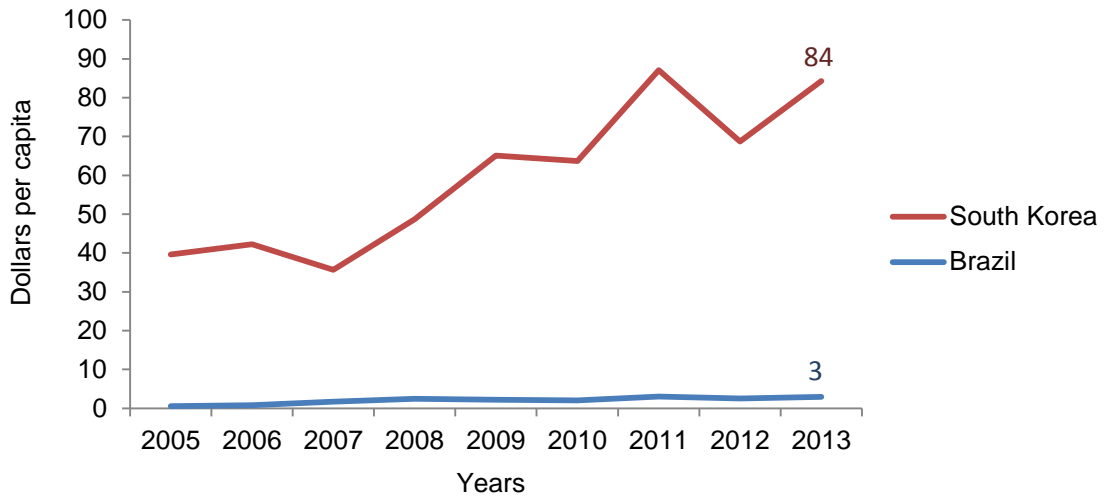
Own preparation. Source: World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 33. Royalties for the use of intellectual property – Brazil - South Korea**



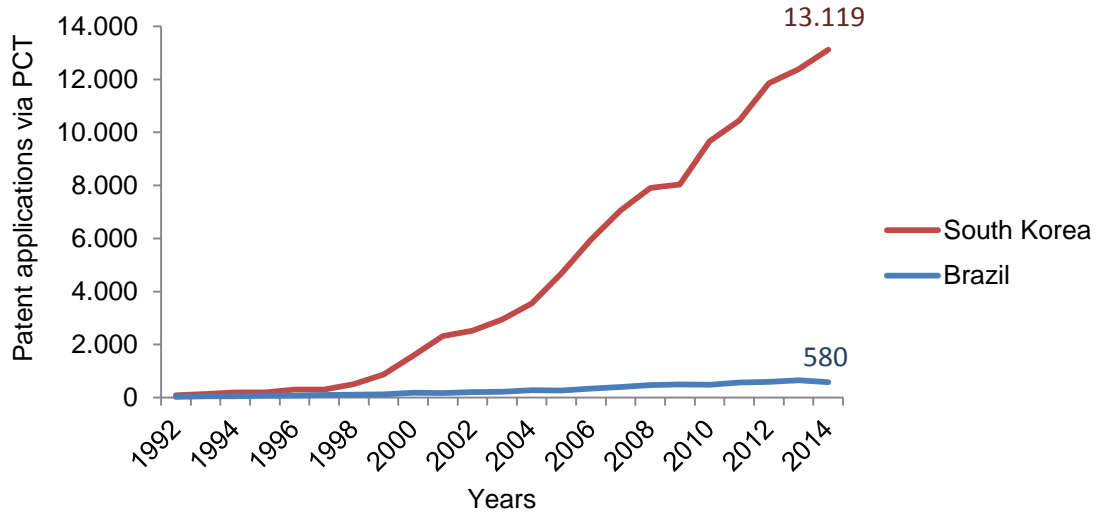
Own preparation. Source: World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 34. Royalties for the use of intellectual property per capita – Brazil - South Korea**



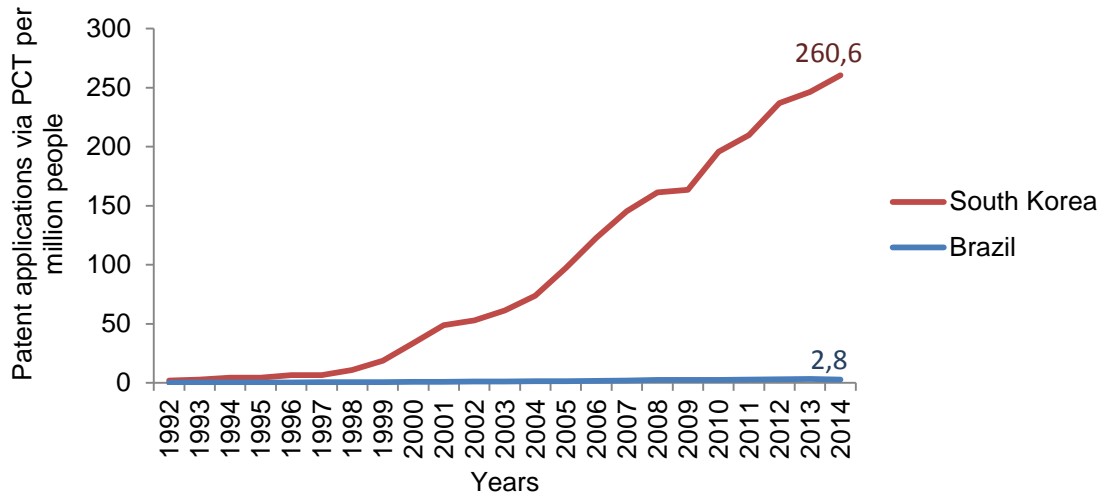
Own preparation. Source: World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 35. Patent applications via PCT – Brazil - South Korea**



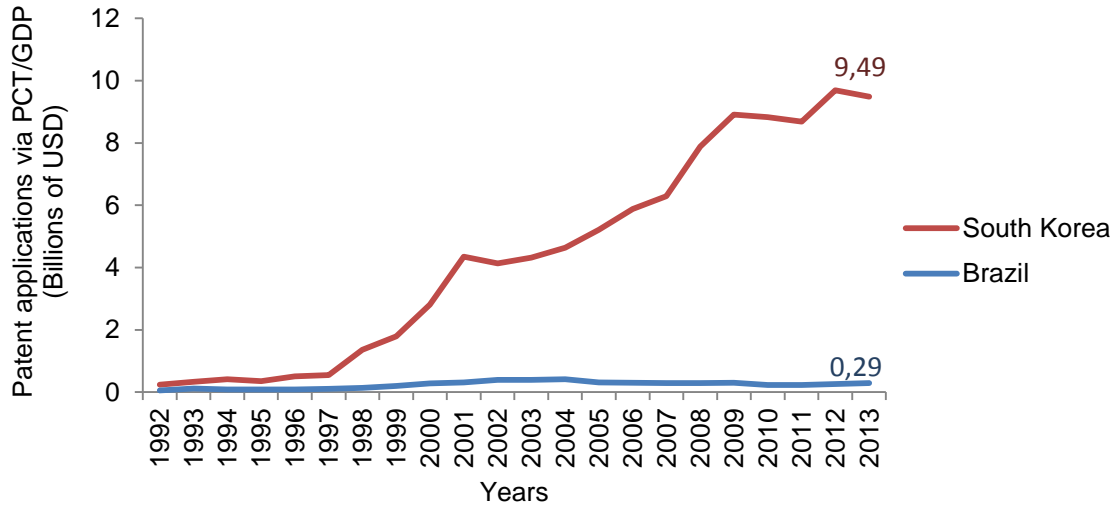
Own preparation. Source: WIPO Website (March 2015) ([www.wipo.int](http://www.wipo.int))

**Graph 36. Patent applications via PCT per million people – Brazil - South Korea**



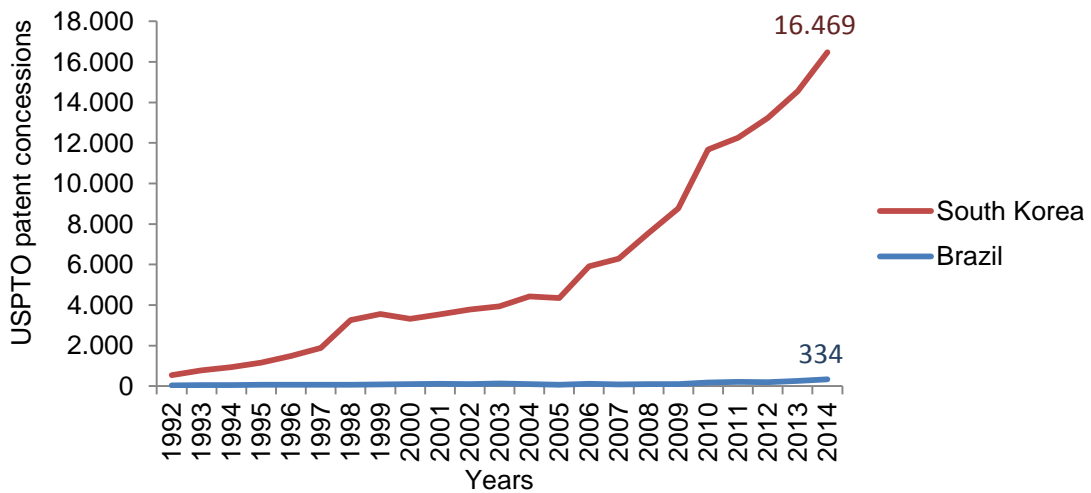
Own preparation. Source: WIPO Website (March 2015) ([www.wipo.int](http://www.wipo.int)) and World Bank (March 2015) (<http://datos.bancomundial.org/>)

**Graph 37. Patent applications via PCT/GDP- Brazil - South Korea**



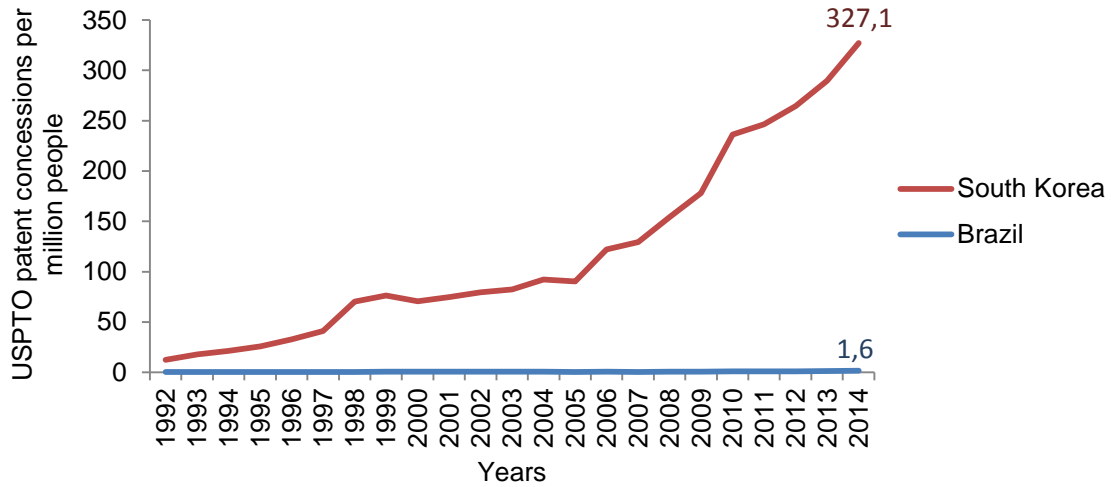
Own preparation. Source: WIPO Website (March 2015) ([www.wipo.int](http://www.wipo.int)) and United Nations Statistics Division (<http://unstats.un.org/>)

**Graph 38. USPTO patent concessions- Brazil - South Korea**



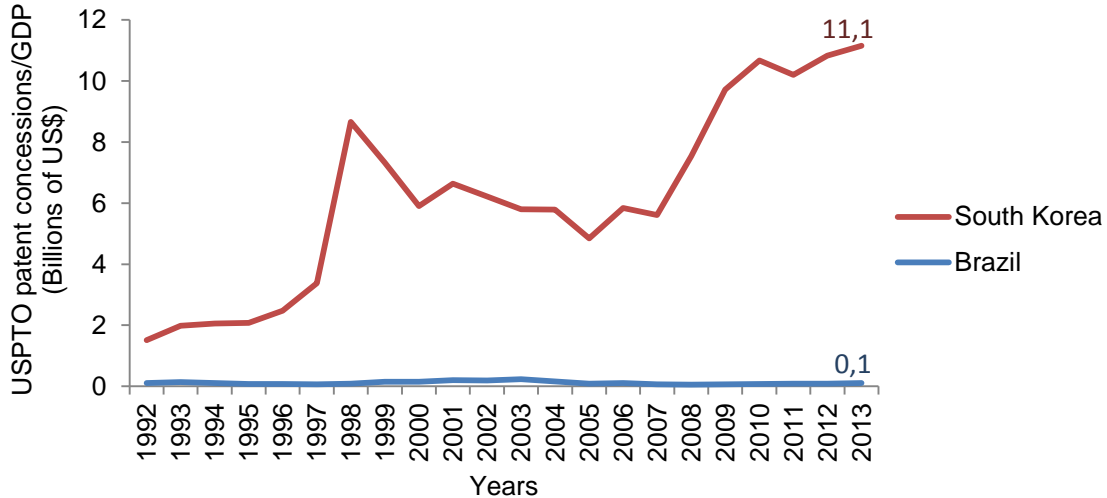
Own preparation. Source: USPTO Website (March 2015) ([http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst\\_utlh.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst_utlh.htm))

**Graph 39. USPTO patent concessions per million people- Brazil - South Korea**



Own preparation. Source: USPTO Website (March 2015) [http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst\\_utlh.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst_utlh.htm) and World Bank (March 2015) <http://datos.bancomundial.org/>

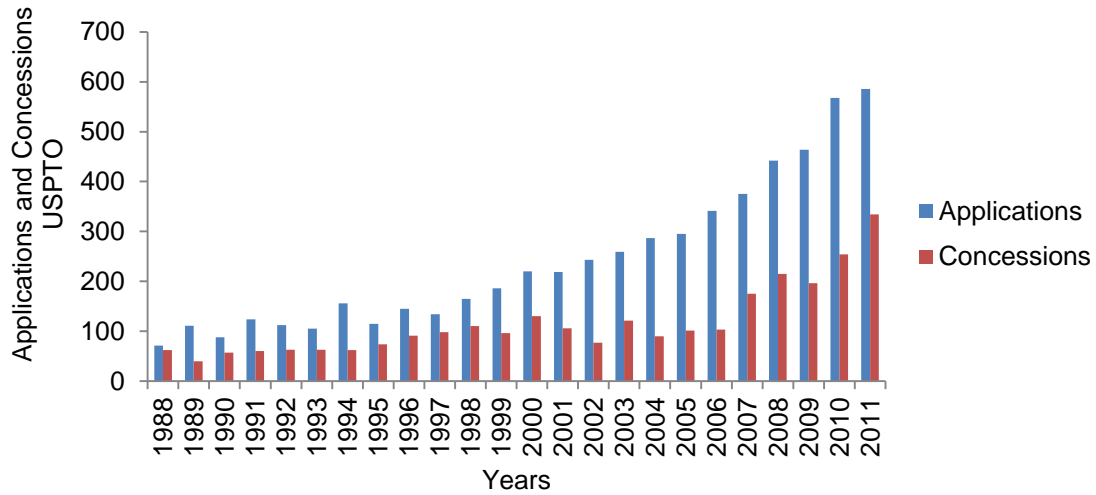
**Graph 40. USPTO patent concessions/GDP- Brazil - South Korea**



Own preparation. Source: USPTO Website (March 2015) [http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst\\_utlh.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst_utlh.htm) and United Nations Statistics Division <http://unstats.un.org/>

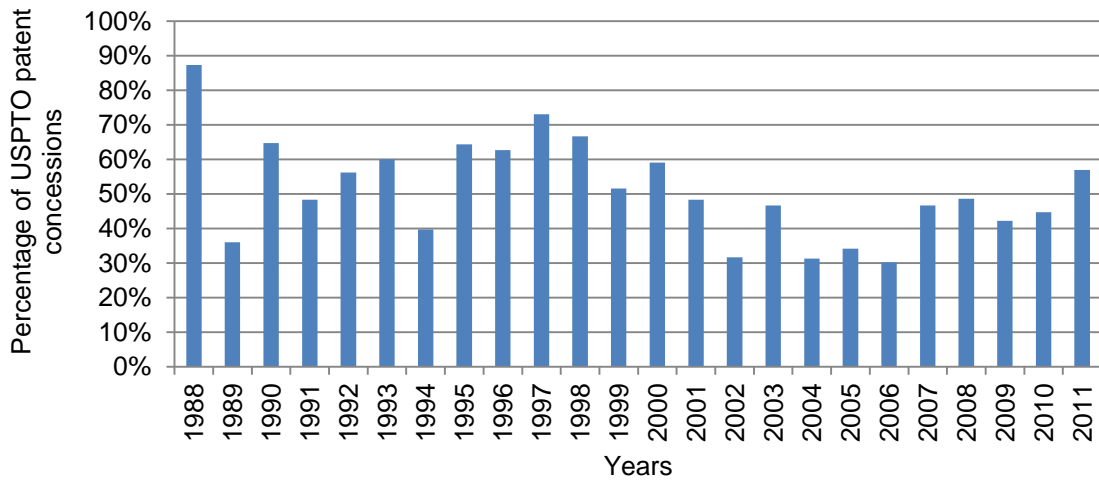


**Graph 41. Application vs. USPTO patent concessions- Brazil**



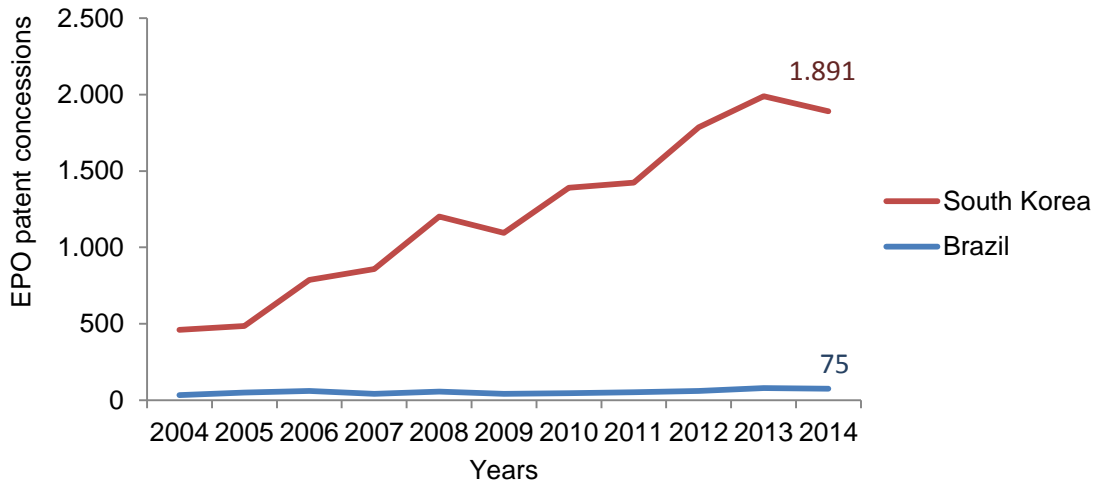
Own preparation. Source: USPTO Website (March 2015) – Concessions [http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst\\_utlh.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst_utlh.htm) and Application [http://www.uspto.gov/web/offices/ac/ido/oeip/taf/appl\\_yr.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/appl_yr.htm)

**Graph 42. Percentage of USPTO patent concessions- Brazil**



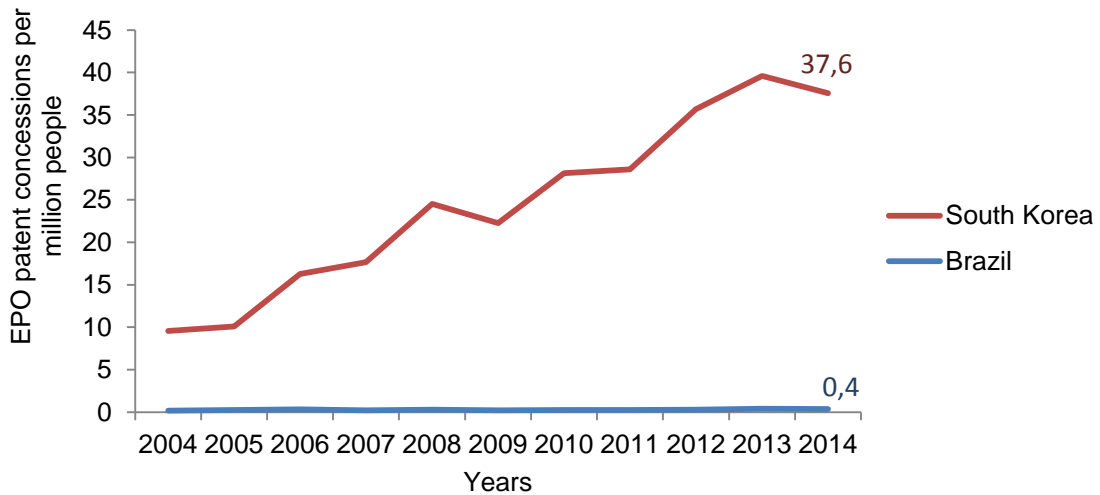
Own preparation. Source: USPTO Website (March 2015) – Concessions [http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst\\_utlh.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst_utlh.htm) and Application [http://www.uspto.gov/web/offices/ac/ido/oeip/taf/appl\\_yr.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/appl_yr.htm)

**Graph 43. EPO patent concessions- Brazil - South Korea**



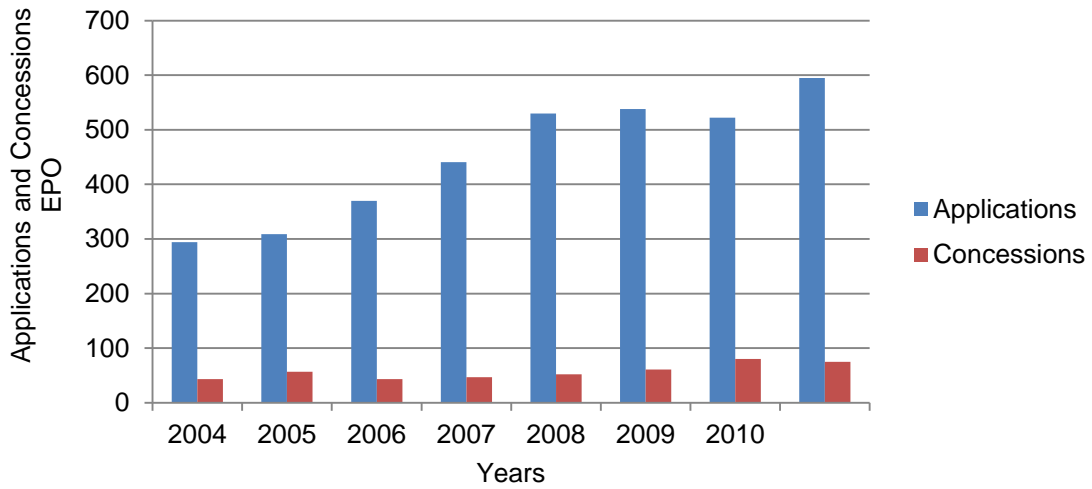
Own preparation. Source: EPO Website (March 2015) <http://www.epo.org/about-us/annual-reports-statistics/statistics.html>

**Graph 44. EPO patent concessions per million people- Brazil - South Korea**



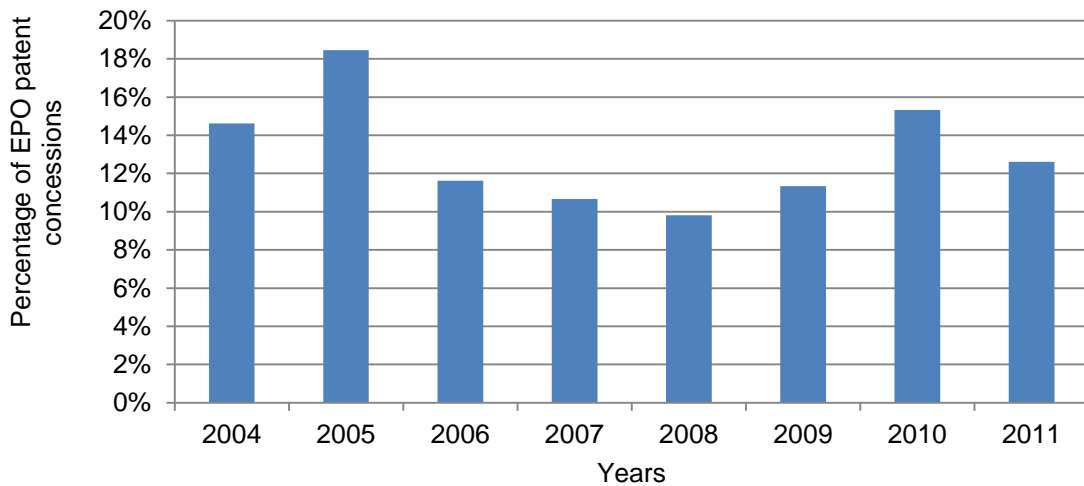
Own preparation. Source: EPO Website (March 2015) <http://www.epo.org/about-us/annual-reports-statistics/statistics.html> and World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 45. Application vs. EPO patent concessions- Brazil**



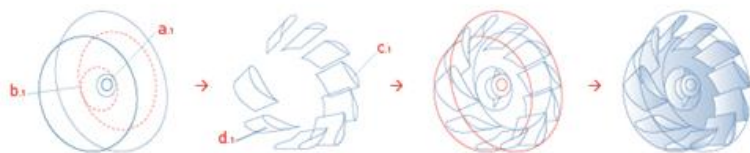
Own preparation. Source: EPO Website (March 2015) <http://www.epo.org/about-us/annual-reports-statistics/statistics.html>

**Graph 46. Percentage of EPO patent concessions - Brazil**

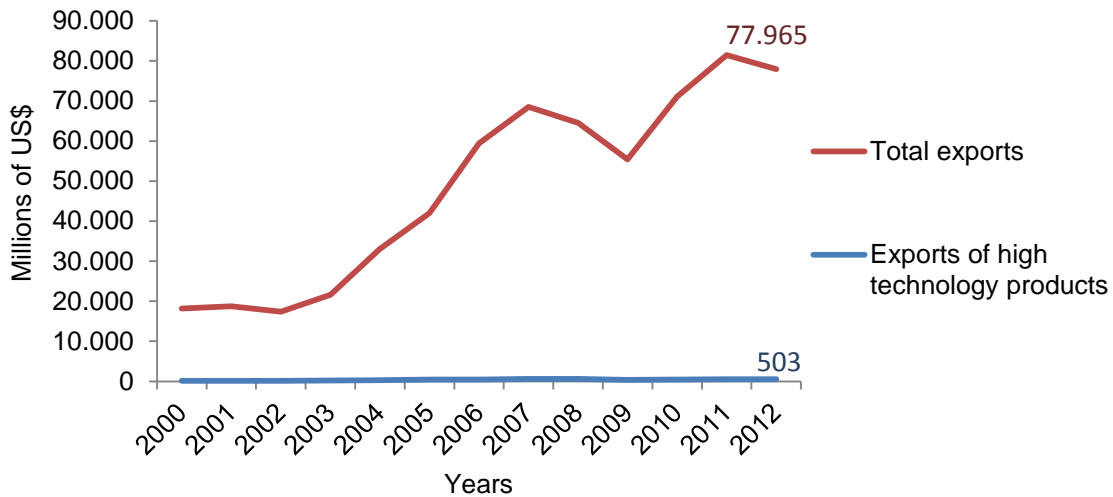


Own preparation. Source: EPO Website (March 2015) <http://www.epo.org/about-us/annual-reports-statistics/statistics.html>

# CHILE

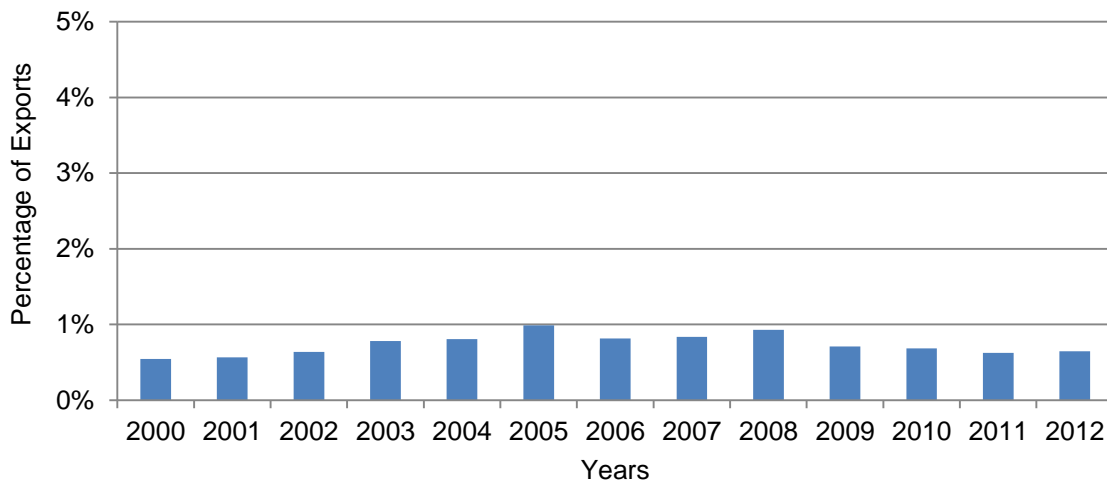


**Graph 47. Total Exports vs. Exports of high technology products- Chile**



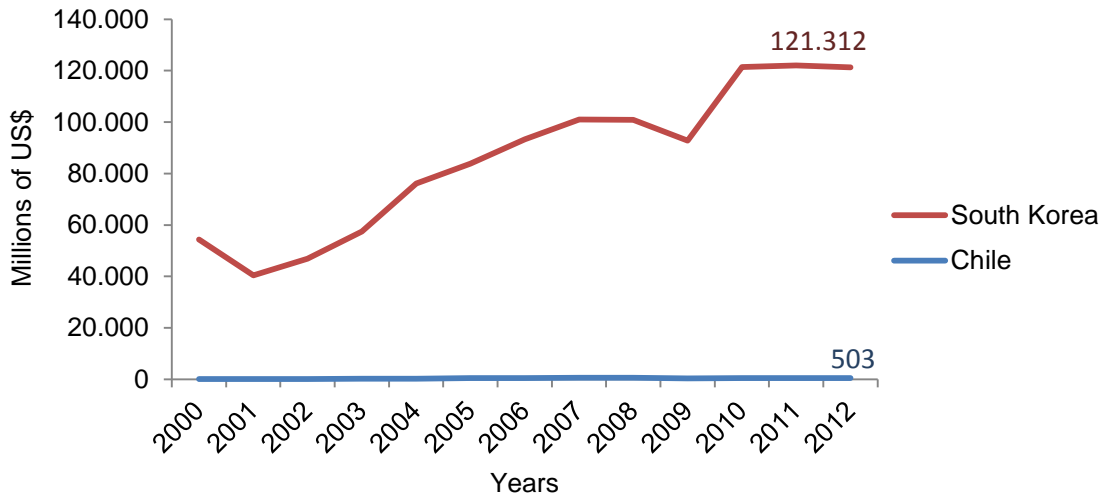
Own preparation. Source: United Nations Statistics Division (March 2015) <http://unstats.un.org/unsd/default.htm> and World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 48. Percentage of Exports of high technology products on total exports - Chile**



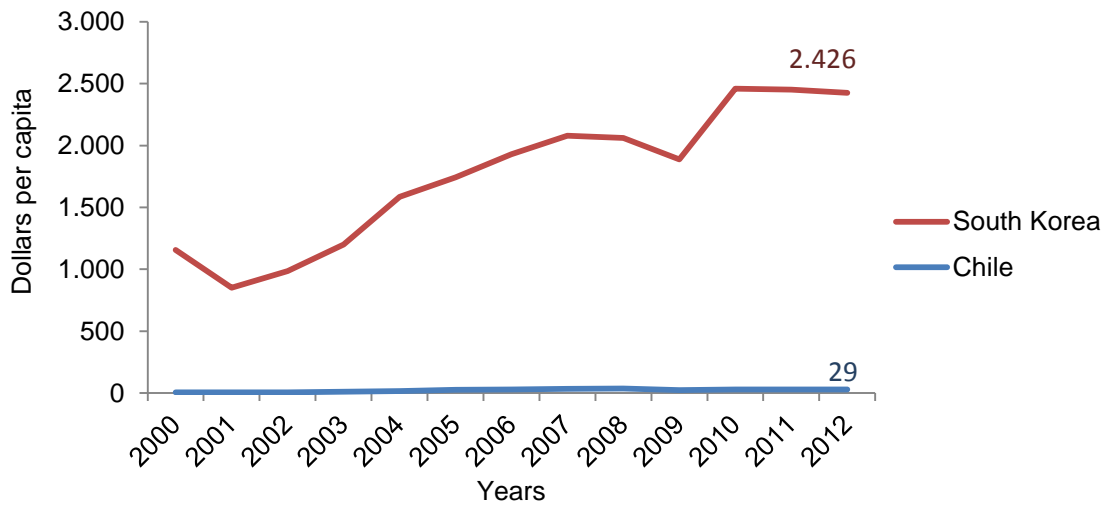
Own preparation. Source: United Nations Statistics Division (March 2015) <http://unstats.un.org/unsd/default.htm> and World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 49. Exports of high technology products- Chile - South Korea**



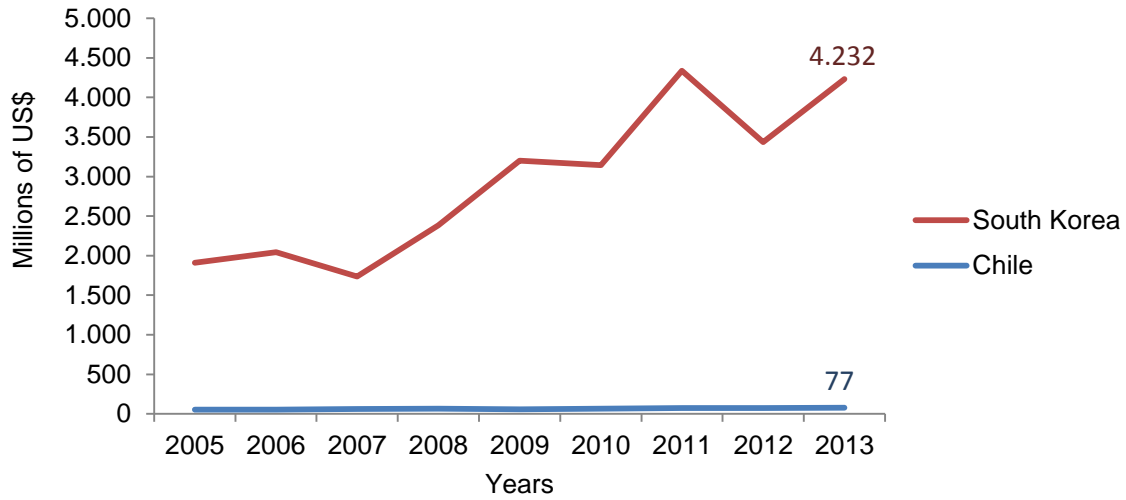
Own preparation. Source: World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 50. Exports of high technology products per capita- Chile - South Korea**



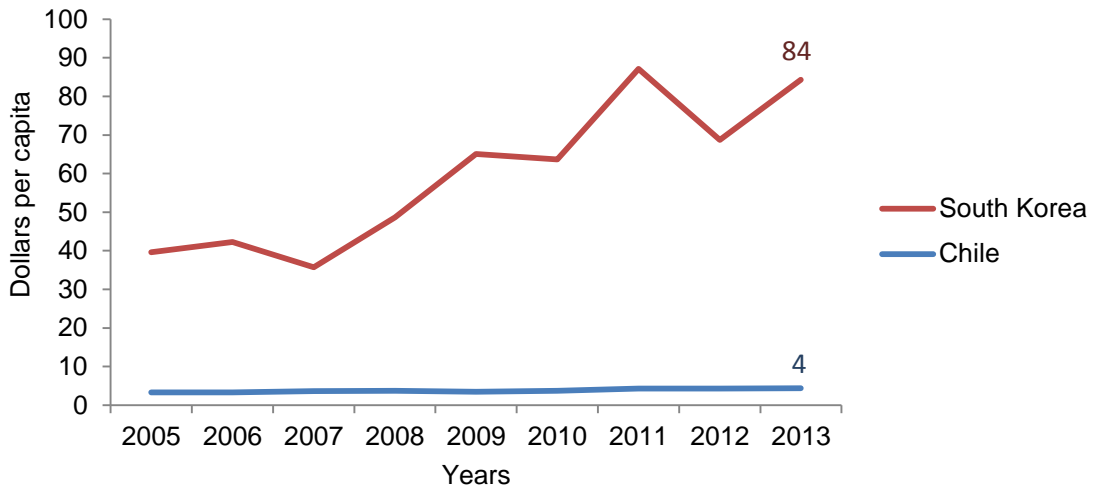
Own preparation. Source: World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 51. Royalties for the use of intellectual property- Chile - South Korea**



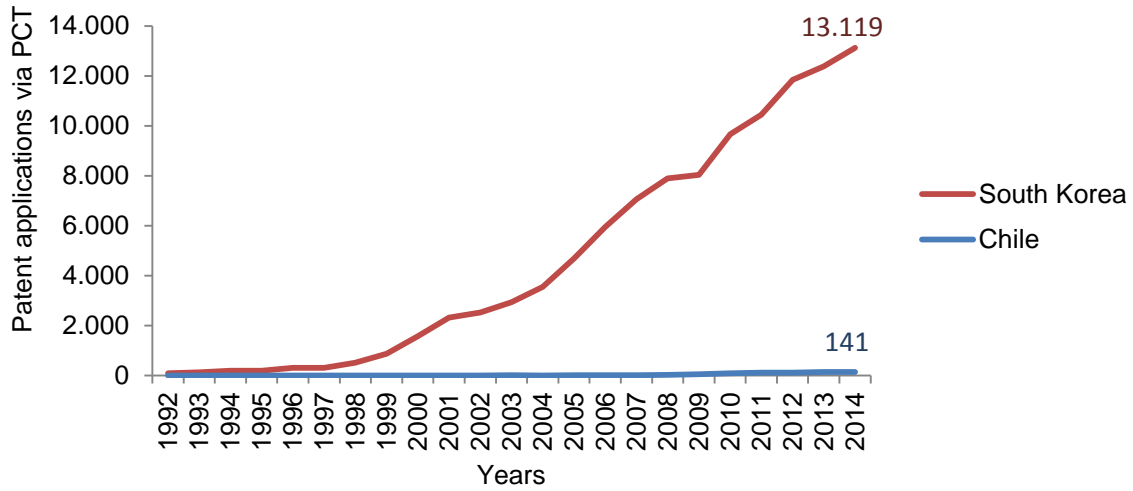
Own preparation. Source: World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 52. Royalties for the use of intellectual property per capita- Chile - South Korea**



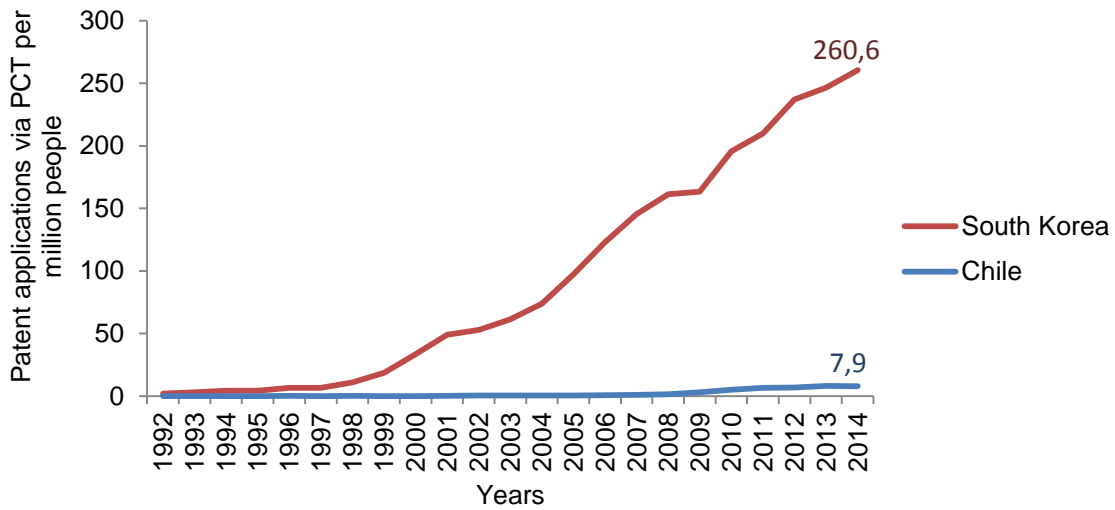
Own preparation. Source: World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 53. Patent applications via PCT- Chile - South Korea**



Own preparation. Source: WIPO Website (March 2015) ([www.wipo.int](http://www.wipo.int))

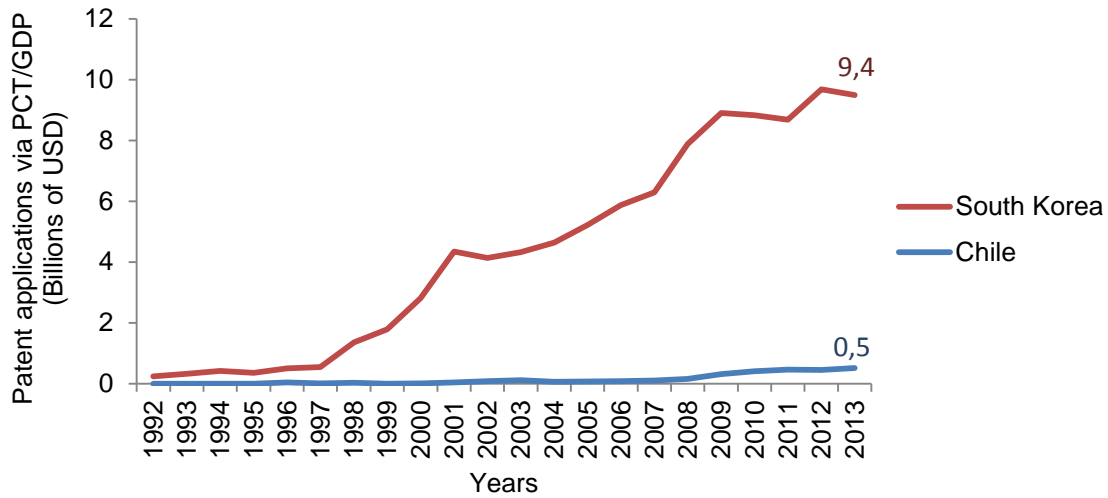
**Graph 54. Patent applications via PCT per million people- Chile - South Korea**



Own preparation. Source: WIPO Website (March 2015) ([www.wipo.int](http://www.wipo.int)) and World Bank (March 2015) (<http://datos.bancomundial.org/>)

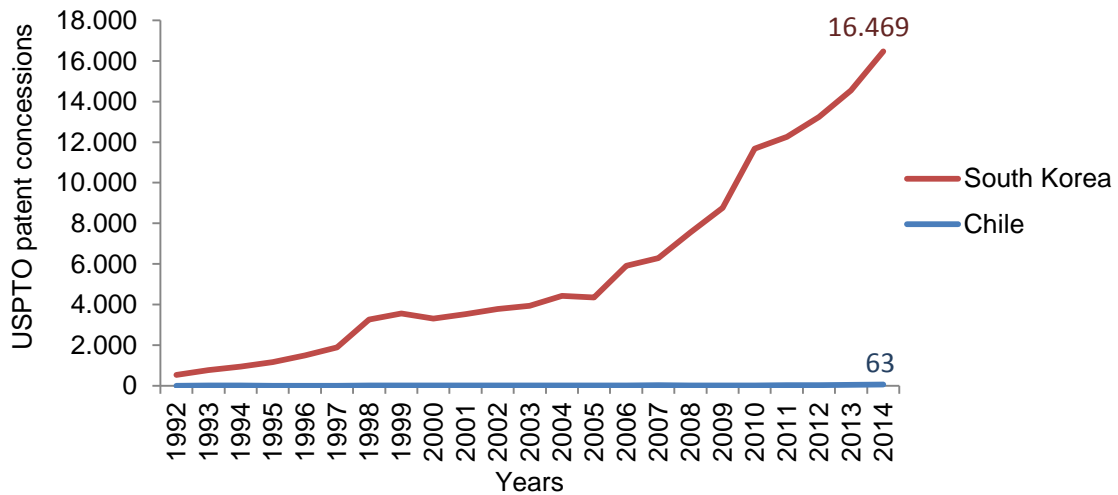


**Graph 55. Patent applications via PCT/GDP- Chile - South Korea**



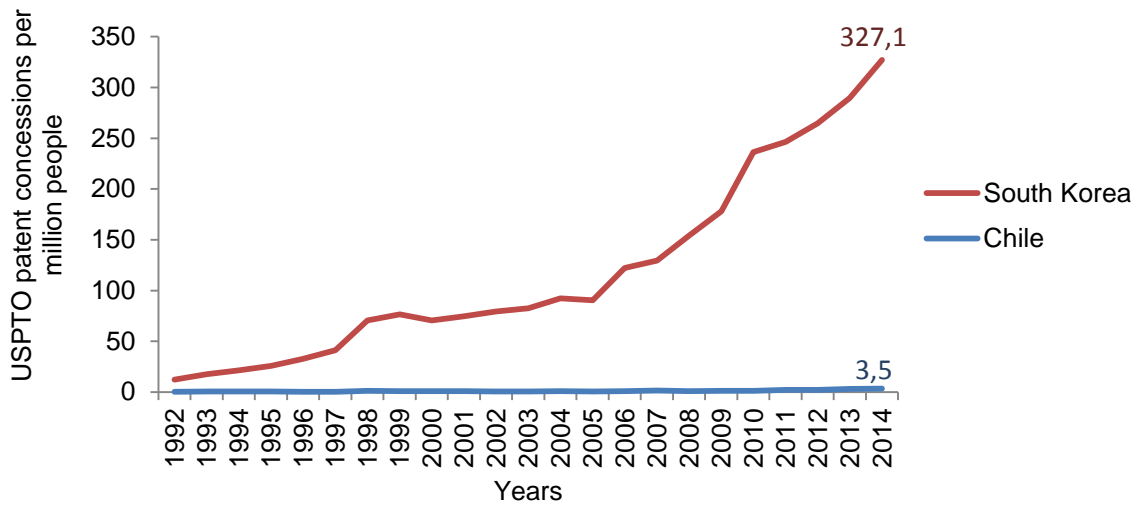
Own preparation. Source: WIPO Website (March 2015) ([www.wipo.int](http://www.wipo.int)) and United Nations Statistics Division (March 2015) <http://unstats.un.org/>

**Graph 56. USPTO patent concessions- Chile - South Korea**



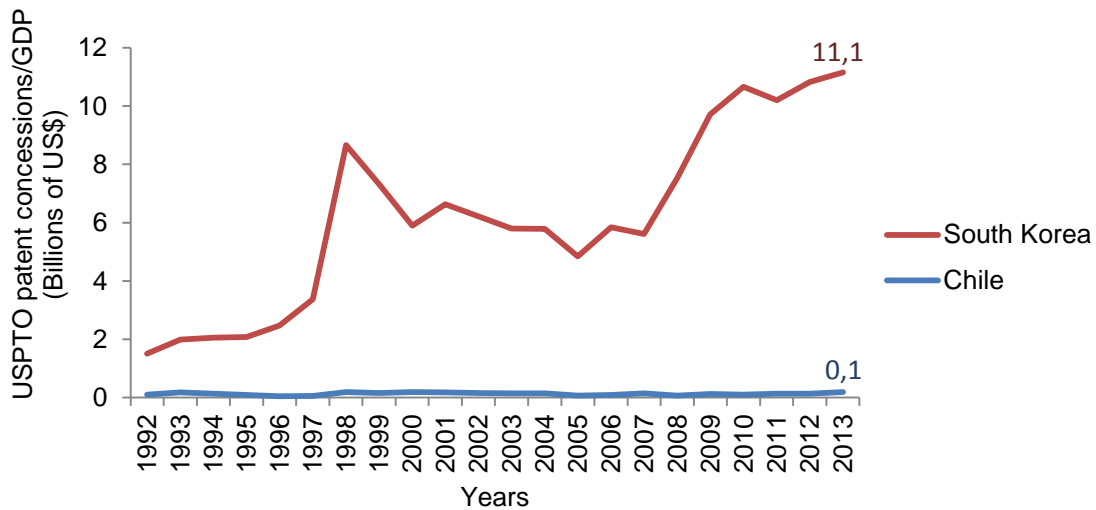
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**Graph 57. USPTO patent concessions per million people- Chile - South Korea**



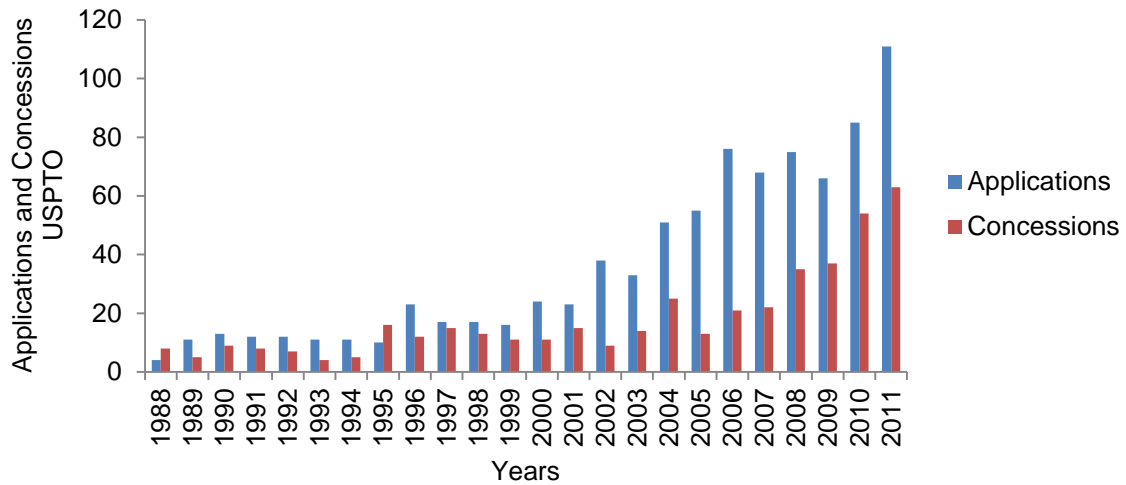
Own preparation. Source: USPTO Website (March 2015) [http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst\\_utlh.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst_utlh.htm) and World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 58. USPTO patent concessions/GDP- Chile - South Korea**



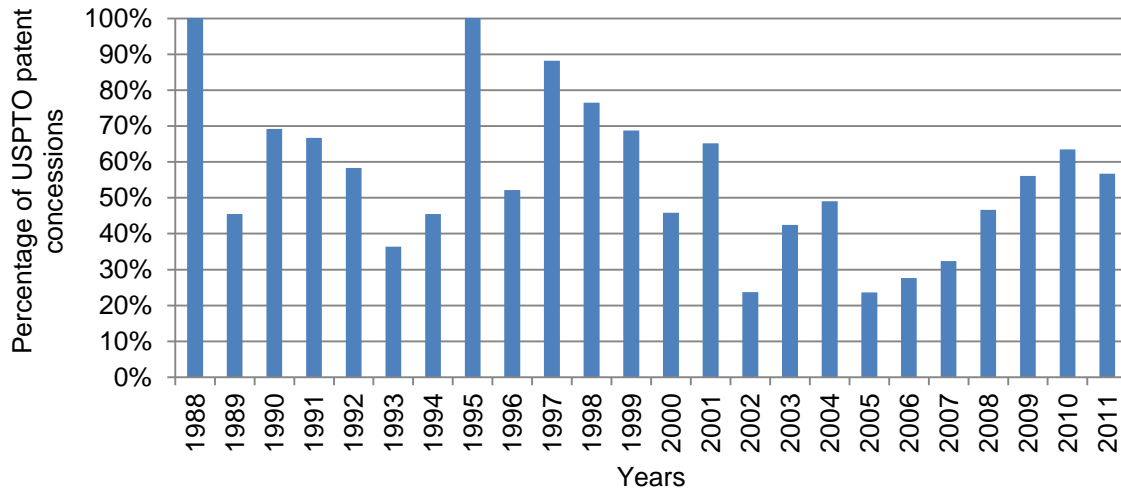
Own preparation. Source: USPTO Website (March 2015) [http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst\\_utlh.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst_utlh.htm) and United Nations Statistics Division <http://unstats.un.org/>

**Graph 59. Application vs. USPTO patent concessions- Chile**



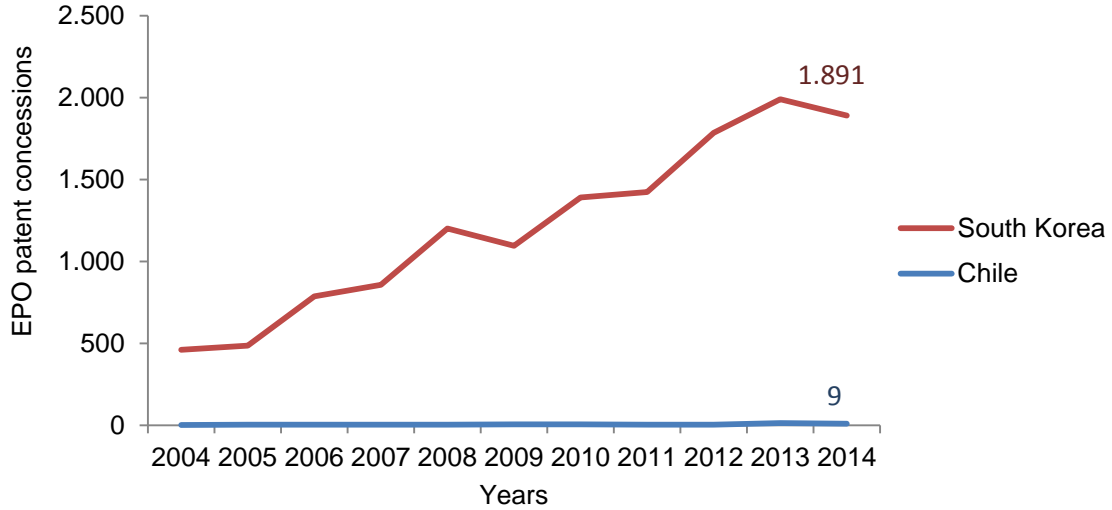
Own preparation. Source: USPTO Website (March 2015) – Concessions [http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst\\_utlh.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst_utlh.htm) and Application [http://www.uspto.gov/web/offices/ac/ido/oeip/taf/appl\\_yr.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/appl_yr.htm)

**Graph 60. Percentage of USPTO patent concessions- Chile**



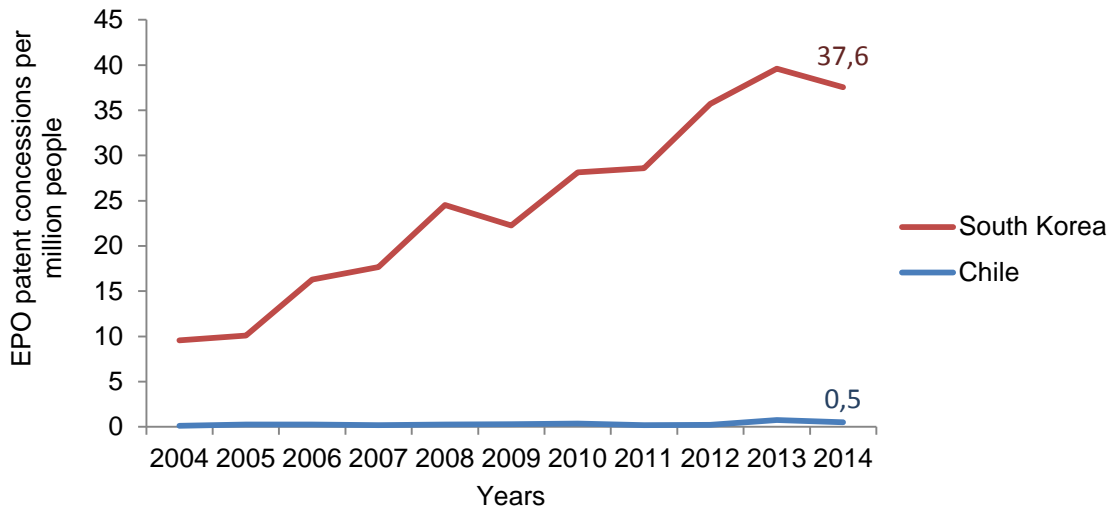
Own preparation. Source: USPTO Website (March 2015) – Concessions [http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst\\_utlh.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst_utlh.htm) and Application [http://www.uspto.gov/web/offices/ac/ido/oeip/taf/appl\\_yr.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/appl_yr.htm)

**Graph 61. EPO patent concessions- Chile - South Korea**



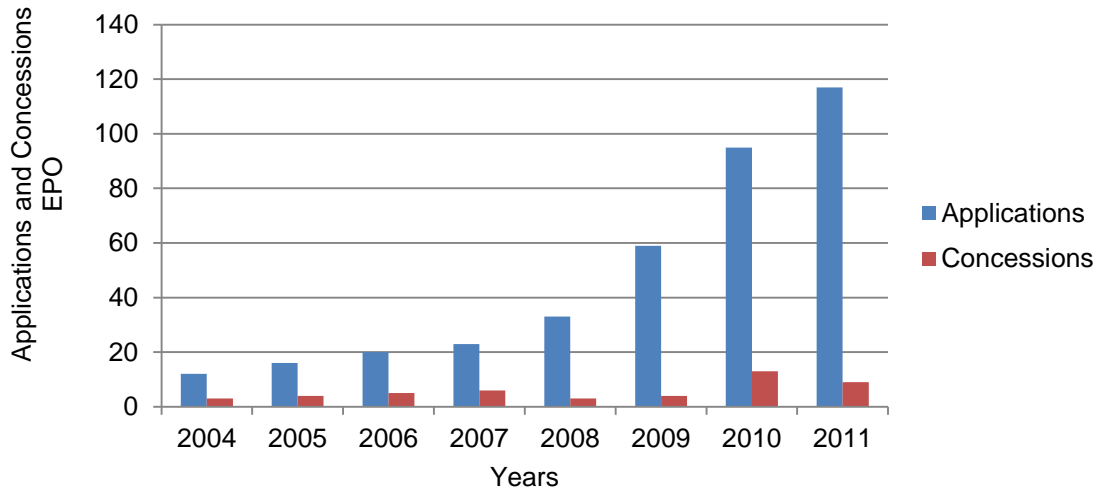
Own preparation. Source: EPO Website (March 2015) <http://www.epo.org/about-us/annual-reports-statistics/statistics.html>

**Graph 62. EPO patent concessions per million people- Chile - South Korea**



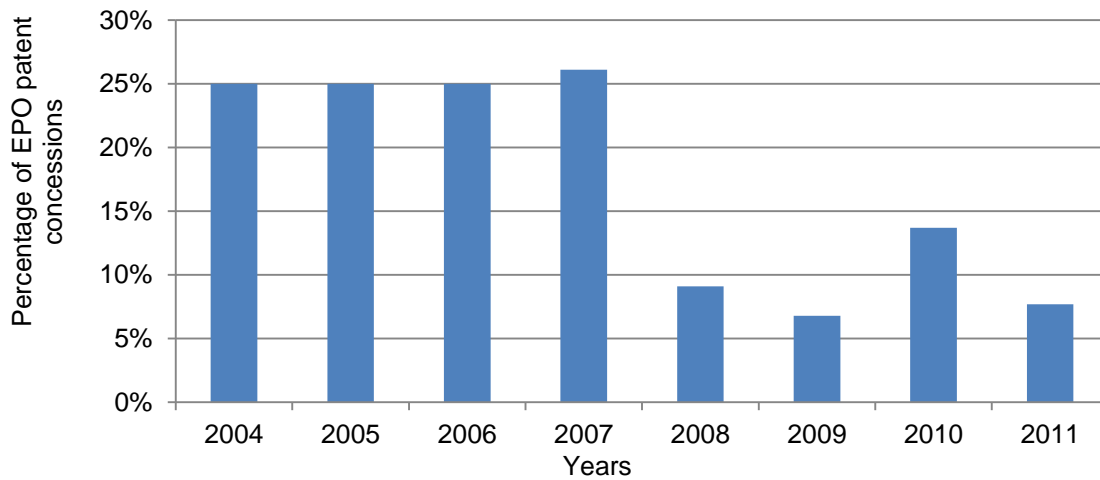
Own preparation. Source: EPO Website (March 2015) <http://www.epo.org/about-us/annual-reports-statistics/statistics.html> and World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 63. Application vs. EPO patent concessions- Chile**



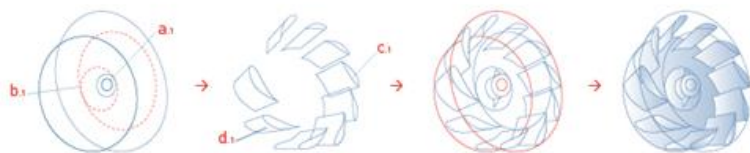
Own preparation. Source: EPO Website (March 2015) <http://www.epo.org/about-us/annual-reports-statistics/statistics.html>

**Graph 64. Percentage of EPO patent concessions- Chile**

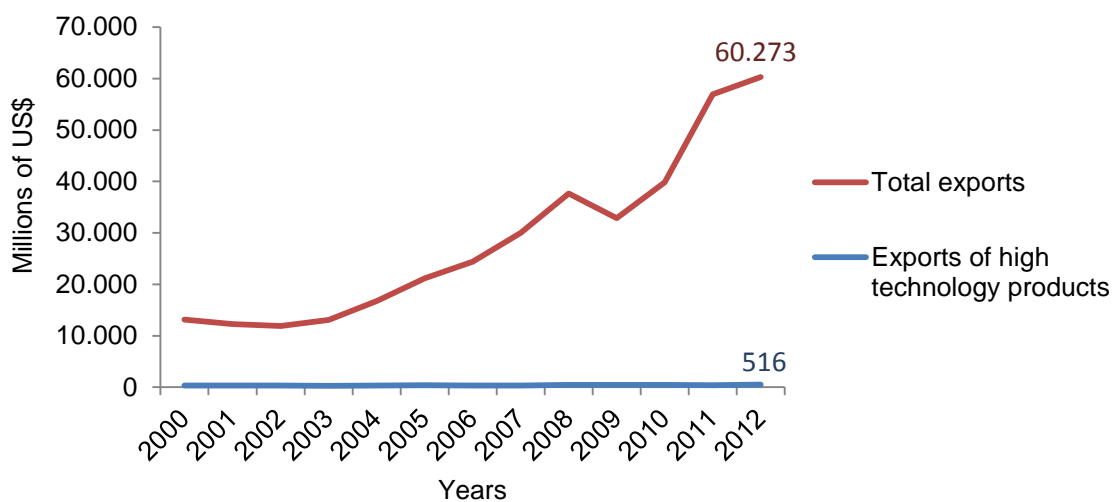


Own preparation. Source: EPO Website (March 2015) <http://www.epo.org/about-us/annual-reports-statistics/statistics.html>

# COLOMBIA

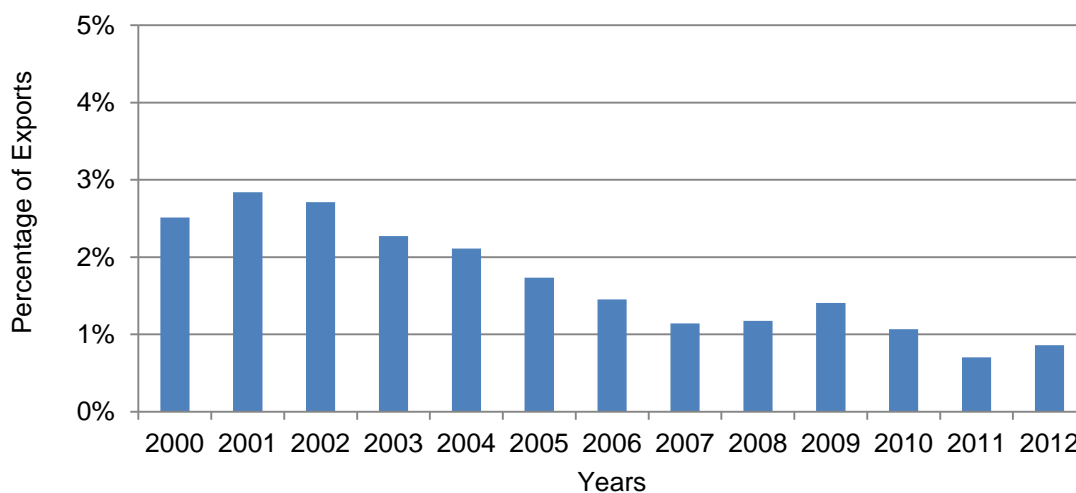


**Graph 65. Total Exports vs. Exports of high technology products- Colombia**



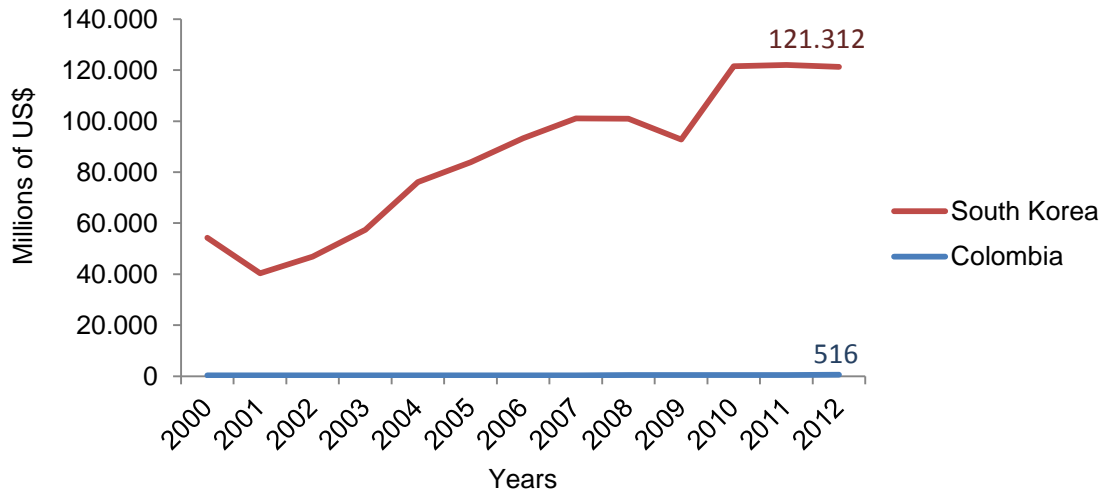
Own preparation. Source: United Nations Statistics Division (March 2015) <http://unstats.un.org/unsd/default.htm> and World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 66. Percentage of Exports of high technology products on total exports - Colombia**



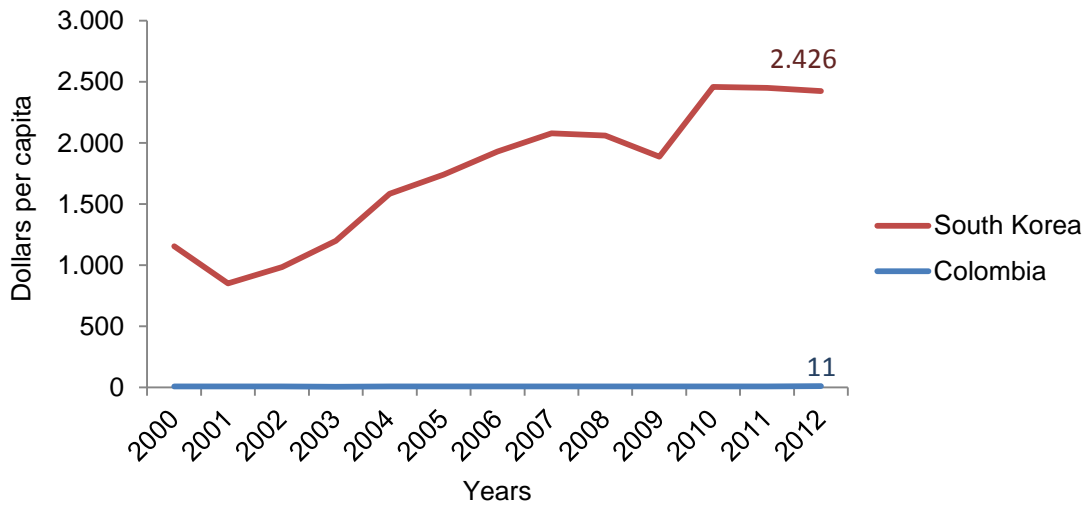
Own preparation. Source: United Nations Statistics Division (March 2015) <http://unstats.un.org/unsd/default.htm> and World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 67. Exports of high technology products- Colombia - South Korea**



Own preparation. Source: World Bank (March 2015) <http://datos.bancomundial.org/>

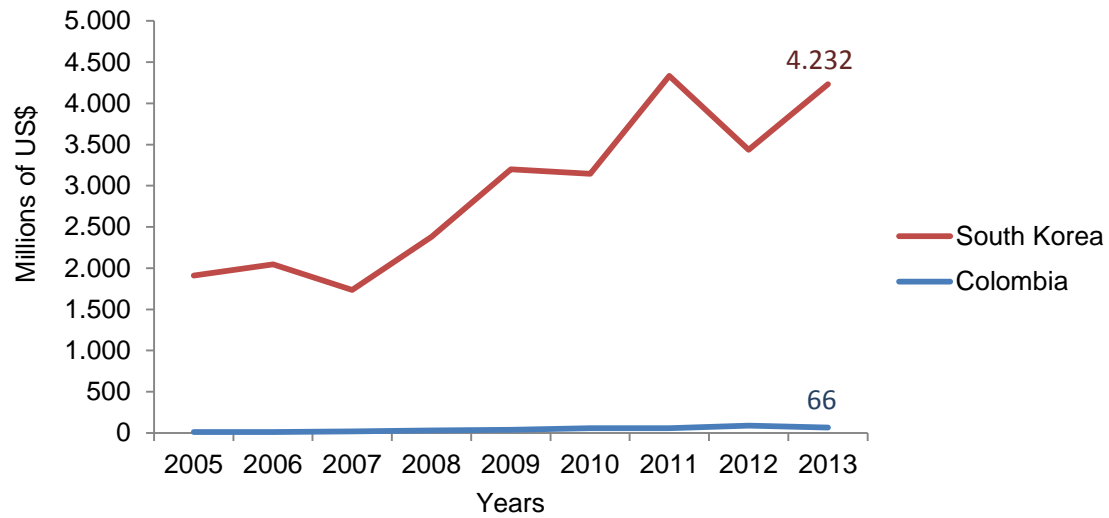
**Graph 68. Exports of high technology products per capita- Colombia - South Korea**



Own preparation. Source: World Bank (March 2015) <http://datos.bancomundial.org/>

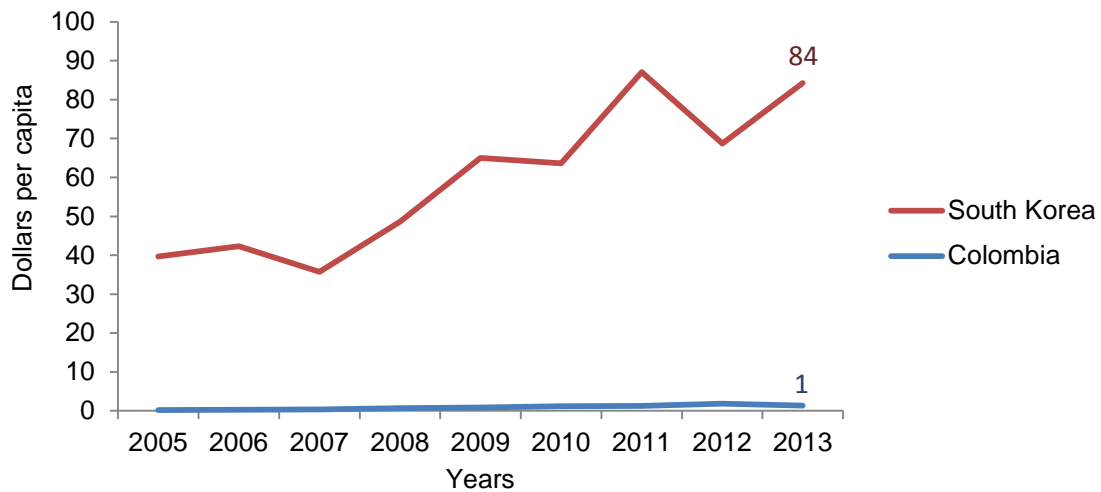


**Graph 69. Royalties for the use of intellectual property- Colombia - South Korea**



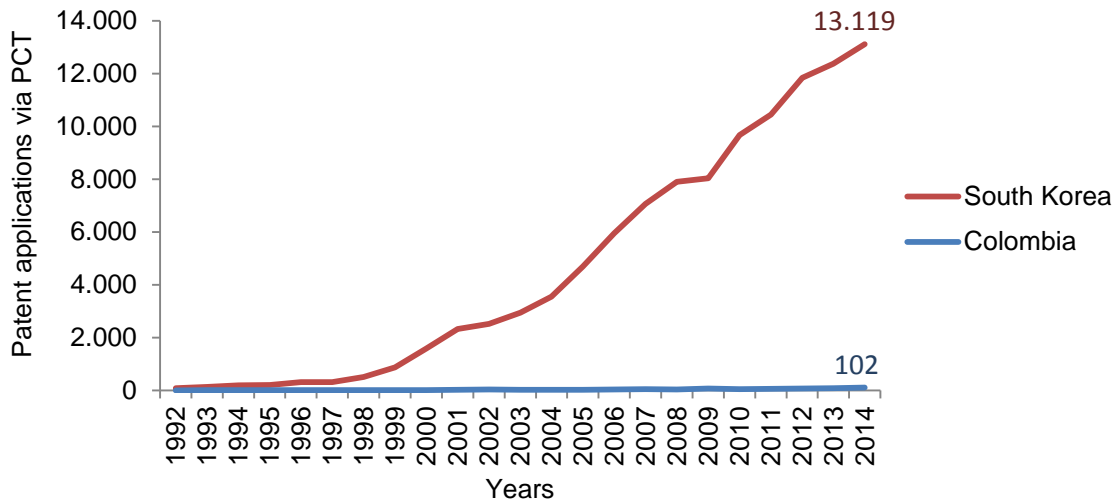
Own preparation. Source: World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 70. Royalties for the use of intellectual property per capita- Colombia - South Korea**



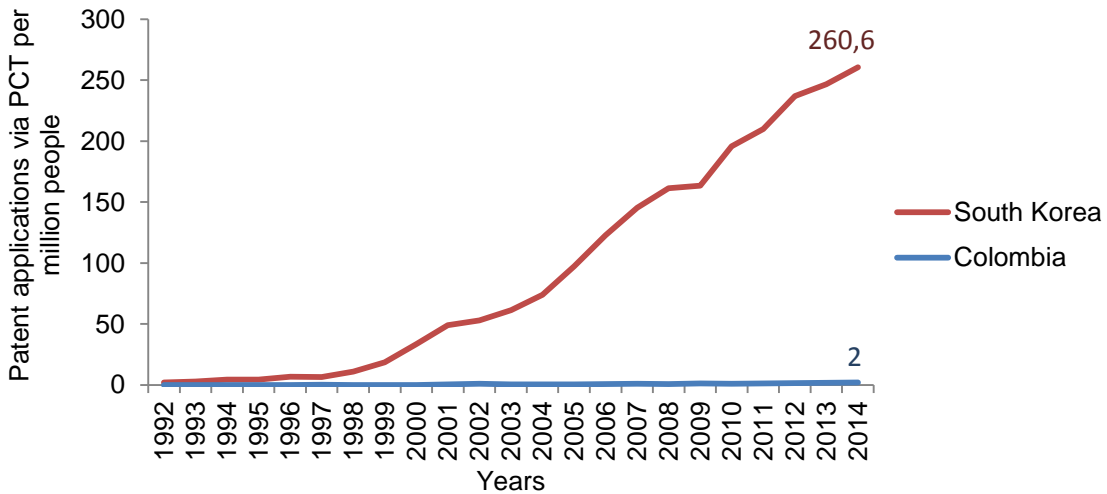
Own preparation. Source: World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 71. Patent applications via PCT- Colombia - South Korea**



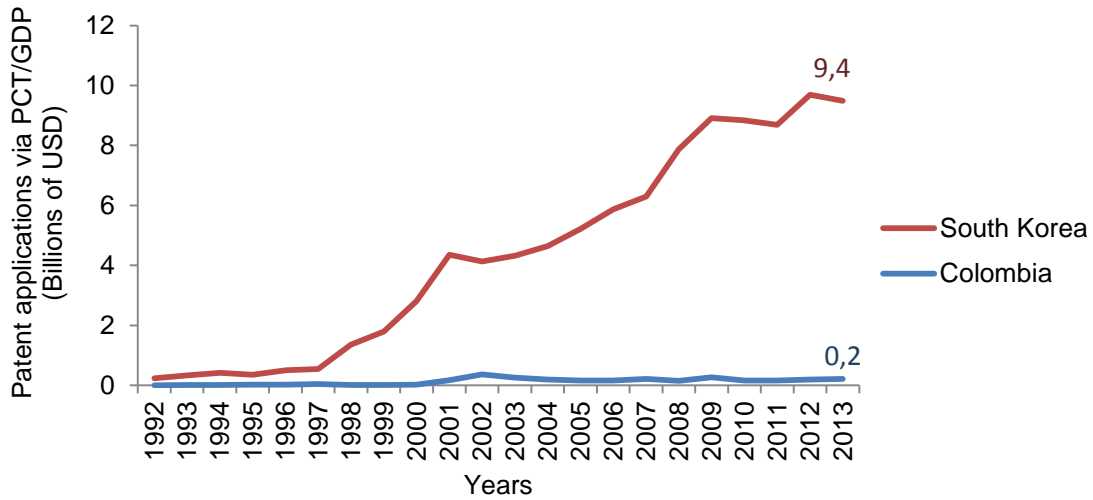
Own preparation. Source: WIPO Website (March 2015) ([www.wipo.int](http://www.wipo.int))

**Graph 72. Patent applications via PCT per million people- Colombia - South Korea**



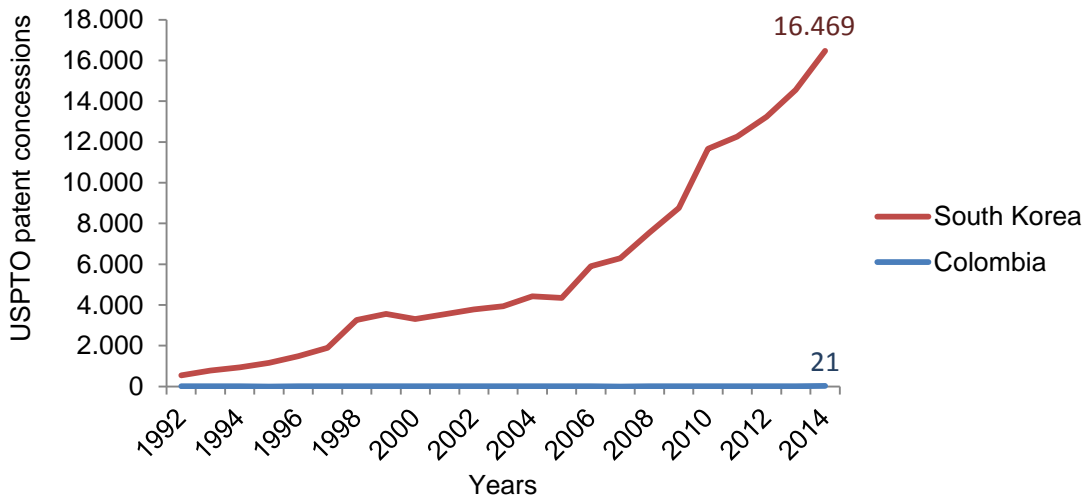
Own preparation. Source: WIPO Website (March 2015) ([www.wipo.int](http://www.wipo.int)) and World Bank (March 2015) (<http://datos.bancomundial.org/>)

**Graph 73. Patent applications via PCT/GDP- Colombia - South Korea**



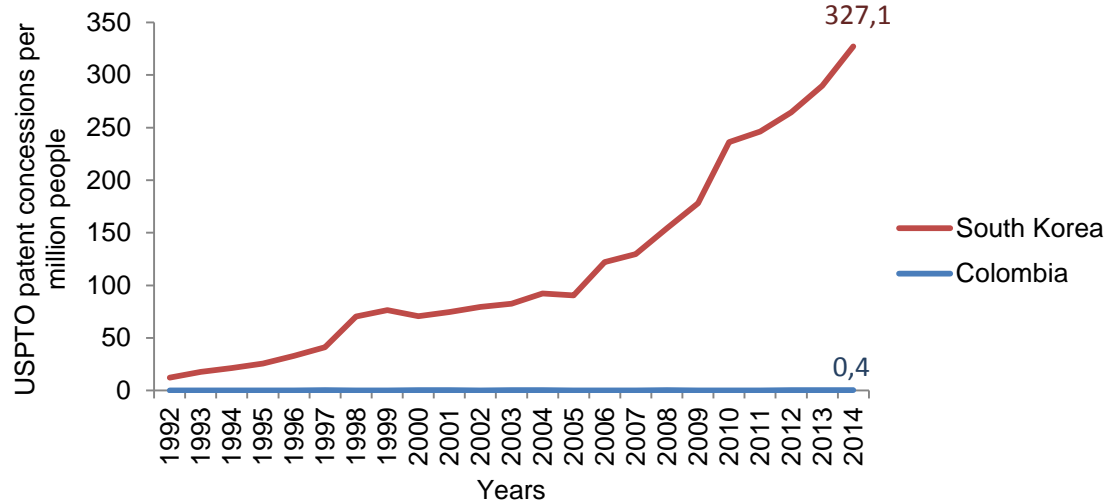
Own preparation. Source: WIPO Website (March 2015) ([www.wipo.int](http://www.wipo.int)) and United Nations Statistics Division (<http://unstats.un.org/>)

**Graph 74. USPTO patent concessions- Colombia - South Korea**



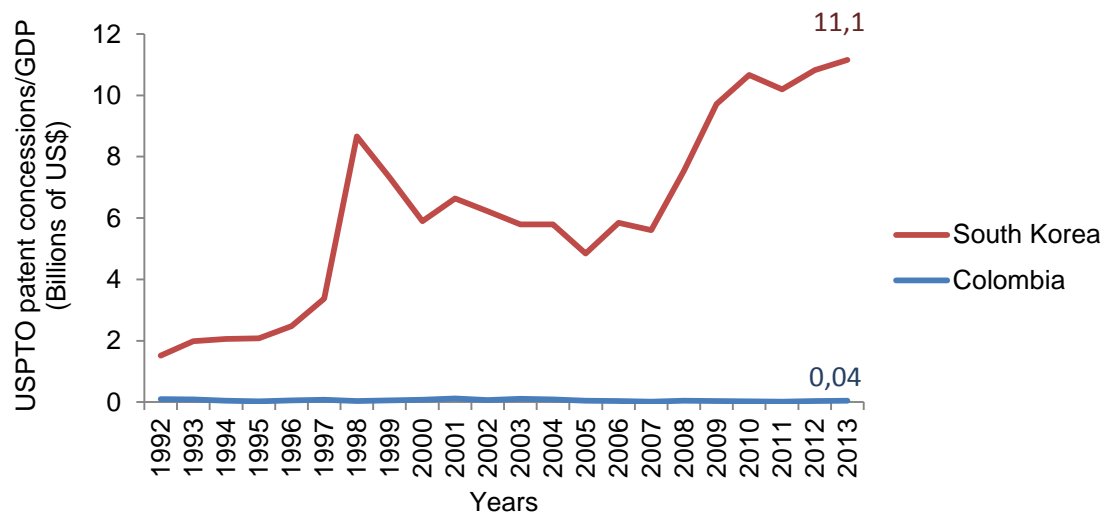
Own preparation. Source: USPTO Website (March 2015) ([http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst\\_utlh.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst_utlh.htm))

**Graph 75. USPTO patent concessions per million people- Colombia - South Korea**



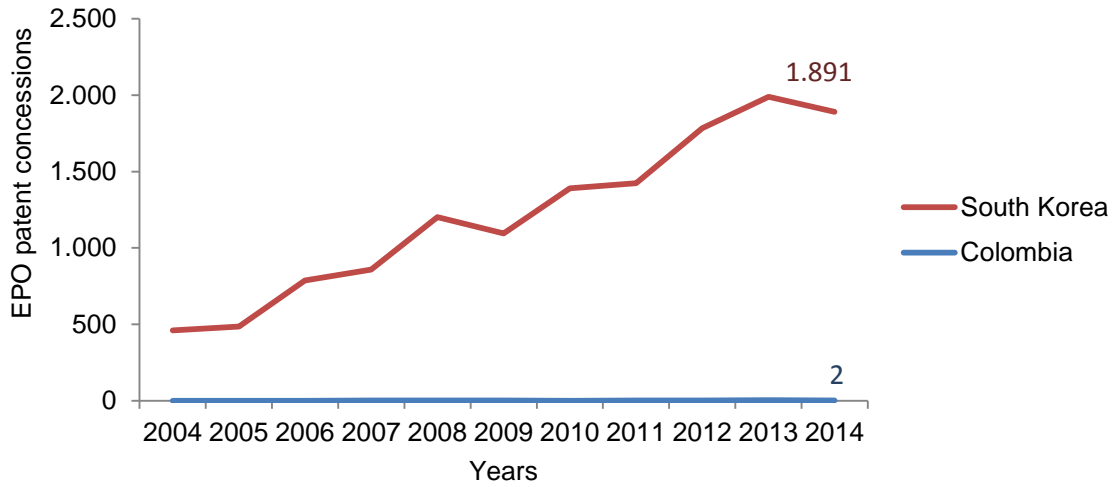
Own preparation. Source: USPTO Website (March 2015) [http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst\\_utlh.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst_utlh.htm) and World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 76. USPTO patent concessions/GDP- Colombia - South Korea**



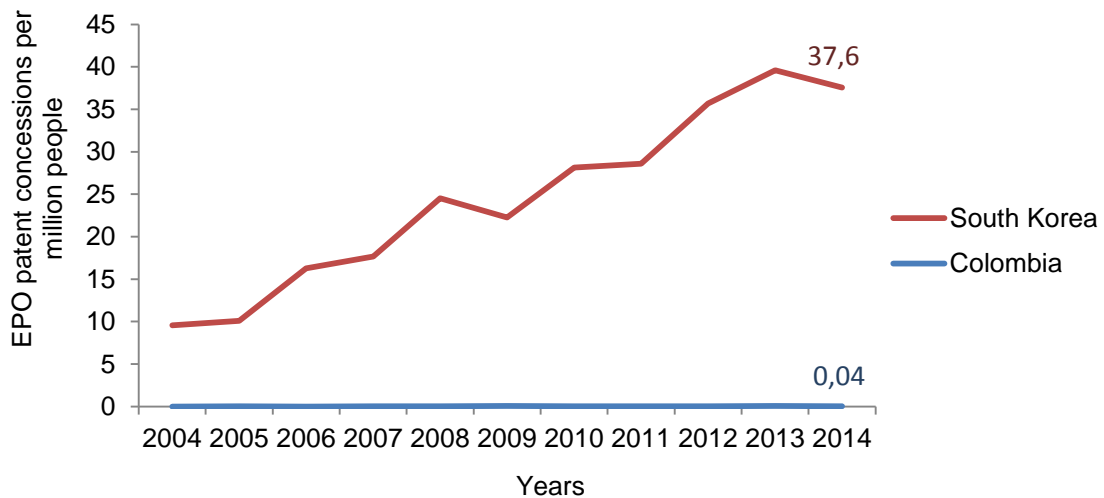
Own preparation. Source: USPTO Website (March 2015) [http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst\\_utlh.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst_utlh.htm) and United Nations Statistics Division <http://unstats.un.org/>

**Graph 77. EPO patent concessions- Colombia - South Korea**



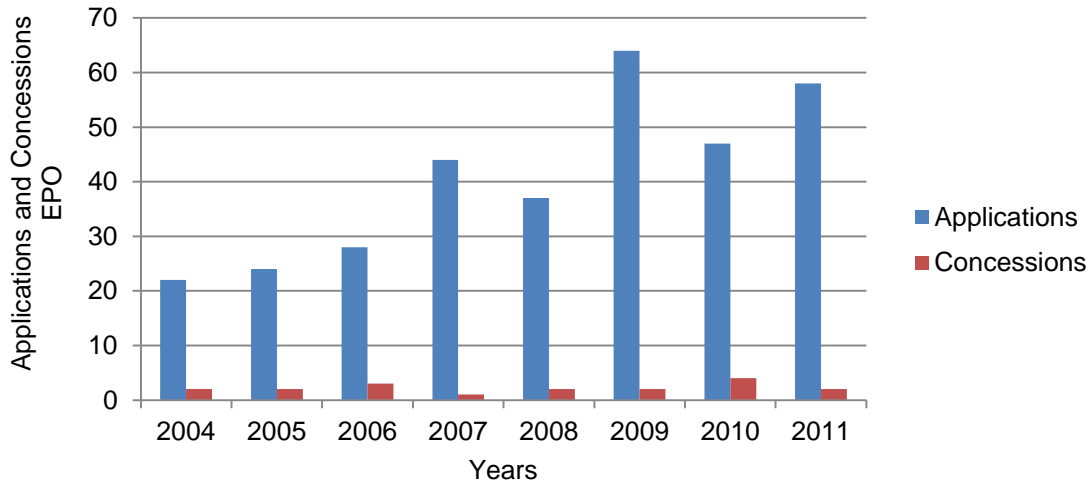
Own preparation. Source: EPO Website (March 2015) <http://www.epo.org/about-us/annual-reports-statistics/statistics.html>

**Graph 78. EPO patent concessions per million people- Colombia - South Korea**



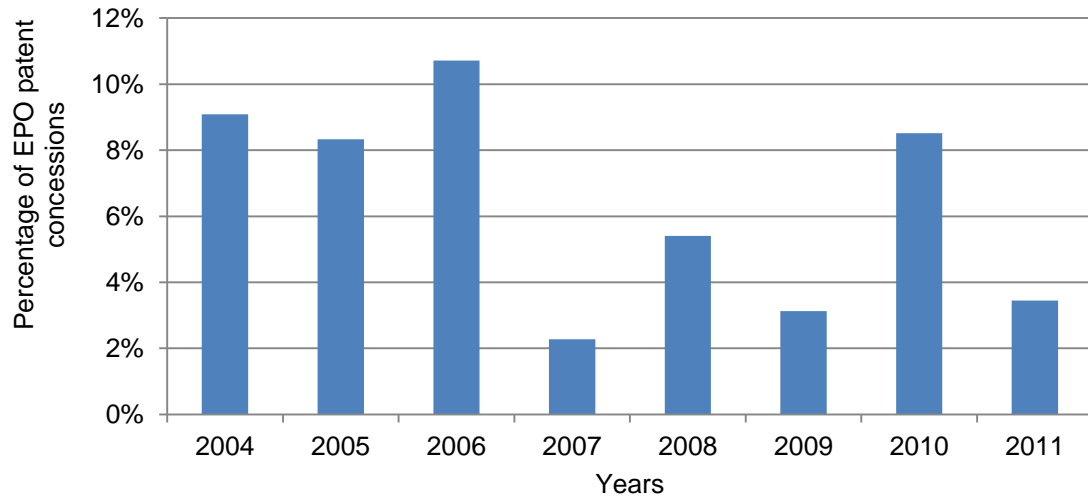
Own preparation. Source: EPO Website (March 2015) <http://www.epo.org/about-us/annual-reports-statistics/statistics.html> and World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 79. Application vs. EPO patent concessions- Colombia**



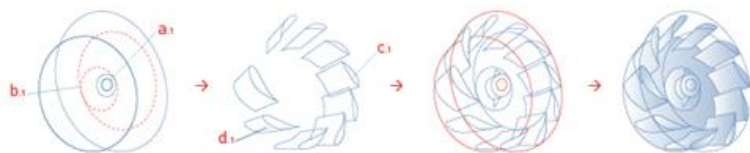
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**Graph 80. Percentage of EPO patent concessions - Colombia**

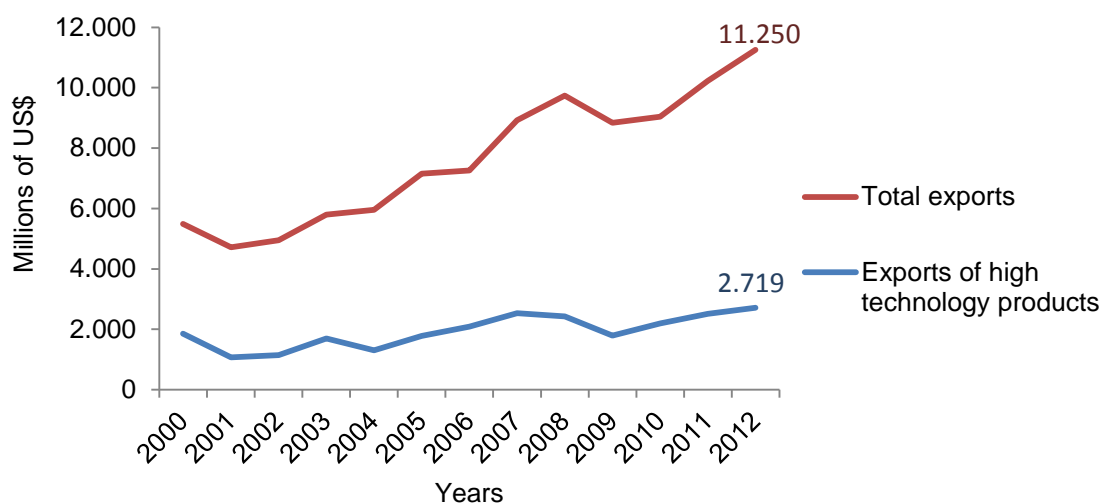


Own preparation. Source: EPO Website (March 2015) <http://www.epo.org/about-us/annual-reports-statistics/statistics.html>

# COSTA RICA

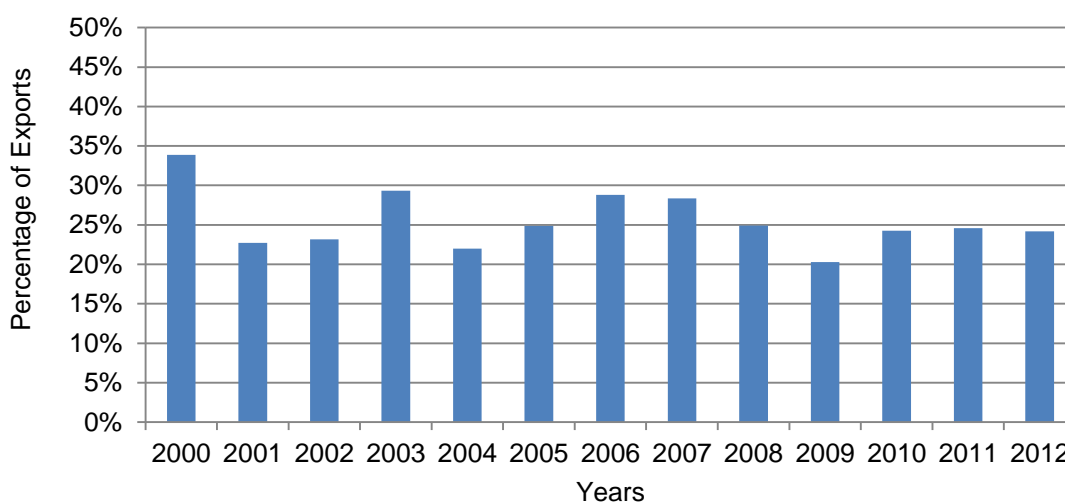


**Graph 81. Total Exports vs. Exports of high technology products- Costa Rica**



Own preparation. Source: United Nations Statistics Division (March 2015) <http://unstats.un.org/unsd/default.htm> and World Bank (March 2015) <http://datos.bancomundial.org/>

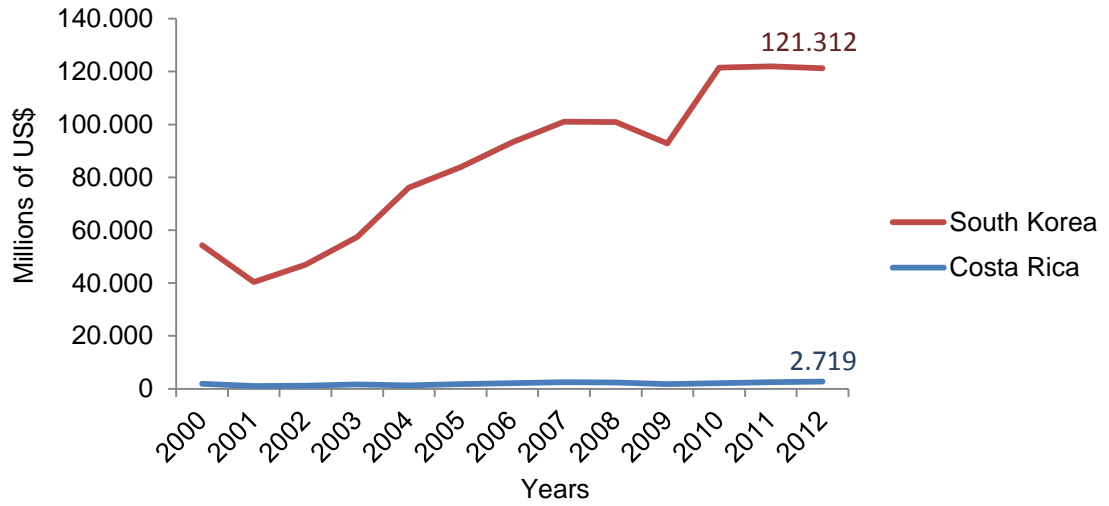
**Graph 82. Percentage of Exports of high technology products on total exports - Costa Rica**



Own preparation. Source: United Nations Statistics Division (March 2015) <http://unstats.un.org/unsd/default.htm> and World Bank (March 2015) <http://datos.bancomundial.org/>

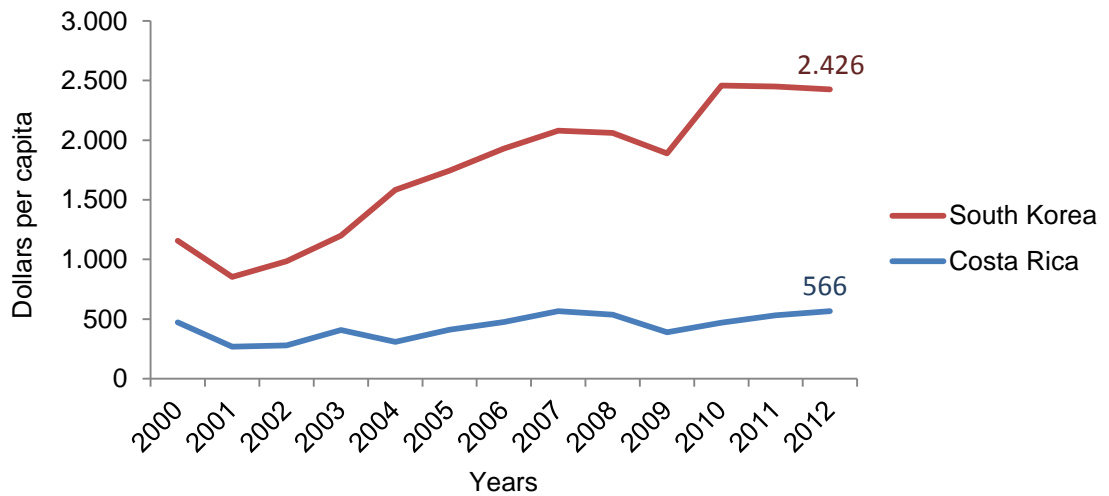


**Graph 83. Exports of high technology products- Costa Rica - South Korea**



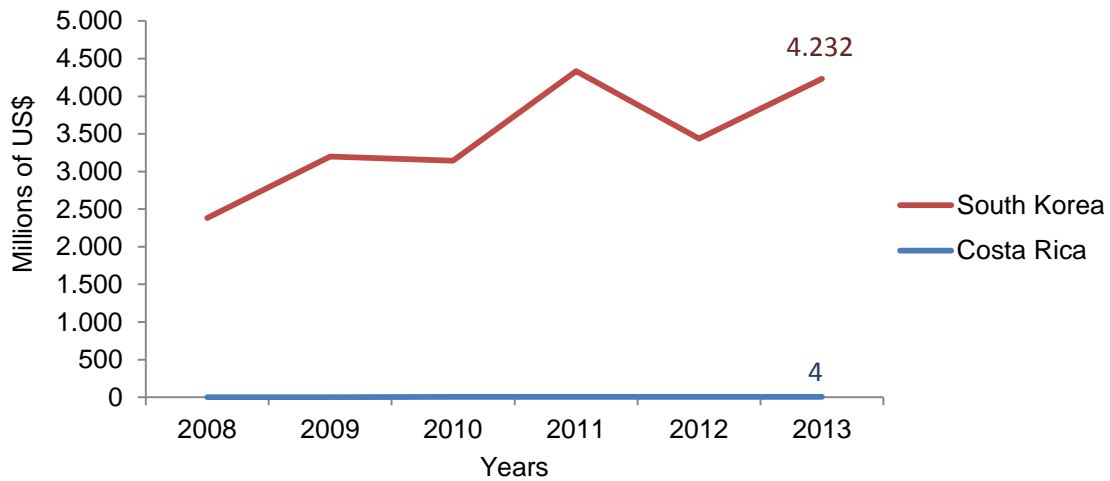
Own preparation. Source: World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 84. Exports of high technology products per capita- Costa Rica - South Korea**



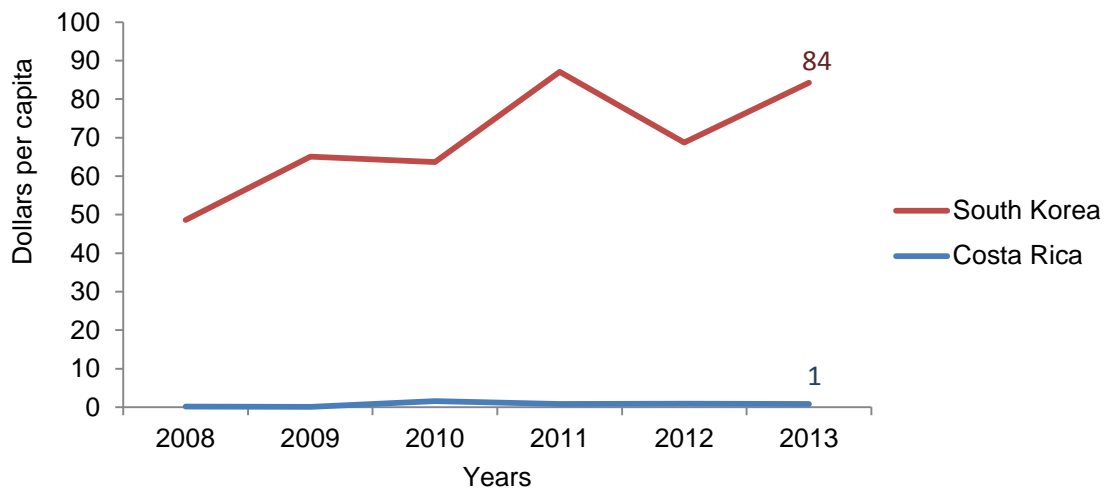
Own preparation. Source: World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 85. Royalties for the use of intellectual property- Costa Rica - South Korea**



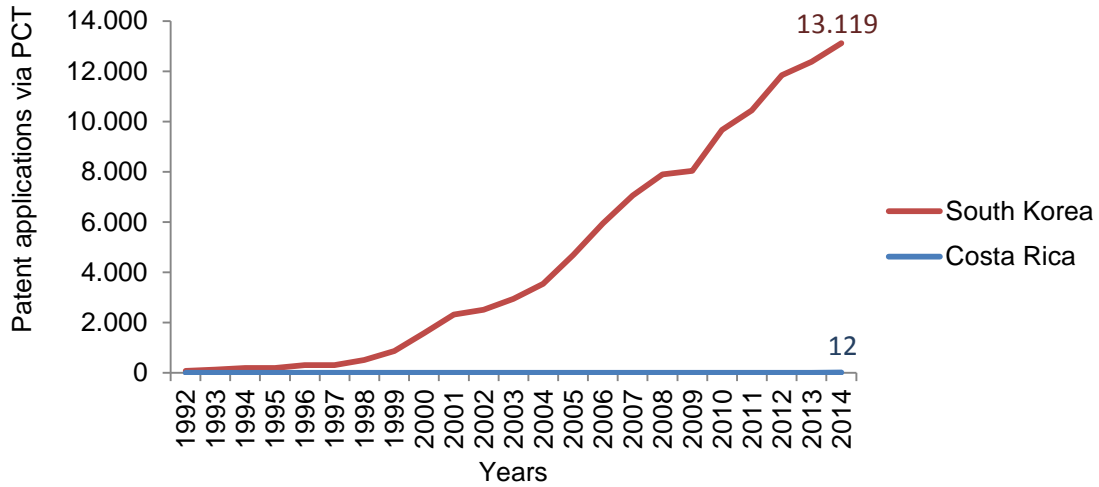
Own preparation. Source: World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 86. Royalties for the use of intellectual property per capita- Costa Rica - South Korea**



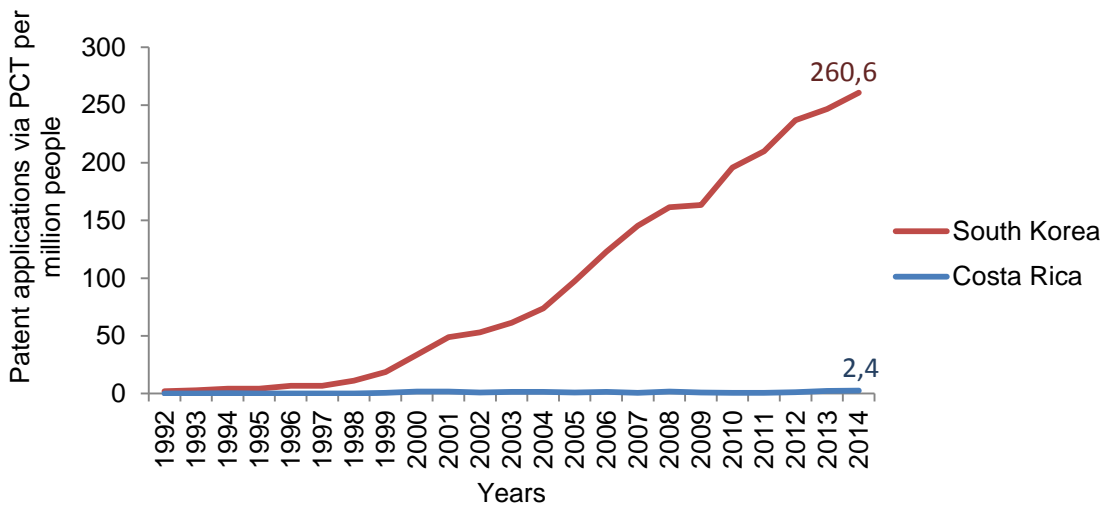
Own preparation. Source: World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 87. Patent applications via PCT- Costa Rica - South Korea**



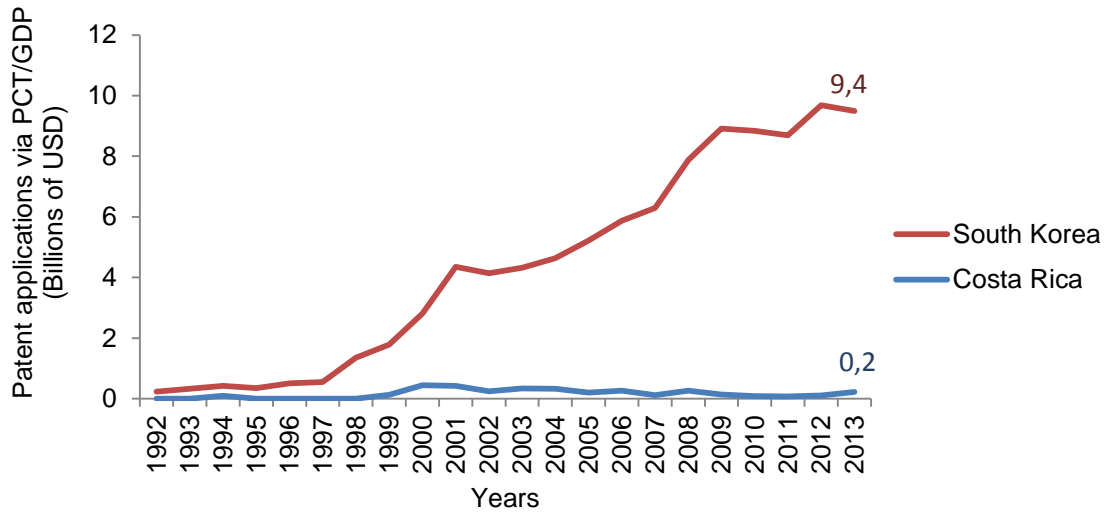
Own preparation. Source: WIPO Website (March 2015) ([www.wipo.int](http://www.wipo.int))

**Graph 88. Patent applications via PCT per million people- Costa Rica - South Korea**



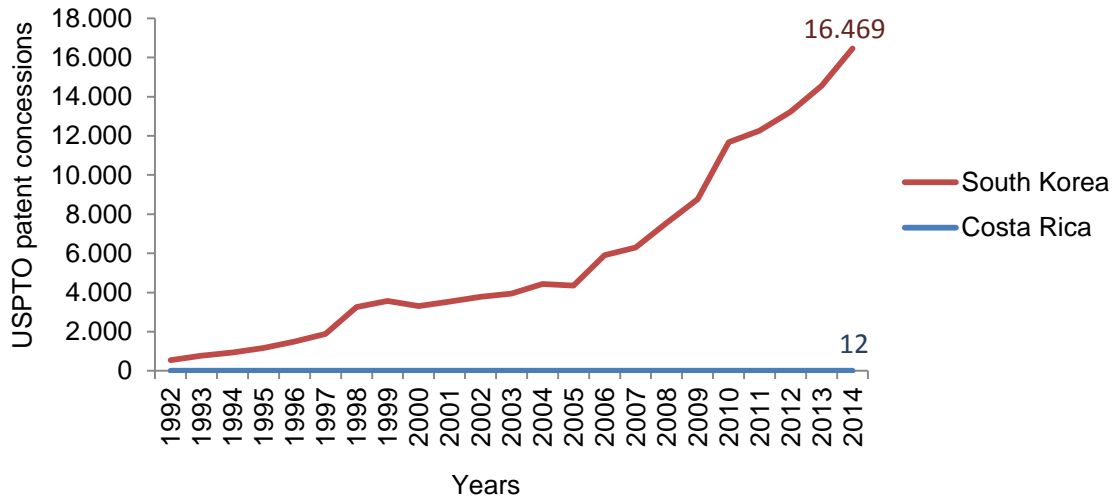
Own preparation. Source: WIPO Website (March 2015) ([www.wipo.int](http://www.wipo.int)) and World Bank (March 2015) (<http://datos.bancomundial.org/>)

**Graph 89. Patent applications via PCT/GDP- Costa Rica - South Korea**



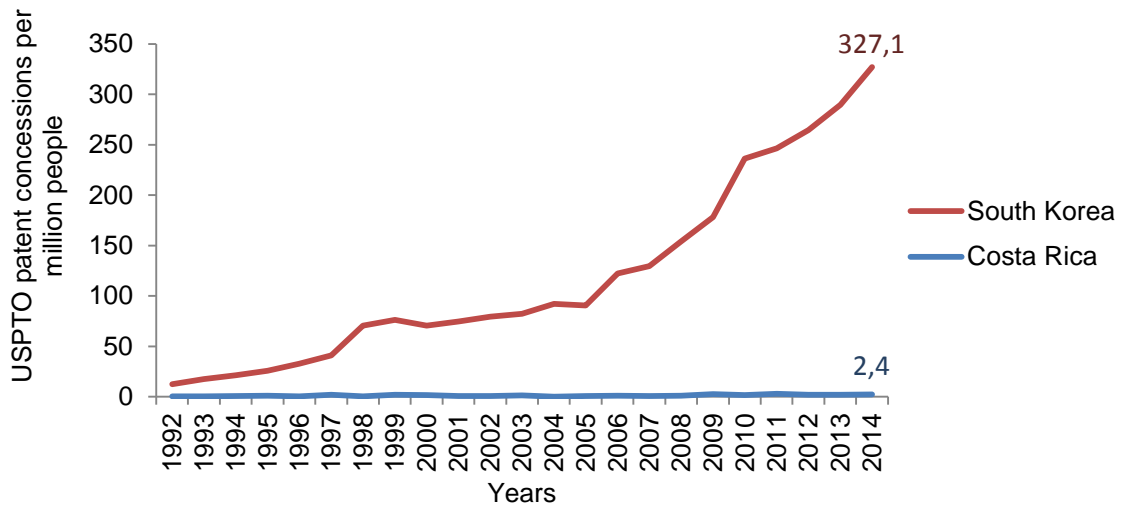
Own preparation. Source: WIPO Website (March 2015) ([www.wipo.int](http://www.wipo.int)) and United Nations Statistics Division (<http://unstats.un.org/>)

**Graph 90. USPTO patent concessions- Costa Rica - South Korea**



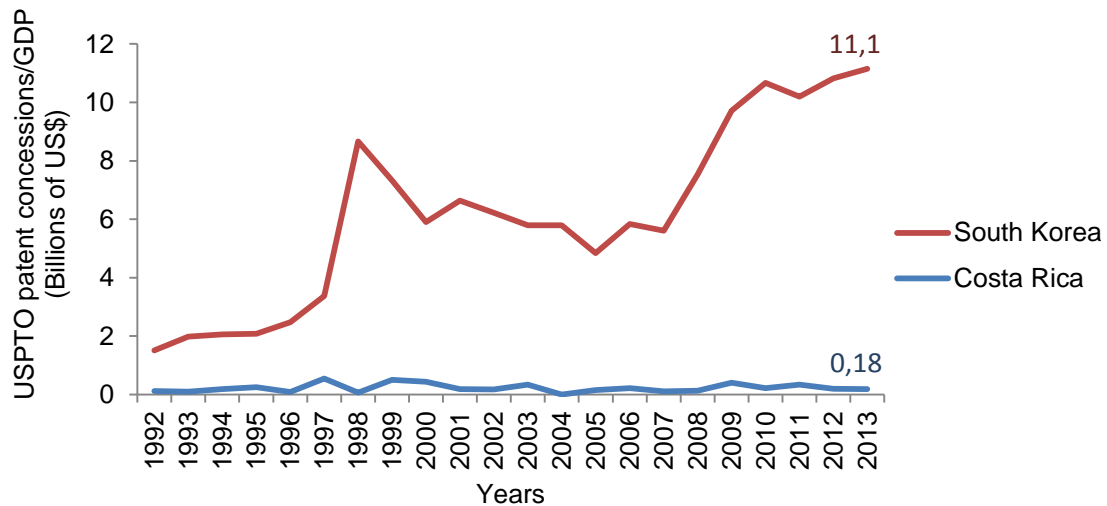
Own preparation. Source: USPTO Website (March 2015) ([http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst\\_utlh.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst_utlh.htm))

**Graph 91. USPTO patent concessions per million people- Costa Rica - South Korea**



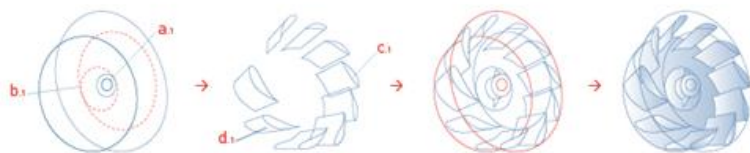
Own preparation. Source: USPTO Website (March 2015) [http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst\\_utlh.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst_utlh.htm) and World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 92. USPTO patent concessions/GDP- Costa Rica - South Korea**

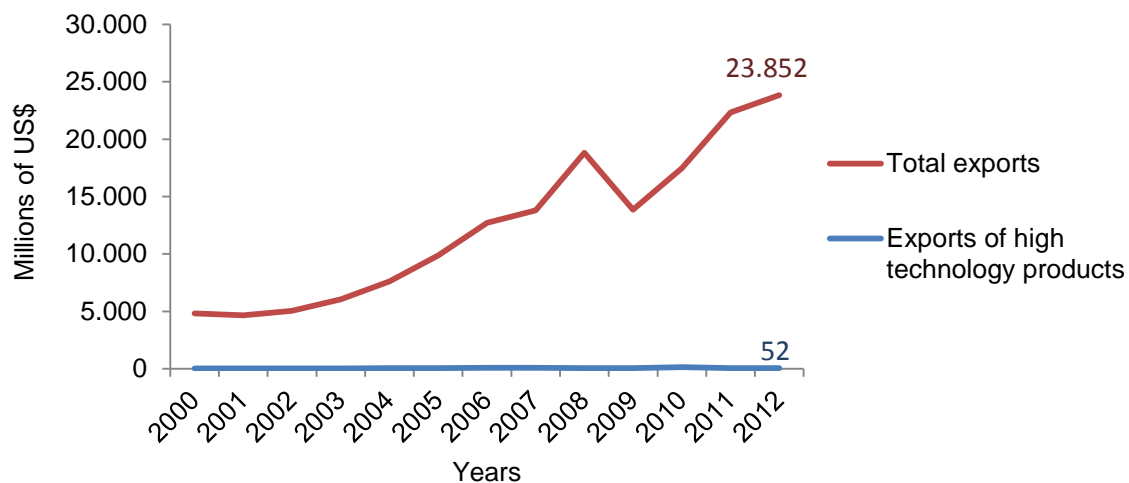


Own preparation. Source: USPTO Website (March 2015) [http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst\\_utlh.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst_utlh.htm) and United Nations Statistics Division (March 2015) <http://unstats.un.org/>

# ECUADOR

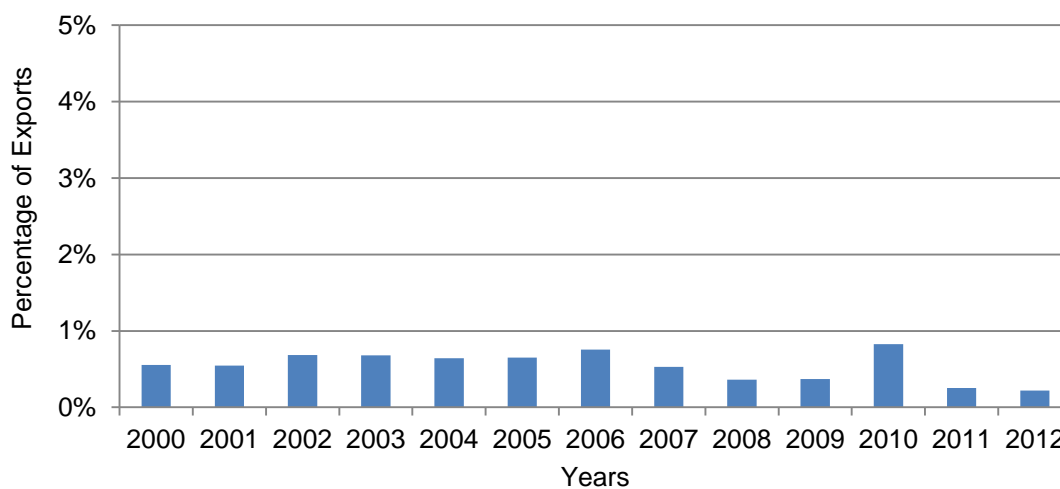


**Graph 93. Total Exports vs. Exports of high technology products- Ecuador**



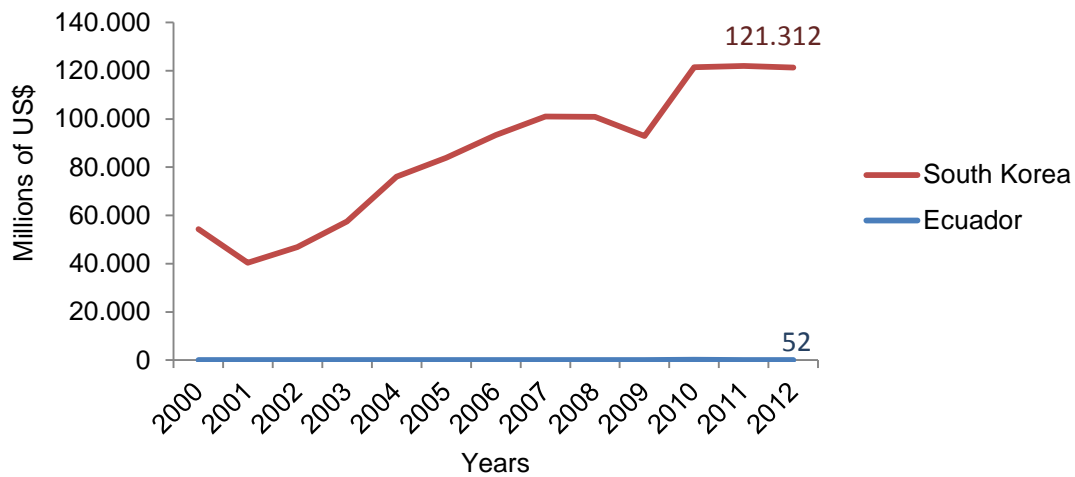
Own preparation. Source: United Nations Statistics Division (March 2015) <http://unstats.un.org/unsd/default.htm> and World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 94. Percentage of Exports of high technology products on total exports - Ecuador**



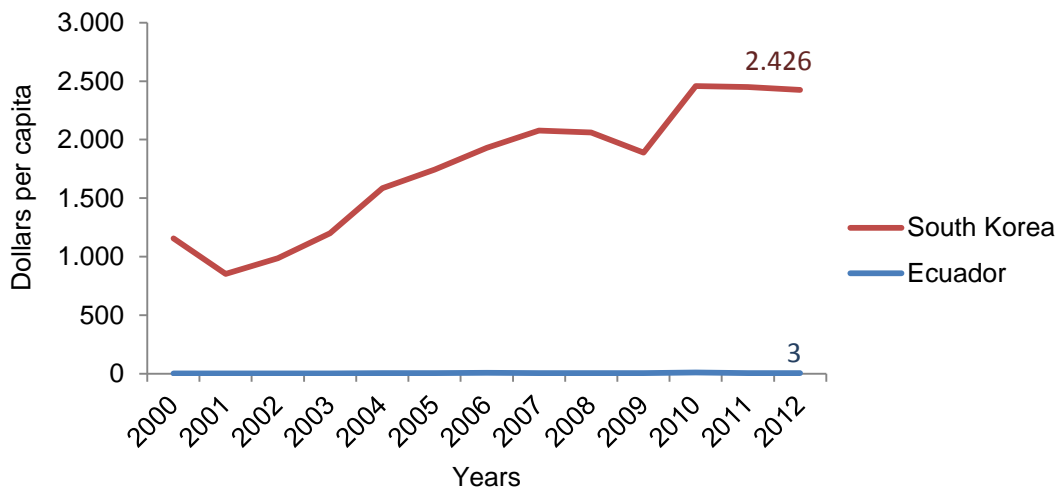
Own preparation. Source: United Nations Statistics Division (March 2015) <http://unstats.un.org/unsd/default.htm> and World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 95. Exports of high technology products- Ecuador - South Korea**



Own preparation. Source: World Bank (March 2015) <http://datos.bancomundial.org/>

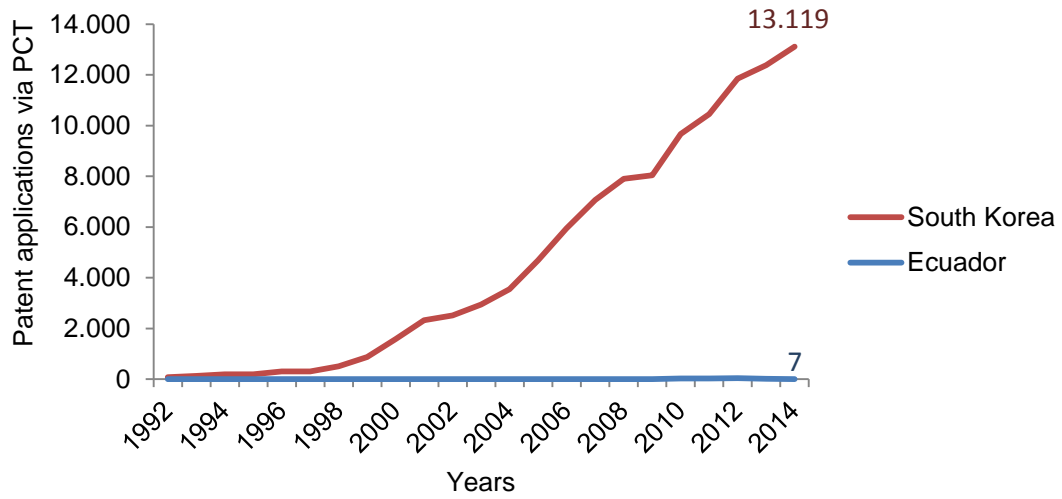
**Graph 96. Exports of high technology products per capita- Ecuador - South Korea**



Own preparation. Source: World Bank (March 2015) <http://datos.bancomundial.org/>

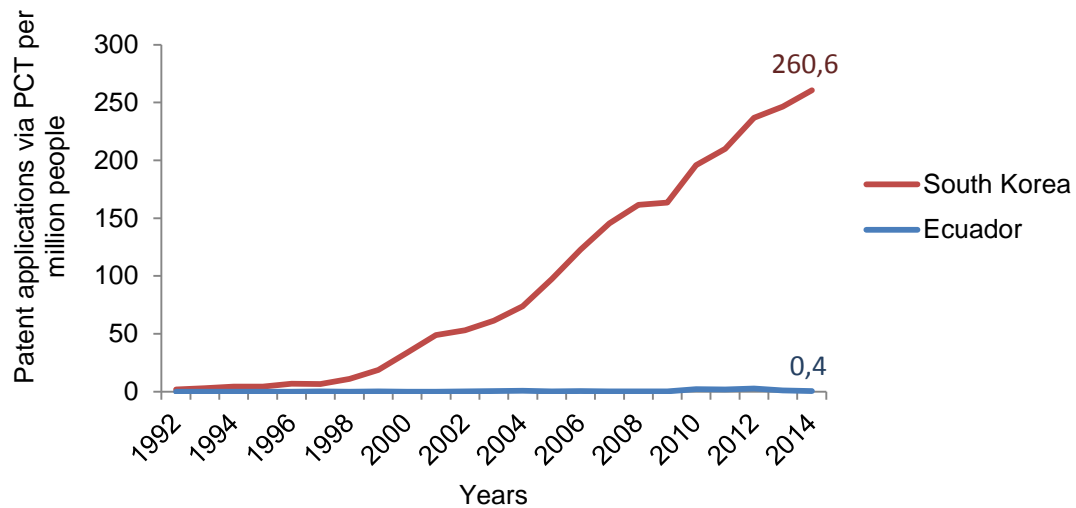


**Graph 97. Patent applications via PCT- Ecuador - South Korea**



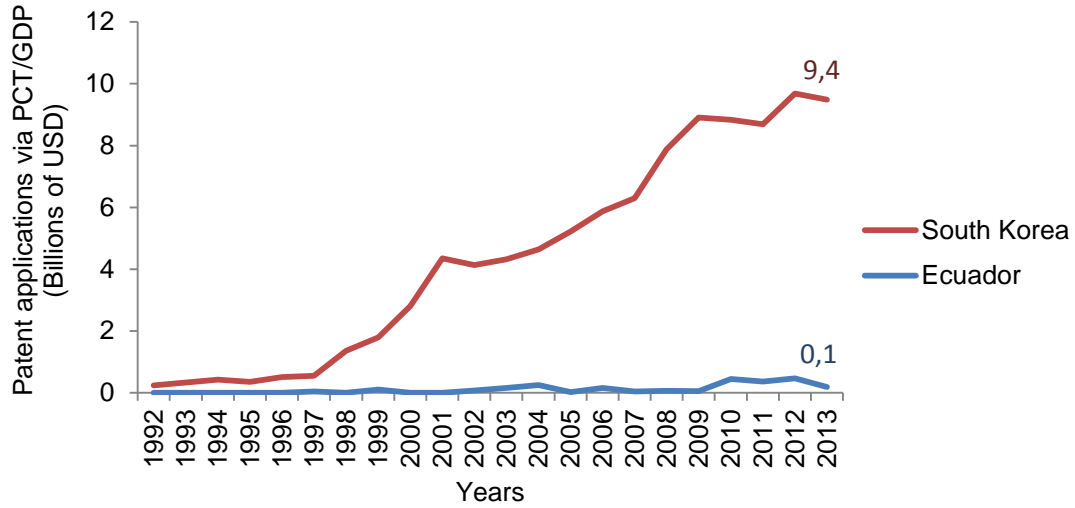
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**Graph 98. Patent applications via PCT per million people- Ecuador - South Korea**



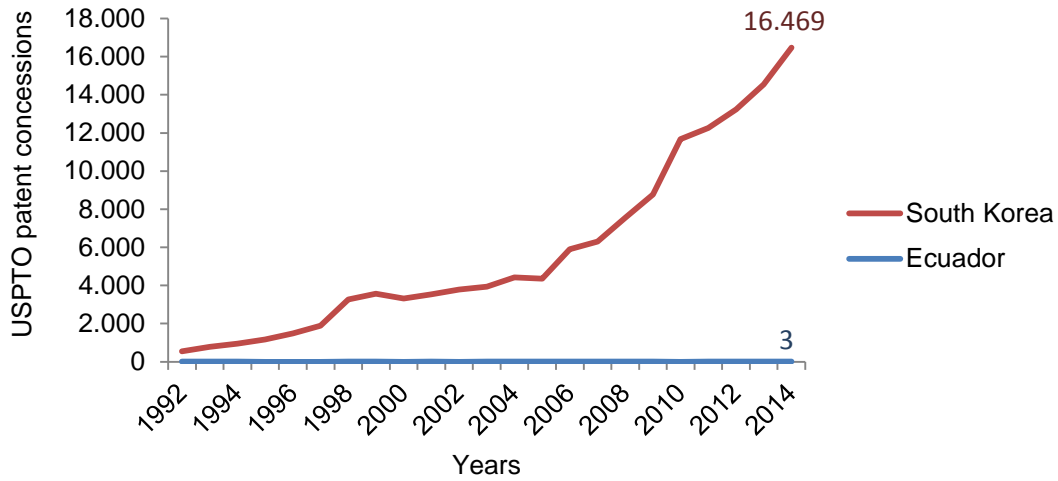
Own preparation. Source: WIPO Website (March 2015) ([www.wipo.int](http://www.wipo.int)) and World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 99. Patent applications via PCT/GDP- Ecuador - South Korea**



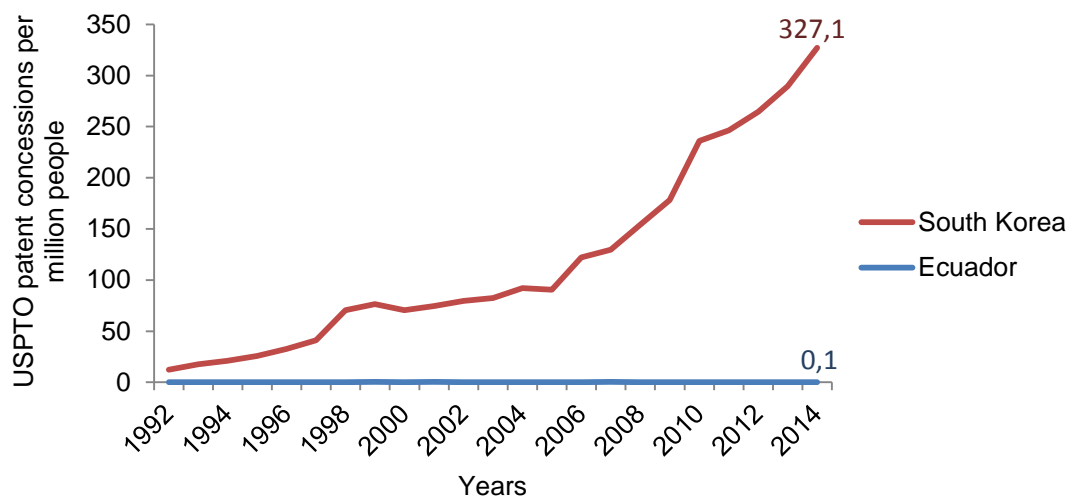
Own preparation. Source: WIPO Website (March 2015) ([www.wipo.int](http://www.wipo.int)) and United Nations Statistics Division (<http://unstats.un.org/>)

**Graph 100. USPTO patent concessions- Ecuador - South Korea**



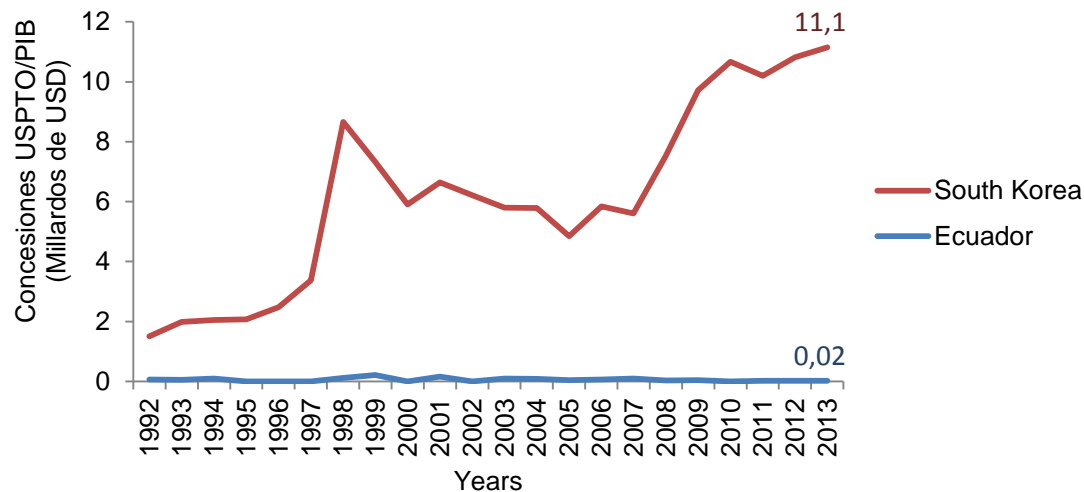
Own preparation. Source: USPTO Website (March 2015) ([http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst\\_utlh.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst_utlh.htm))

**Graph 101. USPTO patent concessions per million people- Ecuador - South Korea**



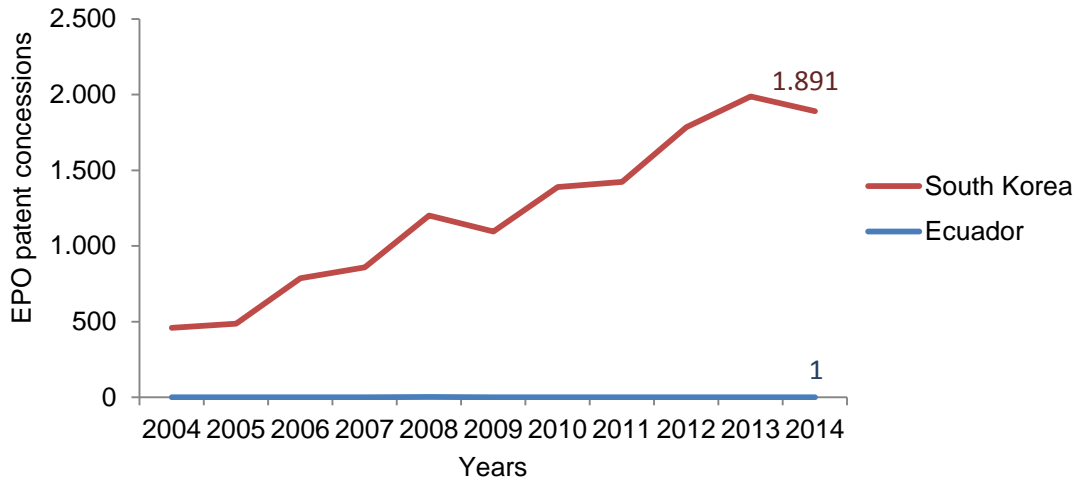
Own preparation. Source: USPTO Website (March 2015) [http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst\\_utlh.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst_utlh.htm) and World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 102. USPTO patent concessions/GDP- Ecuador - South Korea**



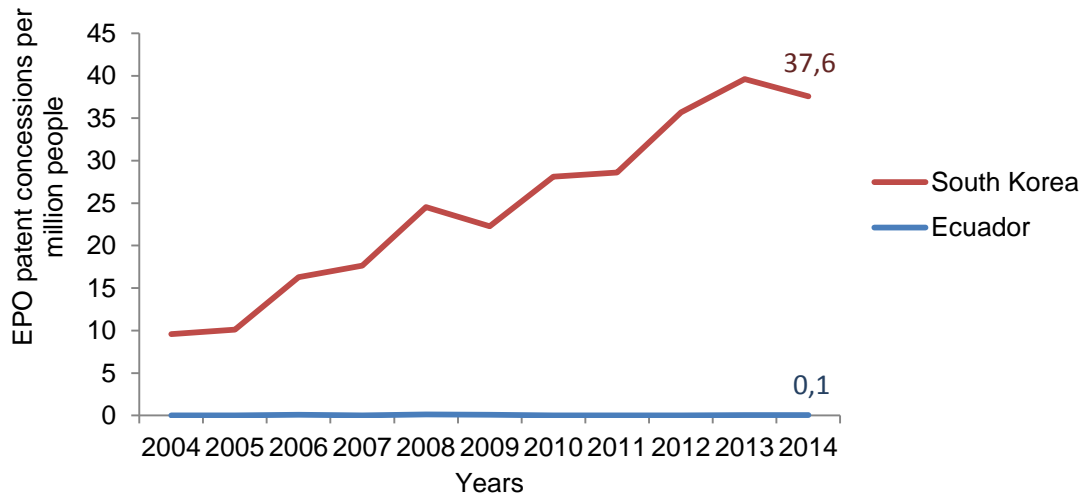
Own preparation. Source: USPTO Website (March 2015) [http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst\\_utlh.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst_utlh.htm) and United Nations Statistics Division (March 2015) <http://unstats.un.org/>

**Graph 103. EPO patent concessions- Ecuador - South Korea**



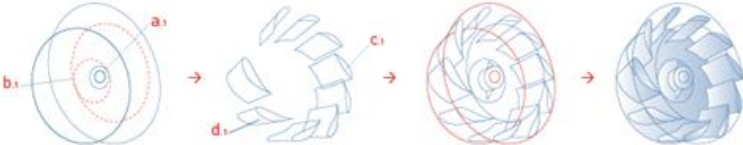
Own preparation. Source: EPO Website (March 2015) <http://www.epo.org/about-us/annual-reports-statistics/statistics.html>

**Graph 104. EPO patent concessions per million people- Ecuador - South Korea**

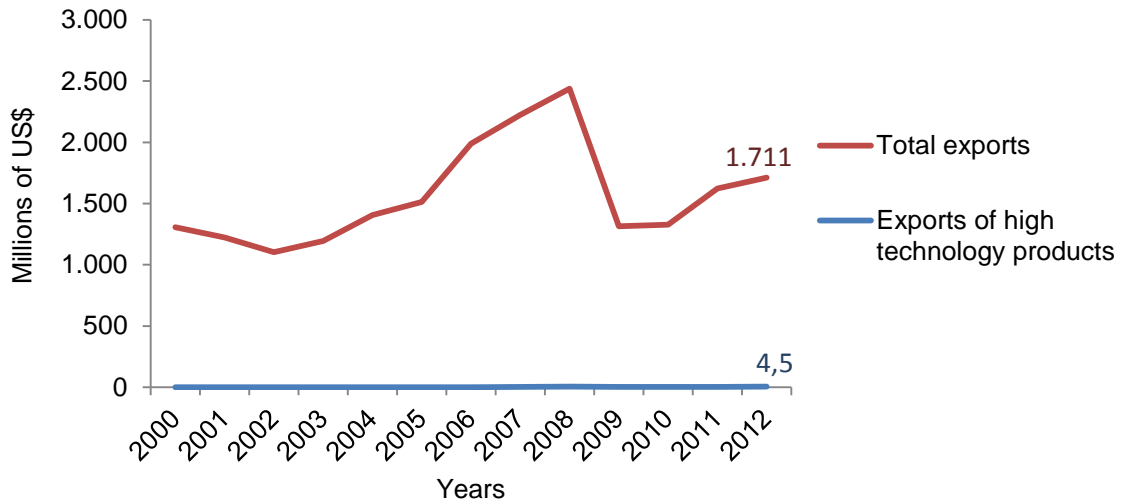


Own preparation. Source: EPO Website (March 2015) <http://www.epo.org/about-us/annual-reports-statistics/statistics.html> and World Bank (March 2015) <http://datos.bancomundial.org/>

# JAMAICA

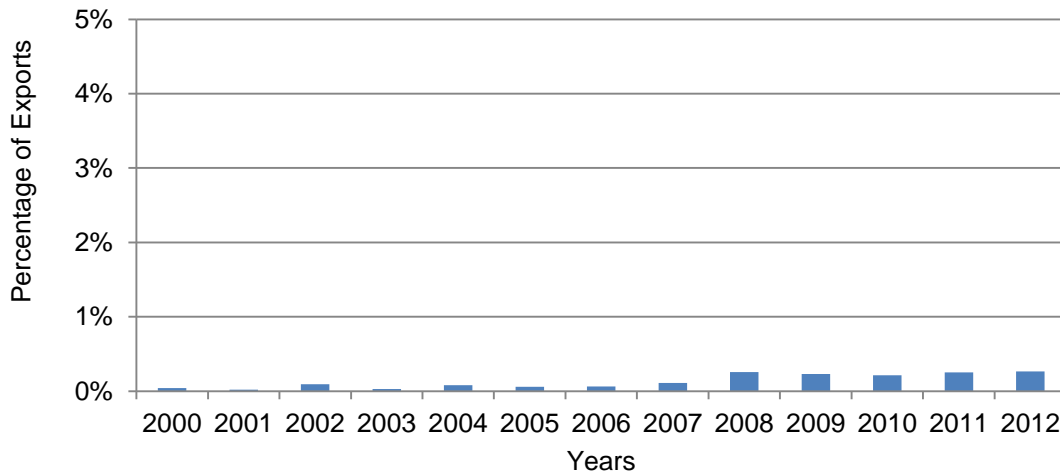


**Graph 105. Total Exports vs. Exports of high technology products- Jamaica**



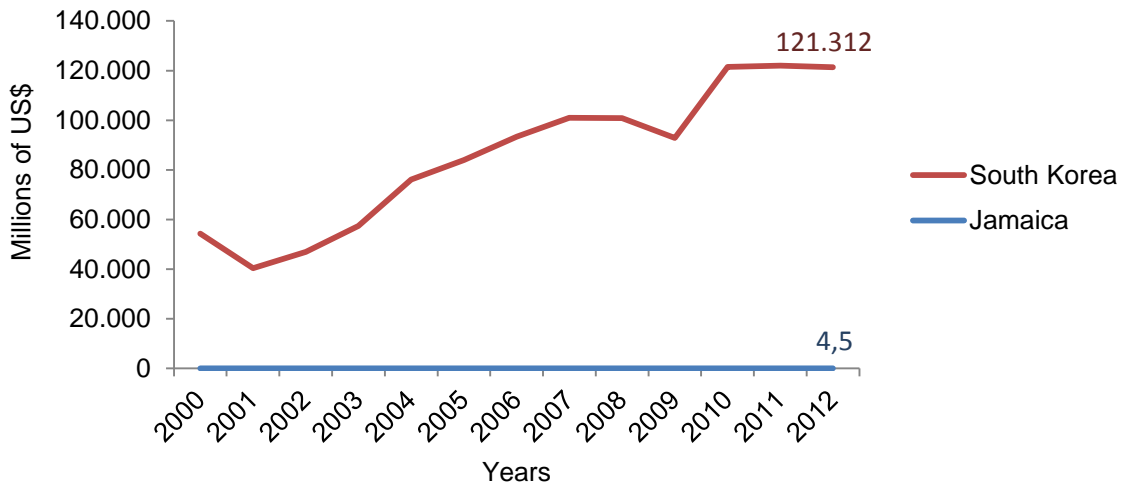
Own preparation. Source: United Nations Statistics Division (March 2015) <http://unstats.un.org/unsd/default.htm> and World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 106. Percentage of Exports of high technology products on total exports - Jamaica**



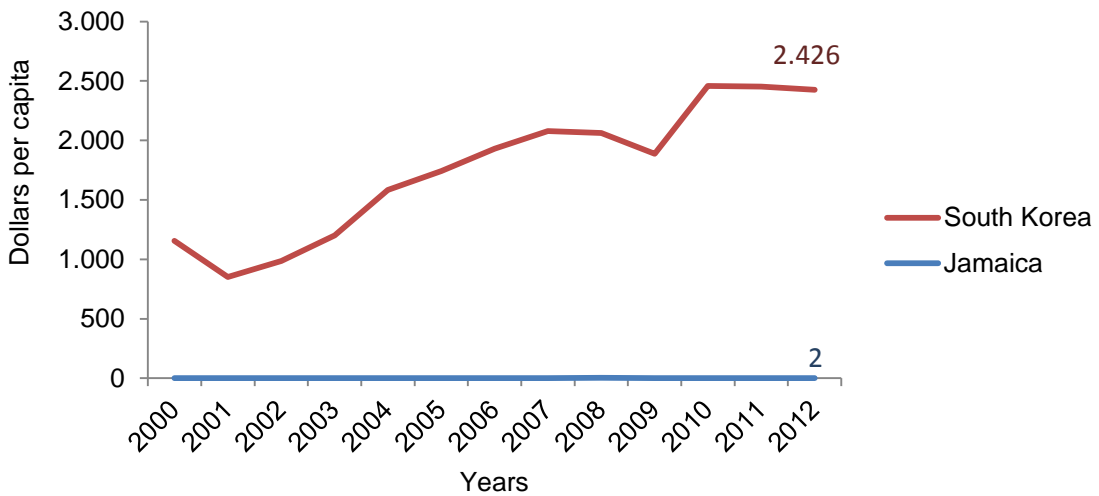
Own preparation. Source: United Nations Statistics Division (March 2015) <http://unstats.un.org/unsd/default.htm> and World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 107. Exports of high technology products- Jamaica - South Korea**



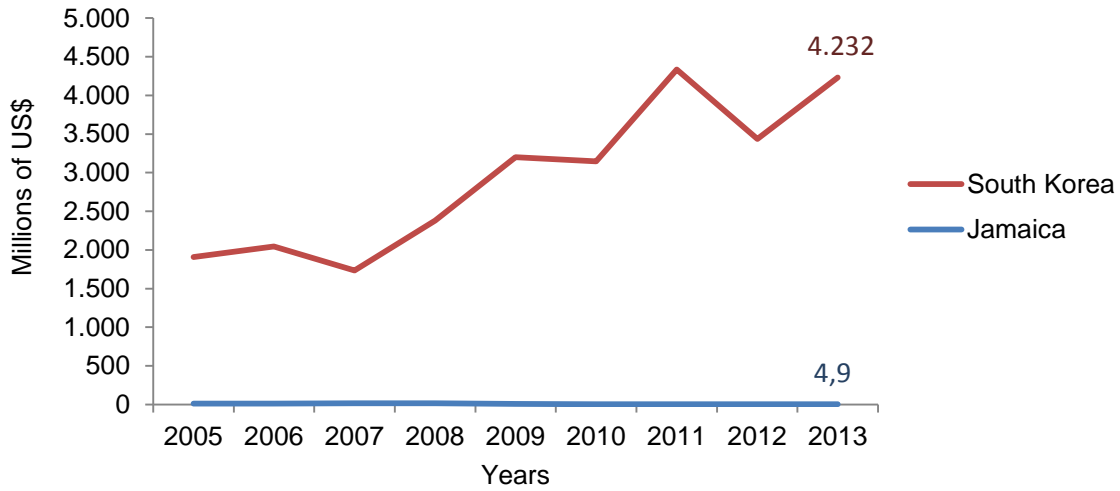
Own preparation. Source: World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 108. Exports of high technology products per capita- Jamaica - South Korea**



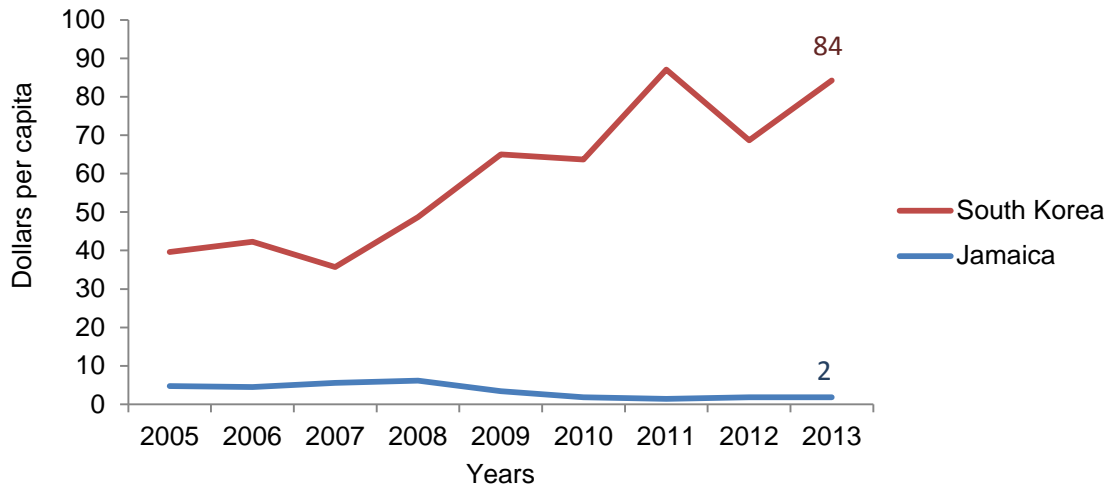
Own preparation. Source: World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 109. Royalties for the use of intellectual property- Jamaica - South Korea**



Own preparation. Source: World Bank (March 2015) <http://datos.bancomundial.org/>

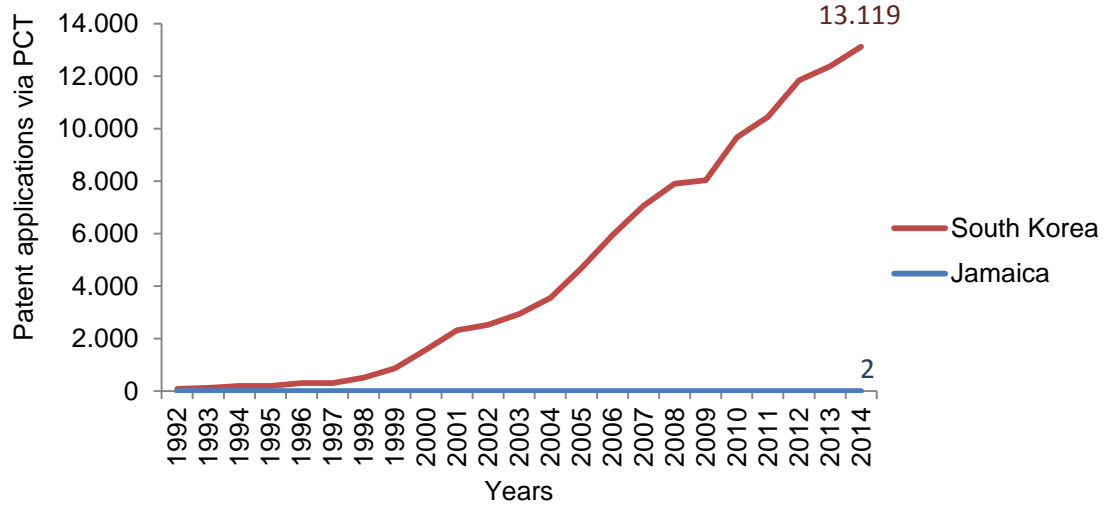
**Graph 110. Royalties for the use of intellectual property per capita- Jamaica - South Korea**



Own preparation. Source: World Bank (March 2015) <http://datos.bancomundial.org/>

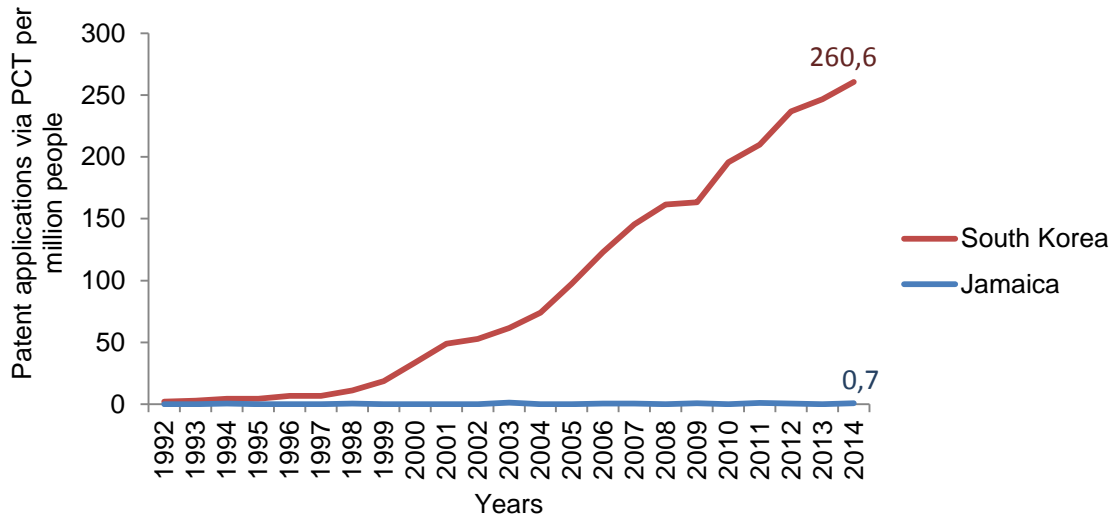


**Graph 111. Patent applications via PCT- Jamaica - South Korea**



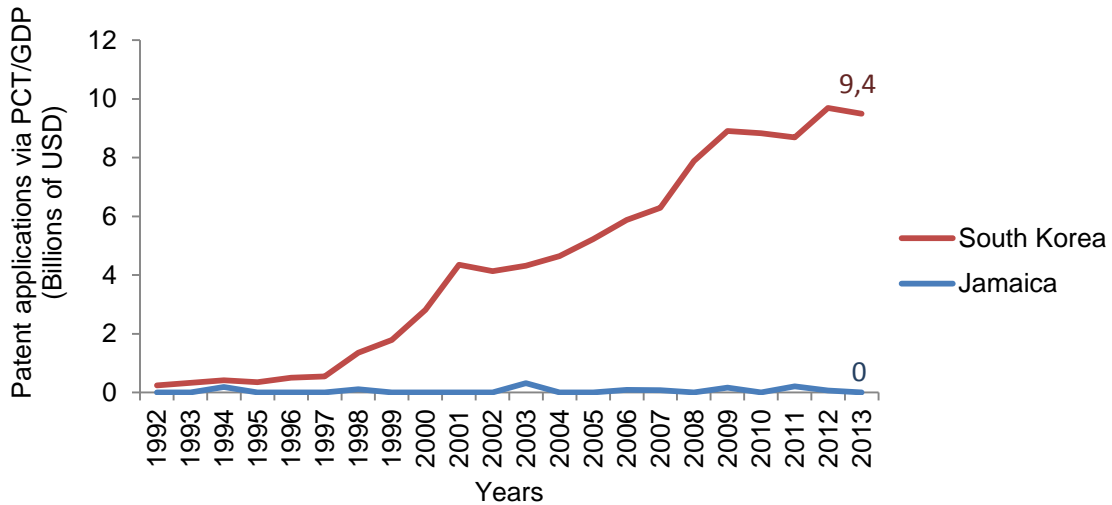
Own preparation. Source: WIPO Website (March 2015) ([www.wipo.int](http://www.wipo.int))

**Graph 112. Patent applications via PCT per million people- Jamaica - South Korea**



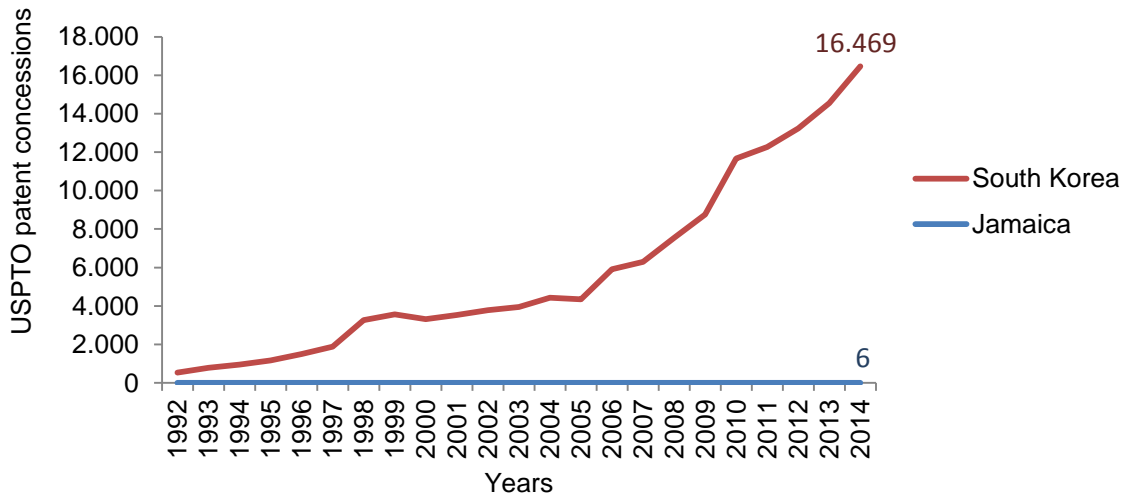
Own preparation. Source: WIPO Website (March 2015) ([www.wipo.int](http://www.wipo.int)) and World Bank (March 2015) (<http://datos.bancomundial.org/>)

**Graph 113. Patent applications via PCT/GDP- Jamaica - South Korea**



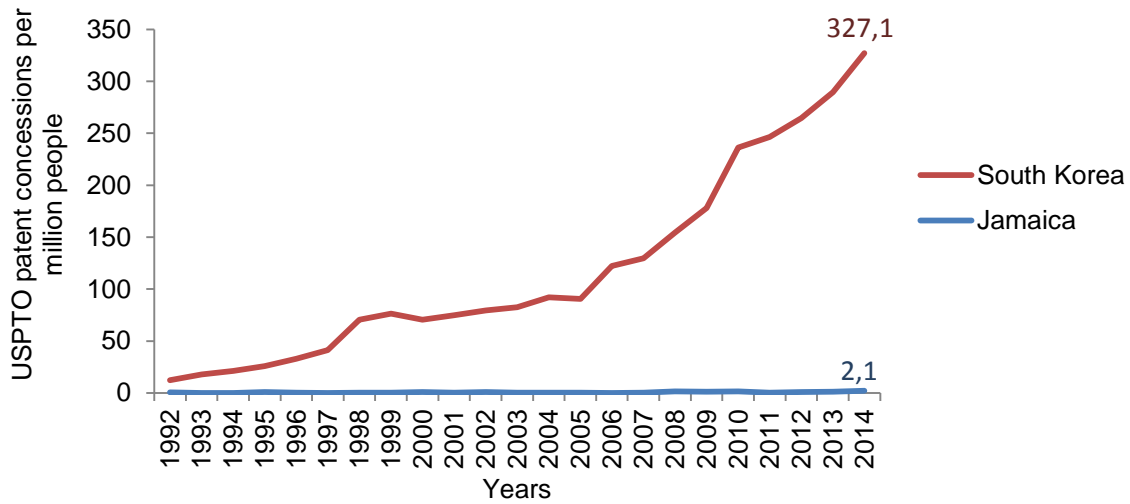
Own preparation. Source: WIPO Website (March 2015) ([www.wipo.int](http://www.wipo.int)) and United Nations Statistics Division (<http://unstats.un.org/>)

**Graph 114. USPTO patent concessions- Jamaica - South Korea**



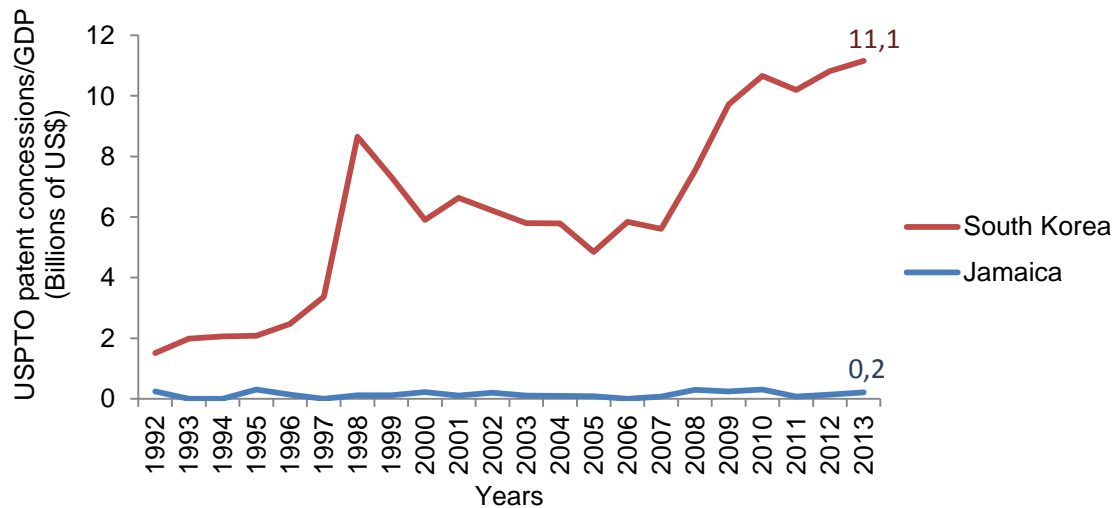
Own preparation. Source: USPTO Website (March 2015) ([http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst\\_utilh.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst_utilh.htm))

**Graph 115. USPTO patent concessions per million people- Jamaica - South Korea**



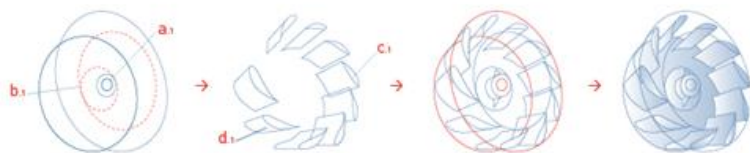
Own preparation. Source: USPTO Website (March 2015) [http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst\\_utlh.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst_utlh.htm) and World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 116. USPTO patent concessions/GDP- Jamaica - South Korea**

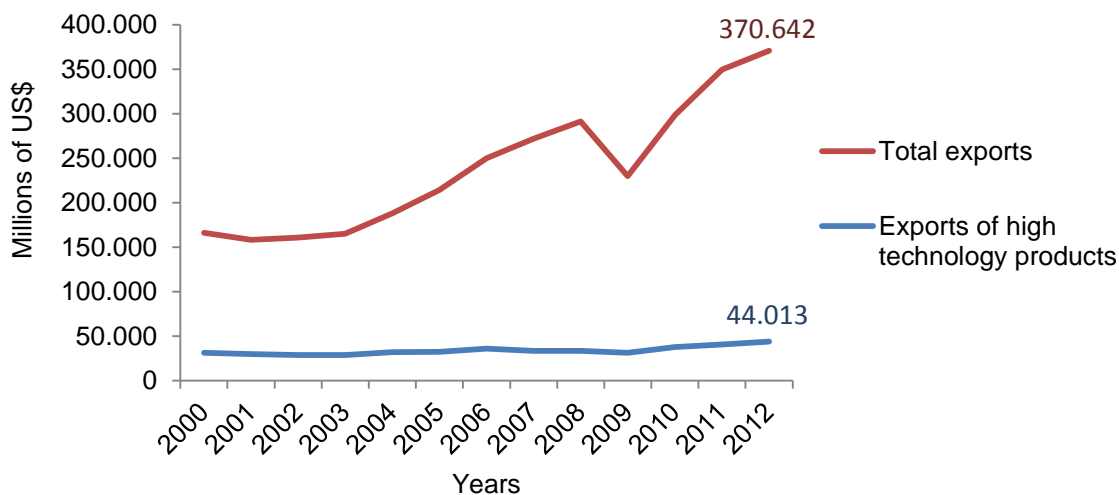


Own preparation. Source: USPTO Website (March 2015) [http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst\\_utlh.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst_utlh.htm) and United Nations Statistics Division (March 2015) <http://unstats.un.org/>

# MEXICO

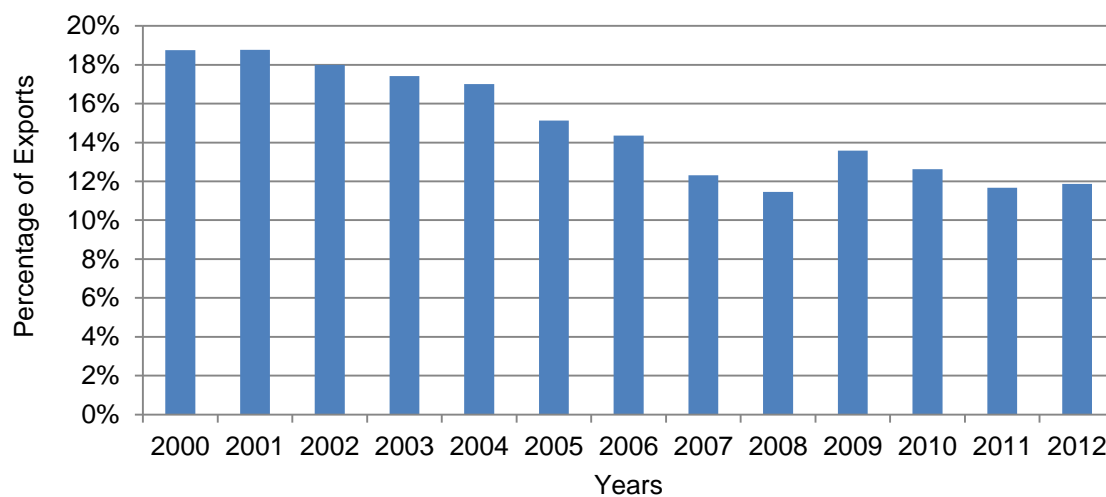


**Graph 117. Total Exports vs. Exports of high technology products- Mexico**



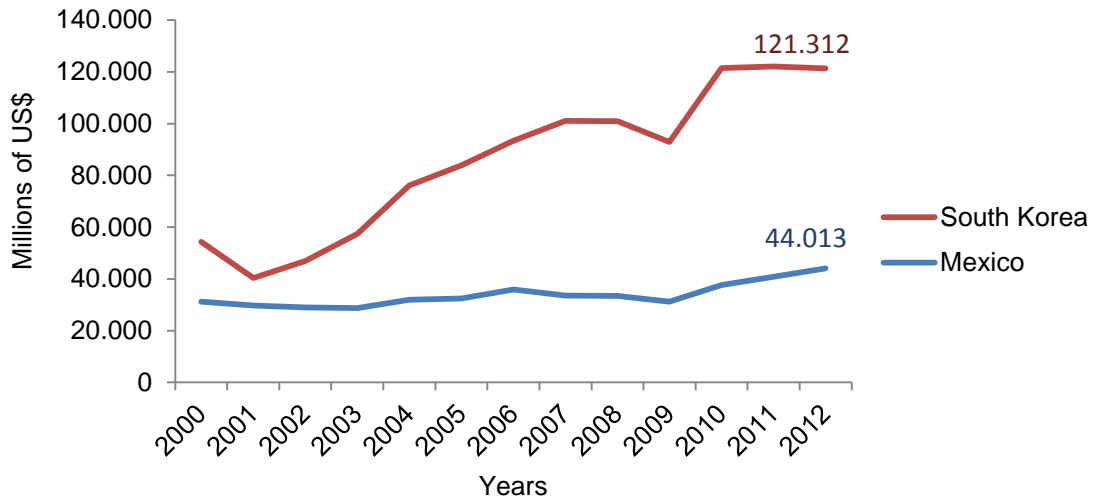
Own preparation. Source: United Nations Statistics Division (March 2015) <http://unstats.un.org/unsd/default.htm> and World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 118. Percentage of Exports of high technology products on total exports - Mexico**



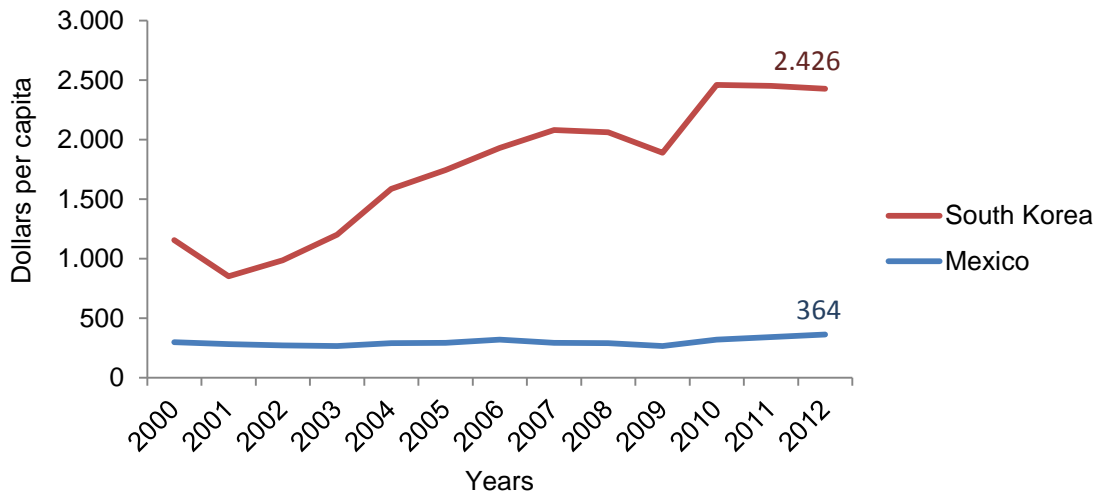
Own preparation. Source: United Nations Statistics Division (March 2015) <http://unstats.un.org/unsd/default.htm> and World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 119. Exports of high technology products- Mexico - South Korea**



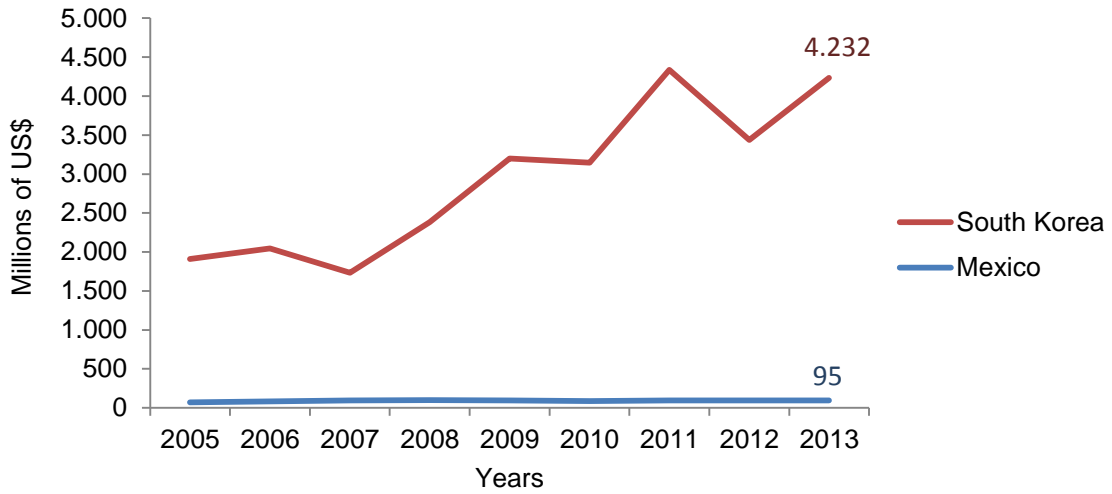
Own preparation. Source: World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 120. Exports of high technology products per capita- Mexico - South Korea**



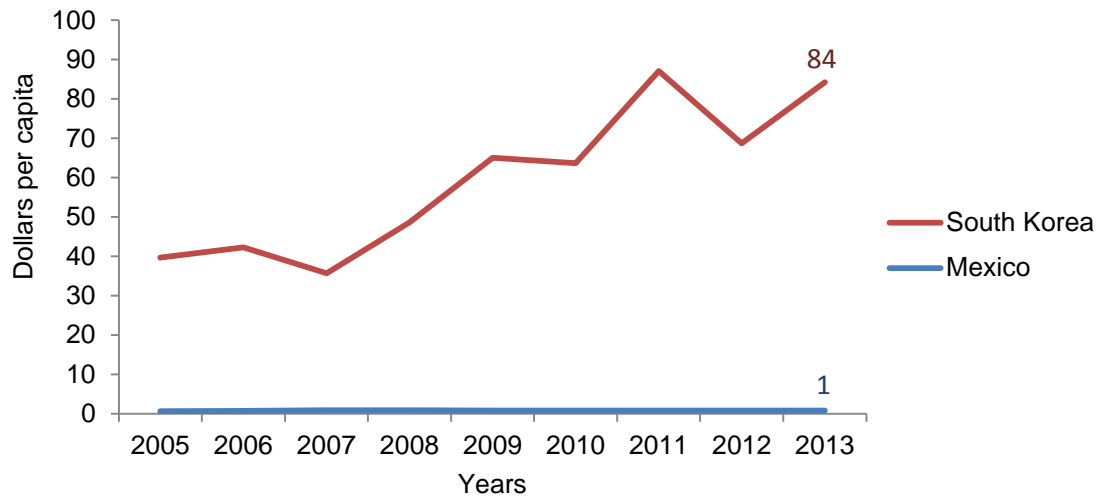
Own preparation. Source: World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 121. Royalties for the use of intellectual property- Mexico - South Korea**



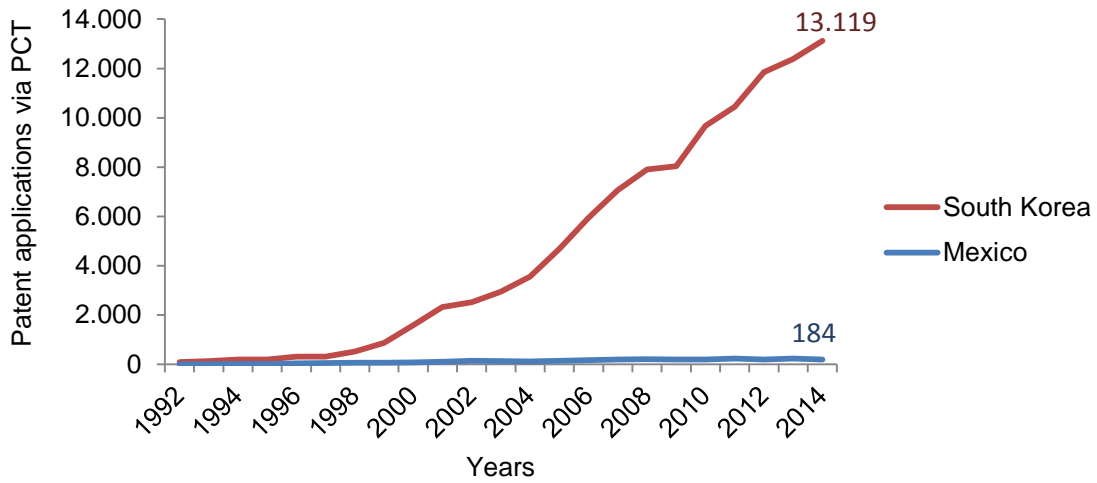
Own preparation. Source: World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 122. Royalties for the use of intellectual property per capita- Mexico - South Korea**



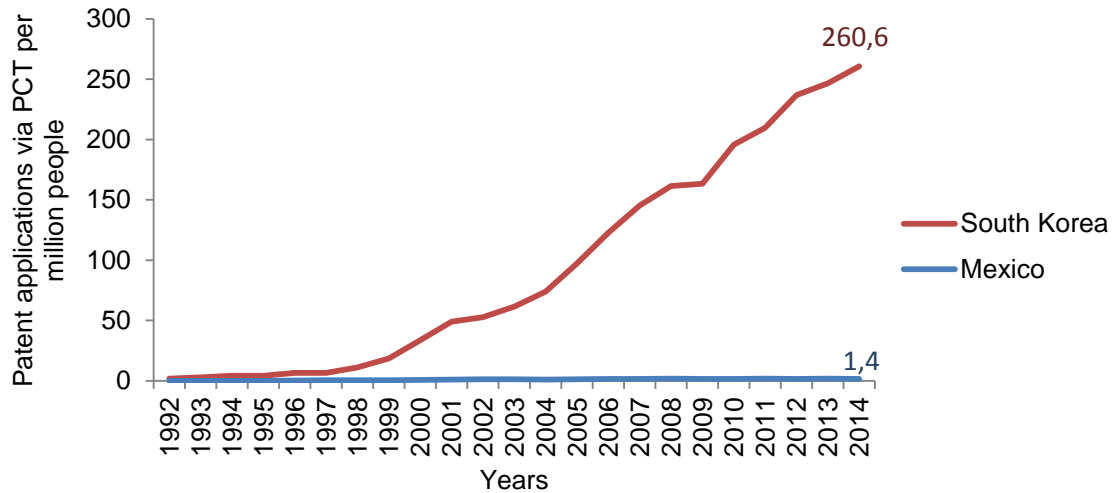
Own preparation. Source: World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 123. Patent applications via PCT- Mexico - South Korea**



Own preparation. Source: WIPO Website (March 2015) ([www.wipo.int](http://www.wipo.int))

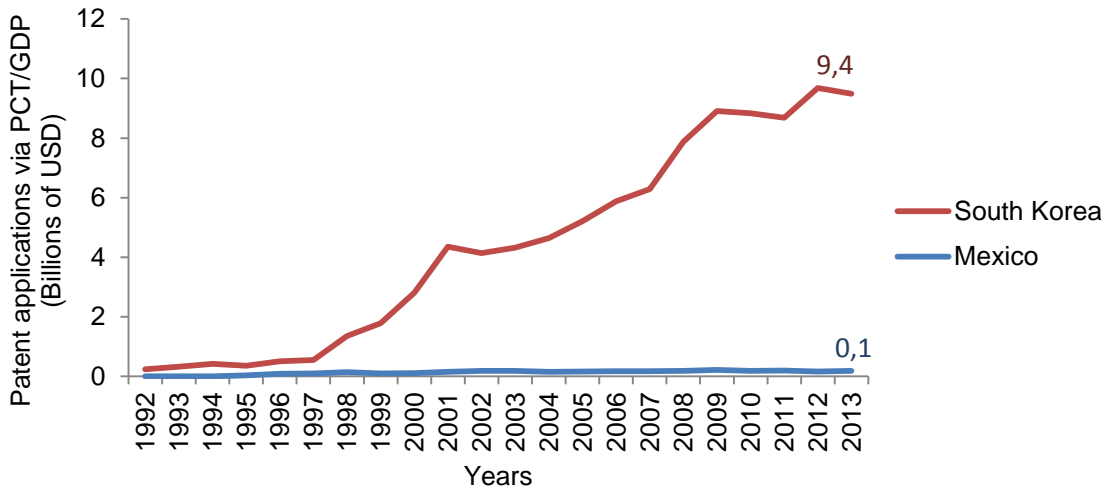
**Graph 124. Patent applications via PCT per million people- Mexico - South Korea**



Own preparation. Source: WIPO Website (March 2015) ([www.wipo.int](http://www.wipo.int)) and World Bank (March 2015) <http://datos.bancomundial.org/>

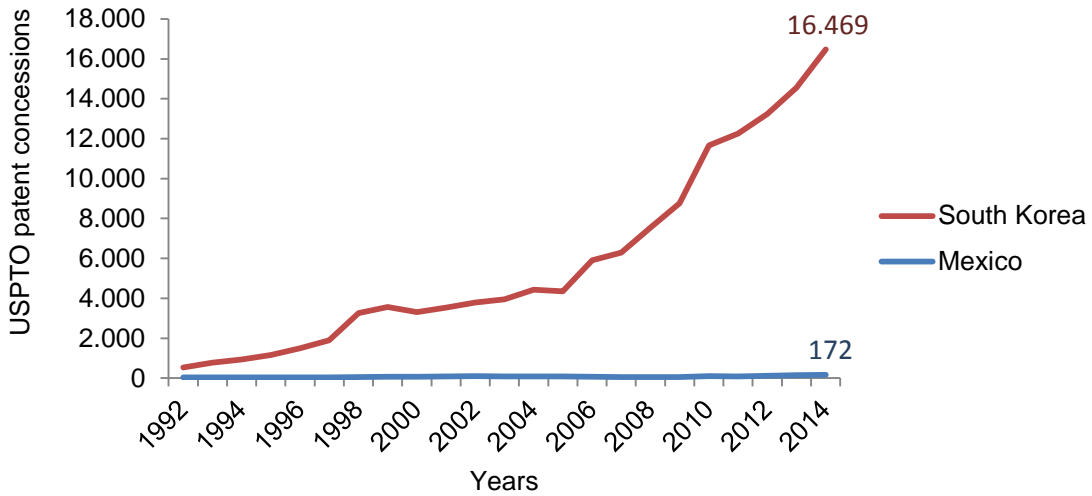


**Graph 125. Patent applications via PCT/GDP- Mexico - South Korea**



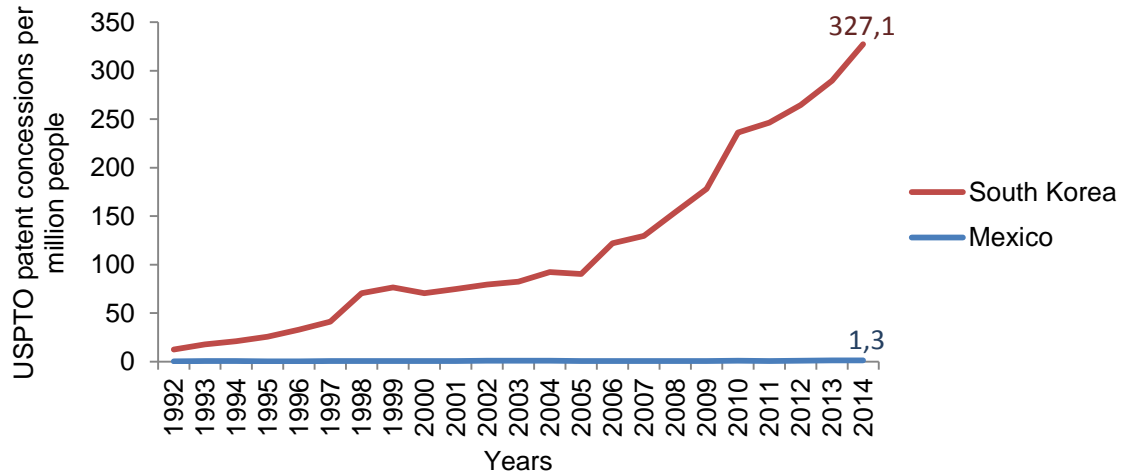
Own preparation. Source: WIPO Website (March 2015) ([www.wipo.int](http://www.wipo.int)) and United Nations Statistics Division (March 2015) (<http://unstats.un.org/>)

**Graph 126. USPTO patent concessions- Mexico - South Korea**



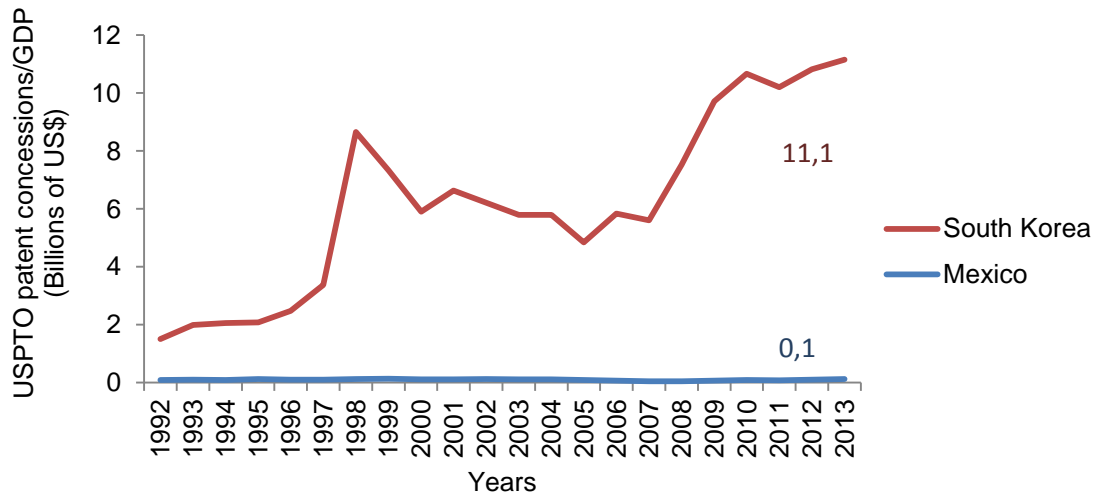
Own preparation. Source: USPTO Website (March 2015) ([http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst\\_utlh.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst_utlh.htm))

**Graph 127. USPTO patent concessions per million people- Mexico - South Korea**



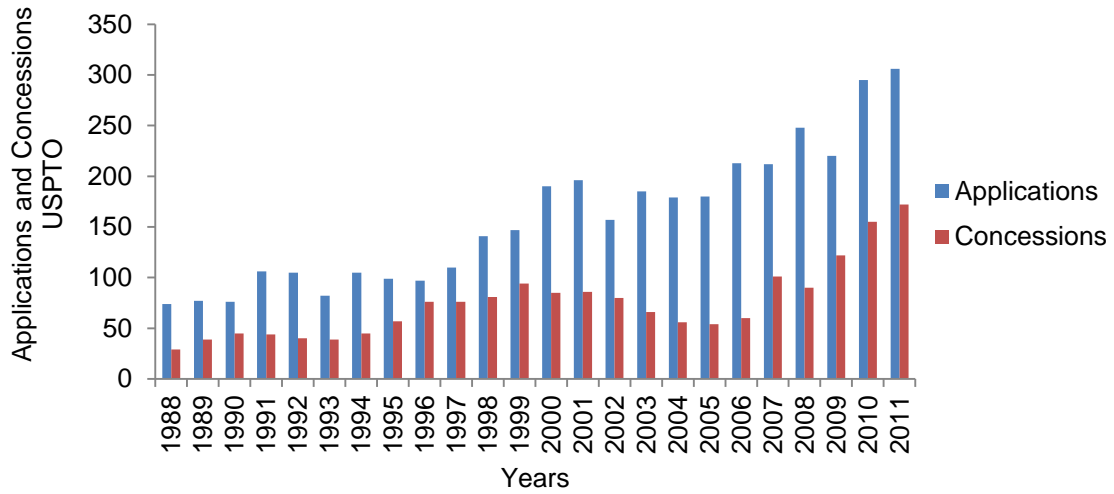
Own preparation. Source: USPTO Website (March 2015) [http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst\\_utlh.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst_utlh.htm) and World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 128. USPTO patent concessions/GDP- Mexico - South Korea**



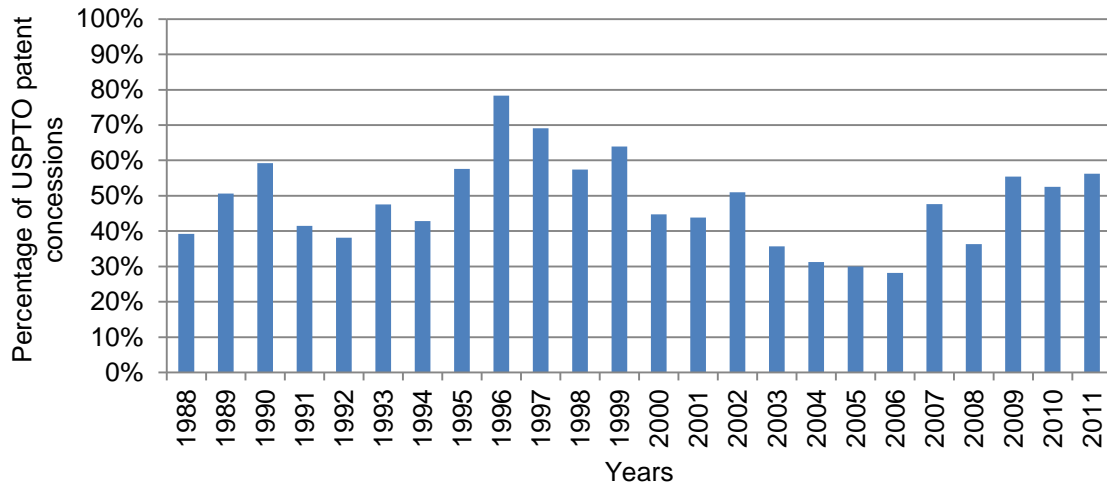
Own preparation. Source: USPTO Website (March 2015) [http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst\\_utlh.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst_utlh.htm) and United Nations Statistics Division (March 2015) <http://unstats.un.org/>

**Graph 129. Application vs. USPTO patent concessions- Mexico**



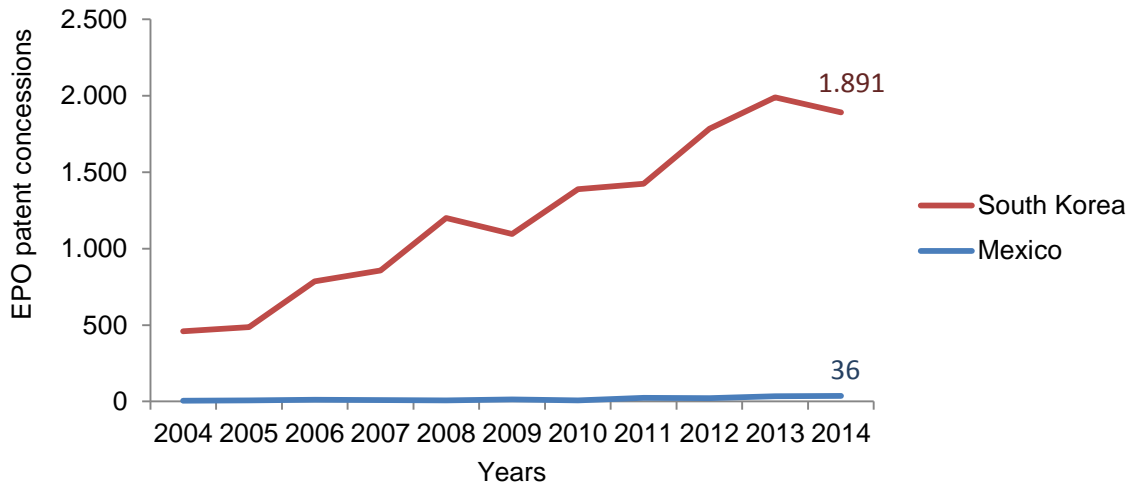
Own preparation. Source: USPTO Website (March 2015) – Concessions [http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst\\_utlh.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst_utlh.htm) and Application [http://www.uspto.gov/web/offices/ac/ido/oeip/taf/appl\\_yr.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/appl_yr.htm)

**Graph 130. Percentage of USPTO patent concessions- Mexico**



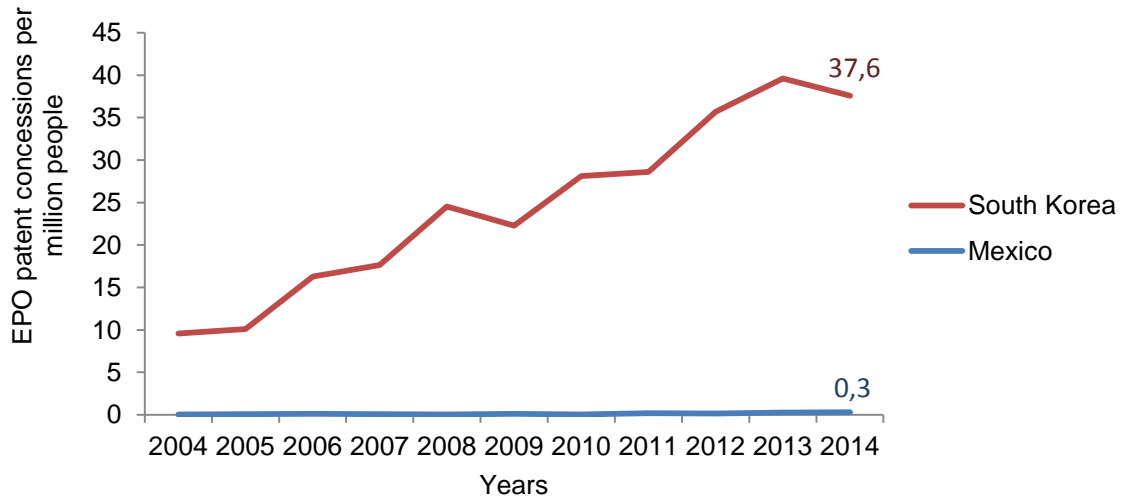
Own preparation. Source: USPTO Website (March 2015) – Concessions [http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst\\_utlh.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst_utlh.htm) and Application [http://www.uspto.gov/web/offices/ac/ido/oeip/taf/appl\\_yr.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/appl_yr.htm)

**Graph 131. EPO patent concessions- Mexico - South Korea**



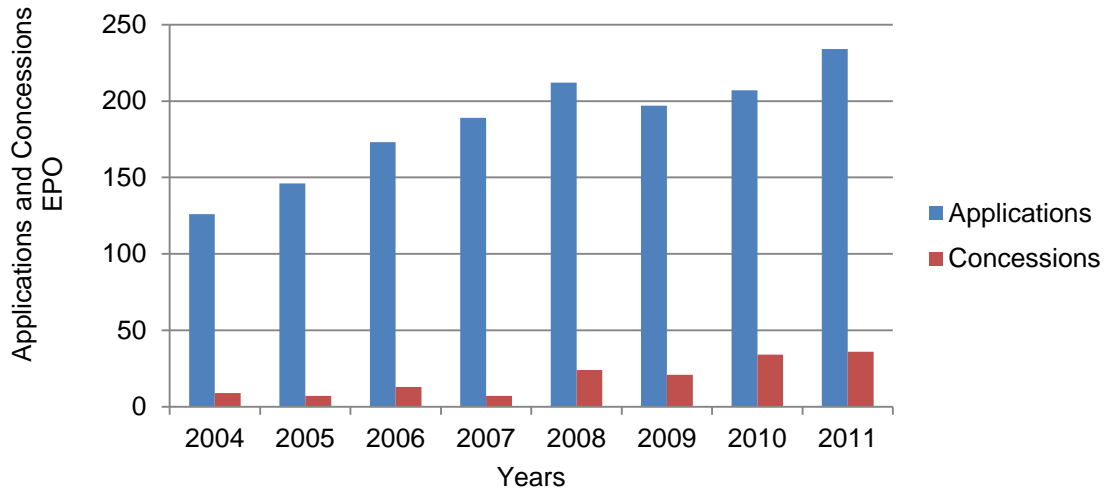
Own preparation. Source: EPO Website (March 2015) <http://www.epo.org/about-us/annual-reports-statistics/statistics.html>

**Graph 132. EPO patent concessions per million people- Mexico - South Korea**



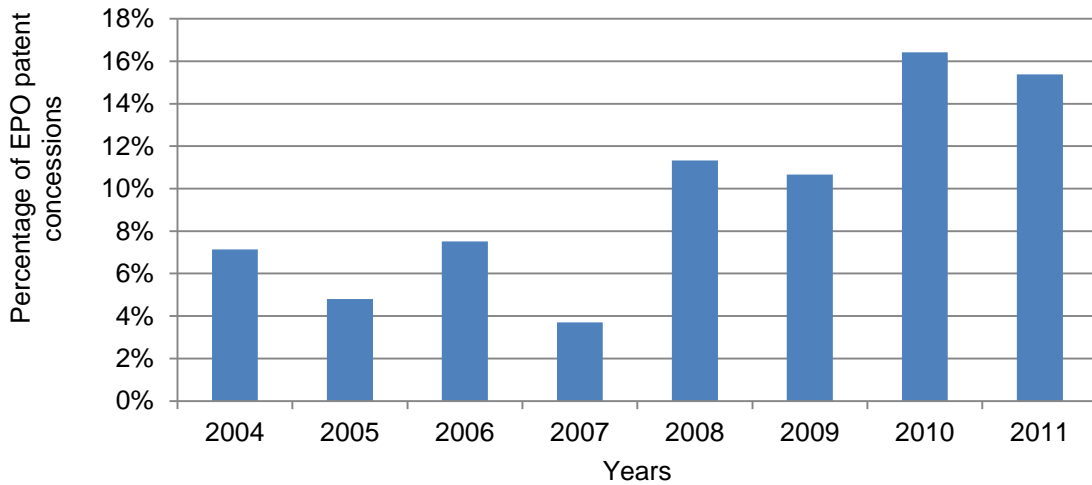
Own preparation. Source: EPO Website (March 2015) <http://www.epo.org/about-us/annual-reports-statistics/statistics.html> and World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 133. Application vs. EPO patent concessions- Mexico**



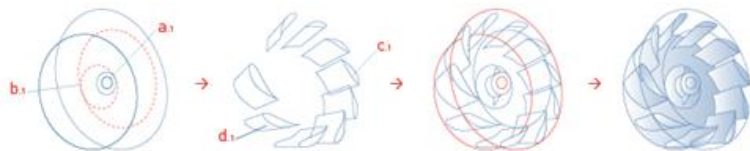
Own preparation. Source: EPO Website (March 2015) <http://www.epo.org/about-us/annual-reports-statistics/statistics.html>

**Graph 134. Percentage of EPO patent concessions - Mexico**

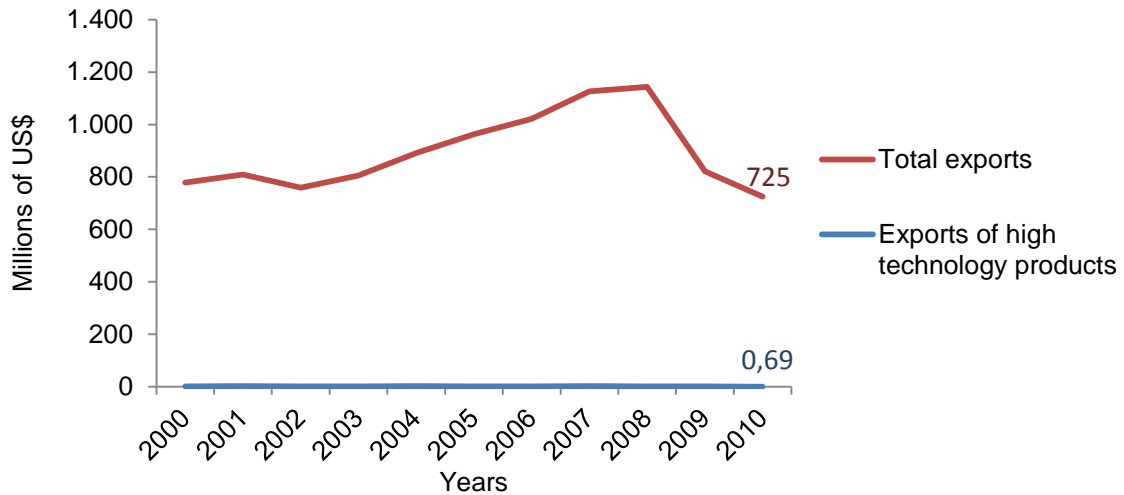


Own preparation. Source: EPO Website (March 2015) <http://www.epo.org/about-us/annual-reports-statistics/statistics.html>

# PANAMA

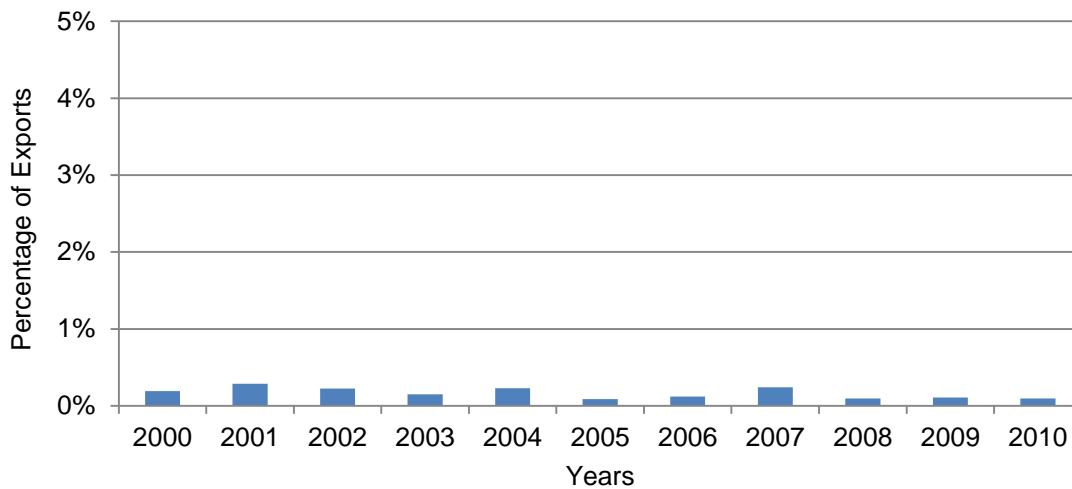


**Graph 135. Total Exports vs. Exports of high technology products- Panama**



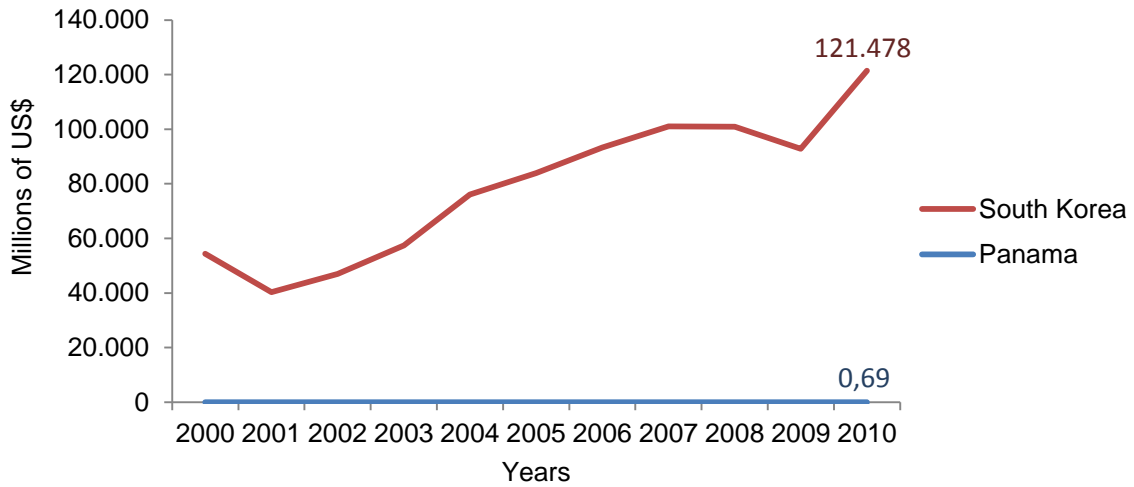
Own preparation. Source: Instituto Nacional de Estadística y Censo (INEC) (March 2015) <http://contraloria.gob.pa/inec/> and World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 136. Percentage of Exports of high technology products on total exports - Panama**



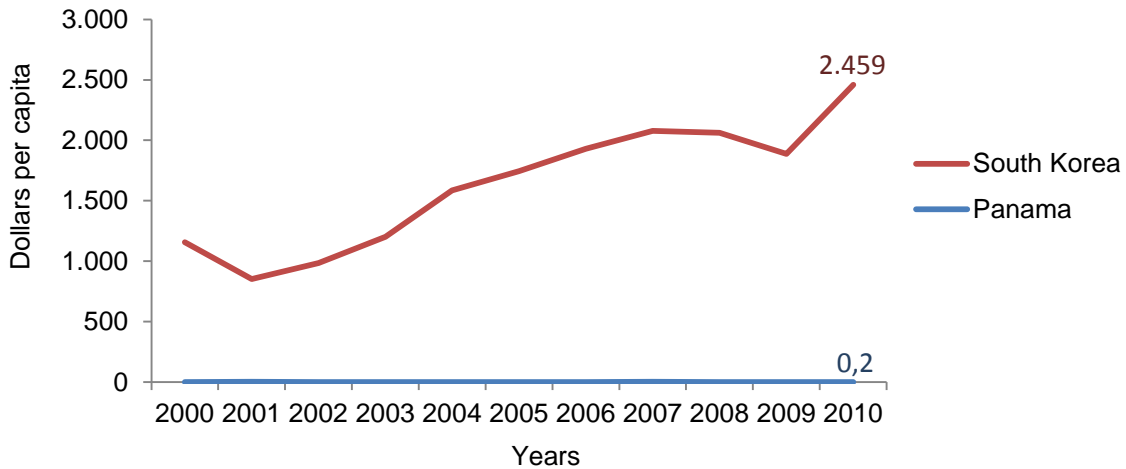
Own preparation. Source: Instituto Nacional de Estadística y Censo (INEC) (March 2015) <http://contraloria.gob.pa/inec/> and World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 137. Exports of high technology products- Panama - South Korea**



Own preparation. Source: World Bank (March 2015) <http://datos.bancomundial.org/>

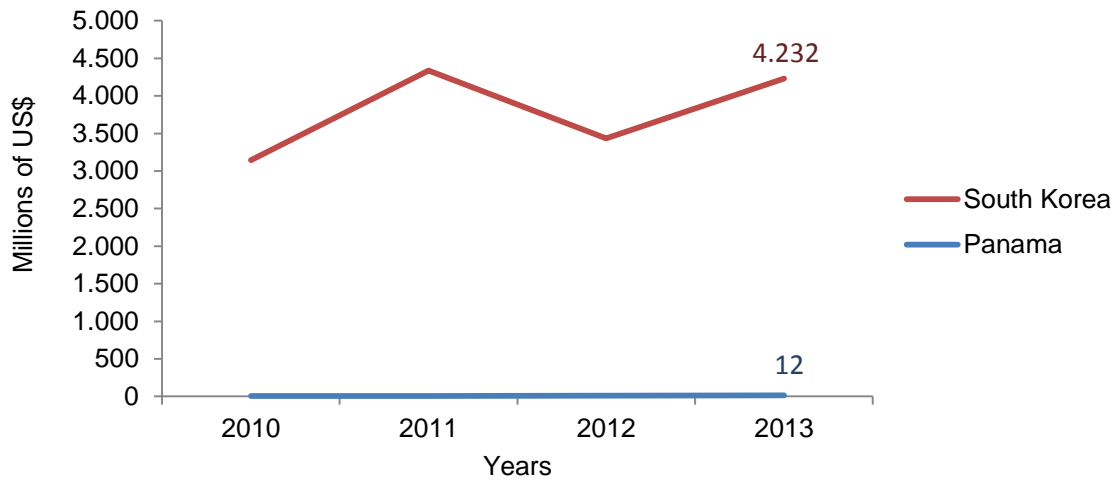
**Graph 138. Exports of high technology products per capita- Panama - South Korea**



Own preparation. Source: World Bank (March 2015) <http://datos.bancomundial.org/>

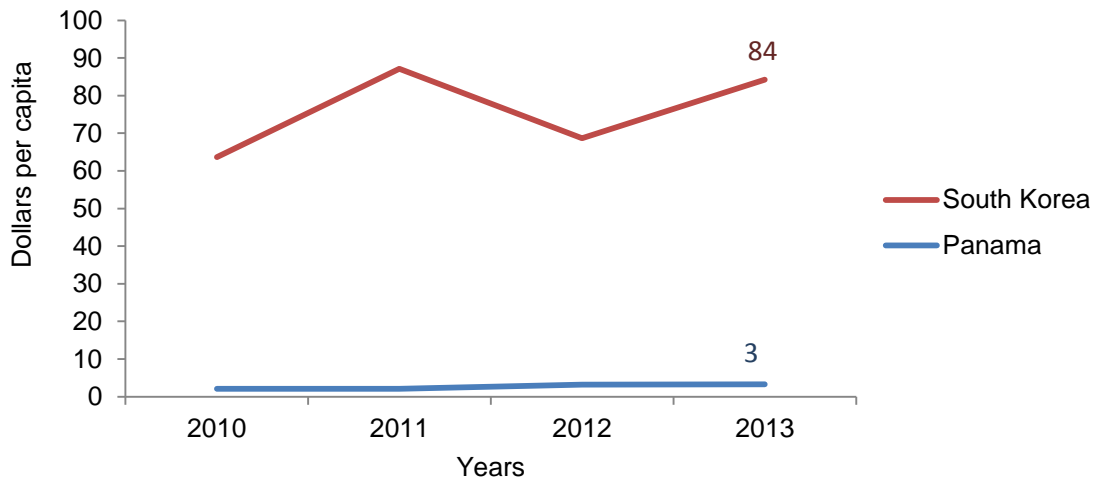


**Graph 139. Royalties for the use of intellectual property- Panama - South Korea**



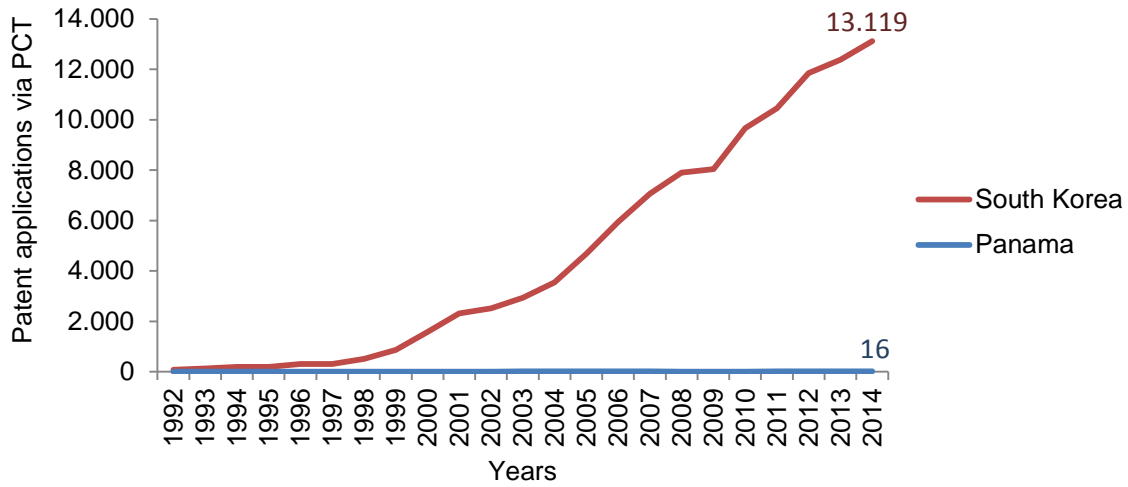
Own preparation. Source: World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 140. Royalties for the use of intellectual property per capita- Panama - South Korea**



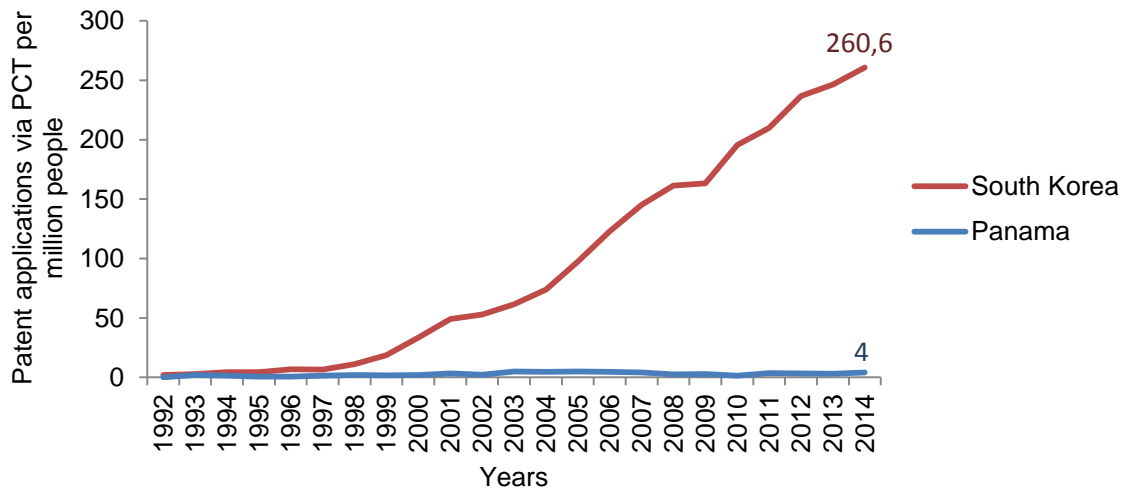
Own preparation. Source: World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 141. Patent applications via PCT- Panama - South Korea**



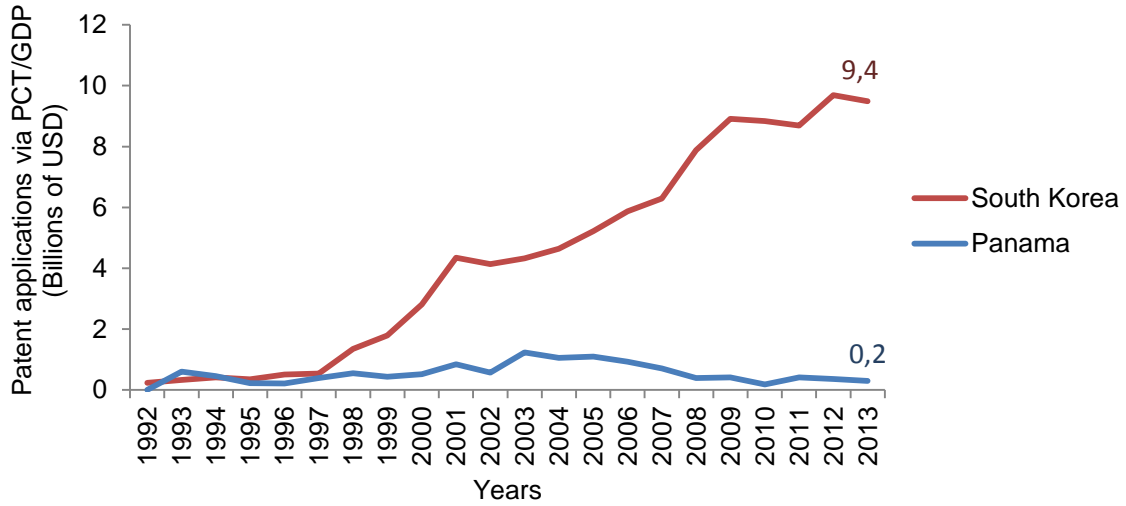
Own preparation. Source: WIPO Website (March 2015) ([www.wipo.int](http://www.wipo.int))

**Graph 142. Patent applications via PCT per million people- Panama - South Korea**



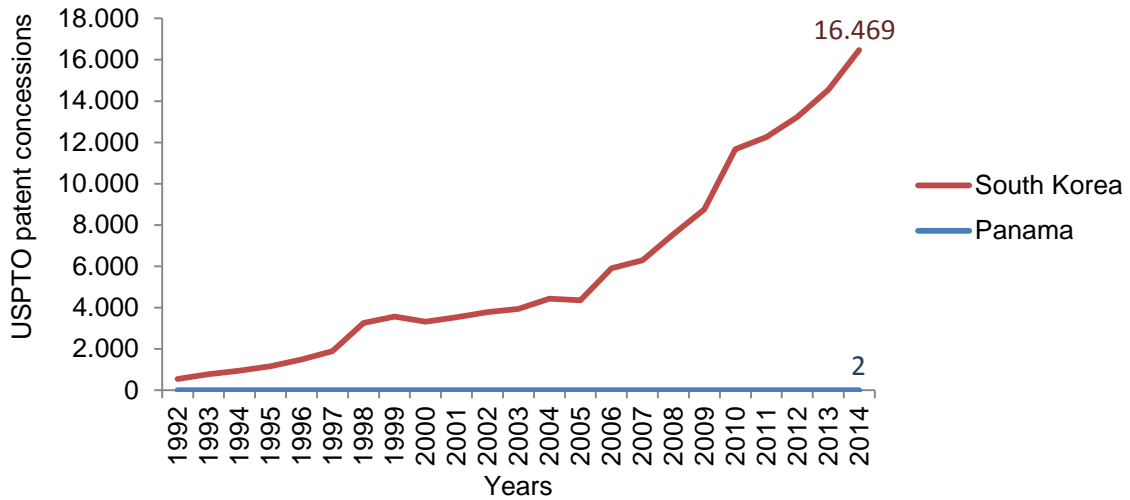
Own preparation. Source: WIPO Website (March 2015) ([www.wipo.int](http://www.wipo.int)) and World Bank (March 2015) (<http://datos.bancomundial.org/>)

**Graph 143. Patent applications via PCT/GDP- Panama - South Korea**



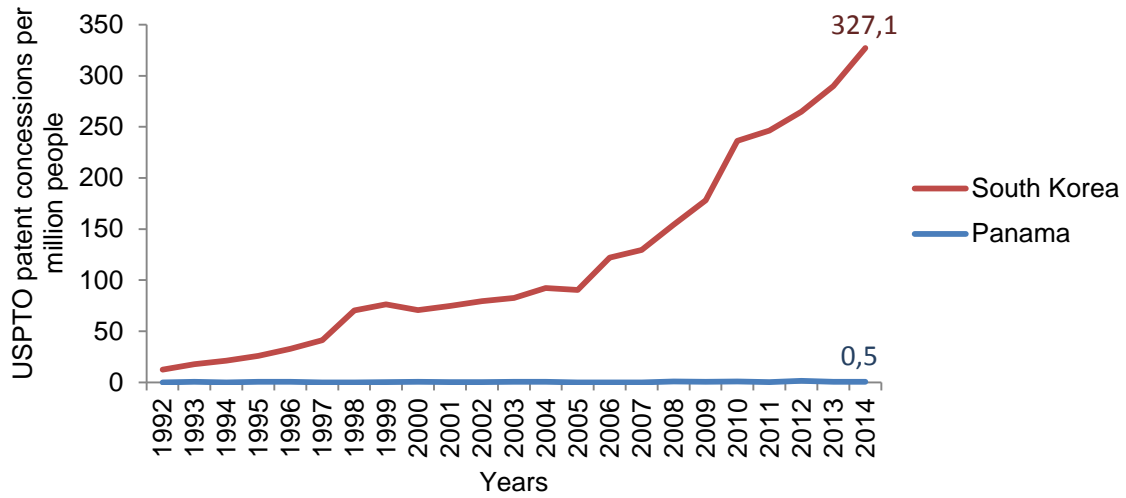
Own preparation. Source: WIPO Website (March 2015) ([www.wipo.int](http://www.wipo.int)) and United Nations Statistics Division (<http://unstats.un.org/>)

**Graph 144. USPTO patent concessions- Panama - South Korea**



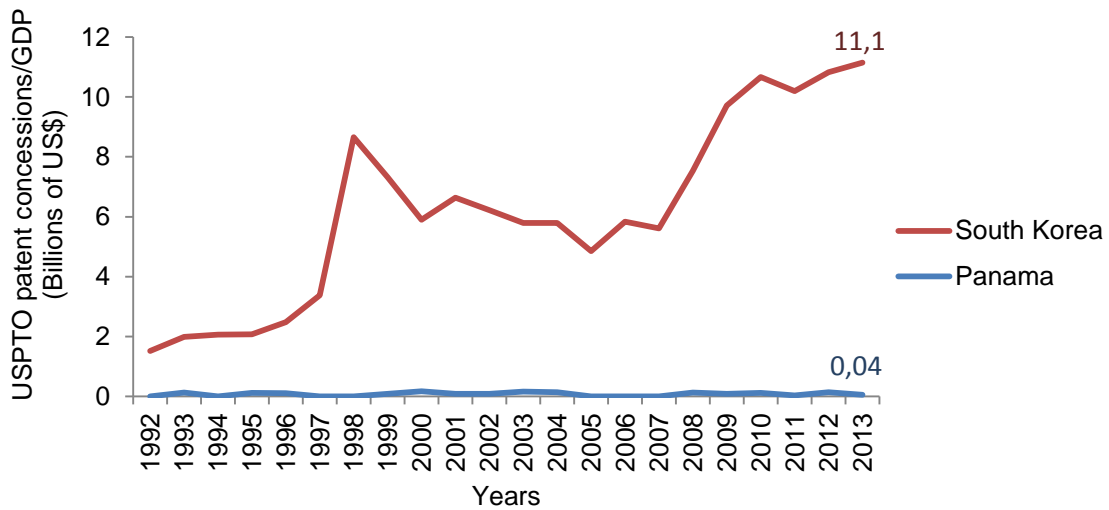
Own preparation. Source: USPTO Website (March 2015) ([http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst\\_utlh.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst_utlh.htm))

**Graph 145. USPTO patent concessions per million people- Panama - South Korea**



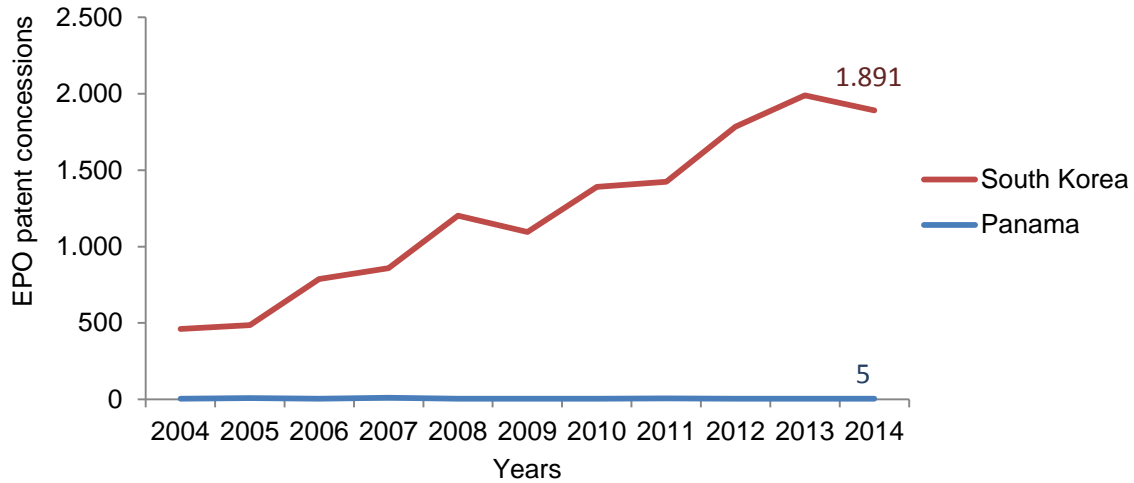
Own preparation. Source: USPTO Website (March 2015) [http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst\\_utlh.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst_utlh.htm) and World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 146. USPTO patent concessions/GDP- Panama - South Korea**



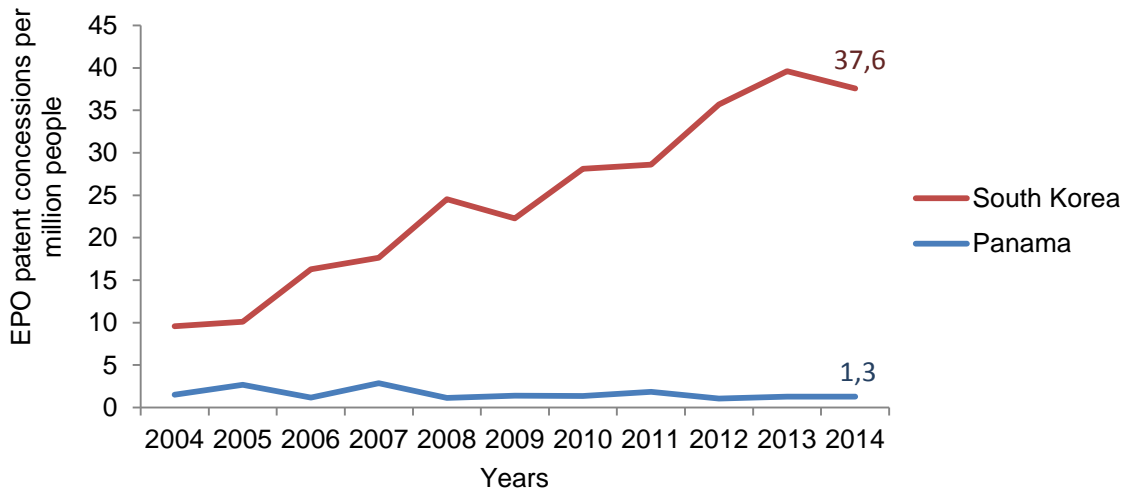
Own preparation. Source: USPTO Website (March 2015) [http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst\\_utlh.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst_utlh.htm) and United Nations Statistics Division (March 2015) <http://unstats.un.org/>

**Graph 147. EPO patent concessions- Panama - South Korea**



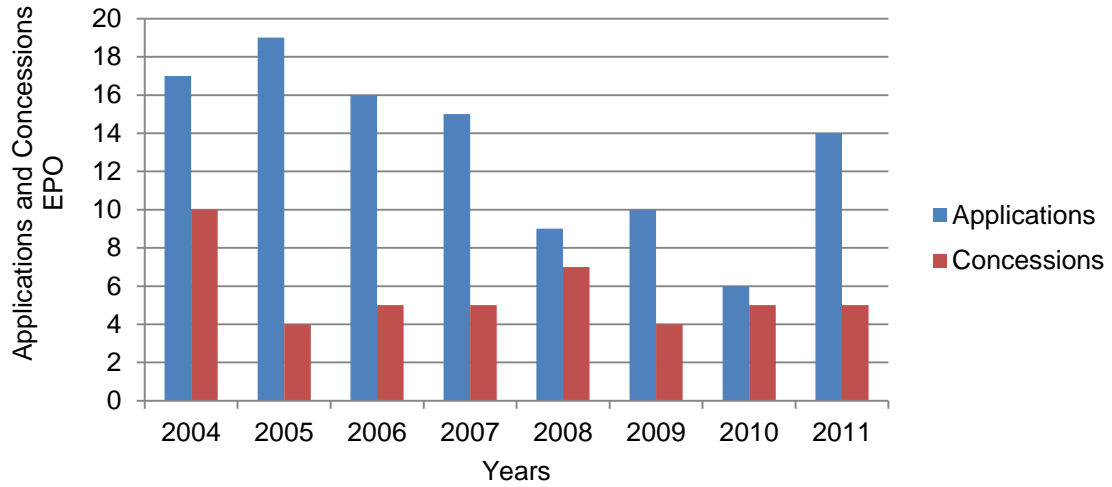
Own preparation. Source: EPO Website (March 2015) <http://www.epo.org/about-us/annual-reports-statistics/statistics.html>

**Graph 148. EPO patent concessions per million people- Panama - South Korea**



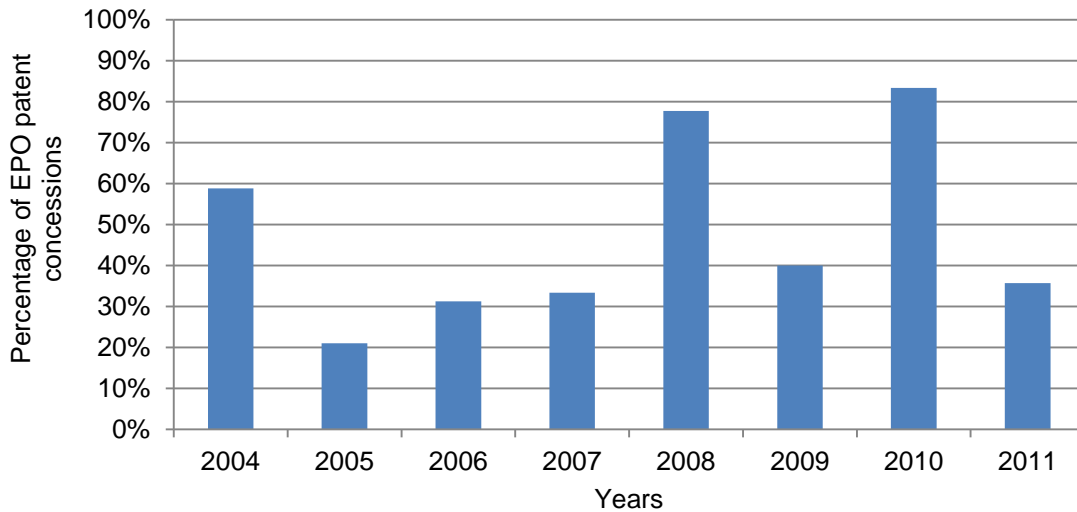
Own preparation. Source: EPO Website (March 2015) <http://www.epo.org/about-us/annual-reports-statistics/statistics.html> and World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 149. Application vs. EPO patent concessions- Panama**



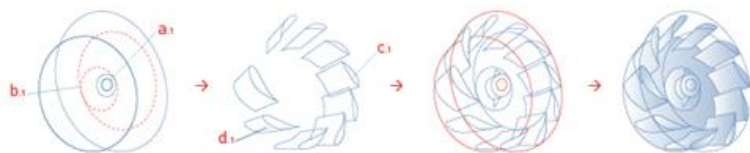
Own preparation. Source: EPO Website (March 2015) <http://www.epo.org/about-us/annual-reports-statistics/statistics.html>

**Graph 150. Percentage of EPO patent concessions - Panama**

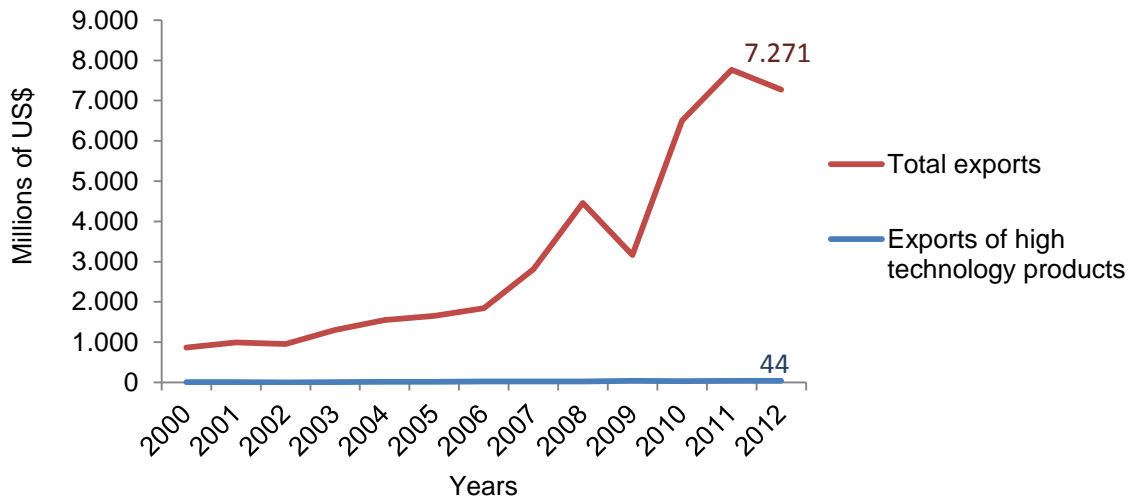


Own preparation. Source: EPO Website (March 2015) <http://www.epo.org/about-us/annual-reports-statistics/statistics.html>

# PARAGUAY

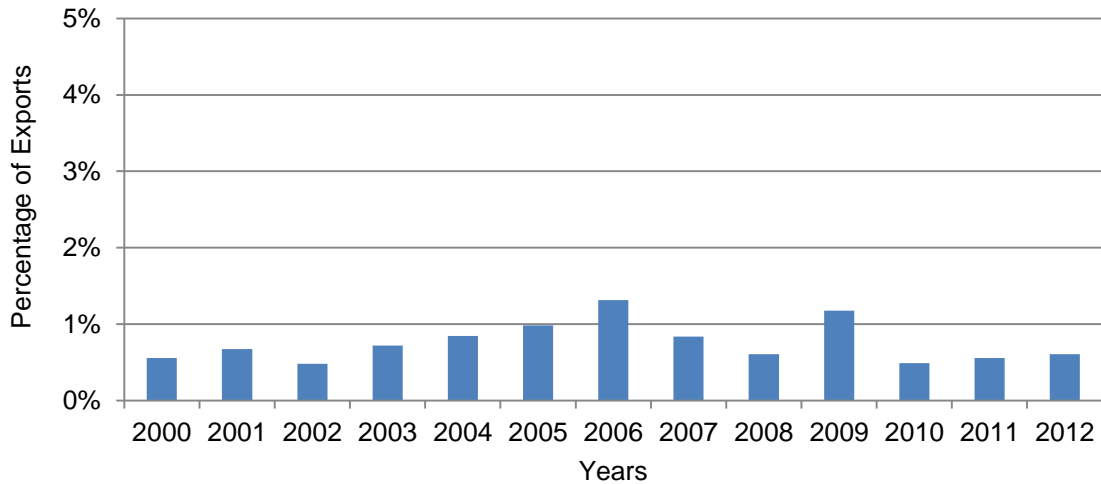


**Graph 151. Total Exports vs. Exports of high technology products- Paraguay**



Own preparation. Source: United Nations Statistics Division (March 2015) <http://unstats.un.org/unsd/default.htm> and World Bank (March 2015) <http://datos.bancomundial.org/>

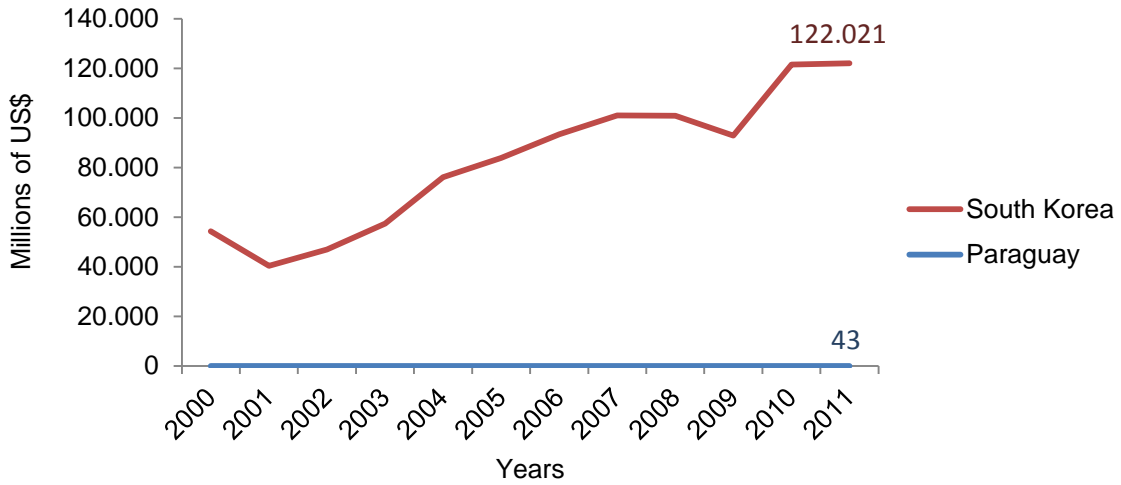
**Graph 152. Percentage of Exports of high technology products on total exports - Paraguay**



Own preparation. Source: United Nations Statistics Division (March 2015) <http://unstats.un.org/unsd/default.htm> and World Bank (March 2015) <http://datos.bancomundial.org/>

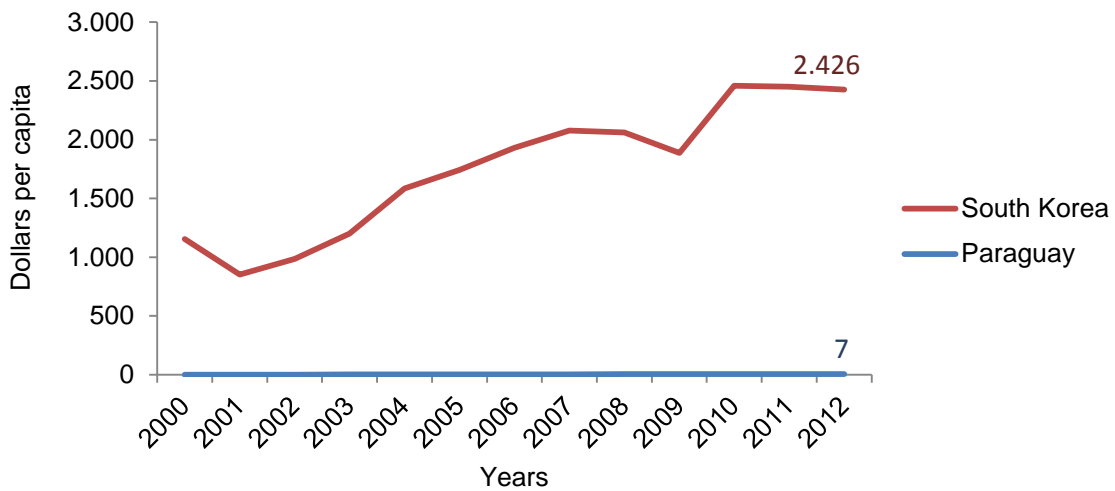


**Graph 153. Exports of high technology products- Paraguay - South Korea**



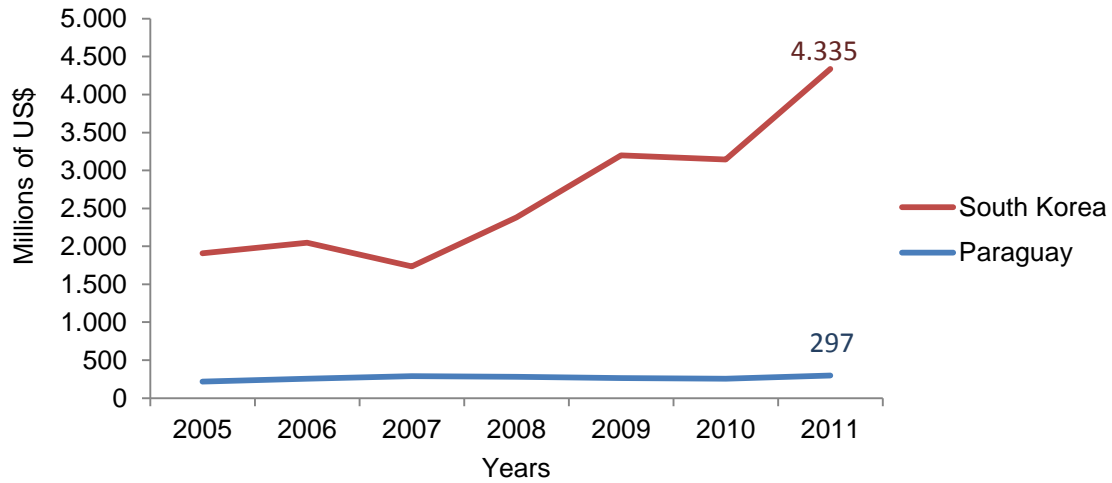
Own preparation. Source: World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 154. Exports of high technology products per capita- Paraguay - South Korea**



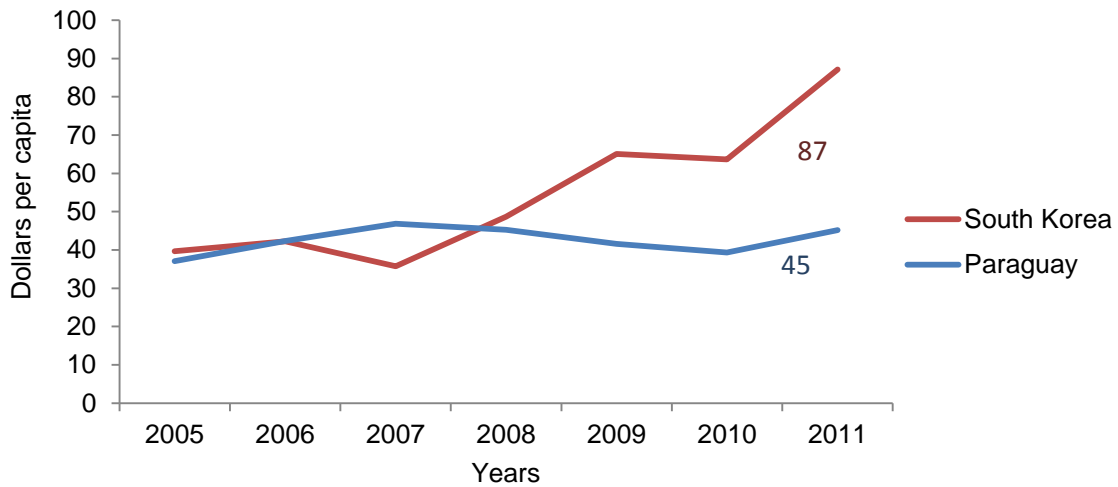
Own preparation. Source: World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 155. Royalties for the use of intellectual property- Paraguay - South Korea**



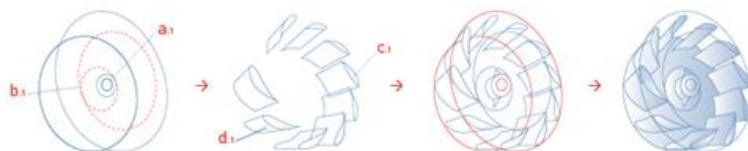
Own preparation. Source: World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 156. Royalties for the use of intellectual property per capita- Paraguay - South Korea**

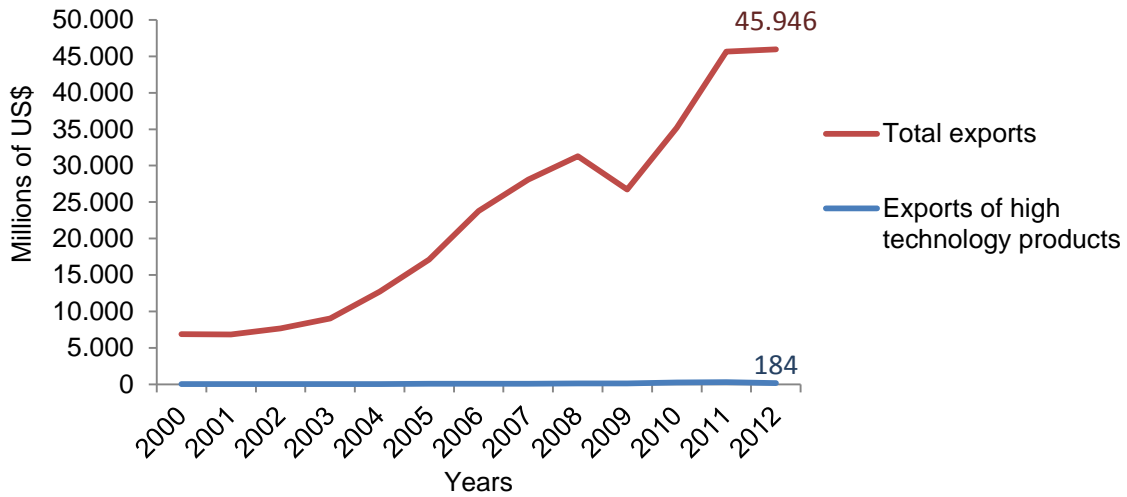


Own preparation. Source: World Bank (March 2015) <http://datos.bancomundial.org/>

# PERU

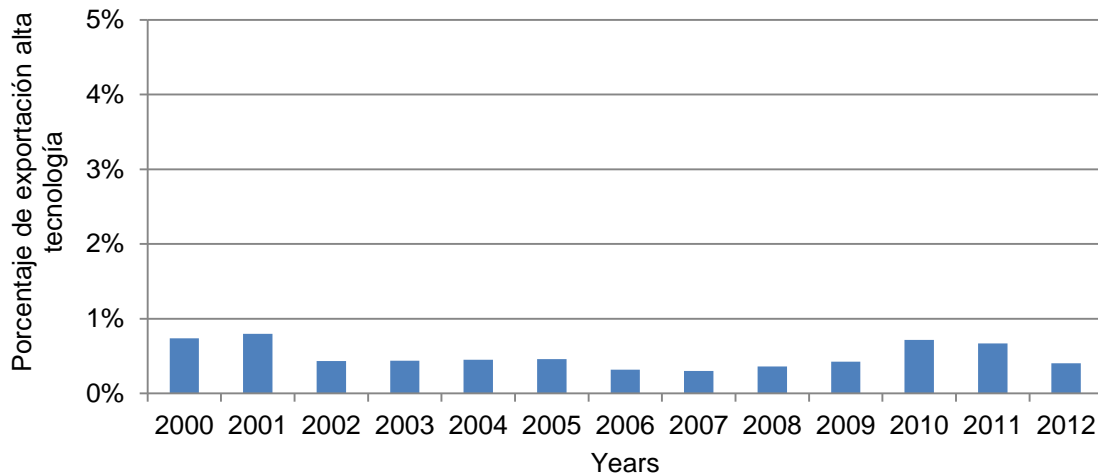


**Graph 157. Total Exports vs. Exports of high technology products- Peru**



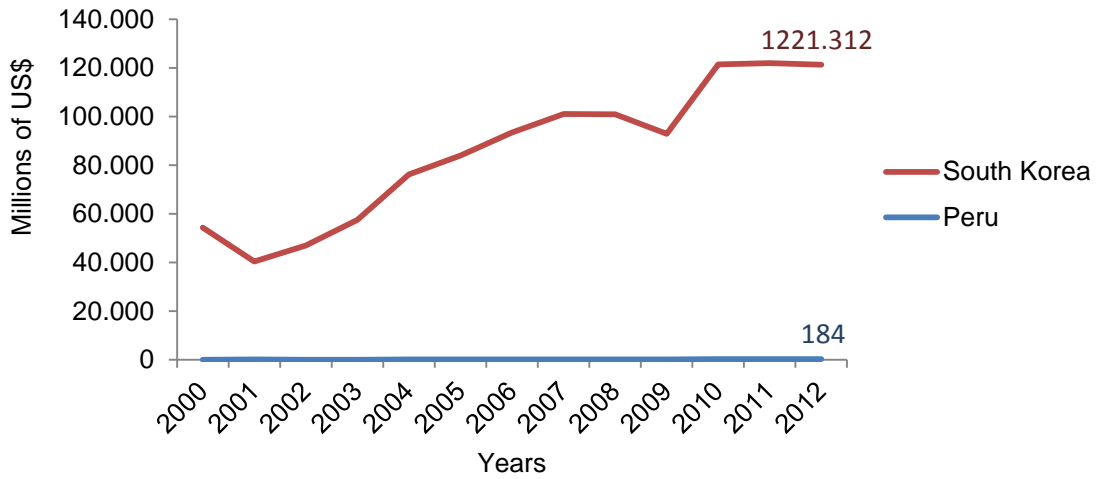
Own preparation. Source: United Nations Statistics Division (March 2015) <http://unstats.un.org/unsd/default.htm> and World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 158. Percentage of Exports of high technology products on total exports - Peru**



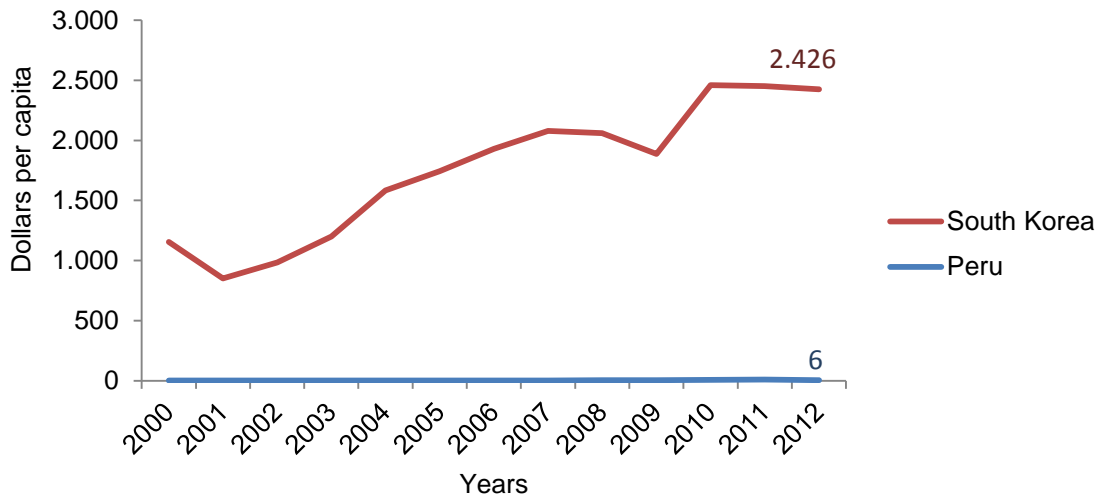
Own preparation. Source: United Nations Statistics Division (March 2015) <http://unstats.un.org/unsd/default.htm> and World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 159. Exports of high technology products- Peru - South Korea**



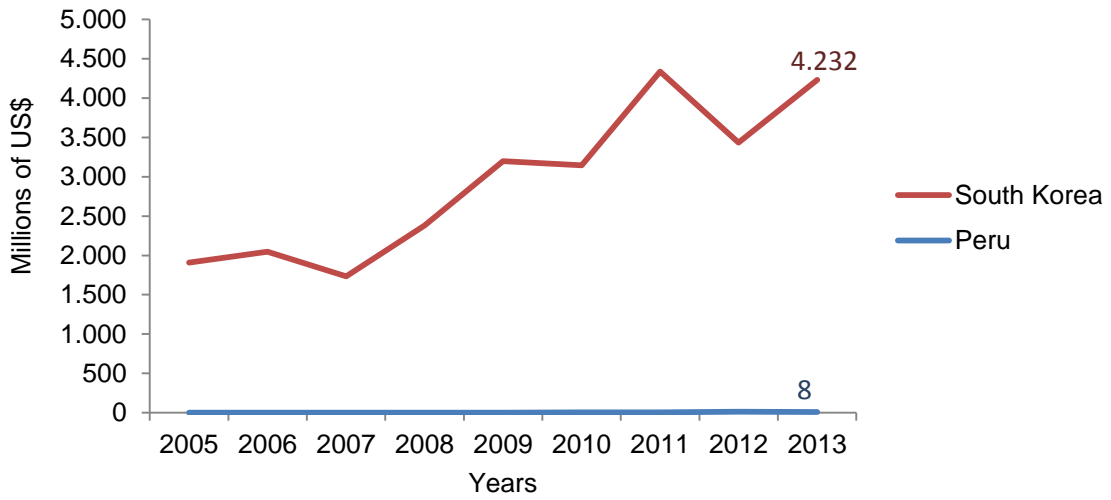
Own preparation. Source: World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 160. Exports of high technology products per capita- Peru - South Korea**



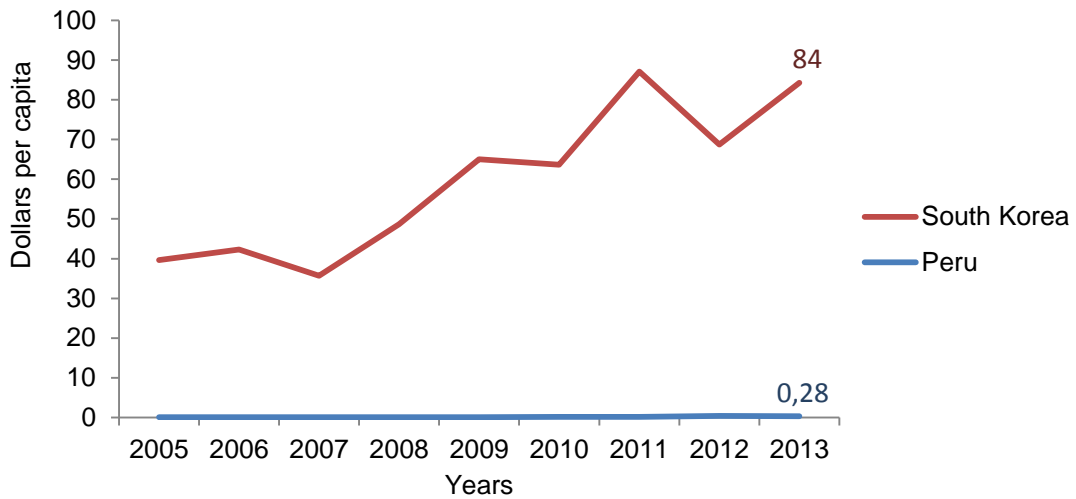
Own preparation. Source: World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 161. Royalties for the use of intellectual property- Peru - South Korea**



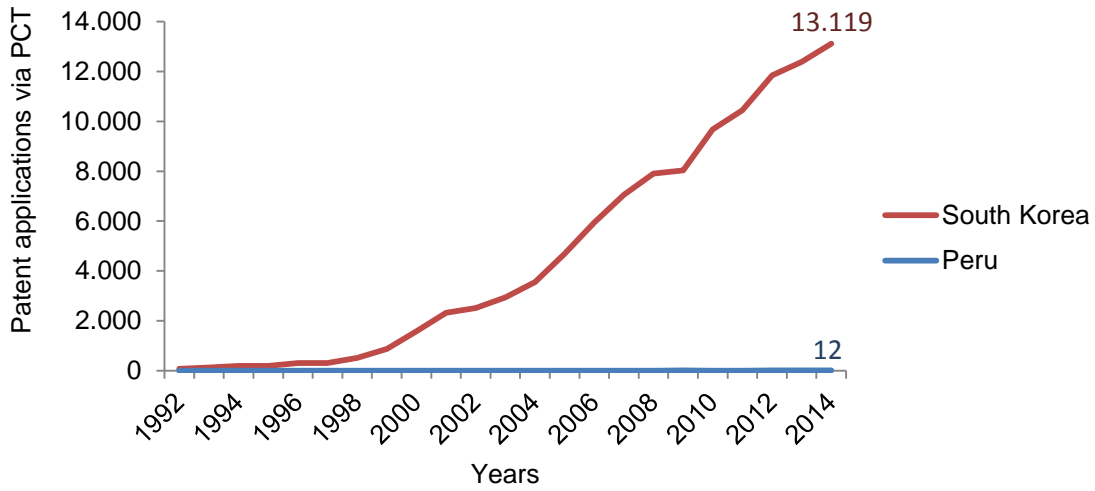
Own preparation. Source: World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 162. Royalties for the use of intellectual property per capita- Peru - South Korea**



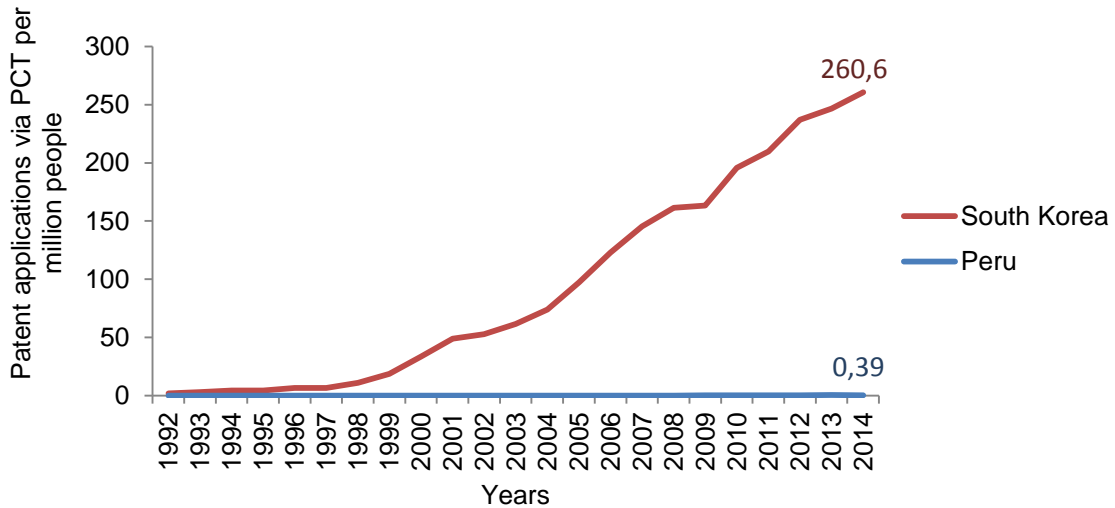
Own preparation. Source: World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 163. Patent applications via PCT- Peru - South Korea**



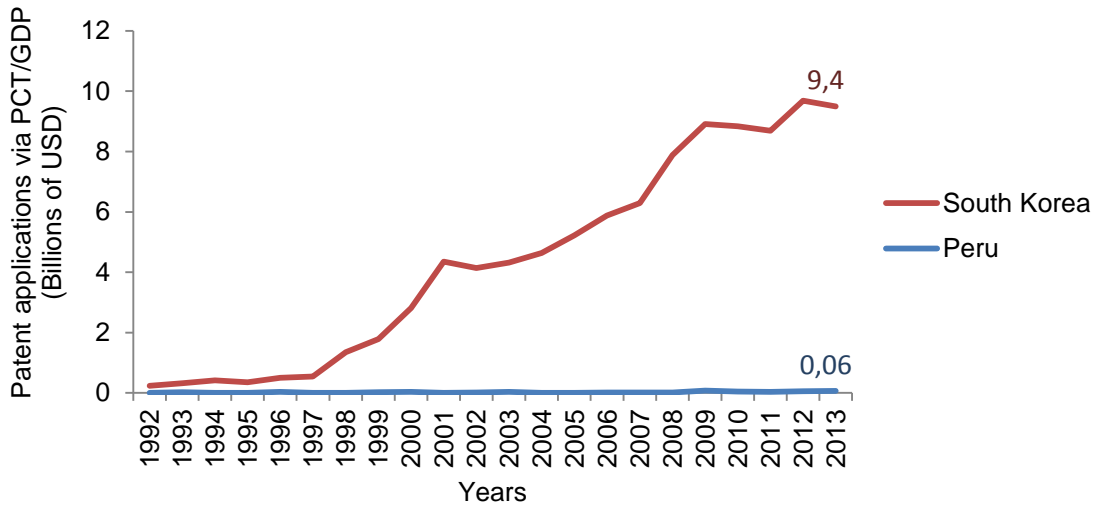
Own preparation. Source: WIPO Website (March 2015) ([www.wipo.int](http://www.wipo.int))

**Graph 164. Patent applications via PCT per million people- Peru - South Korea**



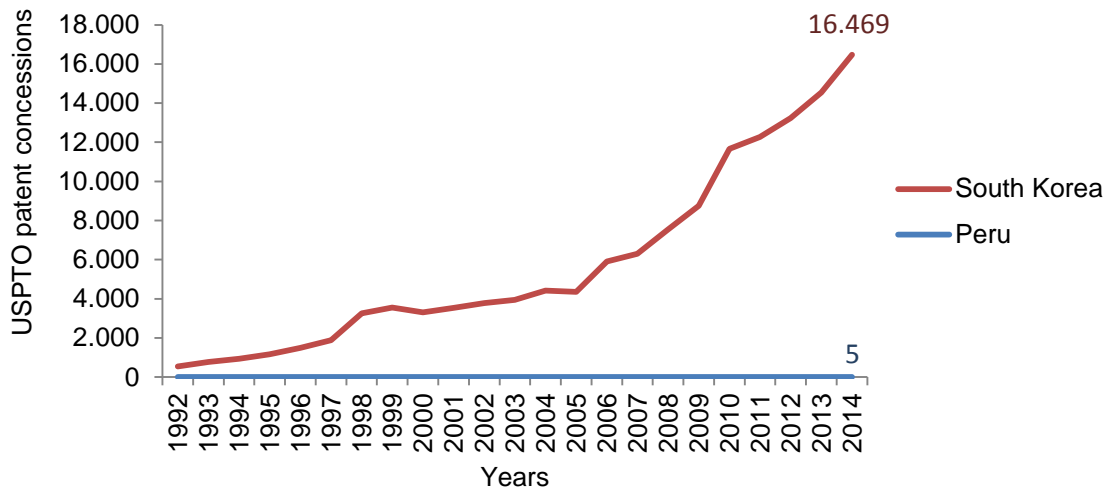
Own preparation. Source: WIPO Website (March 2015) ([www.wipo.int](http://www.wipo.int)) and World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 165. Patent applications via PCT/GDP- Peru - South Korea**



Own preparation. Source: WIPO Website (March 2015) ([www.wipo.int](http://www.wipo.int)) and United Nations Statistics Division (<http://unstats.un.org/>)

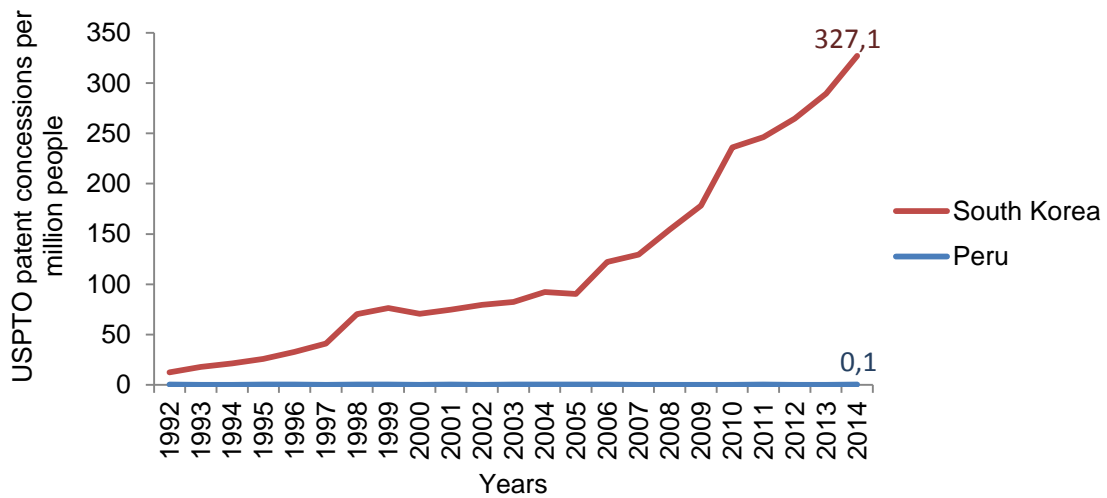
**Graph 166. USPTO patent concessions- Peru - South Korea**



Own preparation. Source: USPTO Website (March 2015) ([http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst\\_utlh.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst_utlh.htm))

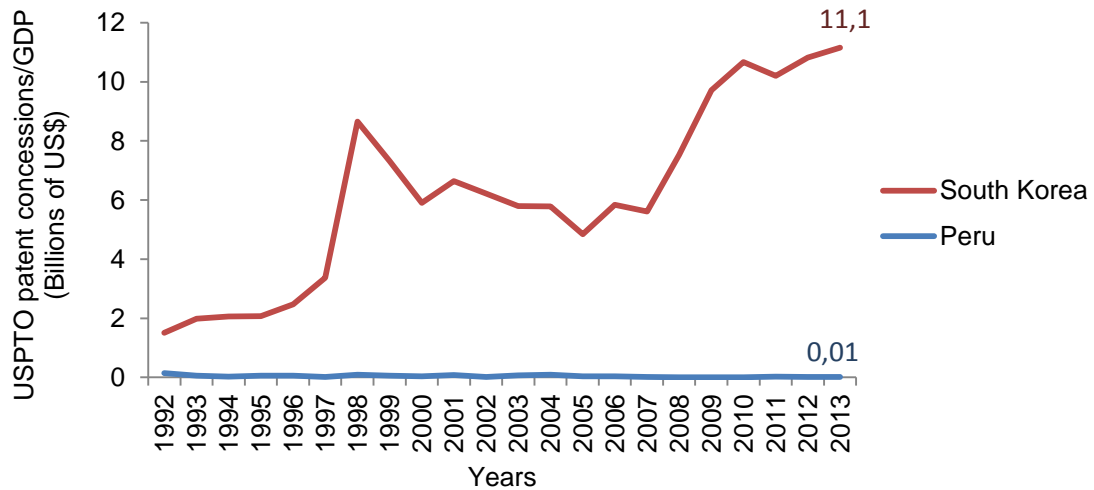


**Graph 167. USPTO patent concessions per million people - Peru - South Korea**



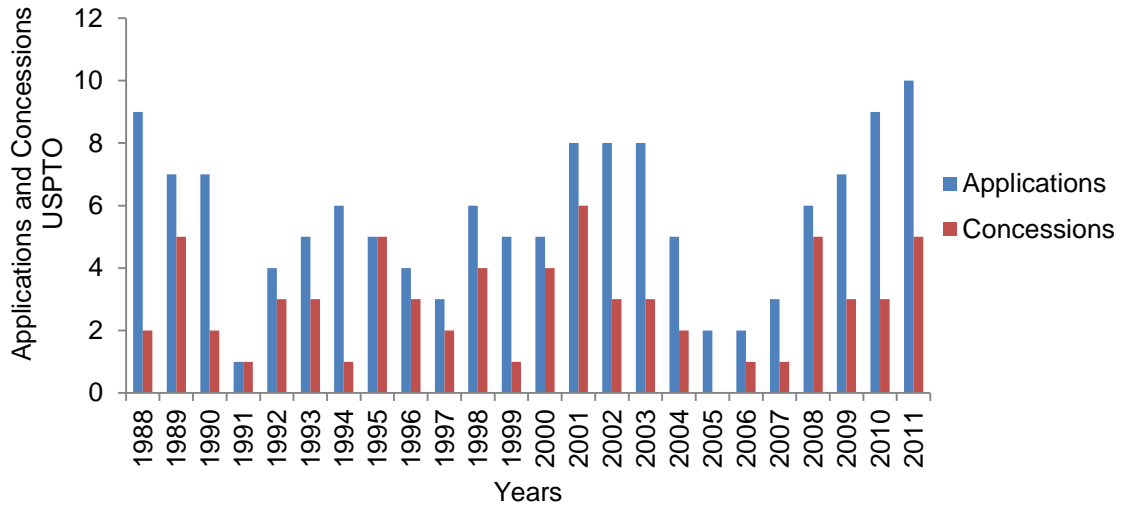
Own preparation. Source: USPTO Website (March 2015) [http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst\\_utlh.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst_utlh.htm) and World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 168. USPTO patent concessions/GDP- Peru - South Korea**



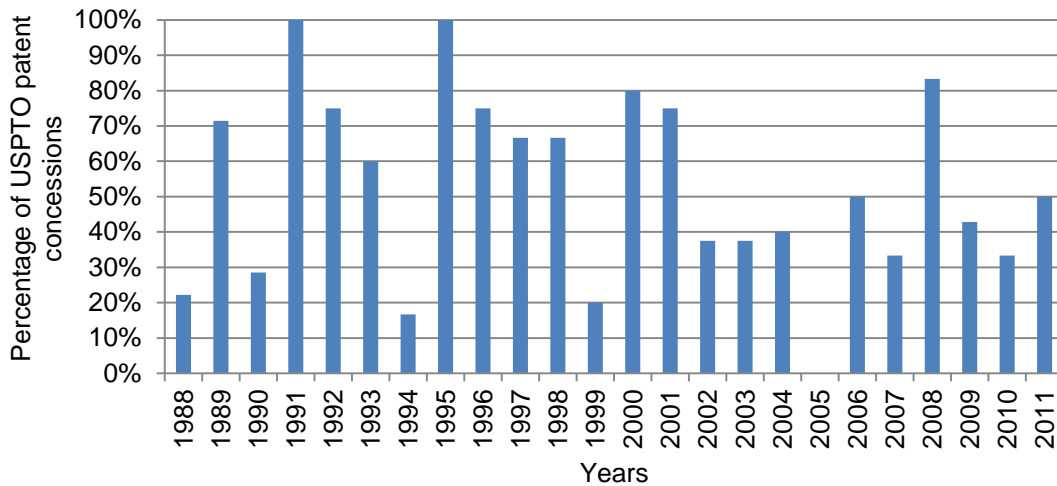
Own preparation. Source: USPTO Website (March 2015) [http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst\\_utlh.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst_utlh.htm) and United Nations Statistics Division <http://unstats.un.org/>

**Graph 169. Application vs. USPTO patent concessions- Peru**



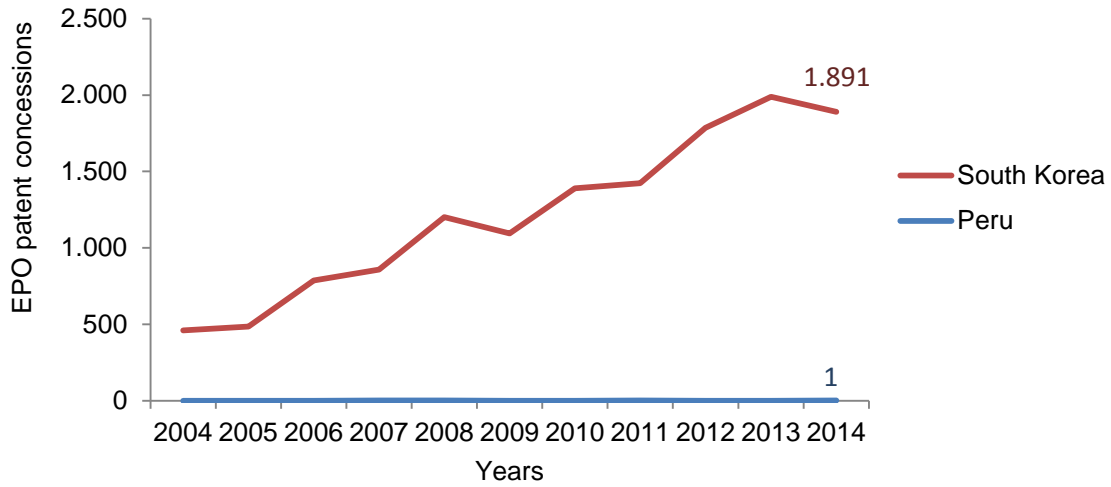
Own preparation. Source: USPTO Website (March 2015) – Concessions [http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst\\_utlh.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst_utlh.htm) and Application [http://www.uspto.gov/web/offices/ac/ido/oeip/taf/appl\\_yr.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/appl_yr.htm)

**Graph 170. Percentage of USPTO patent concessions- Peru**



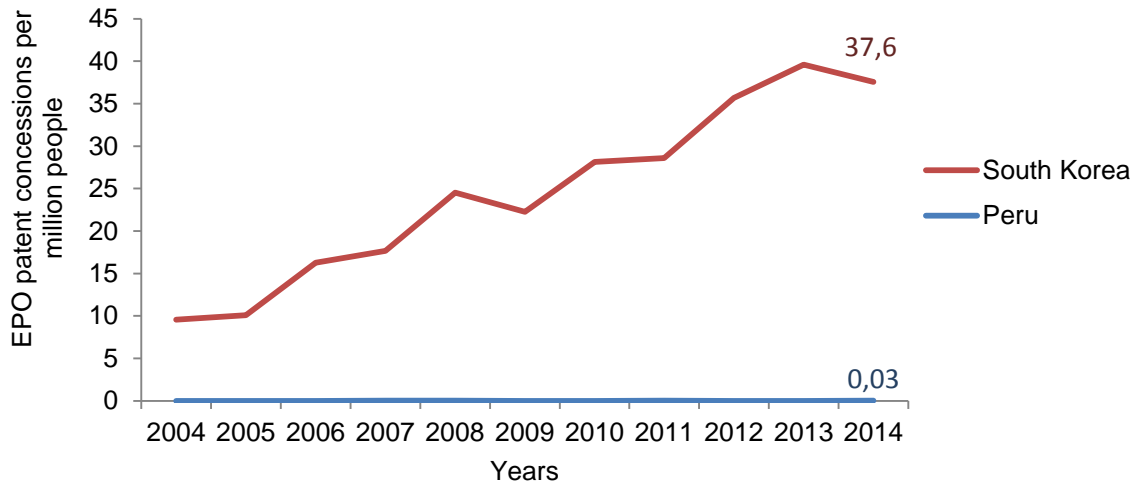
Own preparation. Source: USPTO Website (March 2015) – Concessions [http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst\\_utlh.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst_utlh.htm) and Application [http://www.uspto.gov/web/offices/ac/ido/oeip/taf/appl\\_yr.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/appl_yr.htm)

**Graph 171. EPO patent concessions- Peru - South Korea**



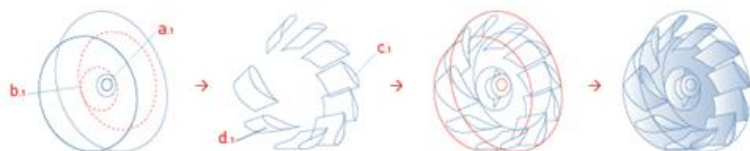
Own preparation. Source: EPO Website (March 2015) <http://www.epo.org/about-us/annual-reports-statistics/statistics.html>

**Graph 172. EPO patent concessions per million people- Peru - South Korea**

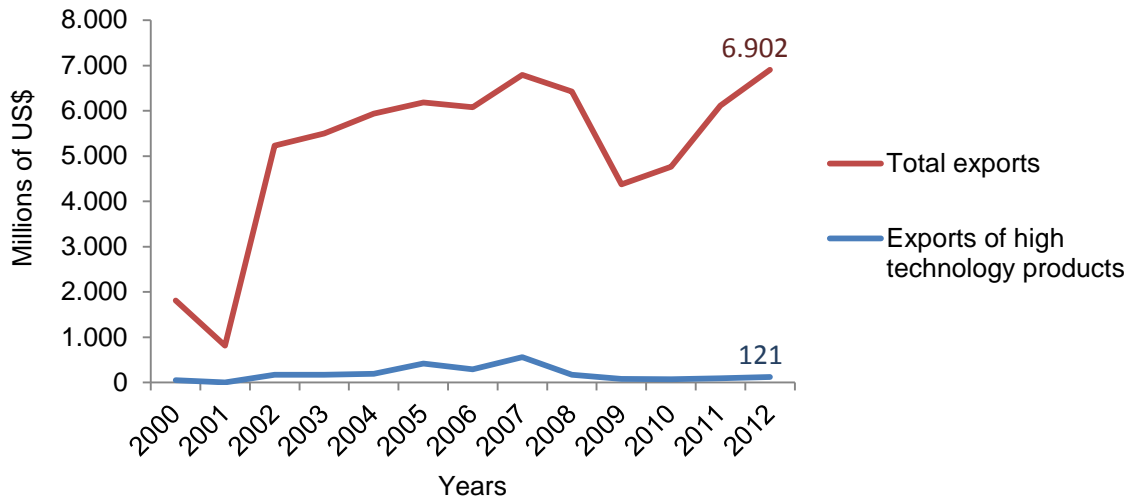


Own preparation. Source: EPO Website (March 2015) <http://www.epo.org/about-us/annual-reports-statistics/statistics.html> and World Bank (March 2015) <http://datos.bancomundial.org/>

# DOMINICAN REPUBLIC

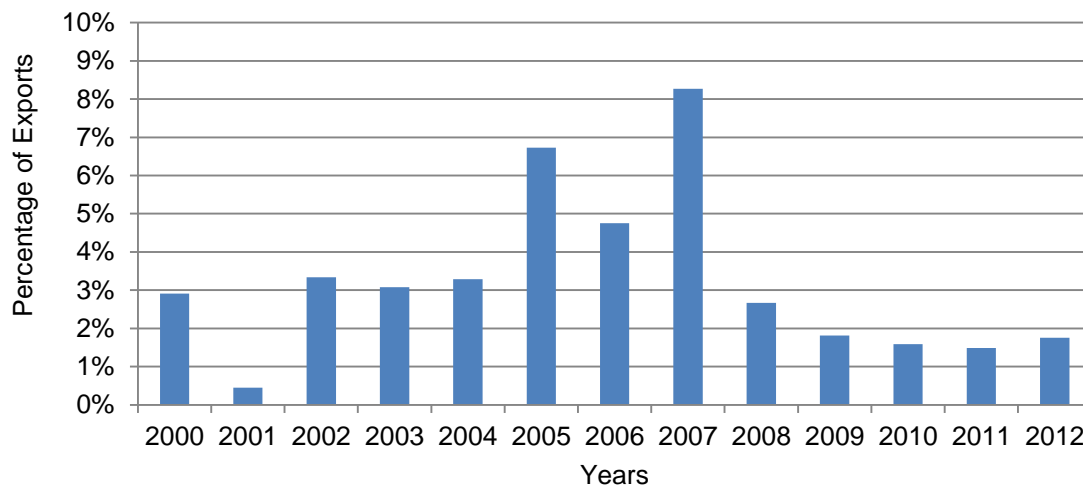


**Graph 173. Total Exports vs. Exports of high technology products- Dominican Republic**



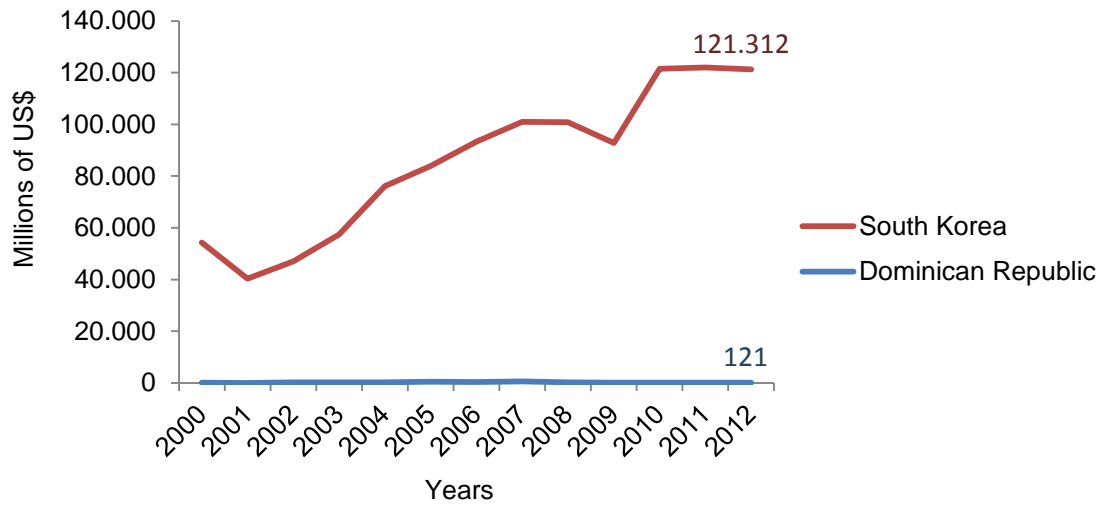
Own preparation. Source: United Nations Statistics Division (March 2015) <http://unstats.un.org/unsd/default.htm> and World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 174. Percentage of Exports of high technology products on total exports - Dominican Republic**



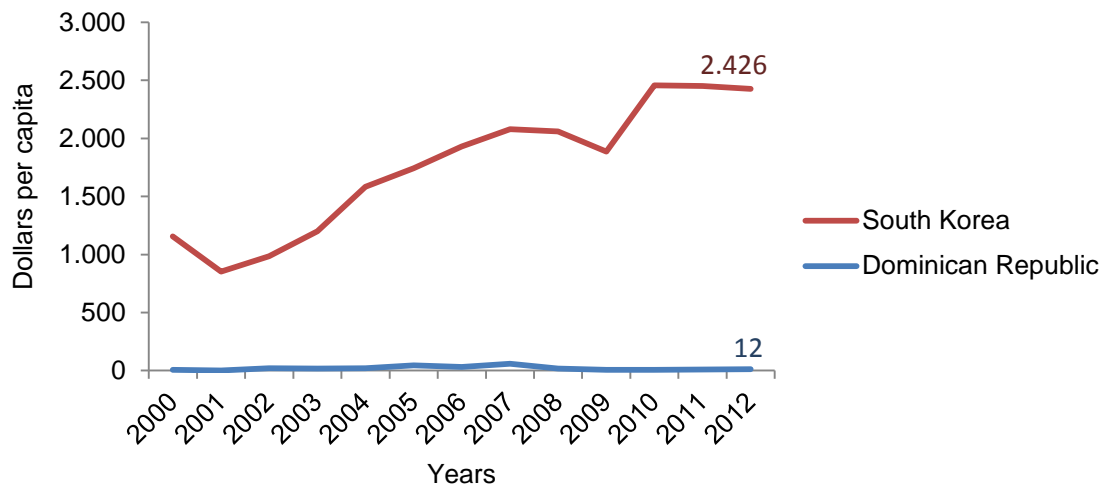
Own preparation. Source: United Nations Statistics Division (March 2015) <http://unstats.un.org/unsd/default.htm> and World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 175. Exports of high technology products- Dominican Republic - South Korea**



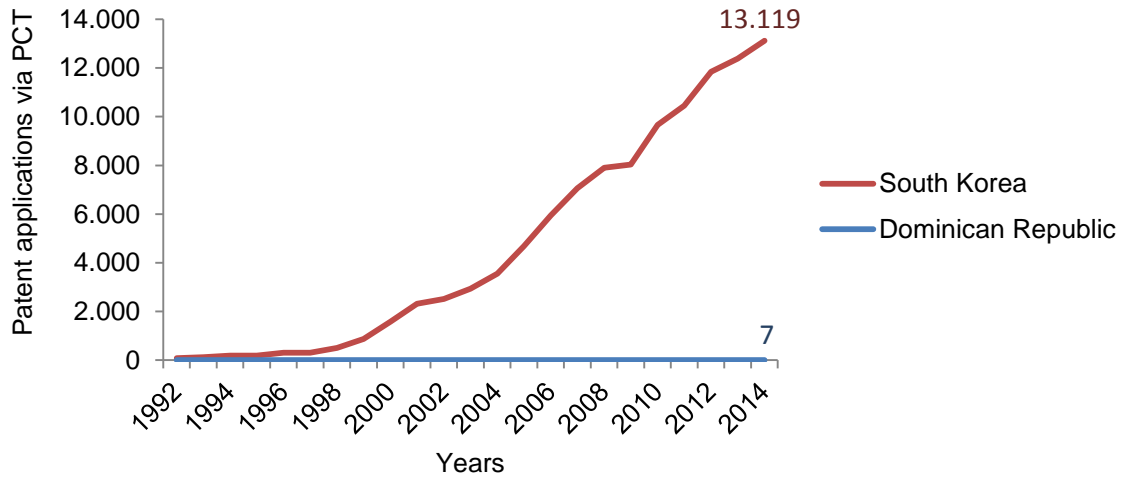
Own preparation. Source: World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 176. Exports of high technology products per capita- Dominican Republic - South Korea**



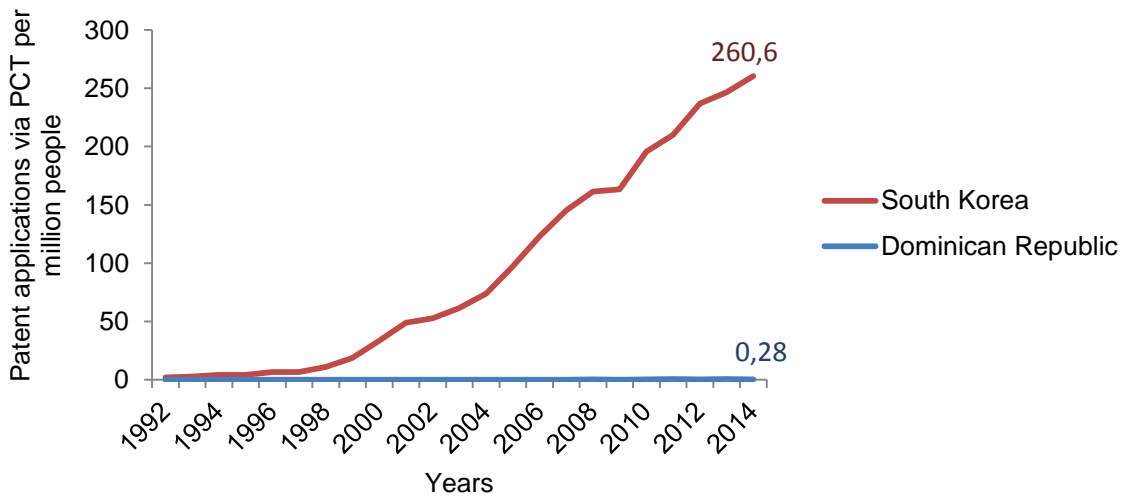
Own preparation. Source: World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 177. Patent applications via PCT- Dominican Republic - South Korea**



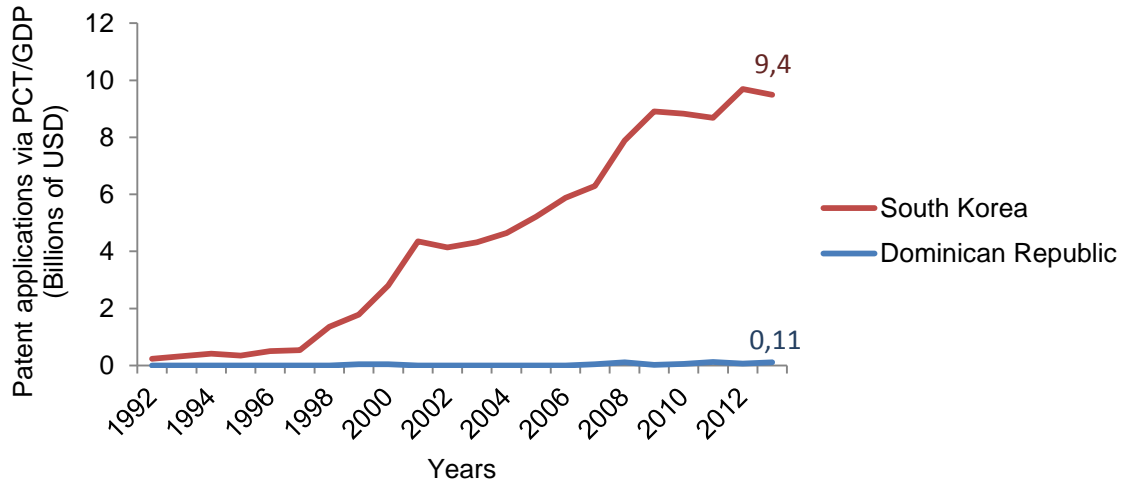
Own preparation. Source: WIPO Website (March 2015) ([www.wipo.int](http://www.wipo.int))

**Graph 178. Patent applications via PCT per million people- Dominican Republic - South Korea**



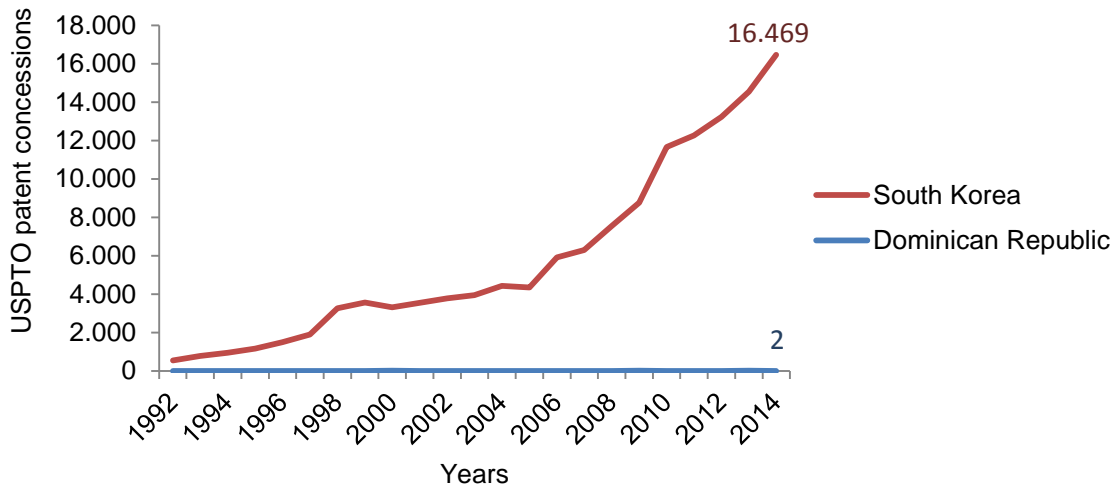
Own preparation. Source: WIPO Website (March 2015) ([www.wipo.int](http://www.wipo.int)) and World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 179. Patent applications via PCT/GDP- Dominican Republic - South Korea**



Own preparation. Source: WIPO Website (March 2015) ([www.wipo.int](http://www.wipo.int)) and United Nations Statistics Division (March 2015) (<http://unstats.un.org/>)

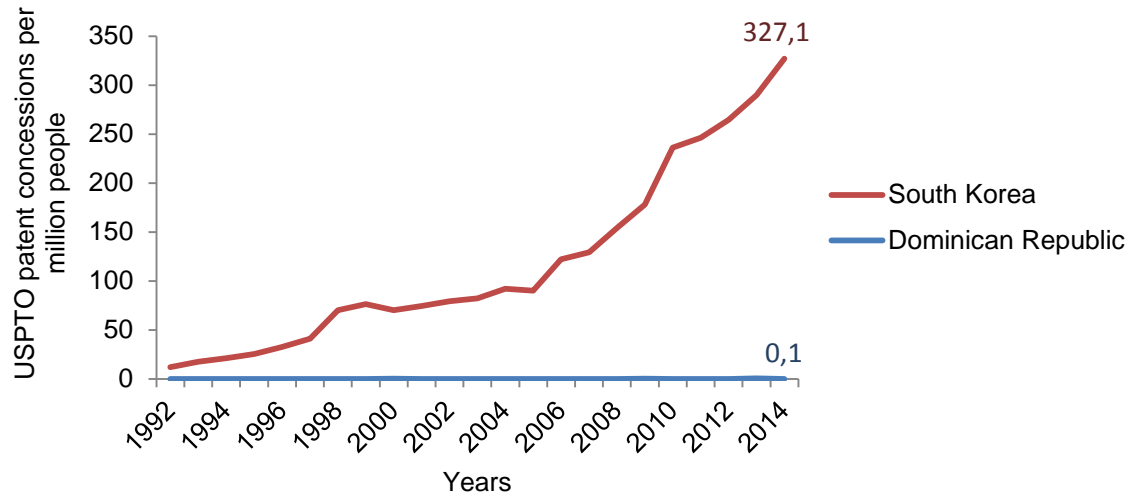
**Graph 180. USPTO patent concessions- Dominican Republic - South Korea**



Own preparation. Source: USPTO Website (March 2015) ([http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst\\_utlh.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst_utlh.htm))

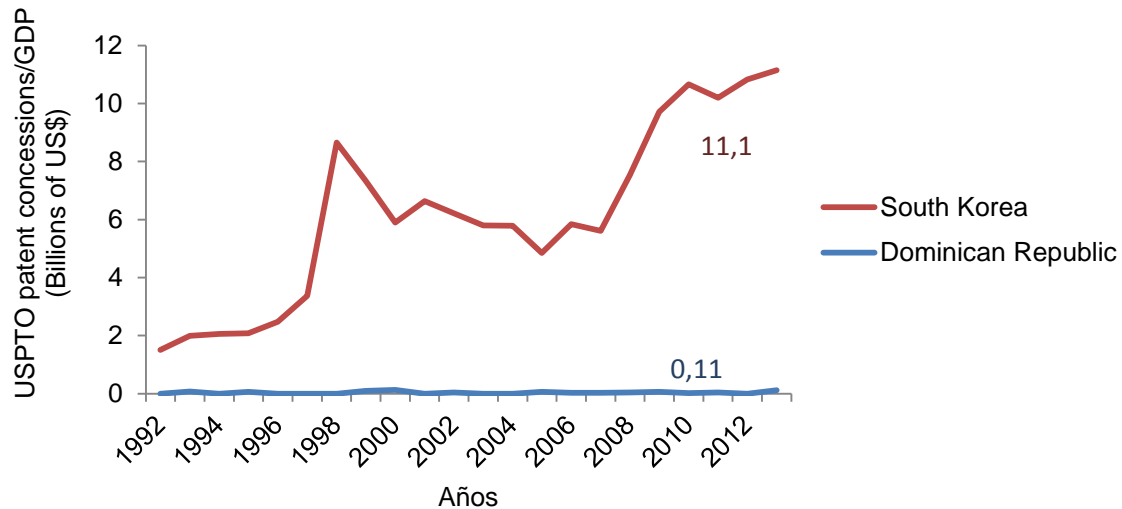


**Graph 181. USPTO patent concessions per million people- Dominican Republic - South Korea**



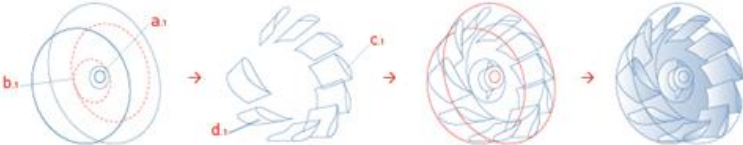
Own preparation. Source: USPTO Website (March 2015) [http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst\\_utlh.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst_utlh.htm) and World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 182. USPTO patent concessions/GDP- Dominican Republic - South Korea**

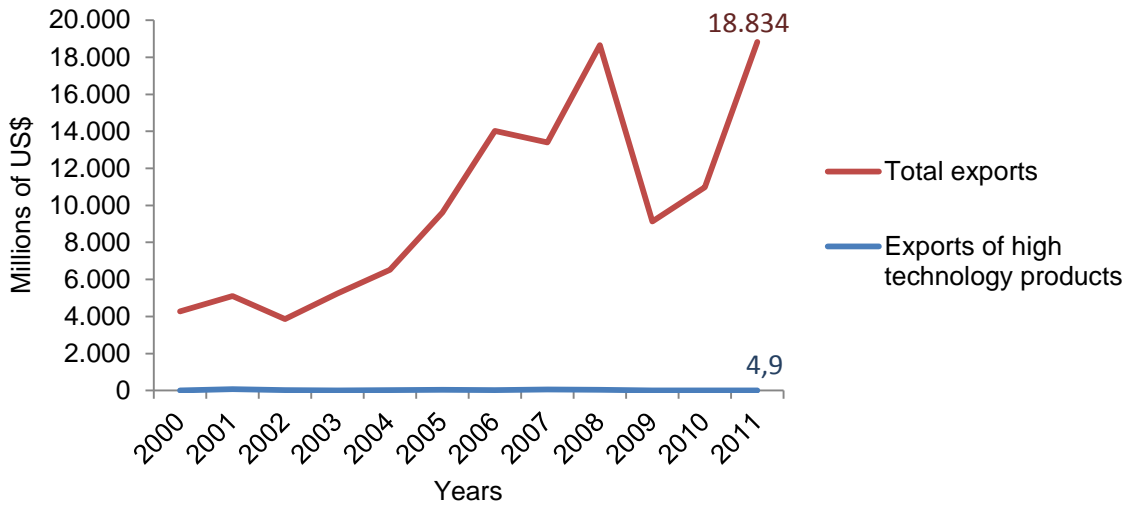


Own preparation. Source: USPTO Website (March 2015) [http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst\\_utlh.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst_utlh.htm) and United Nations Statistics Division (March 2015) <http://unstats.un.org/>

# TRINIDAD AND TOBAGO

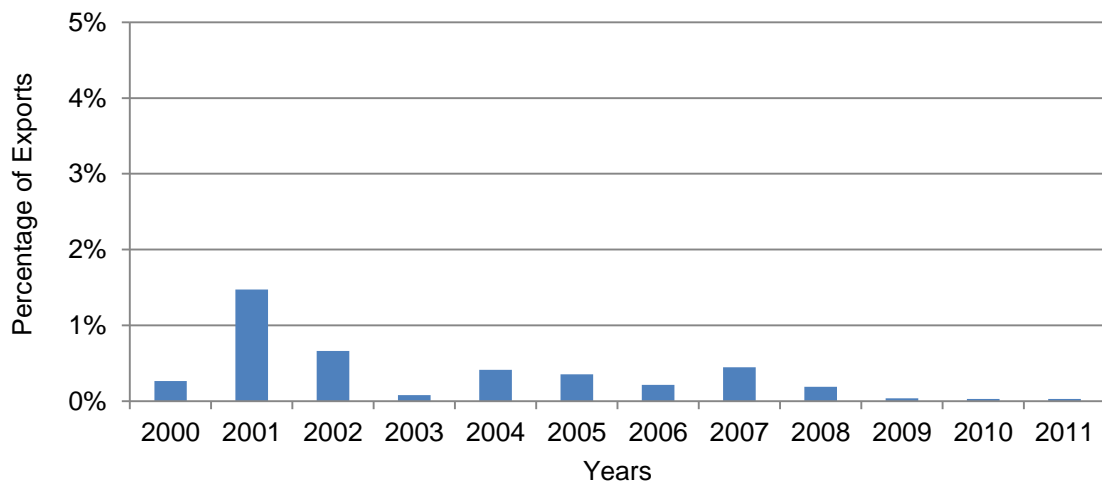


**Graph 183. Total Exports vs. Exports of high technology products- Trinidad and Tobago**



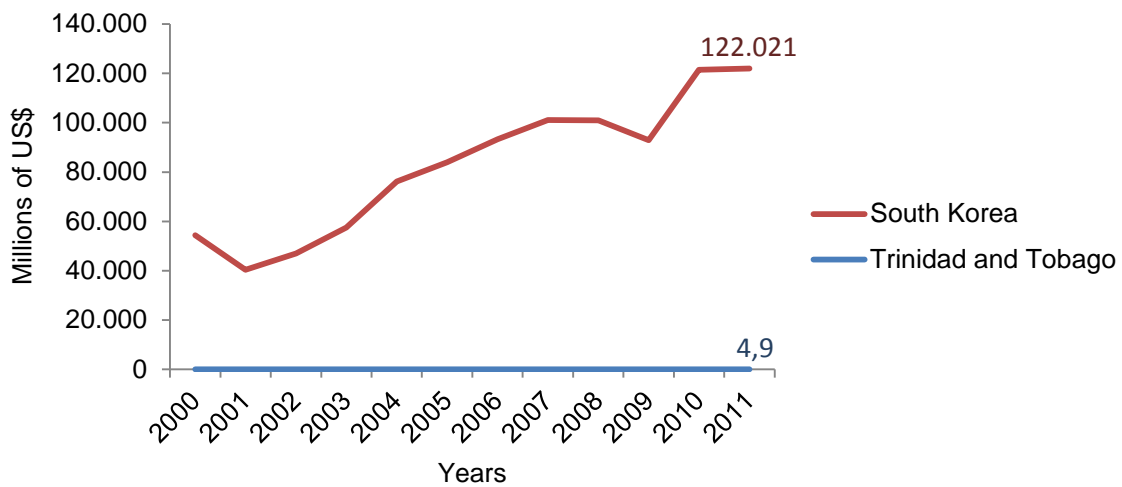
Own preparation. Source: United Nations Statistics Division (March 2015) <http://unstats.un.org/unsd/default.htm> and World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 184. Percentage of Exports of high technology products on total exports - Trinidad and Tobago**



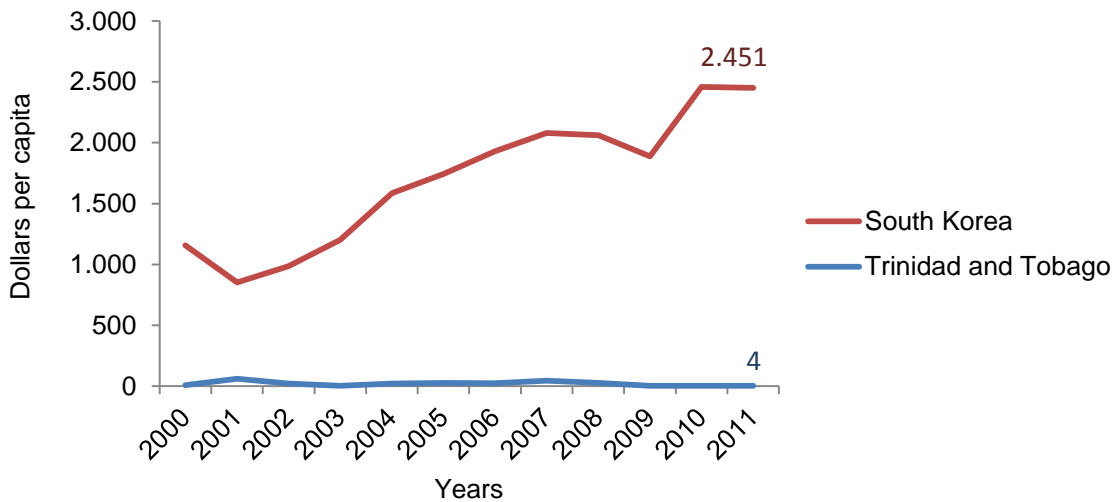
Own preparation. Source: United Nations Statistics Division (March 2015) <http://unstats.un.org/unsd/default.htm> and World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 185. Exports of high technology products- Trinidad and Tobago - South Korea**



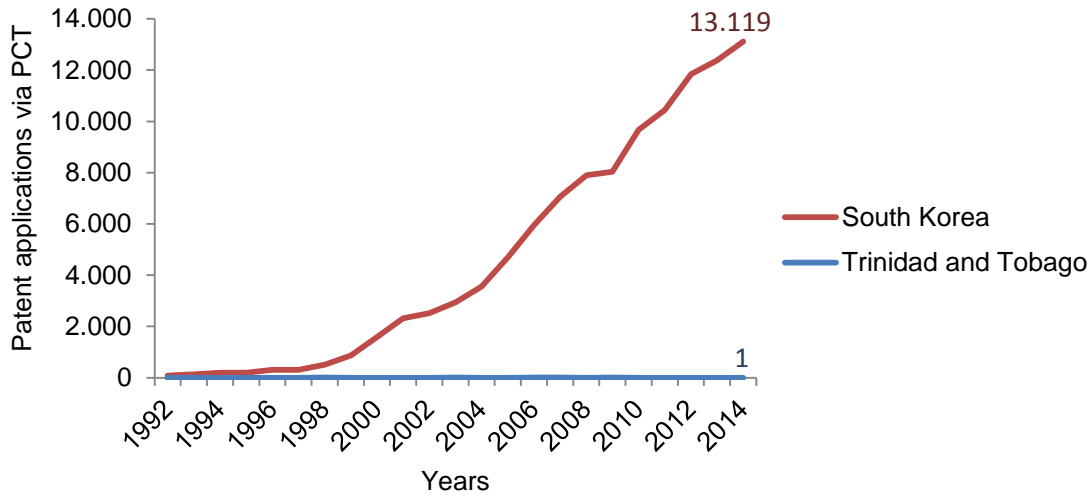
Own preparation. Source: World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 186. Exports of high technology products per capita- Trinidad and Tobago - South Korea**



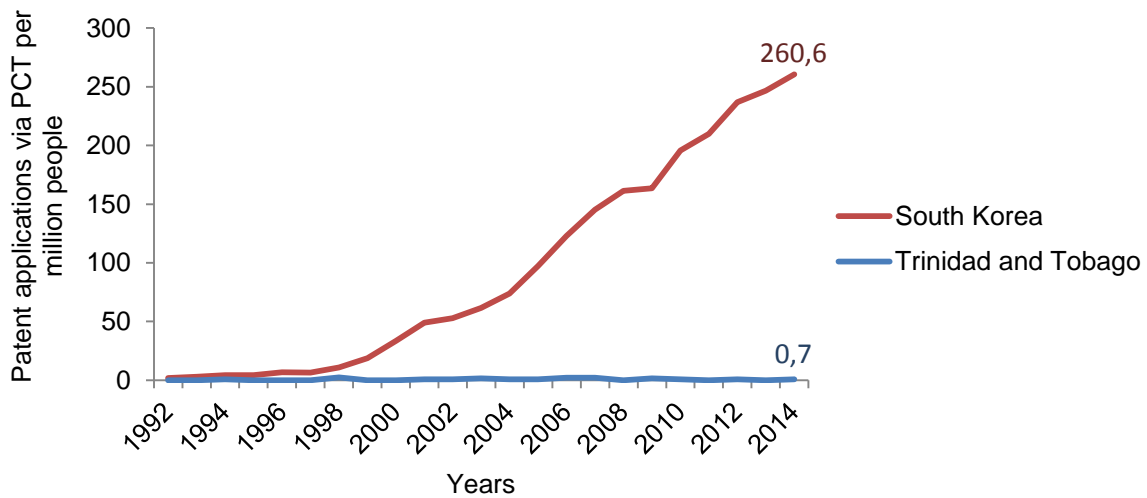
Own preparation. Source: World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 187. Patent applications via PCT- Trinidad and Tobago - South Korea**



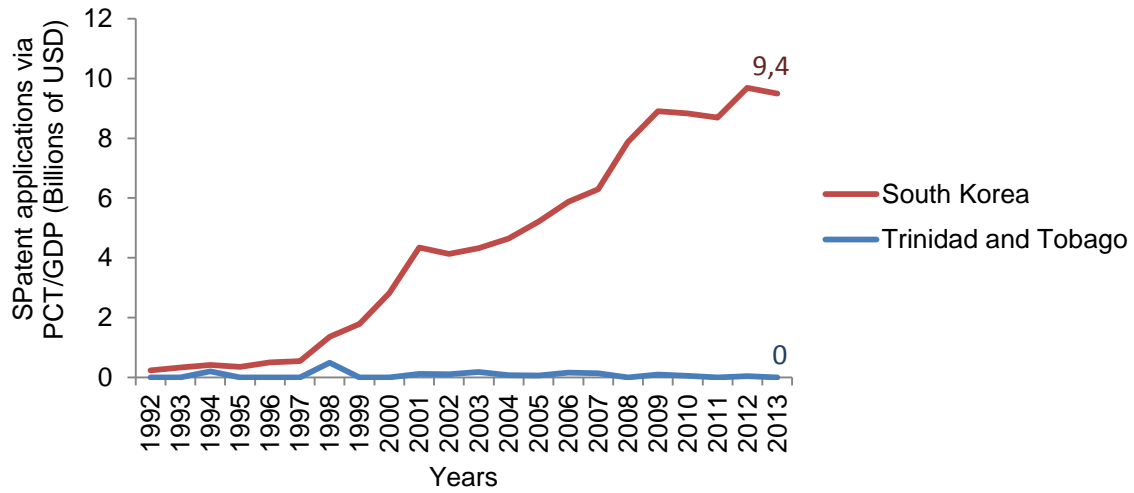
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**Graph 188. Patent applications via PCT per million people- Trinidad and Tobago - South Korea**



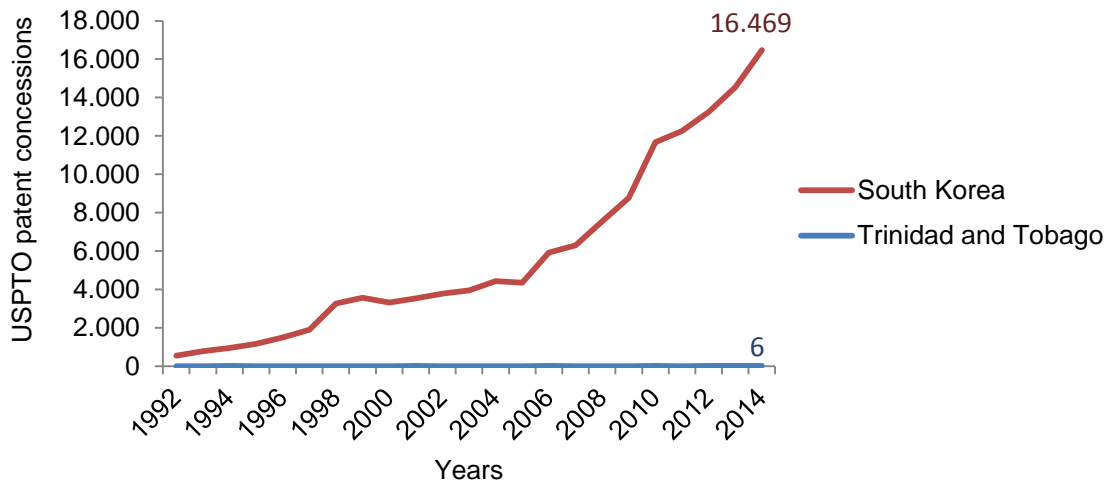
Own preparation. Source: WIPO Website (March 2015) ([www.wipo.int](http://www.wipo.int)) and World Bank (March 2015) (<http://datos.bancomundial.org/>)

**Graph 189. Patent applications via PCT/GDP- Trinidad and Tobago - South Korea**



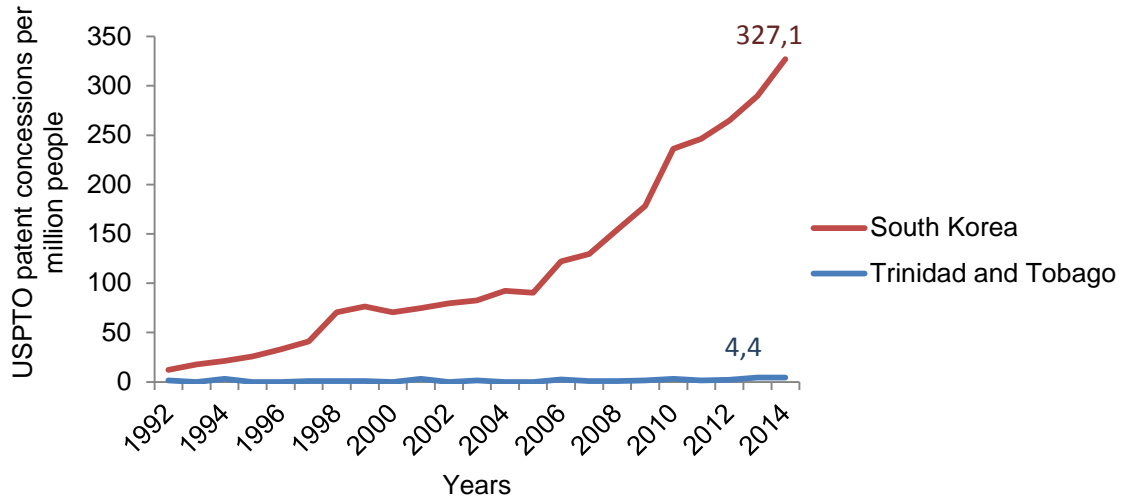
Own preparation. Source: WIPO Website (March 2015) ([www.wipo.int](http://www.wipo.int)) and United Nations Statistics Division (<http://unstats.un.org/>)

**Graph 190. USPTO patent concessions- Trinidad and Tobago - South Korea**



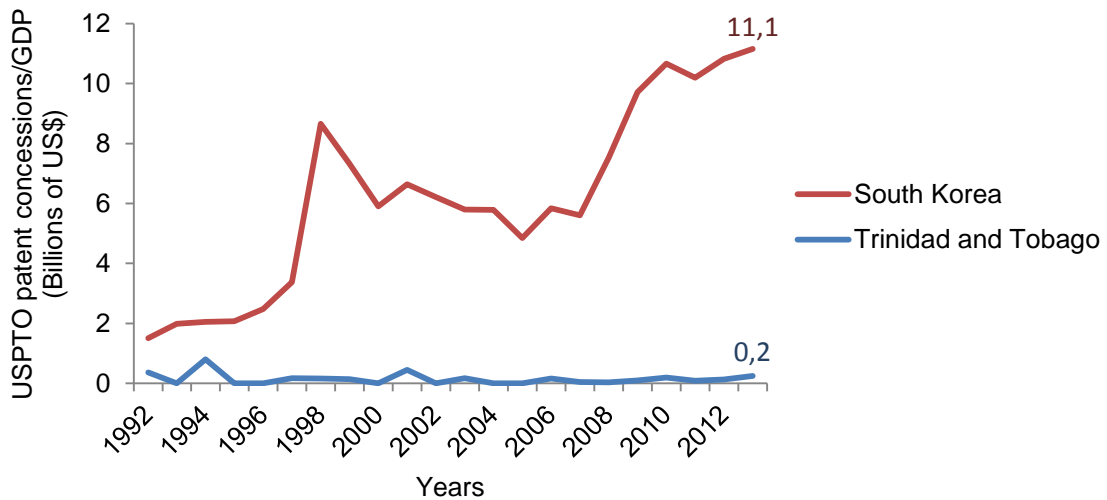
Own preparation. Source: USPTO Website (March 2015) ([http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst\\_utilh.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst_utilh.htm))

**Graph 191. USPTO patent concessions per million people- Trinidad and Tobago - South Korea**



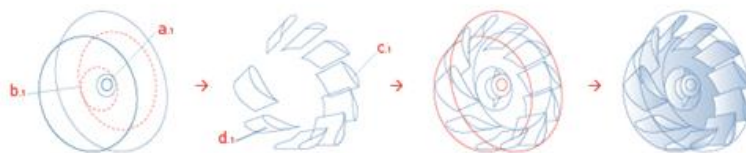
Own preparation. Source: USPTO Website (March 2015) [http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst\\_utlh.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst_utlh.htm) and World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 192. USPTO patent concessions/GDP- Trinidad and Tobago - South Korea**



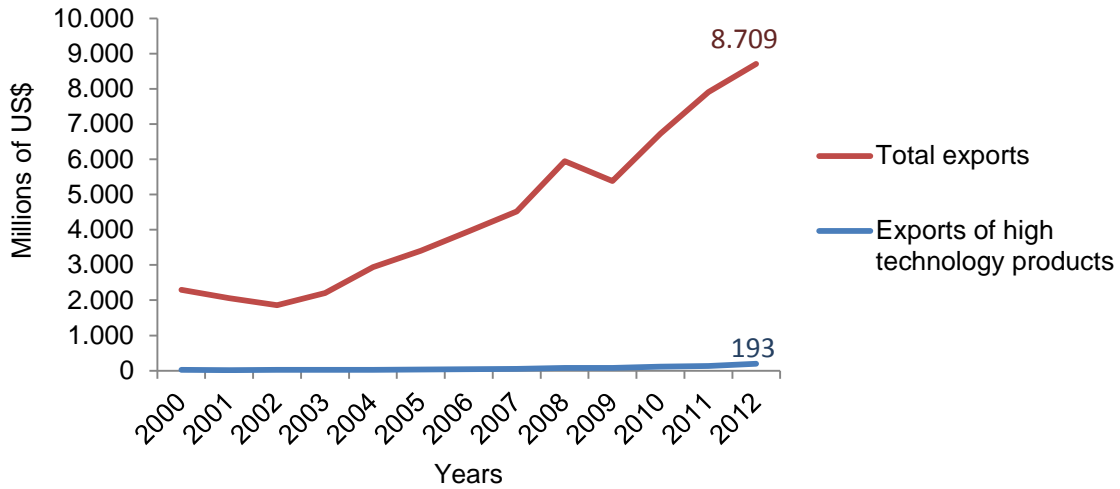
Own preparation. Source: USPTO Website (March 2015) [http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst\\_utlh.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst_utlh.htm) and United Nations Statistics Division (March 2015) <http://unstats.un.org/>

# URUGUAY



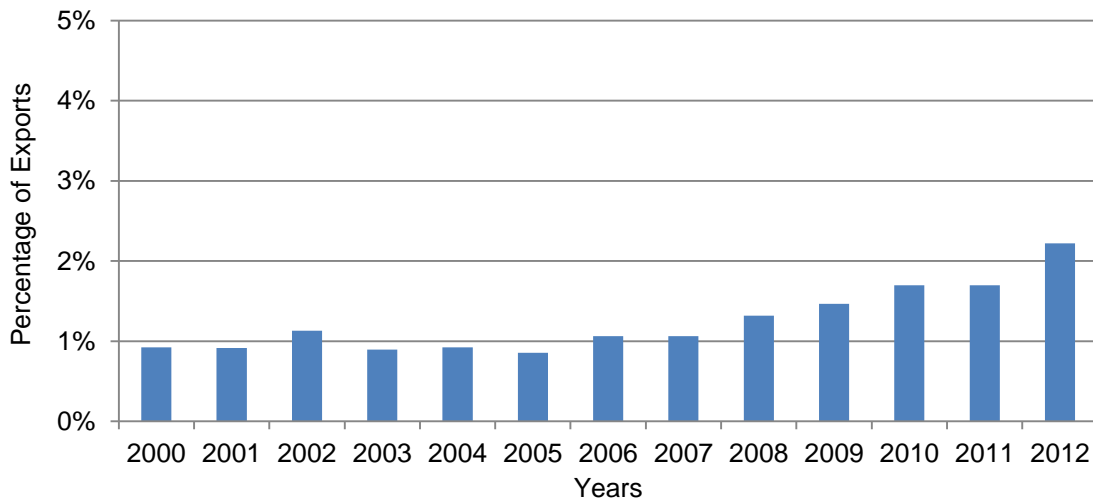


**Graph 193. Total Exports vs. Exports of high technology products- Uruguay**



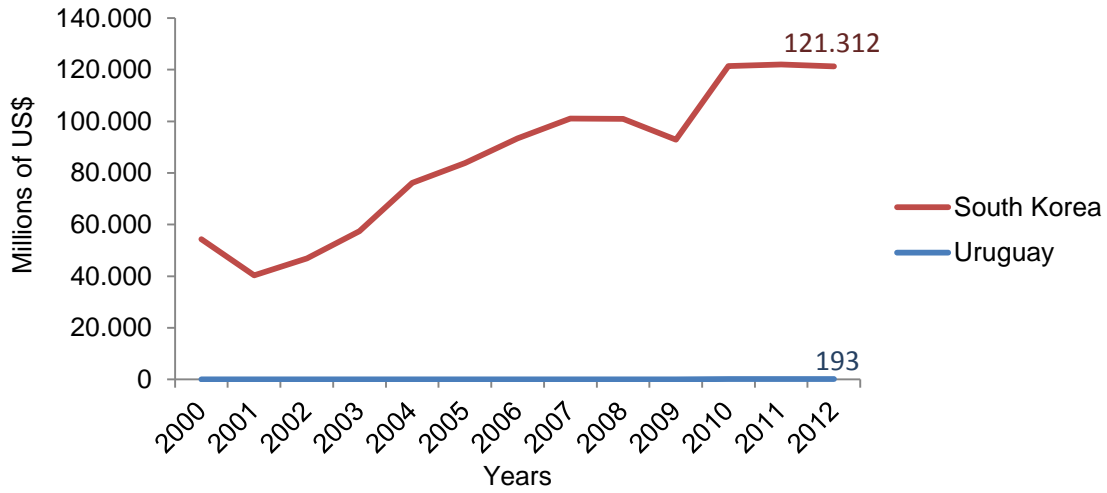
Own preparation. Source: United Nations Statistics Division (March 2015) <http://unstats.un.org/unsd/default.htm> and World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 194. Percentage of Exports of high technology products on total exports - Uruguay**



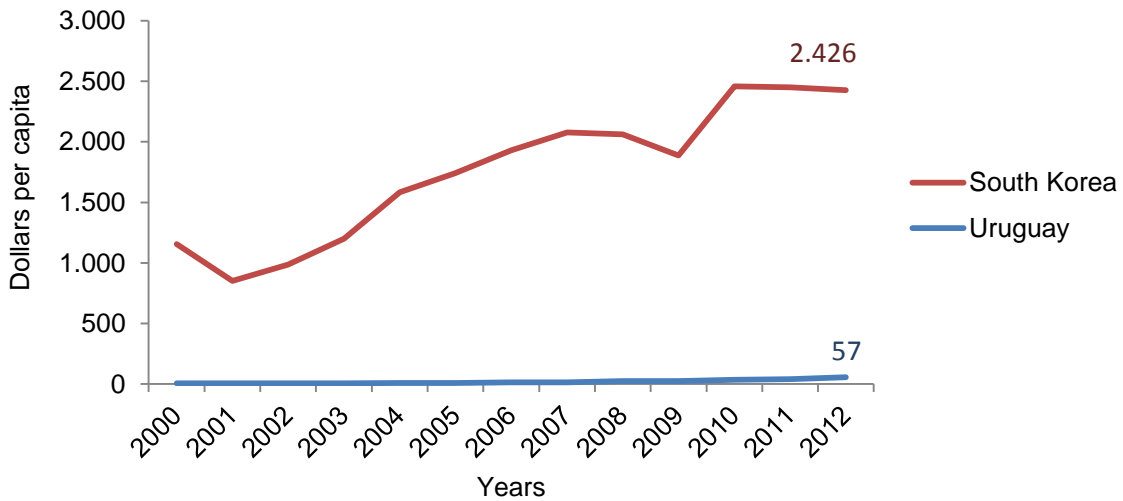
Own preparation. Source: United Nations Statistics Division (March 2015) <http://unstats.un.org/unsd/default.htm> and World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 195. Exports of high technology products- Uruguay - South Korea**



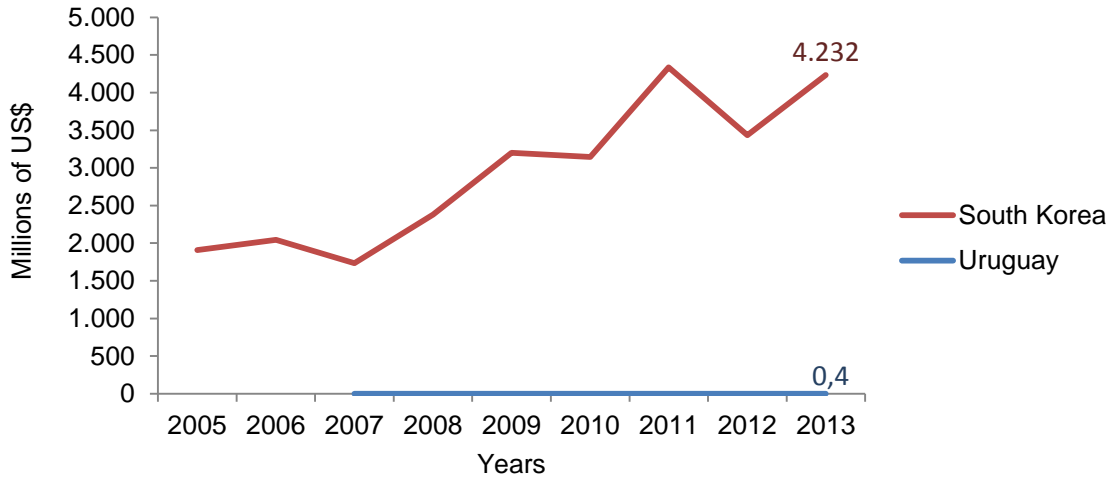
Own preparation. Source: World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 196. Exports of high technology products per capita- Uruguay - South Korea**



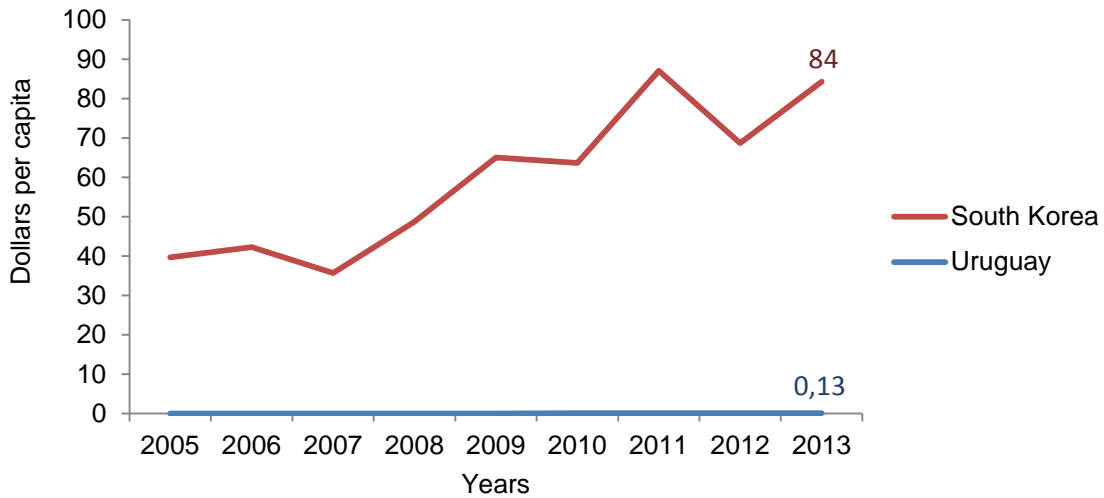
Own preparation. Source: World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 197. Royalties for the use of intellectual property- Uruguay - South Korea**



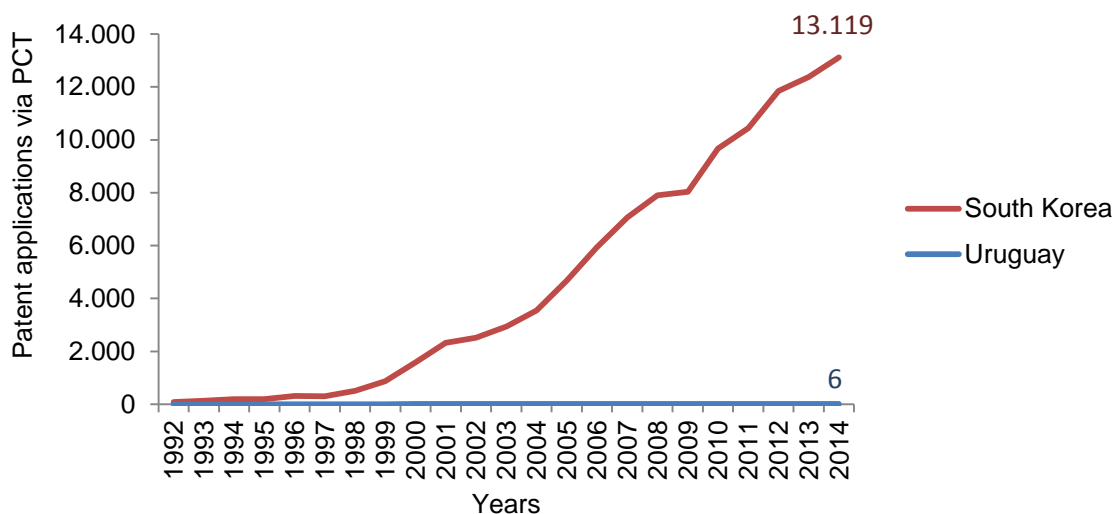
Own preparation. Source: World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 198. Royalties for the use of intellectual property per capita- Uruguay - South Korea**



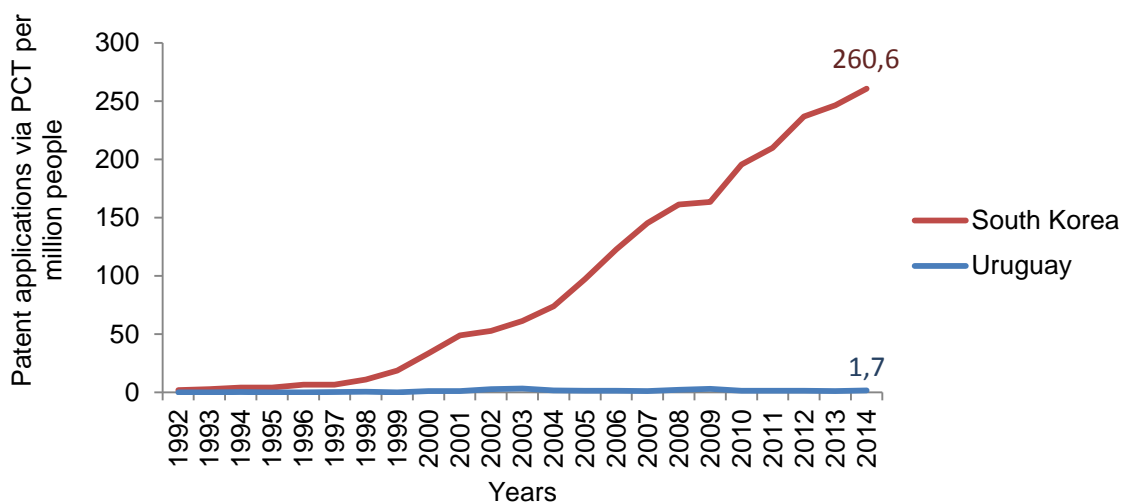
Own preparation. Source: World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 199. Patent applications via PCT- Uruguay - South Korea**



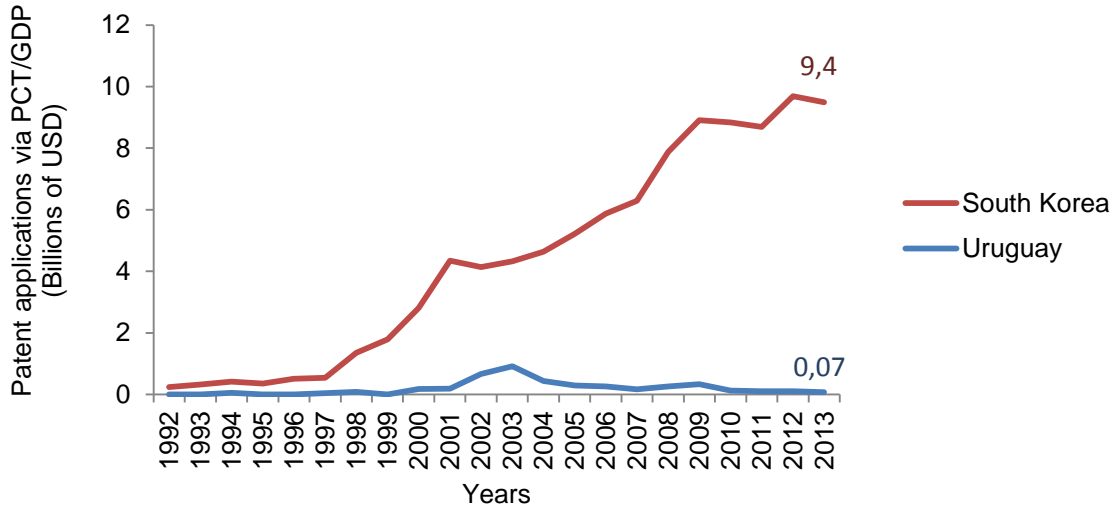
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**Graph 200. Patent applications via PCT per million people- Uruguay - South Korea**



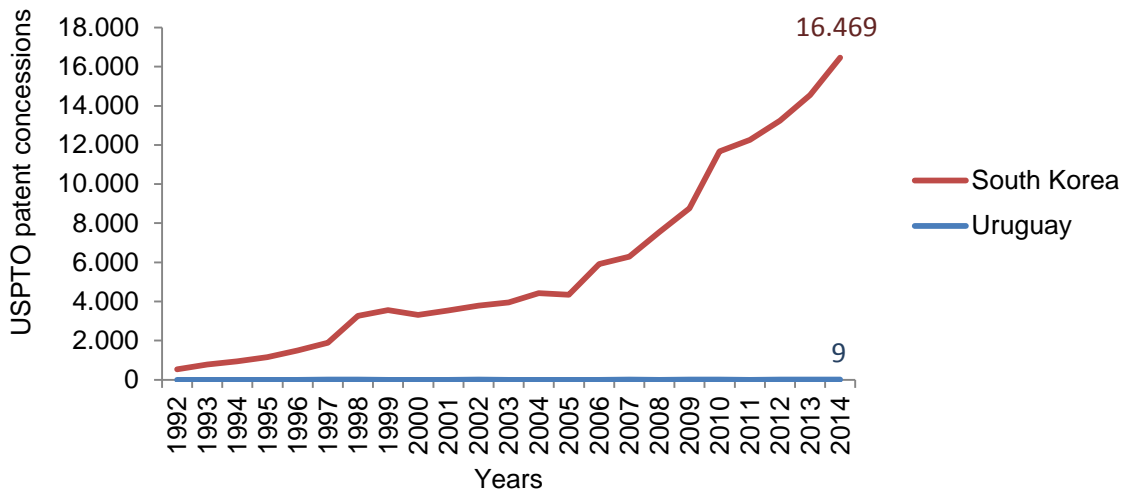
Own preparation. Source: WIPO Website (March 2015) ([www.wipo.int](http://www.wipo.int)) and World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 201. Patent applications via PCT/GDP- Uruguay - South Korea**



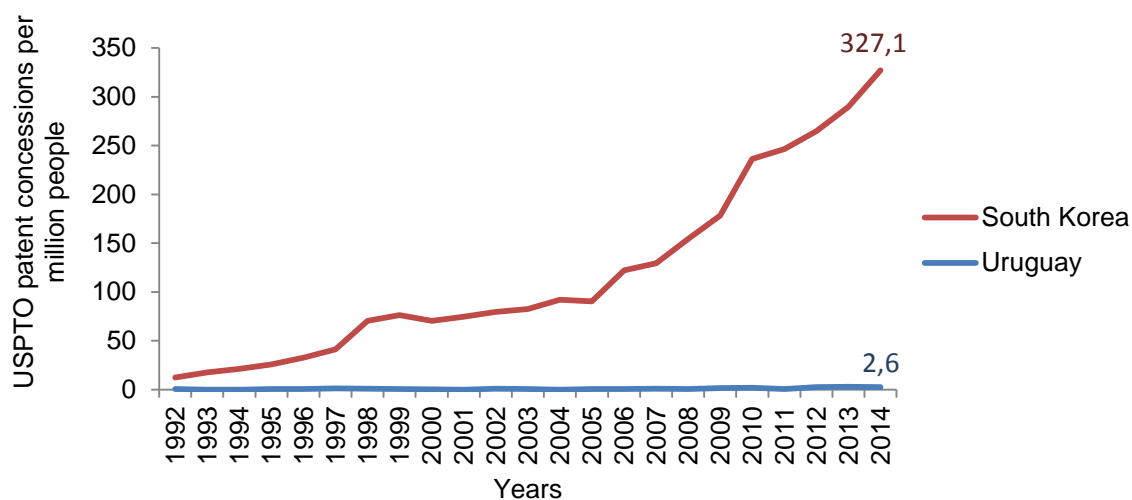
Own preparation. Source: WIPO Website (March 2015) ([www.wipo.int](http://www.wipo.int)) and United Nations Statistics Division (March 2015) <http://unstats.un.org/>

**Graph 202. USPTO patent concessions- Uruguay - South Korea**



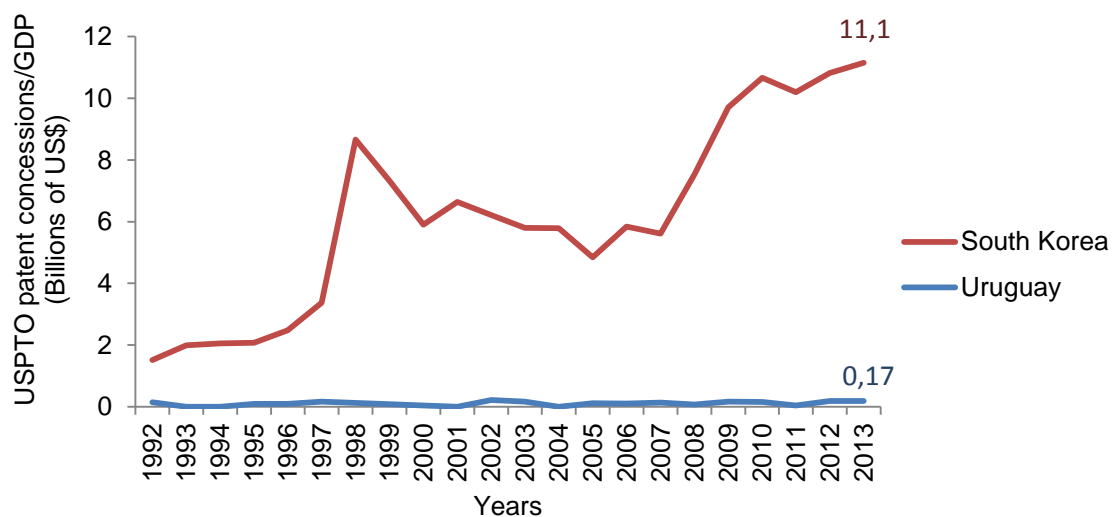
Own preparation. Source: USPTO Website (March 2015) [http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst\\_utlh.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst_utlh.htm)

**Graph 203. USPTO patent concessions per million people- Uruguay - South Korea**



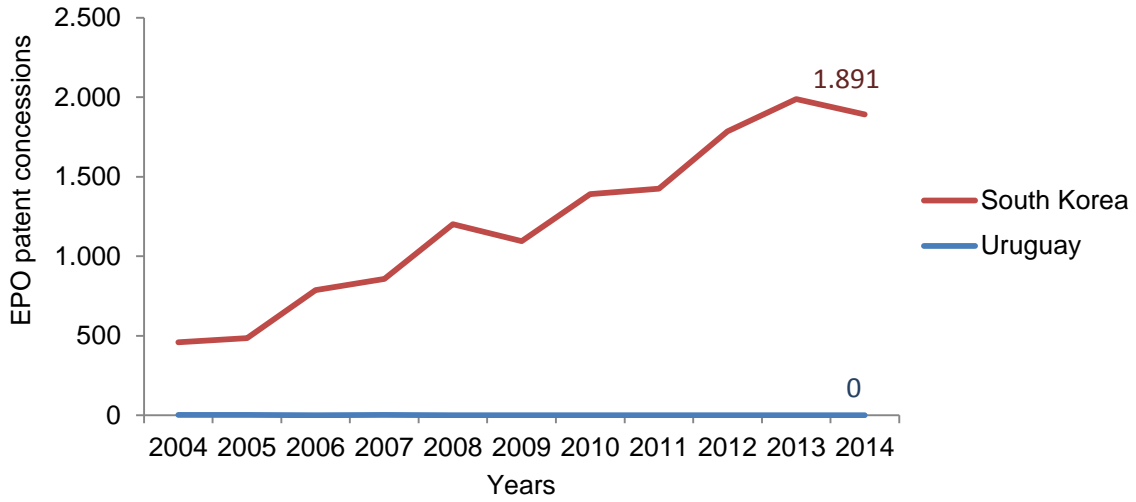
Own preparation. Source: USPTO Website (March 2015) [http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst\\_utlh.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst_utlh.htm) and World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 204. USPTO patent concessions/GDP- Uruguay - South Korea**



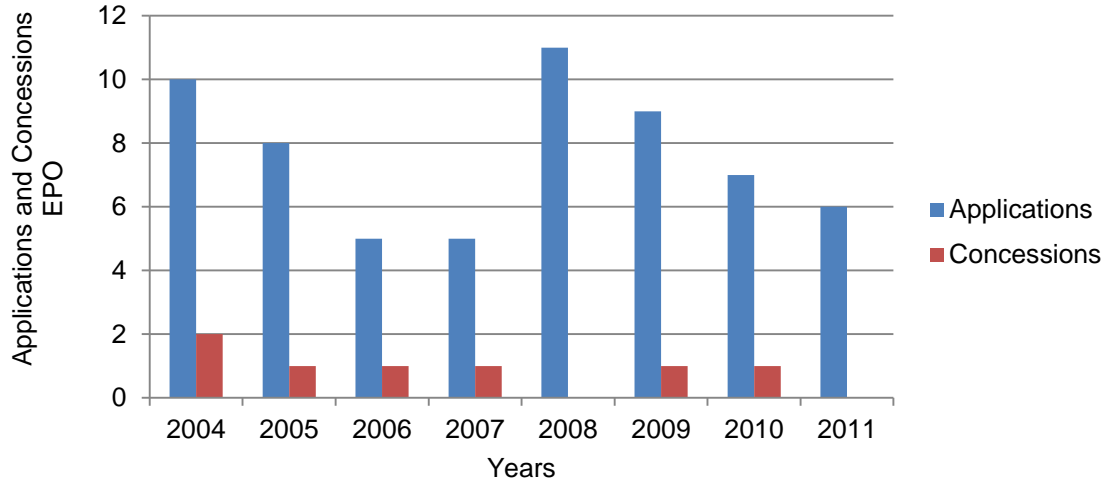
Own preparation. Source: USPTO Website (March 2015) [http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst\\_utlh.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst_utlh.htm) and United Nations Statistics Division (March 2015) <http://unstats.un.org/>

**Graph 205. EPO patent concessions- Uruguay - South Korea**



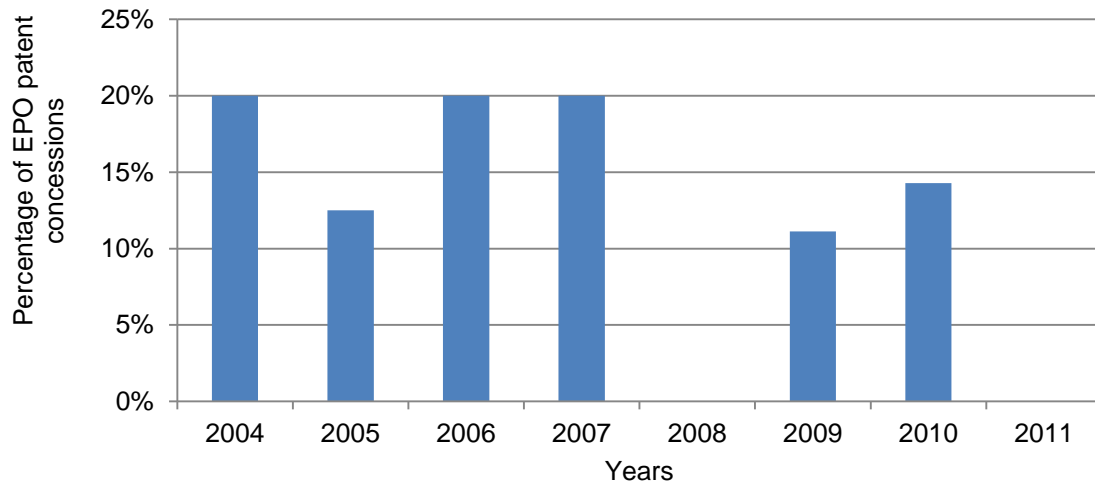
Own preparation. Source: EPO Website (March 2015) <http://www.epo.org/about-us/annual-reports-statistics/statistics.html>

**Graph 206. Application vs. EPO patent concessions- Uruguay**



Own preparation. Source: EPO Website (March 2015) <http://www.epo.org/about-us/annual-reports-statistics/statistics.html>

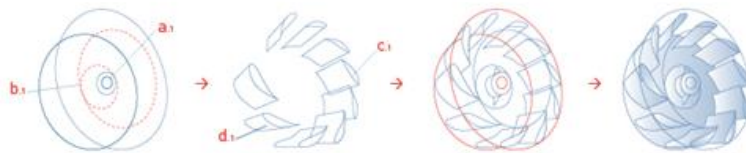
Graph 207. Percentage of EPO patent concessions - Uruguay



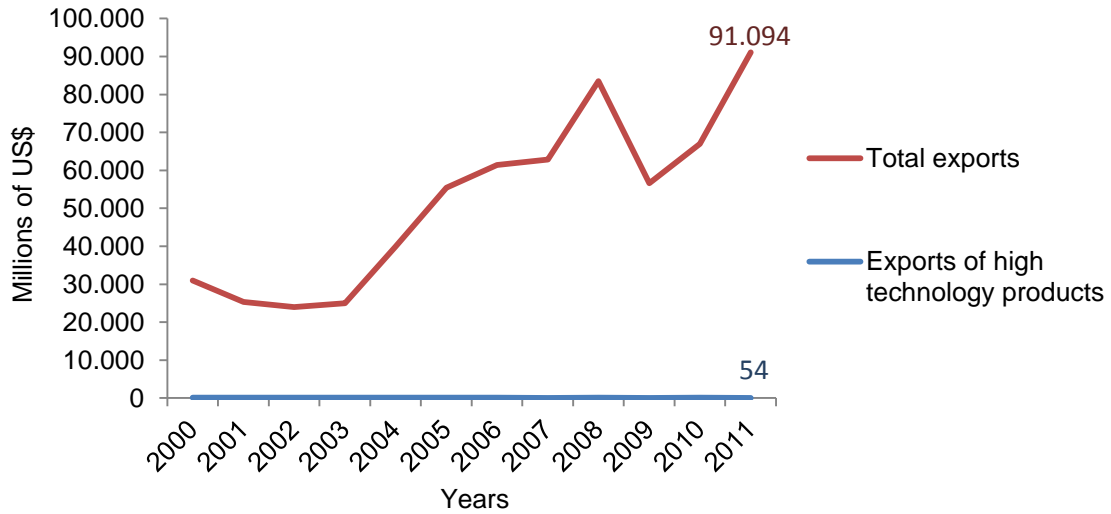
Own preparation. Source: EPO Website (March 2015) <http://www.epo.org/about-us/annual-reports-statistics/statistics.html>



# VENEZUELA

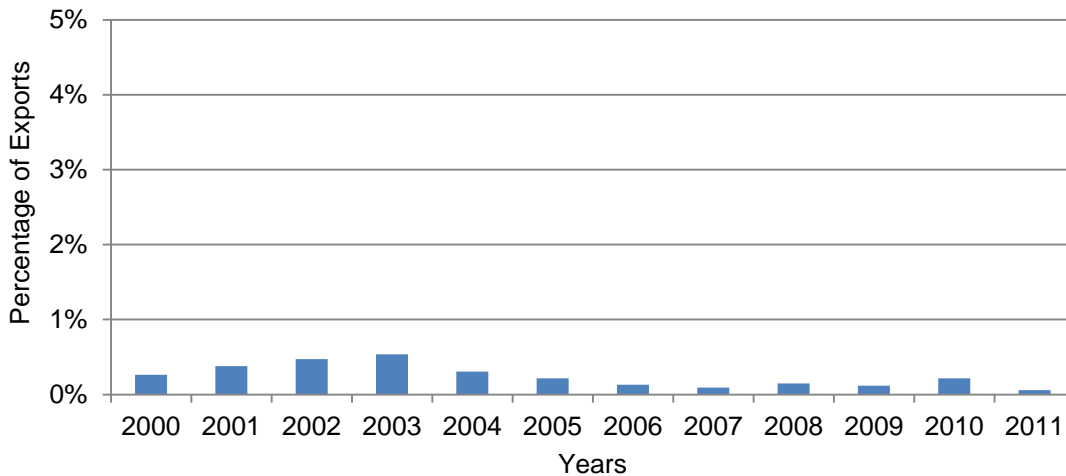


**Graph 208. Total Exports vs. Exports of high technology products- Venezuela**



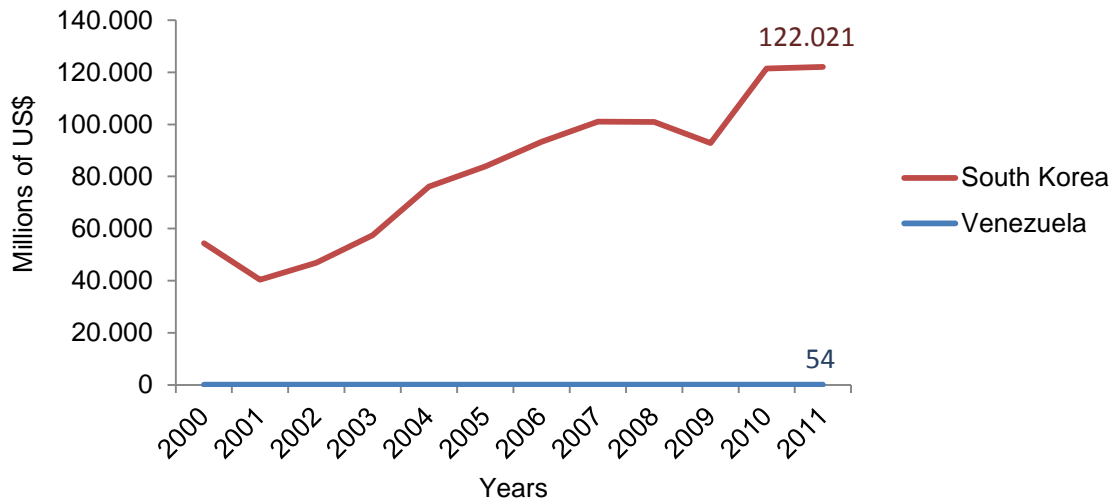
Own preparation. Source: United Nations Statistics Division (March 2015) <http://unstats.un.org/unsd/default.htm> and World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 209. Percentage of Exports of high technology products on total exports - Venezuela**



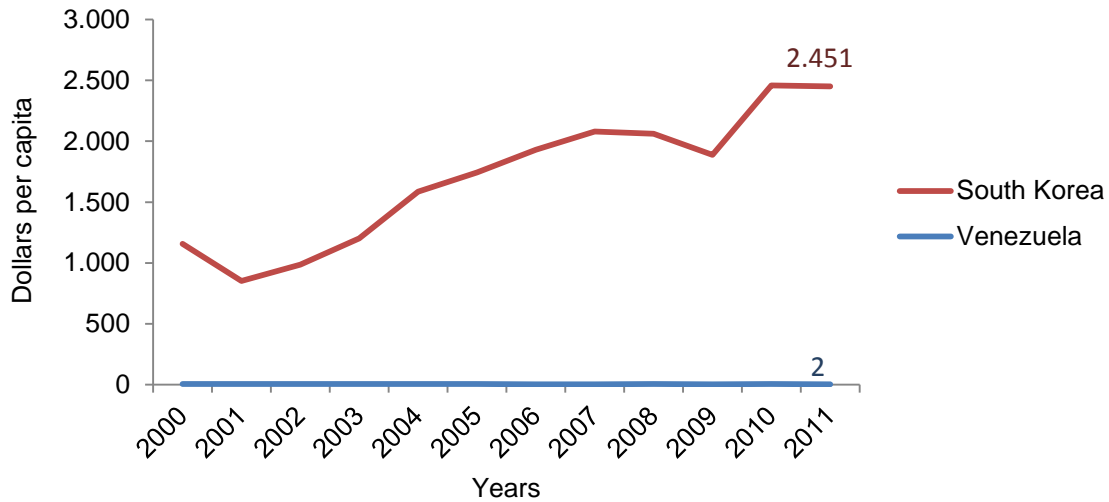
Own preparation. Source: United Nations Statistics Division (March 2015) <http://unstats.un.org/unsd/default.htm> and World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 210. Exports of high technology products- Venezuela - South Korea**



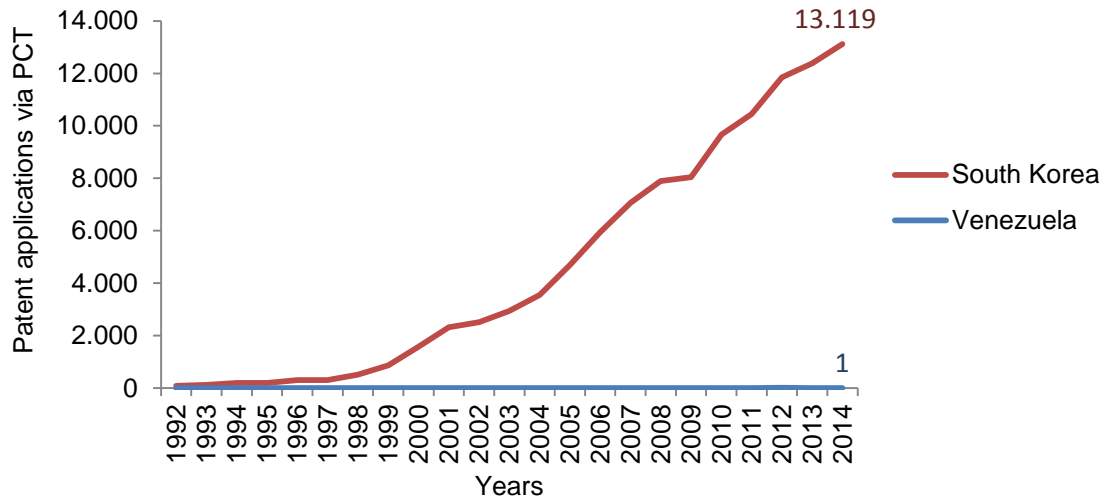
Own preparation. Source: World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 211. Exports of high technology products per capita- Venezuela - South Korea**



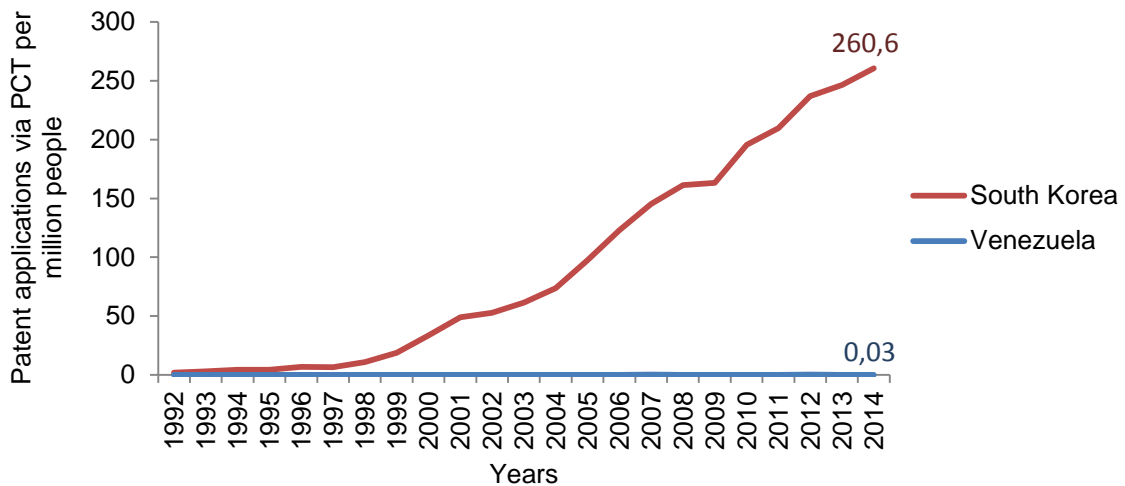
Own preparation. Source: World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 212. Patent applications via PCT- Venezuela - South Korea**



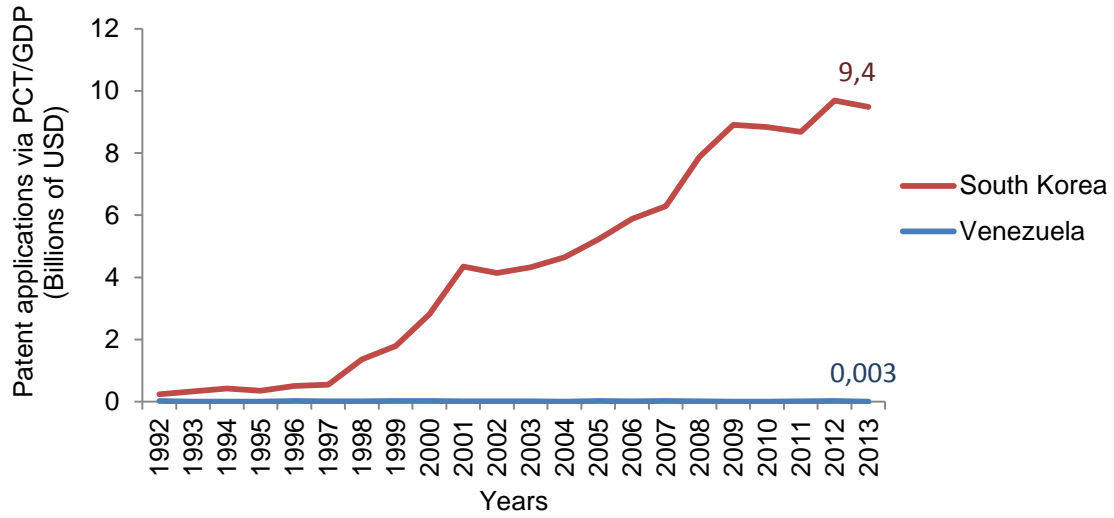
Own preparation. Source: WIPO Website (March 2015) ([www.wipo.int](http://www.wipo.int))

**Graph 213. Patent applications via PCT per million people- Venezuela - South Korea**



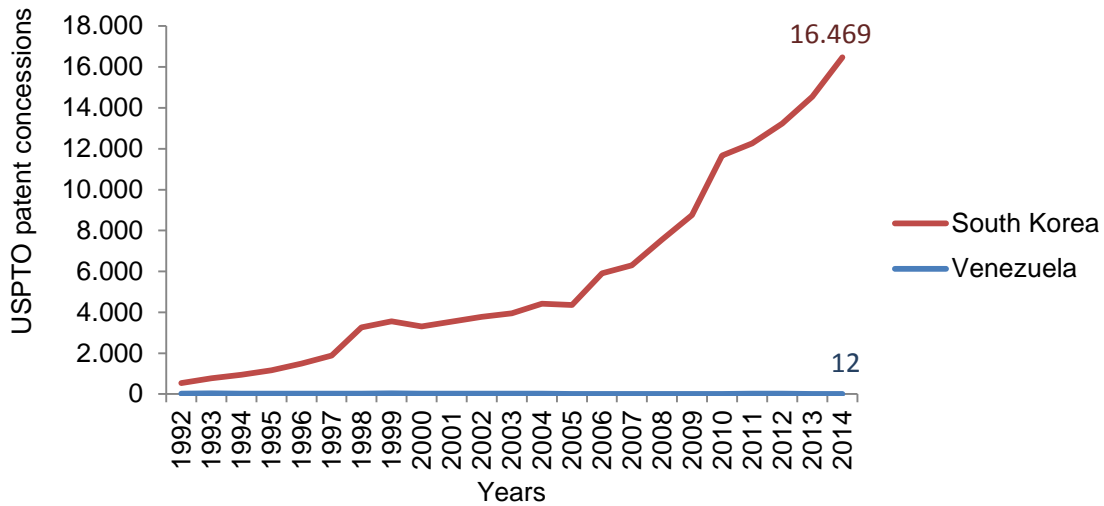
Own preparation. Source: WIPO Website (March 2015) ([www.wipo.int](http://www.wipo.int)) and World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 214. Patent applications via PCT/GDP- Venezuela - South Korea**



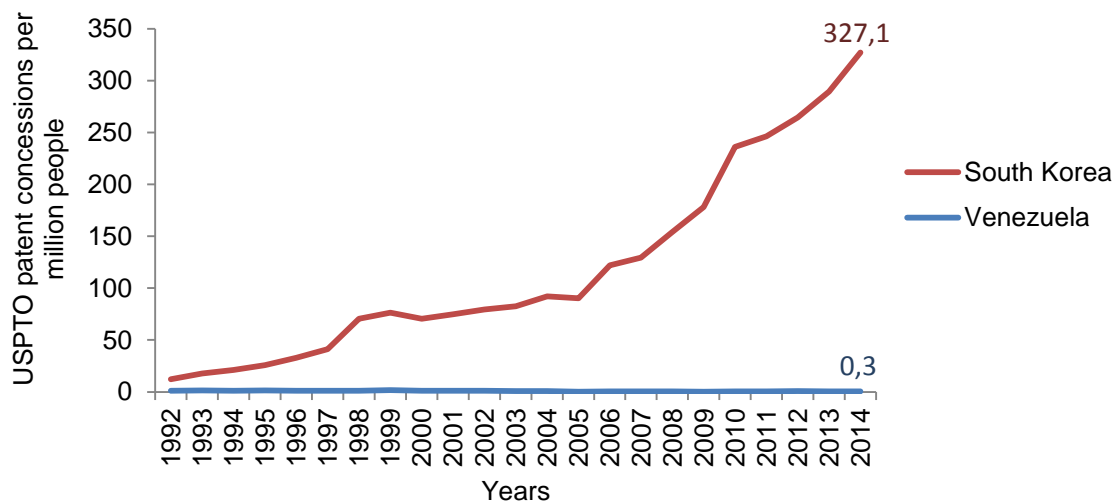
Own preparation. Source: WIPO Website (March 2015) ([www.wipo.int](http://www.wipo.int)) and United Nations Statistics Division (<http://unstats.un.org/>)

**Graph 215. USPTO patent concessions- Venezuela - South Korea**



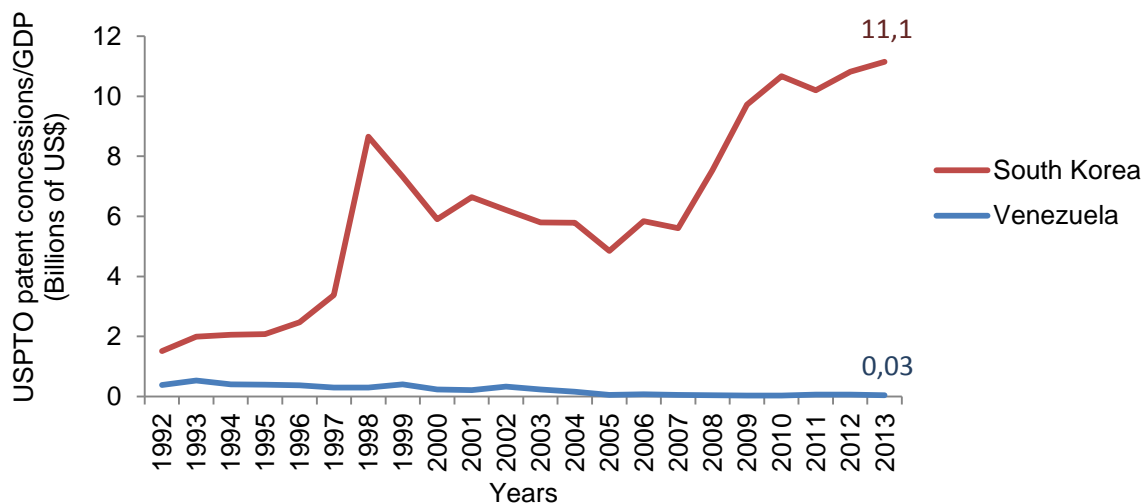
Own preparation. Source: USPTO Website (March 2015) ([http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst\\_utlh.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst_utlh.htm))

**Graph 216. USPTO patent concessions per million people- Venezuela - South Korea**



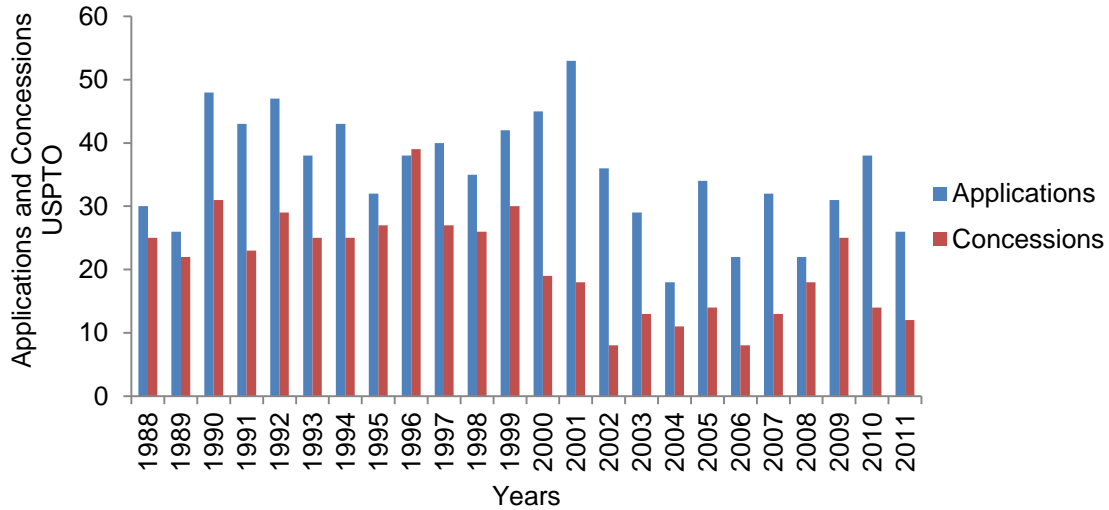
Own preparation. Source: USPTO Website (March 2015) [http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst\\_utlh.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst_utlh.htm) and World Bank (March 2015) <http://datos.bancomundial.org/>

**Graph 217. USPTO patent concessions/GDP- Venezuela - South Korea**



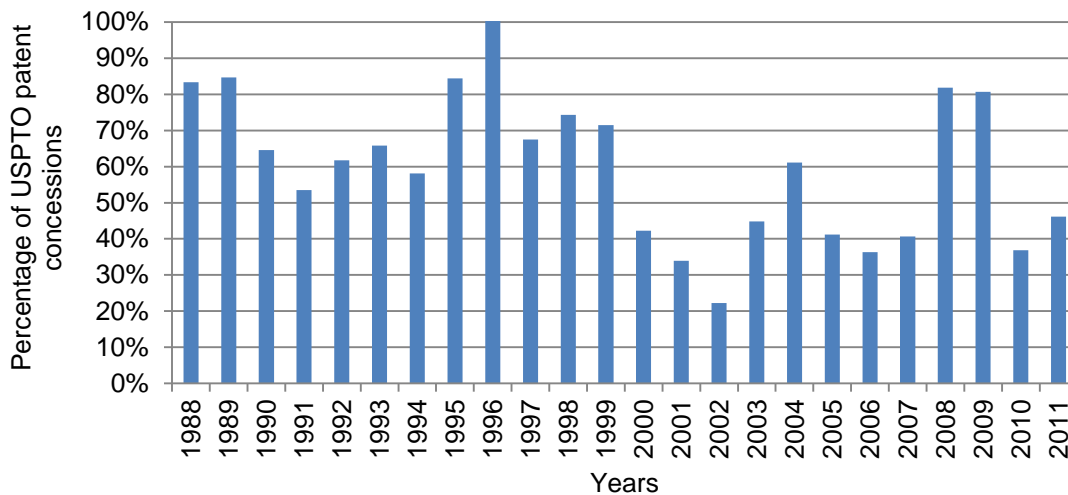
Own preparation. Source: USPTO Website (March 2015) [http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst\\_utlh.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst_utlh.htm) and United Nations Statistics Division <http://unstats.un.org/>

**Graph 218. Application vs. USPTO patent concessions- Venezuela**



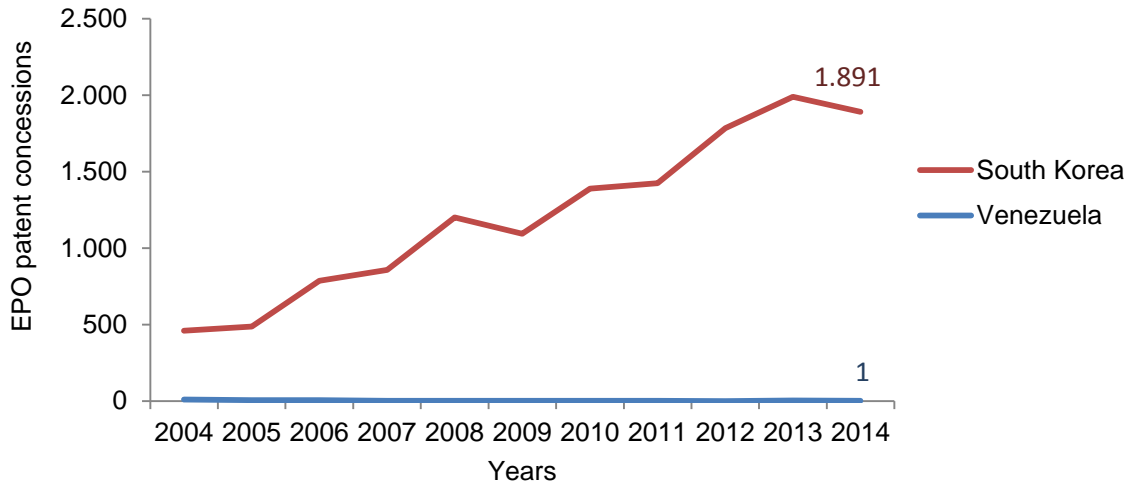
Own preparation. Source: USPTO Website (March 2015) – Concessions [http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst\\_utlh.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst_utlh.htm) and Application [http://www.uspto.gov/web/offices/ac/ido/oeip/taf/appl\\_yr.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/appl_yr.htm)

**Graph 219. Percentage of USPTO patent concessions- Venezuela**



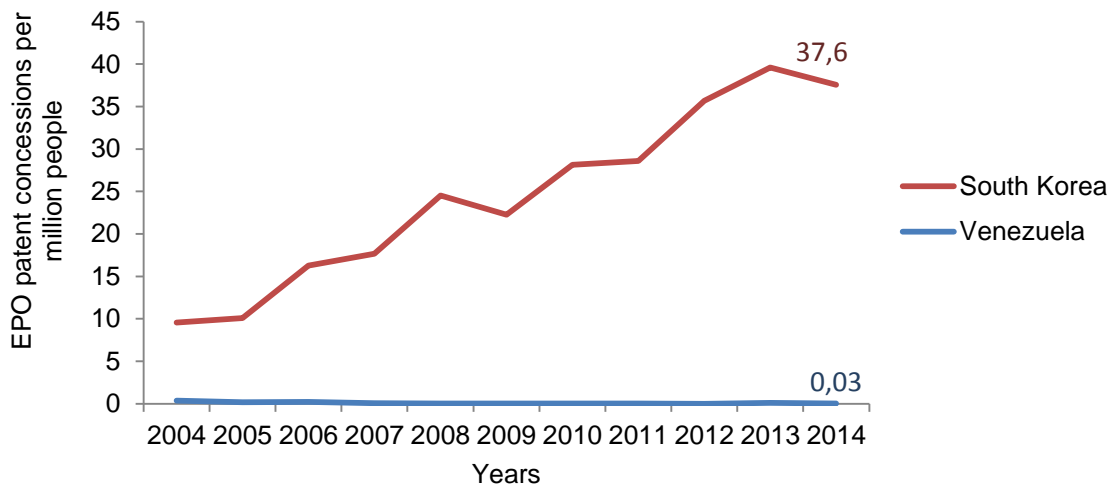
Own preparation. Source: USPTO Website (March 2015) – Concessions [http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst\\_utlh.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst_utlh.htm) and Application [http://www.uspto.gov/web/offices/ac/ido/oeip/taf/appl\\_yr.htm](http://www.uspto.gov/web/offices/ac/ido/oeip/taf/appl_yr.htm)

**Graph 220. EPO patent concessions- Venezuela - South Korea**



Own preparation. Source: EPO Website (March 2015) <http://www.epo.org/about-us/annual-reports-statistics/statistics.html>

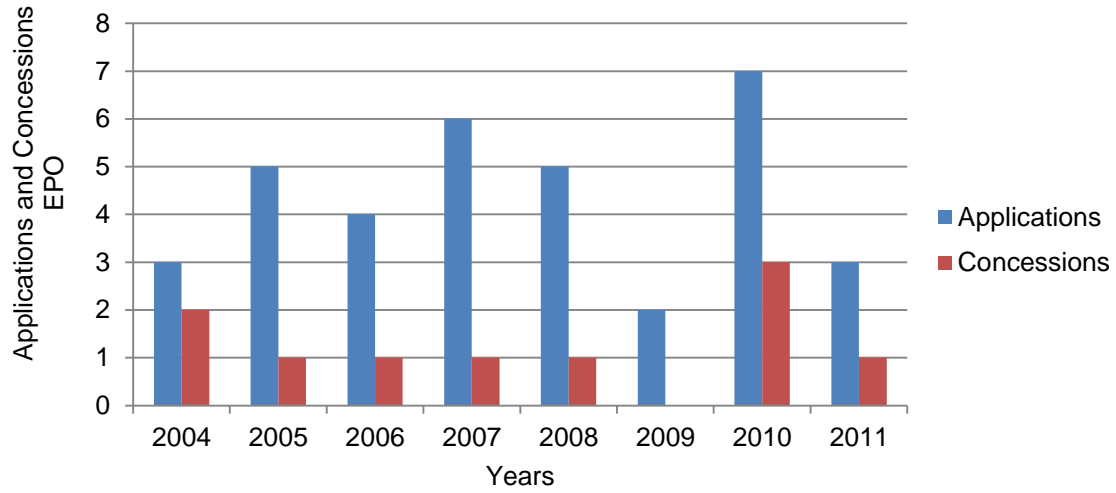
**Graph 221. EPO patent concessions per million people- Venezuela - South Korea**



Own preparation. Source: EPO Website (March 2015) <http://www.epo.org/about-us/annual-reports-statistics/statistics.html> and World Bank (March 2015) <http://datos.bancomundial.org/>

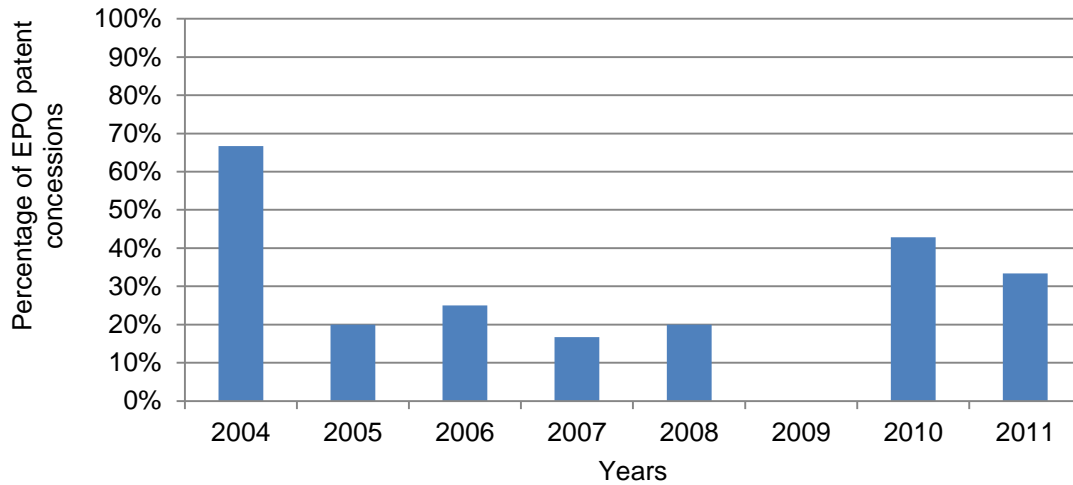


**Graph 222. Application vs. EPO patent concessions- Venezuela**



Own preparation. Source: EPO Website (March 2015) <http://www.epo.org/about-us/annual-reports-statistics/statistics.html>

**Graph 223. Percentage of EPO patent concessions - Venezuela**



Own preparation. Source: EPO Website (March 2015) <http://www.epo.org/about-us/annual-reports-statistics/statistics.html>