



***High-Level Meeting for Members of Parliament of the African Regional Intellectual Property Organization (ARIPO) Member States: Strategic Use of the Intellectual Property (IP) System for Economic, Cultural, Social and Technological Development***

**The Use of Technical & Scientific Information for Technological Capacity Building : Establishment of Technology Innovation Support Centers (TISC) in Africa**

**March 25, 2014,  
Kampala, Uganda**

# CONTENTS

- Global IP infrastructure
- The Knowledge Divide
- The TISC Project
- Conclusion



# Global IP Infrastructure

~ improving operational efficiency ~

*Just as participation in the physical economy requires access to roads, bridges, and vehicles to transport goods, similar infrastructure is needed in the virtual and knowledge economy. However, here the highway is the Internet and other networks, bridges are interoperable data standards, and vehicles are computers and databases.”*

WIPO Director General Francis Gurry

- WIPO is coordinating with stakeholders to develop tools, services, platforms, standards, etc. that enable IP institutions to work more efficiently and provide better and high quality services.

# Global IP Infrastructure

~ for an efficient & accessible IP system that benefits all ~

## ■ Activities include:

- Technical assistance for modernizing IP offices;
- Capacity building & networking by Technology Innovation Support Centers (TISCs)
- Common platform for e-data exchange among IPOs
- Tools (international classifications in TMs/design (IPC, Green inventory, Nice classification)
- Standards & technical agreements
- Databases (PATENTSCOPE, Global Brand DB & access to aRDI and ASPI
- Services (International Cooperation for Patent Examination (ICE), Patent Information Services, including Legal Status of Patents)
- Forum for exchanging experience and lessons learned (Global Symposium of IP Authorities)

# The Knowledge Divide

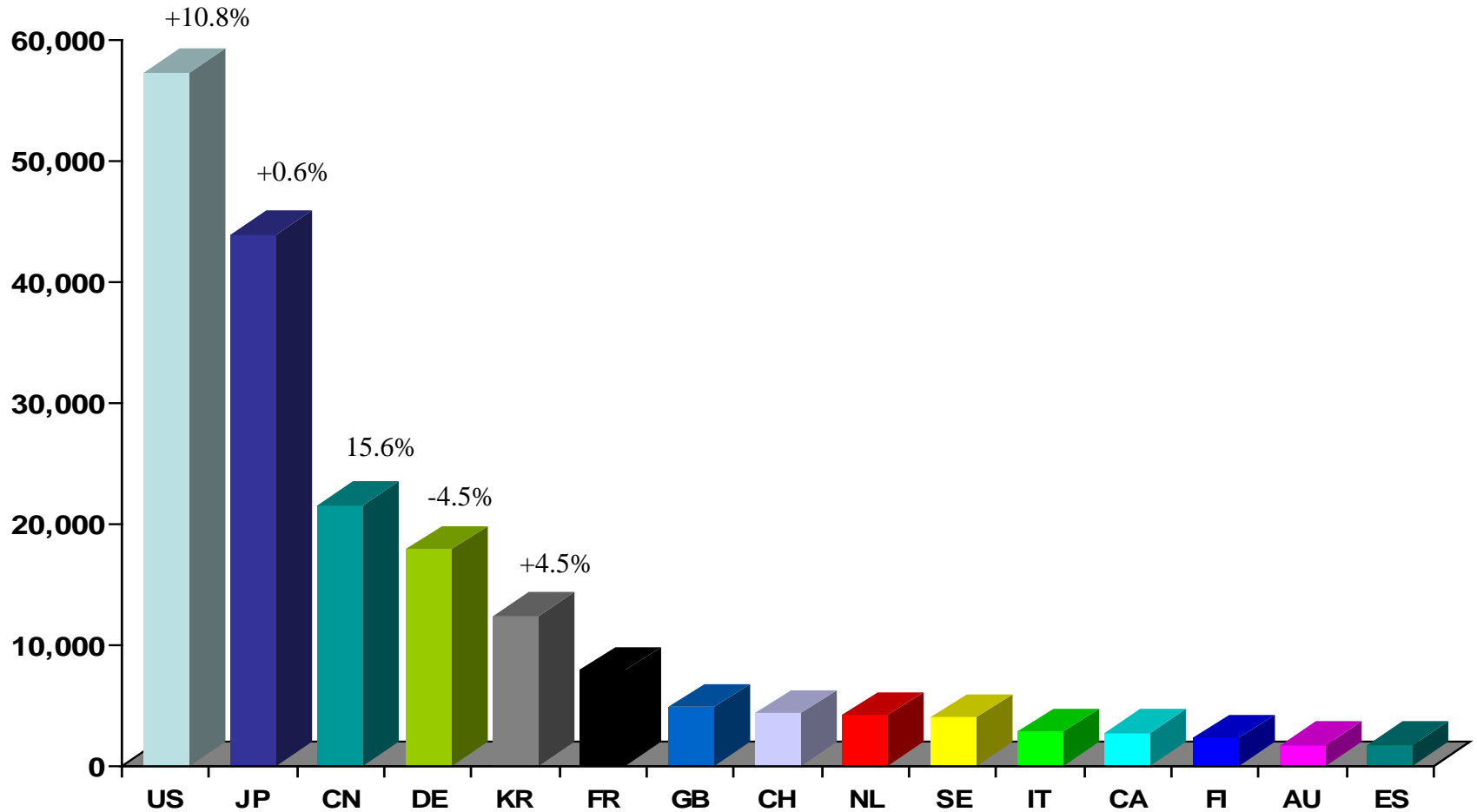
It is known fact that knowledge equals power- more so in this era where knowledge is inseparable from digital technology.

The lack of access to ICT in DCs & LDCs = global digital divide.( Northern Europe & North America have Internet Access rates 80%+, Africa below 20%)

Africa consumers as opposed to generators of IP

**FACTS AND FIGURES...**

# PCT: International Applications Received in 2013 (by country of origin)



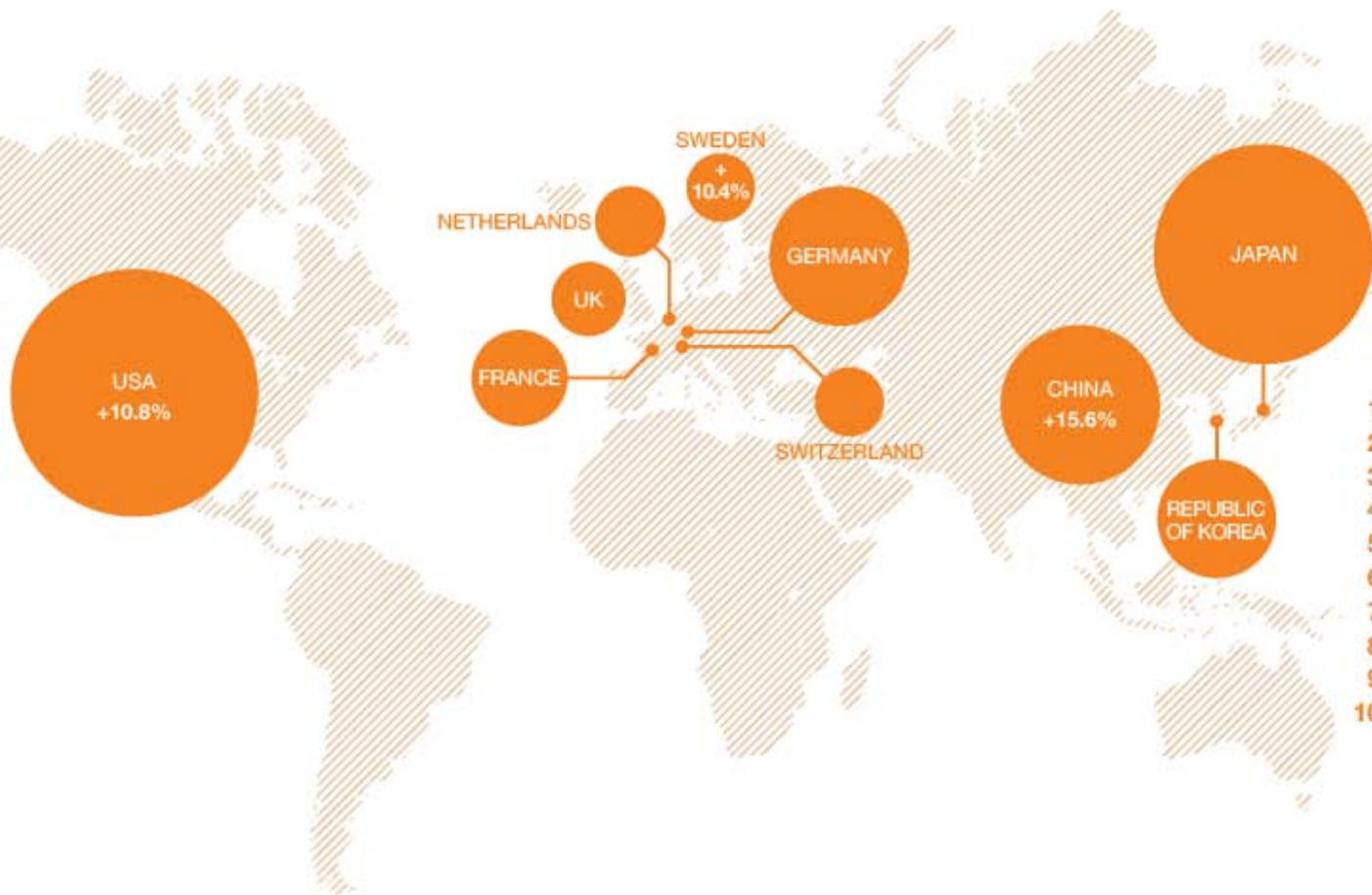
# PCT Statistics: 2013

**205,300**

Number of applications

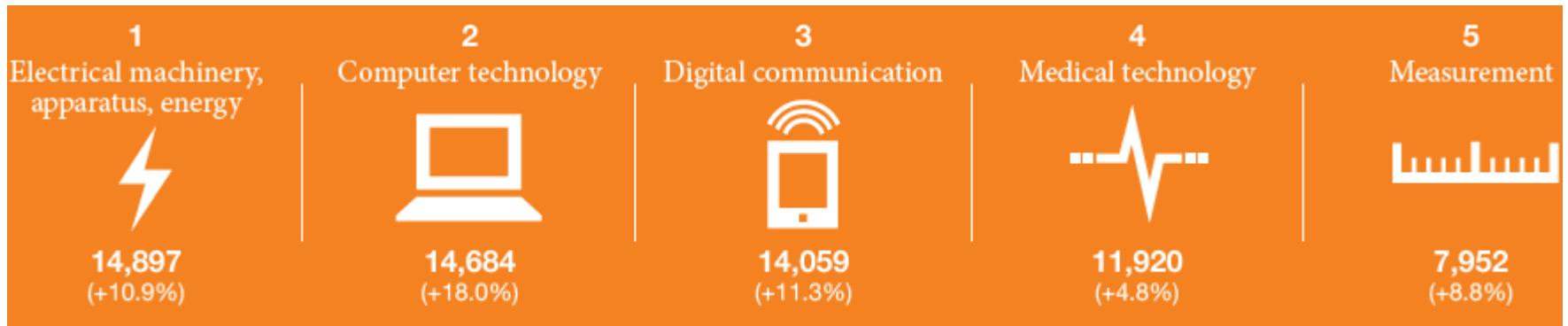
**+5.1%**

Growth In 2013

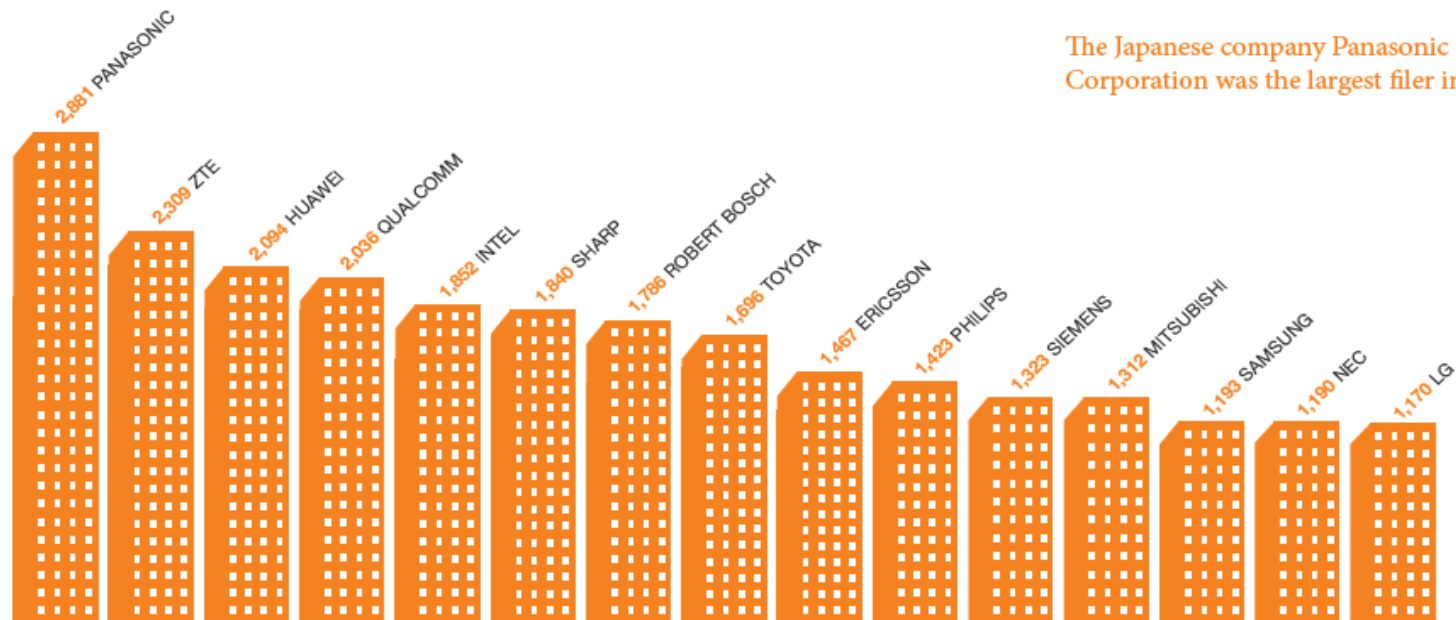


1 USA	57,239
2 Japan	43,918
3 China	21,516
4 Germany	17,927
5 Republic of Korea	12,386
6 France	7,899
7 UK	4,865
8 Switzerland	4,367
9 Netherlands	4,198
10 Sweden	3,960

# PCT Statistics: 2013 (2)



## TOP 15 PCT APPLICANTS

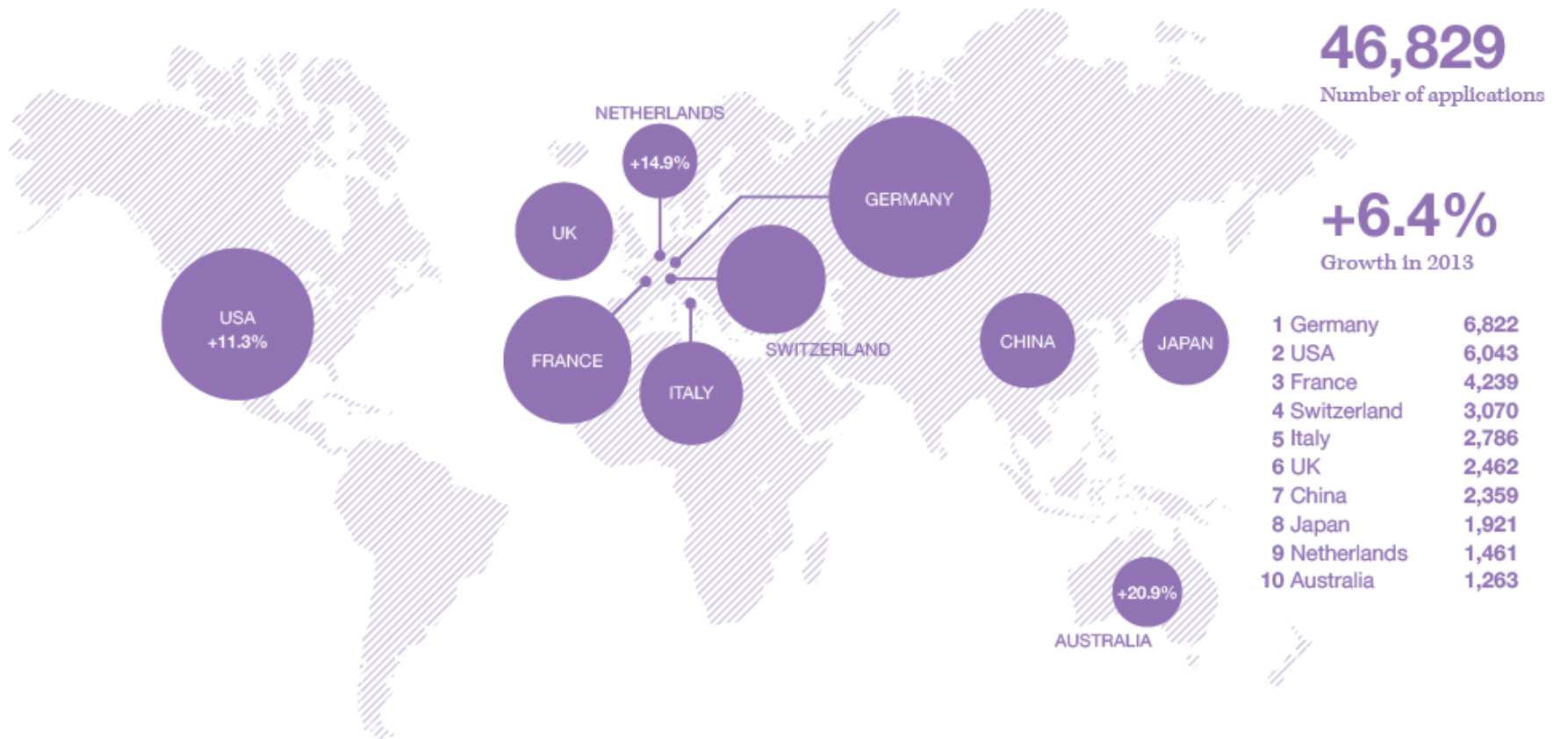


The Japanese company Panasonic Corporation was the largest filer in 2013.



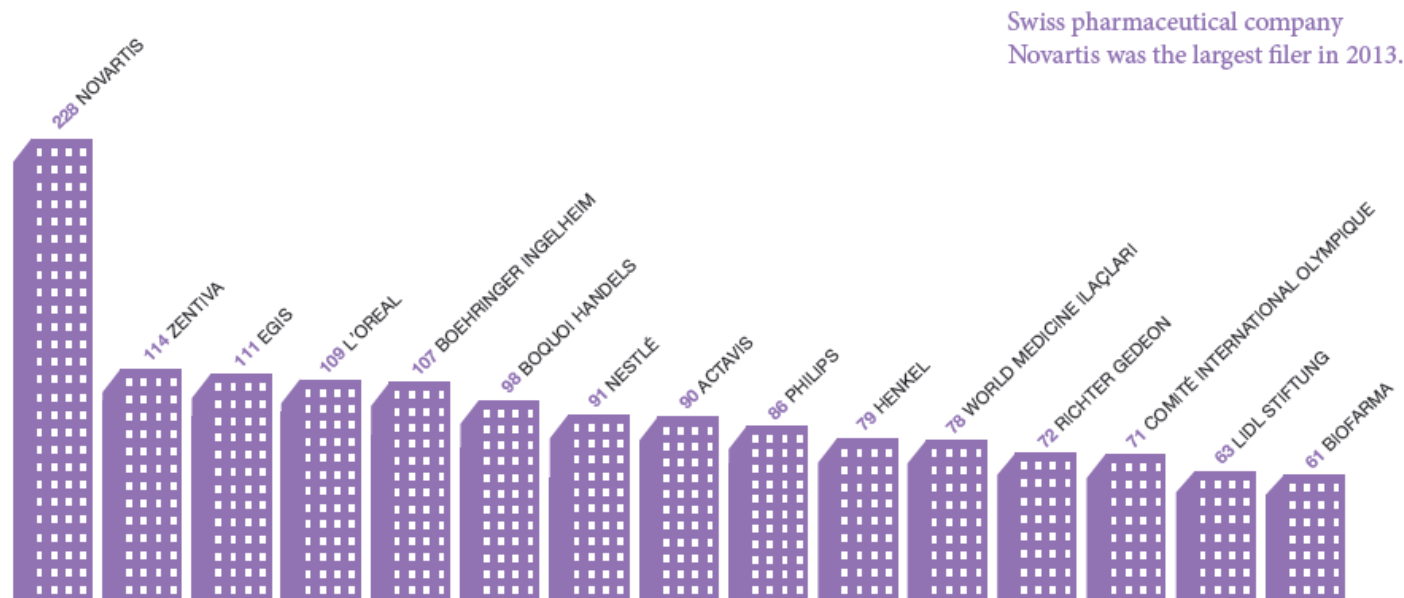
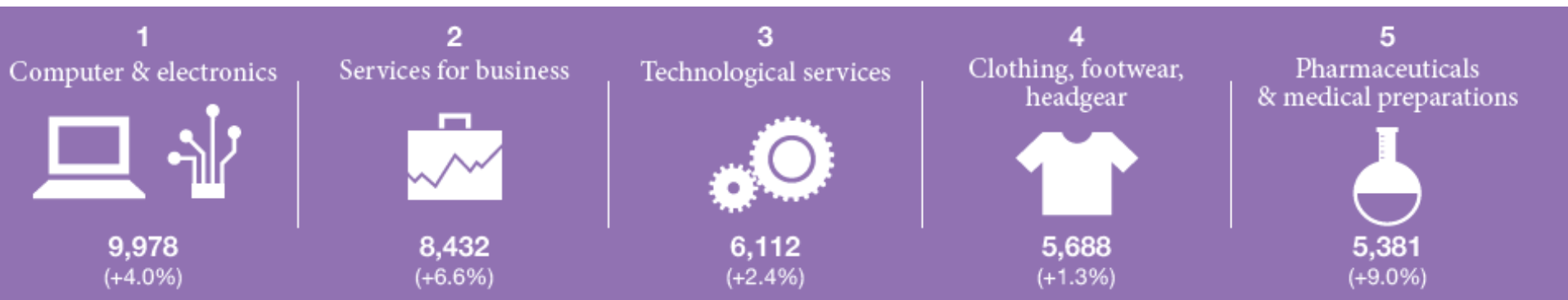
# The Madrid System for the International Registration of Marks

## Statistics for 2013

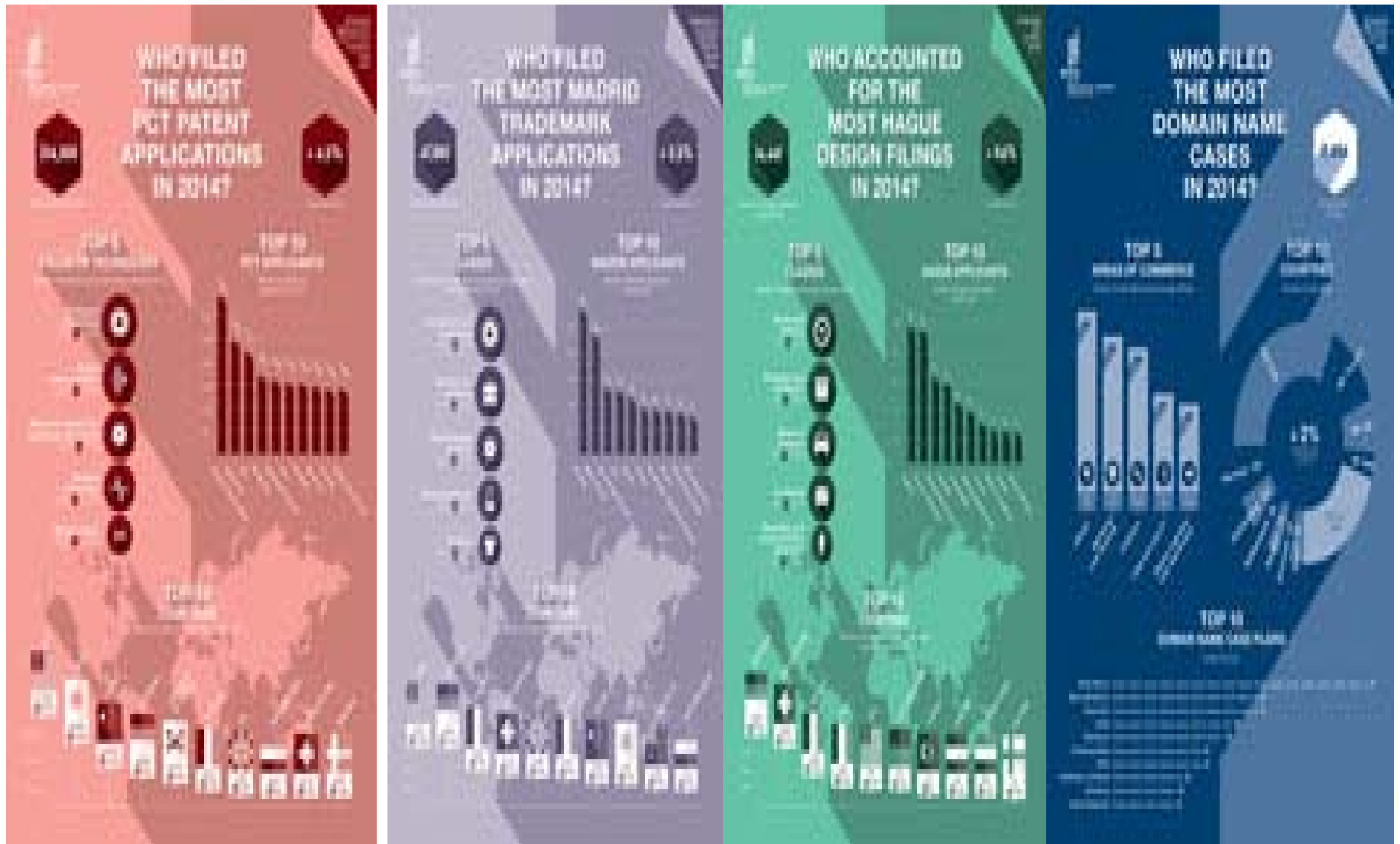


Contracting parties: 94

# Madrid system: 2013 statistics contd.



Together, China and the U.S. accounted for 87% of the total growth in filings under WIPO's Patent Cooperation Treaty (PCT), which saw some 215,000 applications in 2014, a 4.5% increase over the previous year. In a significant development, the U.S. became the biggest filer of international trademark applications under WIPO's Madrid System.



# Patents

Total Applications by filing office (2012)

- Worldwide:234,7700
- **LDCs:10431 (0.5% of total)**

Technology Patents Granted by Origin (2012)

- Worldwide:1053408
- Lower Middle Income:3612 (0.34 % of total)

**LDC Nationals: 52 (0.005% of total)**

Medical technology and pharmaceutical patents (2012)

Worldwide:98409

Lower Middle income : 593 (0.6% of total)

**LDC Nationals:3 (0.003% of total)**

# Trademarks

- Total Applications by filing office (2012)
- Worldwide:4486738
- Lower Middle Income:375464 (8.4% of total)
- **LDCs: 46470 (1.03% of total)**
- Total Applications by Origin (2012)
- Lower Middle Income: 316633 (7% of total)
- **LDC Nationals: 23154 (0.5% of total)**
- Total Registrations by filing office (2011)
- Worldwide:3007017
- Lower Middle Income:261577 (8.69% of total)
- **LDCs:27595 (0.9 %of total)**
- Total Registrations by Origin (2011)
- Lower Middle Income:199460 (6.63% of total)
- **LDC Nationals :7332 (0.24%of total)**

# Industrial Designs

## Total Applications by filing office (2012)

Worldwide:921313

Lower Middle Income:18622 (5.79% of total)

**LDCs: 2605 (0.3% of total)**

## Total Applications by Origin (2012)

Lower Middle Income: 16550 (1.8 % of total)

**LDC Nationals: 1935 (0.2% of total)**

## Total Registrations by filing office (2012)

Worldwide:672937

Lower Middle Income:13601 (2.02 % of total)

**LDCs: 2167 (0.32 %of total)**

## Total Registrations by Origin (2012)

Lower Middle Income:8546 (1.3% of total)

**LDC Nationals : 1354 (0.2% of total)**

# TISC PROJECT

## WIPO Development Agenda

### ■ Recommendation 8:

“...facilitating the national offices of developing countries, especially LDCs, as well as their regional and sub-regional intellectual property organizations to access specialized databases...”

# Objectives

- Reinforce the capacity of developing countries and LDCs to participate in the global knowledge economy
- Support researchers of developing countries and LDCs in creating and developing new solutions to technical challenges faced on a local and global level



By increasing the level of technical and scientific knowledge in DC and LDCs – this leads to reducing the *existing gaps in the fields* between them and *industrialized* countries

# II. TISC Resources: 1. Technologies stocked in Free Databases)

**WIPO** PATENTSCOPE

Search International and National Patent Collections

WORLD INTELLECTUAL PROPERTY ORGANIZATION

Search | Browse | Translate | Options | News | Login | Help

Home > IP Services > PATENTSCOPE

**Simple Search**

Using PATENTSCOPE you can search 18,685,630 patent documents including 2,187,960 published international patent applications (PCT). Detailed coverage information can be found here (->)

Front Page | Any Field | Full Text | ID/Number | Int. Classification(IPC) | Names | Dates

Int. Classification(IPC): A61P 33/06

Office:

<input type="checkbox"/> PCT	<input type="checkbox"/> Honduras	<input type="checkbox"/> Russian Federation
<input type="checkbox"/> Argentina	<input type="checkbox"/> Israel	<input type="checkbox"/> Russian Federation (USSR data)
<input type="checkbox"/> Brazil	<input type="checkbox"/> Japan	<input type="checkbox"/> Singapore
<input type="checkbox"/> Chile	<input type="checkbox"/> Jordan	<input type="checkbox"/> South Africa
<input type="checkbox"/> Colombia	<input type="checkbox"/> Kenya	<input type="checkbox"/> Spain
<input type="checkbox"/> Costa Rica	<input type="checkbox"/> Mexico	<input type="checkbox"/> Uruguay
<input type="checkbox"/> Cuba	<input type="checkbox"/> Morocco	<input type="checkbox"/> Viet Nam
<input type="checkbox"/> Dominican Rep.	<input type="checkbox"/> Nicaragua	<input type="checkbox"/> ARIPO
<input type="checkbox"/> Ecuador	<input type="checkbox"/> Panama	<input type="checkbox"/> EPO
<input type="checkbox"/> El Salvador	<input type="checkbox"/> Peru	<input type="checkbox"/> LATIPAT
<input type="checkbox"/> Guatemala	<input type="checkbox"/> Republic of Korea	<input checked="" type="checkbox"/> All

Examples:  
A or C07 or "G01N 33" or "G06K 21/00"

Search IPC | Reset

# Technologies stocked in commercial databases (cost *per day/8hrs* and *per database*: about 2,400 U\$; Free access for LDCs)



Español

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- Resources
- Eligibility
- Partners
- Statement of Intent

# ASPI

ACCESS TO SPECIALIZED PATENT INFORMATION

ACCESS SERVICE

Request Account

- RELATED LINKS
- PATENTS

Through the Access to Specialized Patent Information (ASPI) program, patent offices and academic and research institutions in developing countries can receive free or low-cost access to sophisticated tools and services for retrieving and analyzing patent data. The ASPI program is made possible by a public-private partnership between the World Intellectual Property Organization and leading patent information providers.

[www.wipo.int/aspi](http://www.wipo.int/aspi)

Scam Warning | RSS | Te

## 2. Scientific Publications of the Research4life Programs

■ HINARI (WHO)



■ AGORA (FAO)



■ OARE (UNEP)



■ ARDI (WIPO)



# ARDI: Journal list (20 000 publications: cost about 500 000 U\$ per year; free access for many African DCs and all LDCs)



## ACCESS TO RESEARCH FOR DEVELOPMENT AND INNOVATION (ARDI)

- [About ARDI](#)
- [Journals](#)
- [Books](#)
- [Reference works](#)
- [Eligibility](#)
- [Partners](#)
- [Partners' Statement](#)
- [FAQs](#)

## RELATED LINKS

- [Development Agenda](#)
- [Patents](#)
- [ASPI](#)

## Journals

### List of Journals from A to Z

[[A](#)|[B](#)|[C](#)|[D](#)|[E](#)|[F](#)|[G](#)|[H](#)|[I](#)|[J](#)|[K](#)|[L](#)|[M](#)|[N](#)|[O](#)|[P](#)|[Q](#)|[R](#)|[S](#)|[T](#)|[U](#)|[V](#)|[W](#)|[Z](#)]

[ [Books](#) | [Reference works](#) ]

#### A

- [AASRI Procedia](#) (Elsevier) 2012 - Present
- [Academic Pediatrics](#) (Elsevier) January/February 2009 - Present
- [Academic Radiology](#) (Elsevier) January 1995 - Present
- [ACC Current Journal Review](#) (Elsevier) January/February 1995 - December 2005

## FEEDBACK

- ▶ [Request support](#)

# Role of TISC

- *A Digital Library:* providing a platform of on-line collection of over 80 million technologies and 40 000 scientific publications (more than 15 000 papers and 22 000 books), for use by the IP users (SMEs, inventors, universities, research centers, etc.)
- *A Technical and Scientific Support to the IP stakeholders*
- *A Training Center:* The local TISC will provide training to individuals and groups *on searching technical and scientific information*

# Technical solutions - patent data bases

(TISC to identify existing technologies(Public domain) for transfer, adaptation and use locally)

Rope braiding



Textile spinning



# Joint engagement

- Local ownership
  - Staff
  - Facilities
- WIPO support
  - Facilitating access to databases
  - Training of TISC staff
  - WIPO Academy Distance Learning Courses
  - Provision of information & training materials
  - Support awareness-raising activities



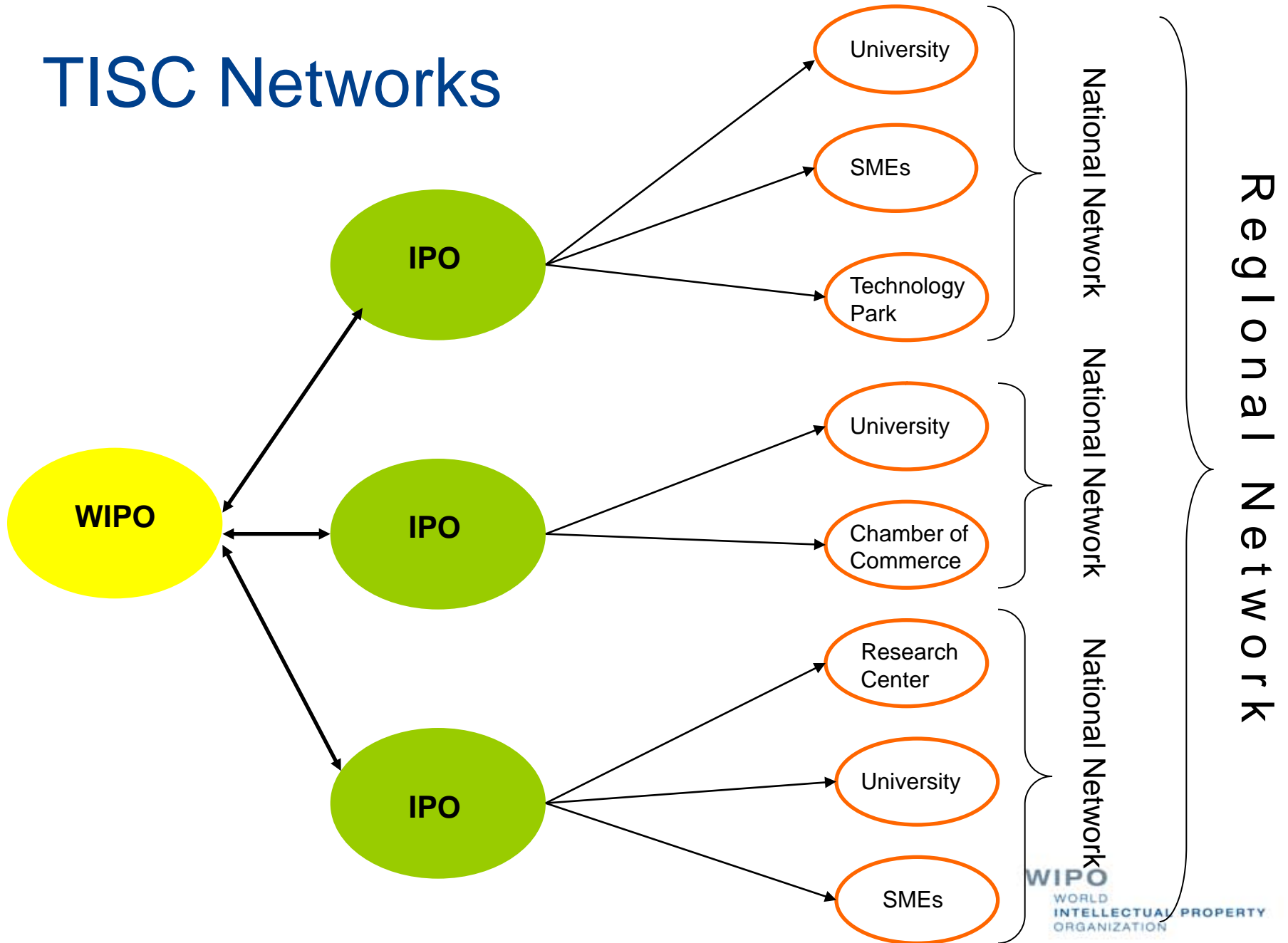
# TISC Possible Locations

- Ministries (appropriate)
- Industrial/Intellectual Property Offices
- Scientific Information Centers
- Libraries
- Research Centers
- Science and Technology Parks
- Chambers of commerce
- Universities/Institutions of Higher Education
- Specialized Training Schools or Colleges
- Technology, Innovation and/or Business Incubators
- Inventors' associations, etc.

# TISC Users

- Individual inventors
- Small and medium enterprises
- Industry
- Researchers in technology centers and universities
- Academia (ranging from schools to universities), etc.

# TISC Networks



# TISC IN AFRICA

- Mozambique (2011)
- Ethiopia, Madagascar, Togo, Niger ,(2012)
- Rwanda, Kenya, Uganda, Sao Tomé , Tanzania, Zambia (2013)
- Zimbabwe, (2014)

## Sub-Saharan Africa: A region of innovation learners

- Five African economies: **Burkina Faso, Gambia, Malawi, Mozambique, and Rwanda** became part of the group of economies defined as 'innovation learners.'
- The **Sub-Saharan African region** makes up nearly 50% of the innovation learner economies.

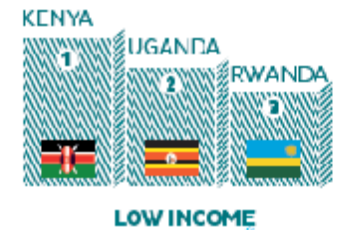
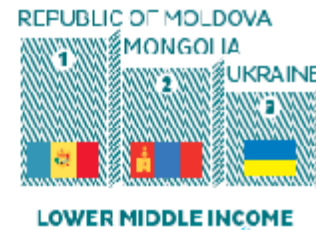
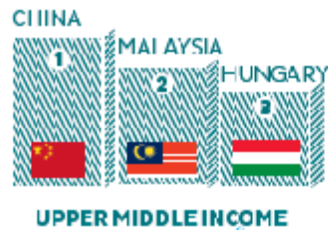


# GII 2014 rankings – Top 3 per region and per income group

## Top 3 Per Region



## Top 3 Per Income Group



# Conclusion

A number of factors affect or enhance a country's capacity for generation and use of IP:

- Level of IP awareness
- Presence of institutional IP Policies (universities , R&Ds)
- Funding by government and industries of R&D
- Presence of an Innovation system
- Level of IP education and training
- Presence of IP information Centers (TISC), Technology Transfer Offices (TOT)
- Coherent ICT Policy
- Local IP filings and grants...

Thank you for your  
kind attention!

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