



**WIPO | PCT**

The International  
Patent System



# PCT Statistics

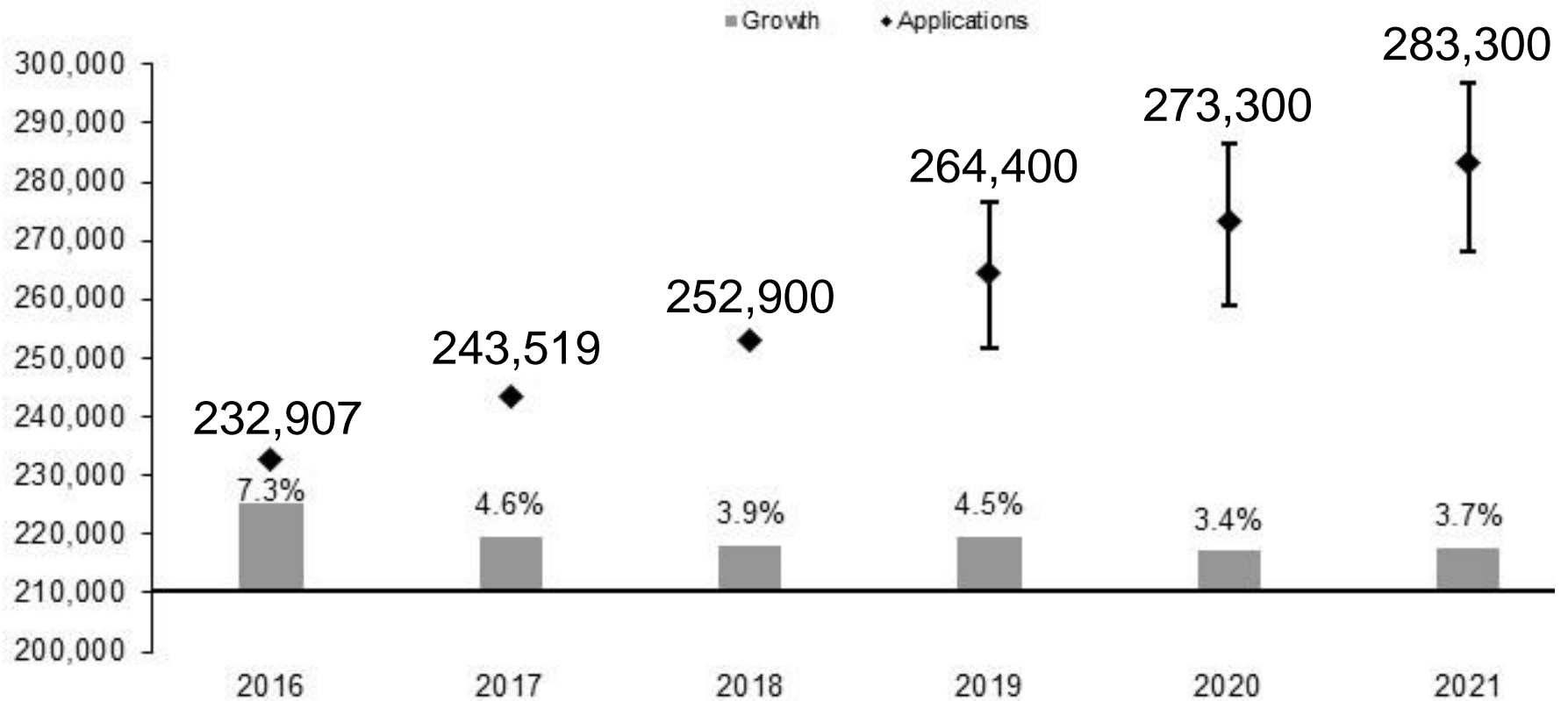
PCT Working Group  
Twelfth Session

**Geneva  
June 11 to  
14, 2019**

# Outline

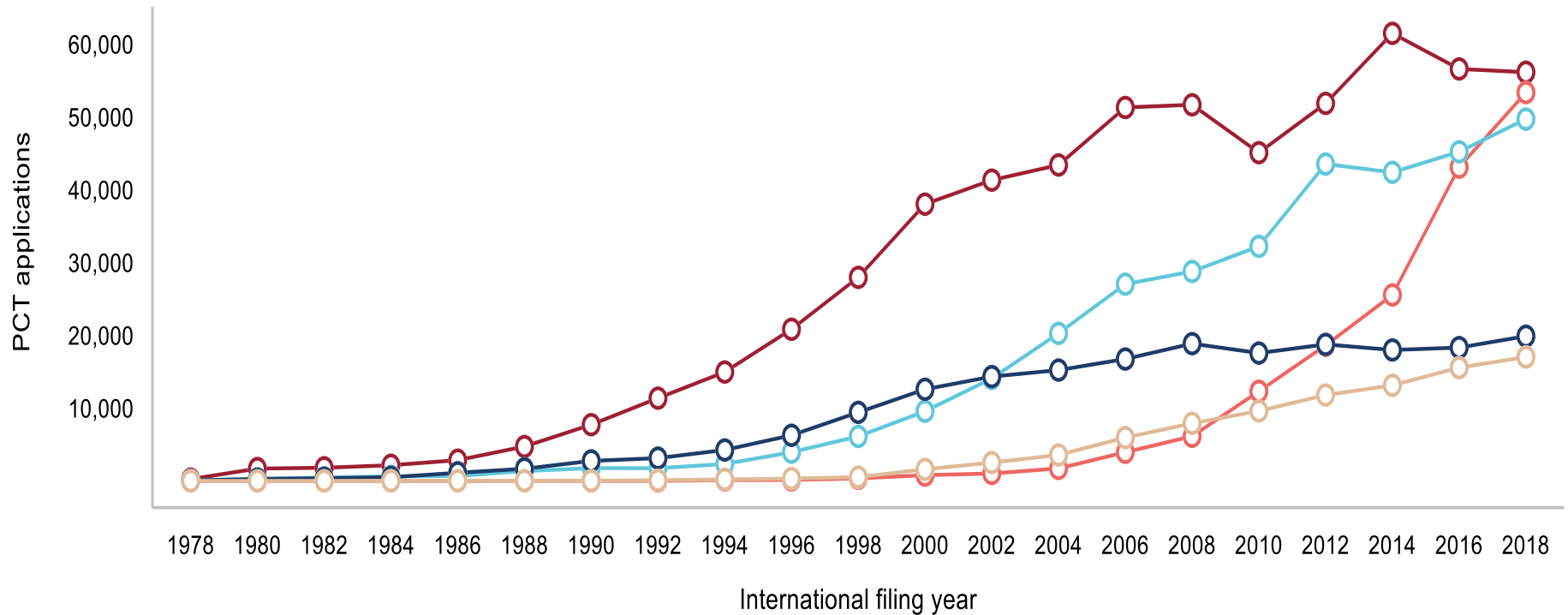
- PCT Application Filings
- Receiving Offices
- International Authorities
- PCT National Phase Entries

# PCT Application Filings



Source: Economics and Statistics Division, WIPO

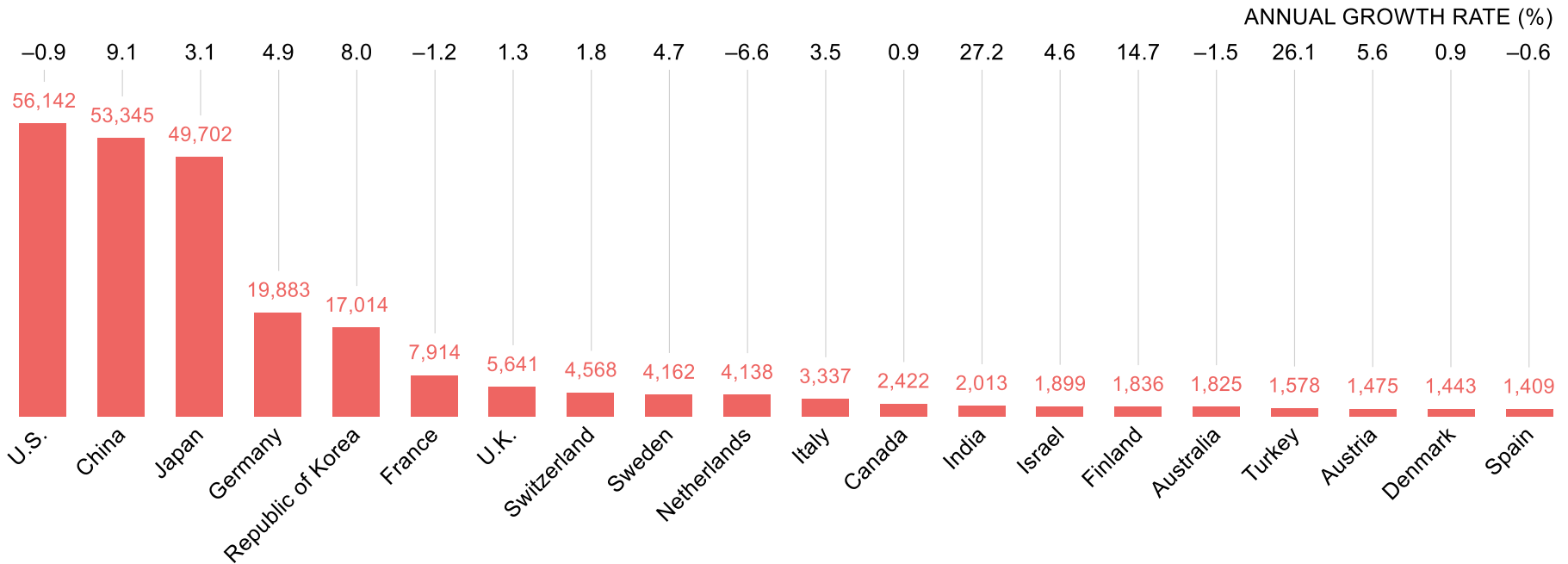
# Filing Trends for the Top 5 Origins



■ U.S. ■ CHINA ■ JAPAN ■ GERMANY ■ REPUBLIC OF KOREA

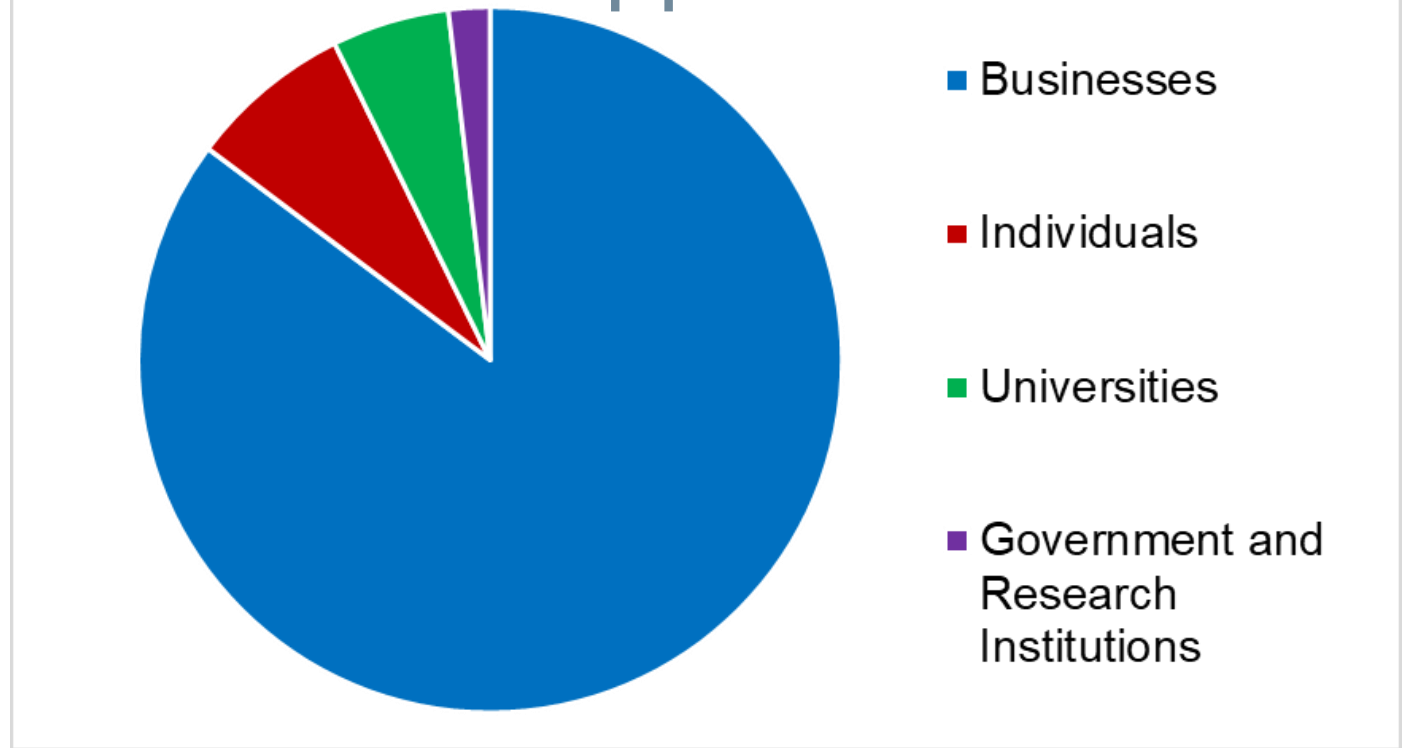
Source: WIPO Statistics Database, March 2019

# PCT Applications for the Top 20 Origins



Source: WIPO Statistics Database, March 2019

# Distribution of PCT Applicants in 2018



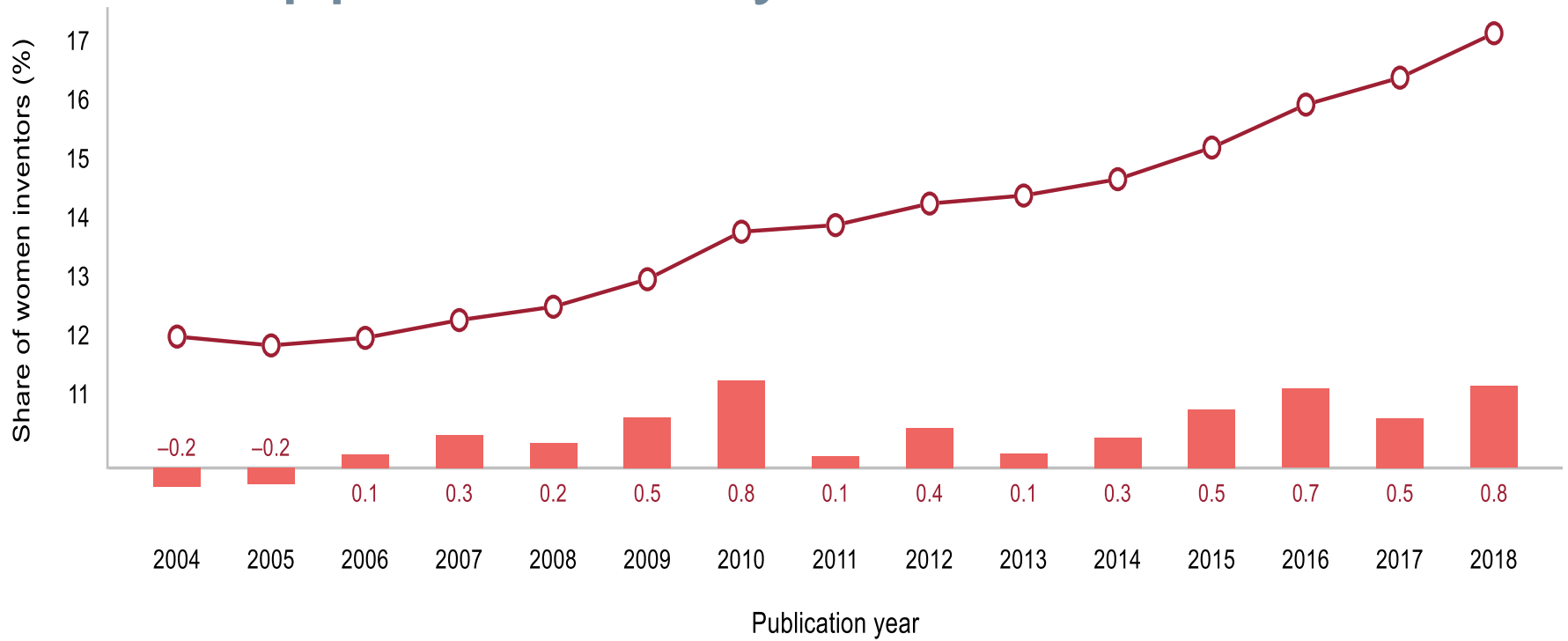
## Top Applicants

**Businesses:** Huawei Technologies – 5,405 published applications

**Universities:** University of California – 434 published applications

**Government and Research Institutions:** Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung – 345 published applications

# PCT Applications by Gender



■ SHARE OF WOMEN INVENTORS ■ PERCENTAGE CHANGE

■ 17.1% of all inventors in PCT applications were women (+0.8 percentage points)

■ 32.6% of PCT applications in 2018 included at least one woman inventor (+2.1 percentage points)

Source: WIPO Statistics Database, March 2019

# Main Fields of Technology in 2018

## ■ Main Fields of Technology by Percentage of Total

■ Digital Communication	20,271 applications (8.6%)
■ Computer Technology	19,152 applications (8.1%)
■ Electrical Machinery	16,577 applications (7.0%)
■ Medical Technology	15,826 applications (6.7%)

## ■ Largest increases:

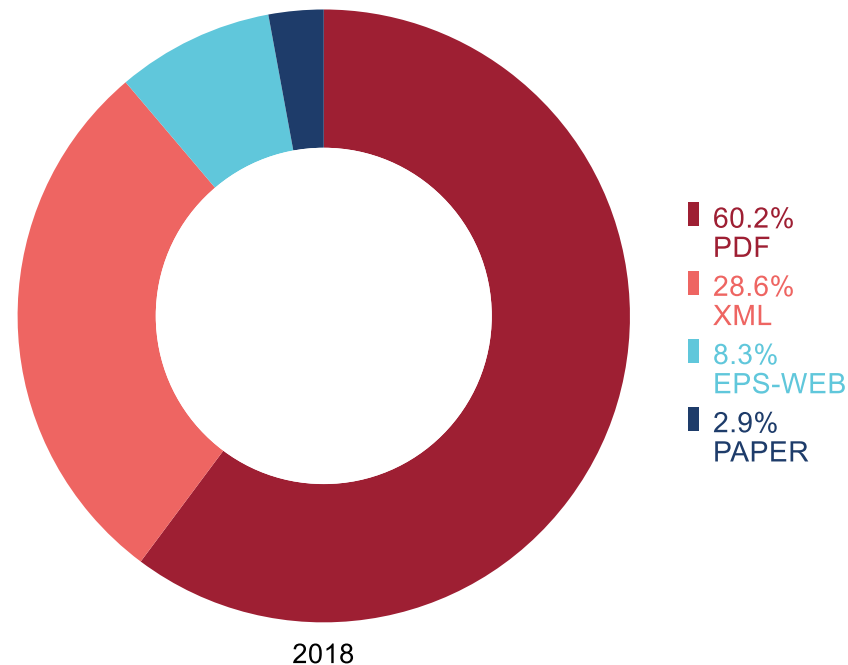
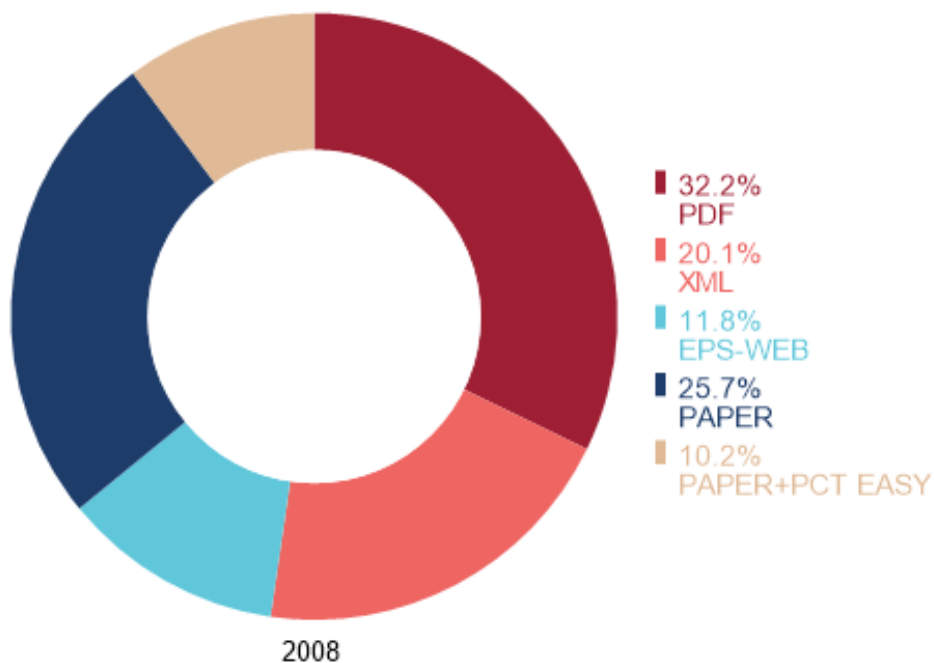
- Basic Communication Processes: +29.5%
- Control: +21.2%
- Machine Tools: +13.9%
- Transport: +11.3%

## ■ Largest decreases:

- Micro-structural and Nano-technology: -7.0%
- Basic Materials Chemistry: -1.3%

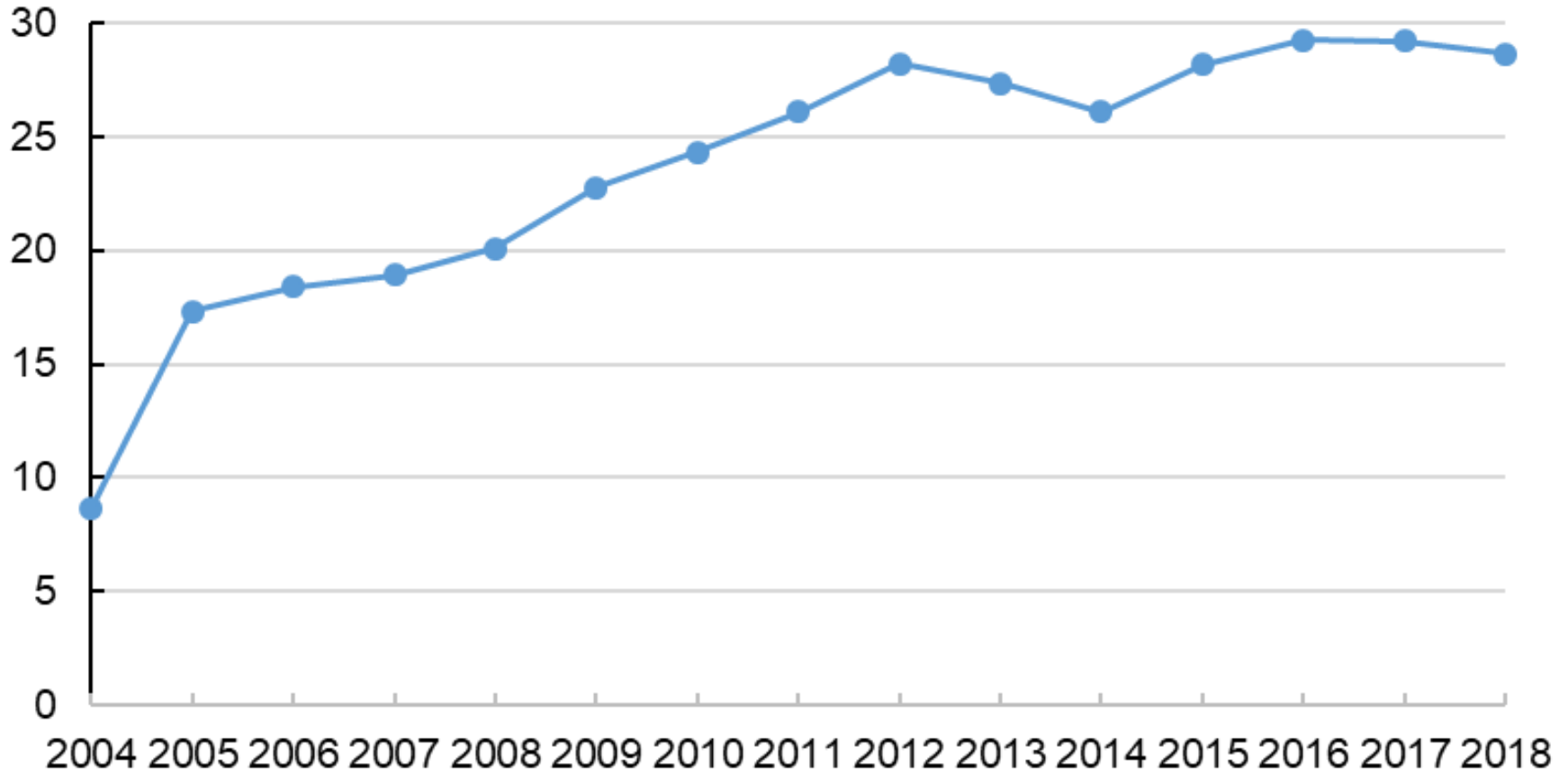


# PCT Applications by Medium of Filing



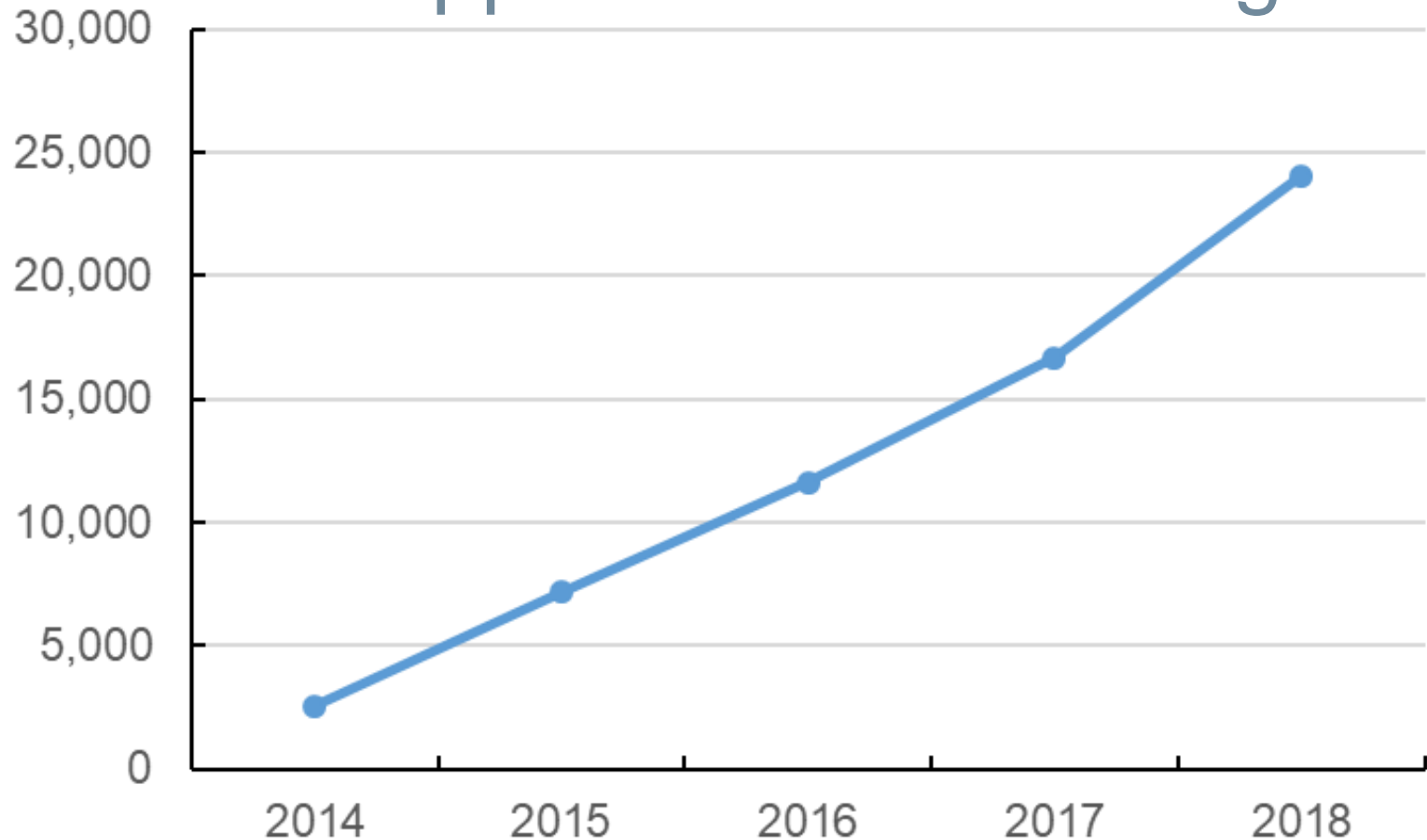
■ Distribution in 2018 (2017 in brackets): 2.9% (3.8%) paper, PDF 60.2% (57.9%), EFS-Web 8.3% (9.1%), XML 28.6% (29.2%)

# Percentage of PCT Filings in XML



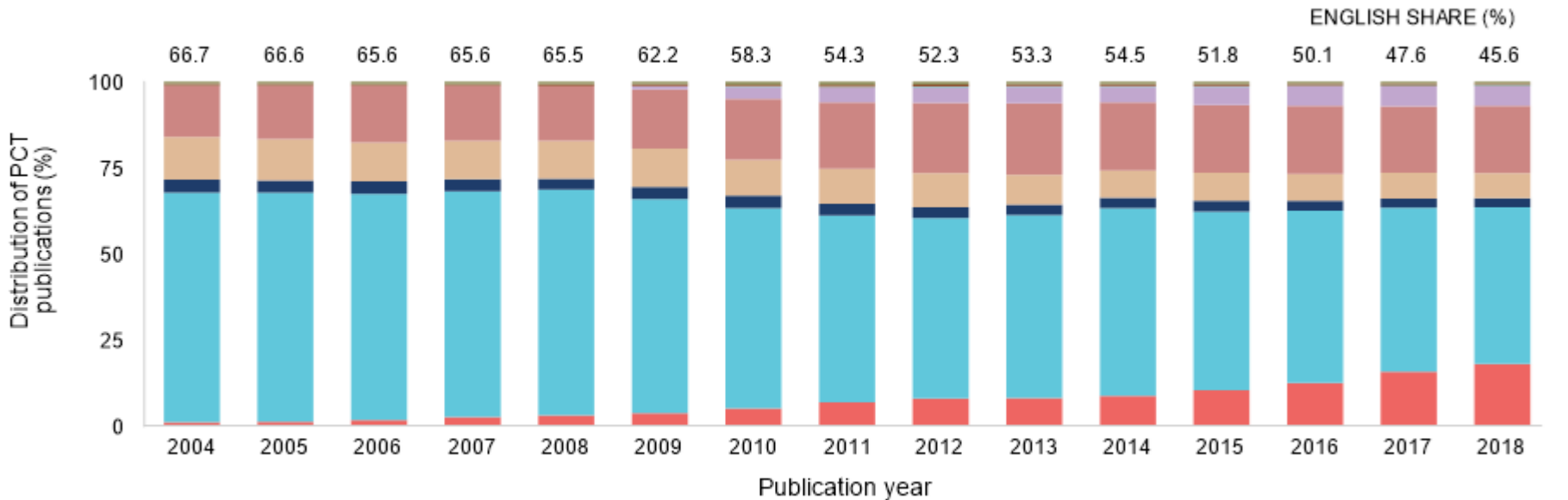
■ XML filings rose by 6 percentage points from 2008 to 2011, then by 2.5 percentage points from 2011 to 2018

# Number of Applications filed using ePCT



■ Filings through the ePCT-filing portal increased by 44.1% to 24,070 applications, 9.5% of the total of international applications filed in 2018

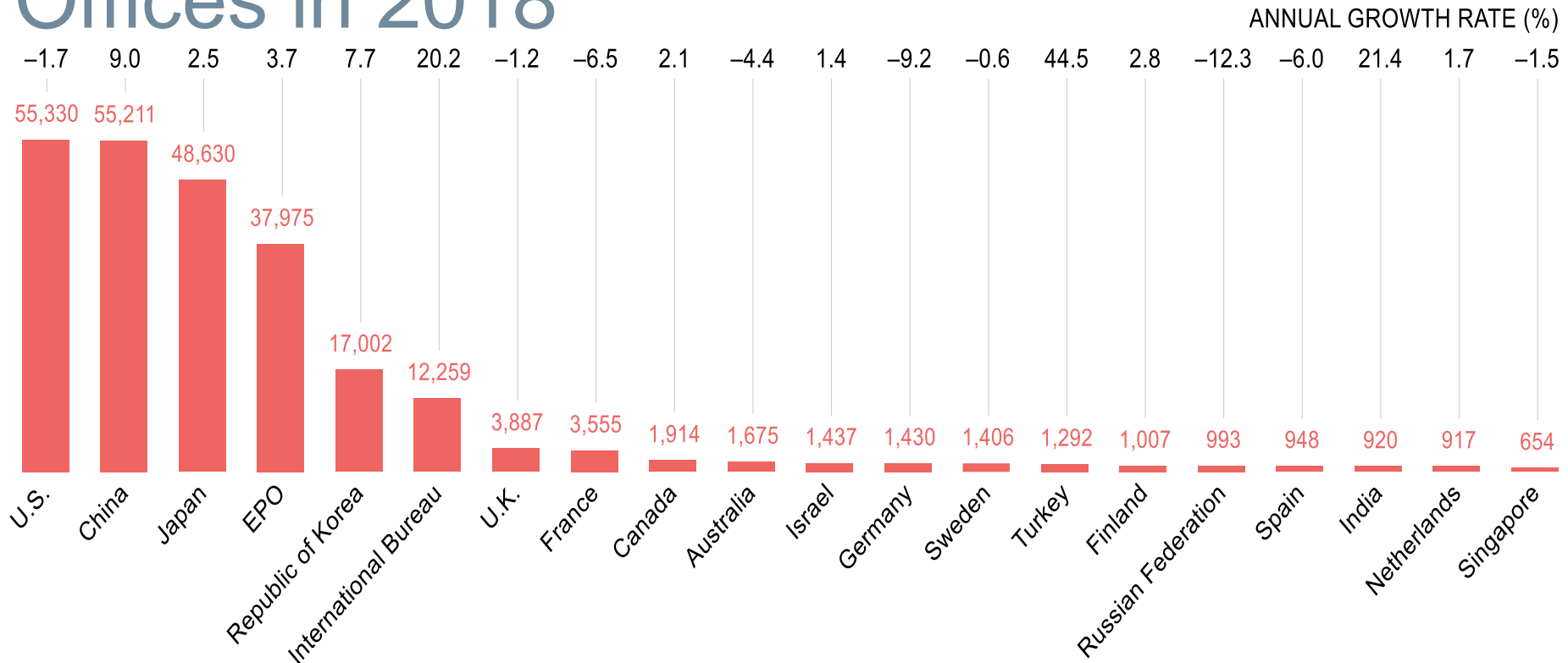
# PCT Applications by Publication Language



■ ARABIC 
 ■ CHINESE 
 ■ ENGLISH 
 ■ FRENCH 
 ■ GERMAN 
 ■ JAPANESE 
 ■ KOREAN 
 ■ PORTUGUESE 
 ■ RUSSIAN 
 ■ SPANISH

- Share of PCT publications in English declined (45.6% in 2018)
- Other percentages: 19.6% Japanese, 17.9% Chinese, 7.3% German, 5.8% Korean, 2.5% French, 0.62% Spanish, 0.43% Russian, 0.22% Portuguese, 0.01% Arabic

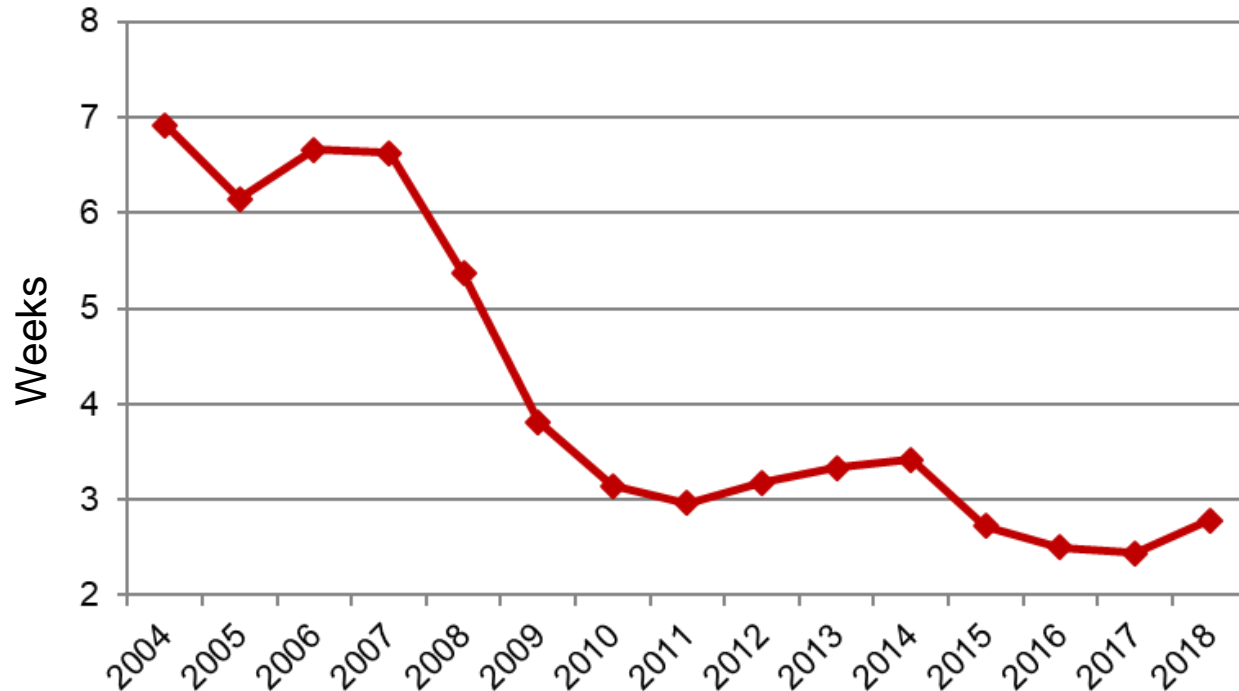
# PCT Applications for Top 20 Receiving Offices in 2018



Source: WIPO Statistics Database, March 2019

- United States of America and China received more than 55,000 applications.
- Highest percentage rises for filings in Turkey (+44.5%), India (+21.4%) and at the International Bureau (+20.2%)

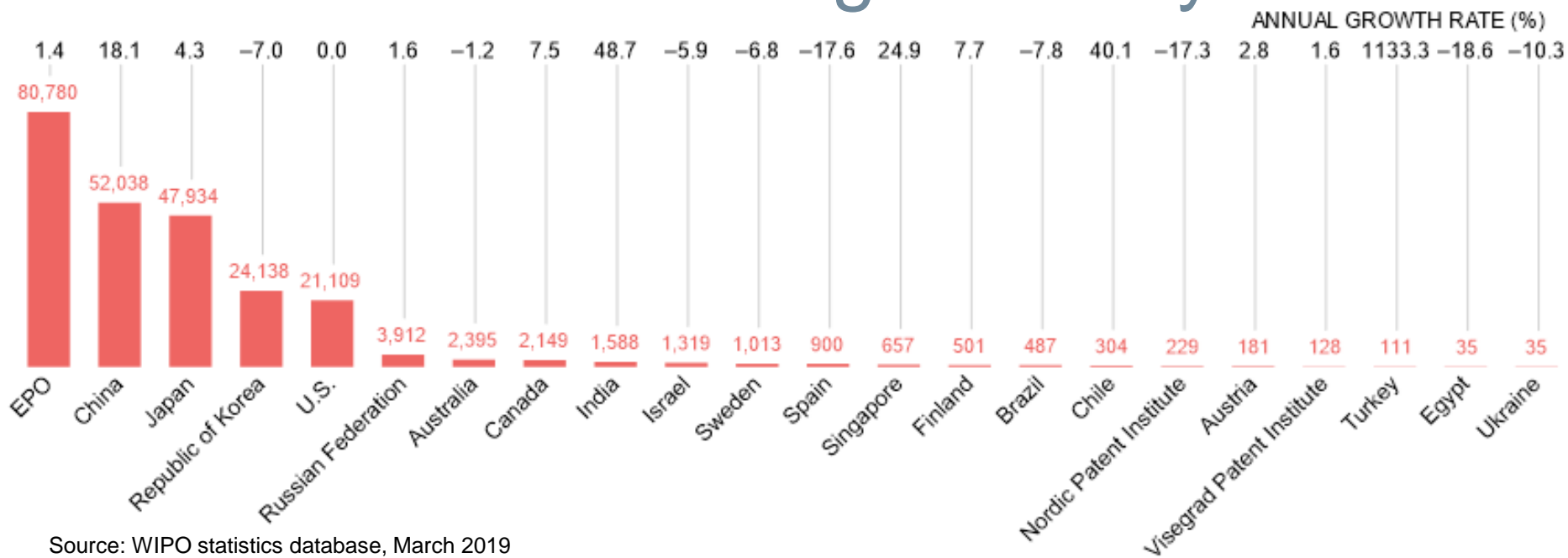
# Receiving Offices: Timeliness of Transmitting PCT Applications to the IB



Source: WIPO Statistics Database, March 2019

- Average transmission time between international filing date and date the IB received the application increased slightly to 2.8 weeks in 2018 (from 2.5 weeks in 2017).
- 93.3% of PCT applications transmitted to IB within 4 weeks in 2018 (95.1% in 2017)

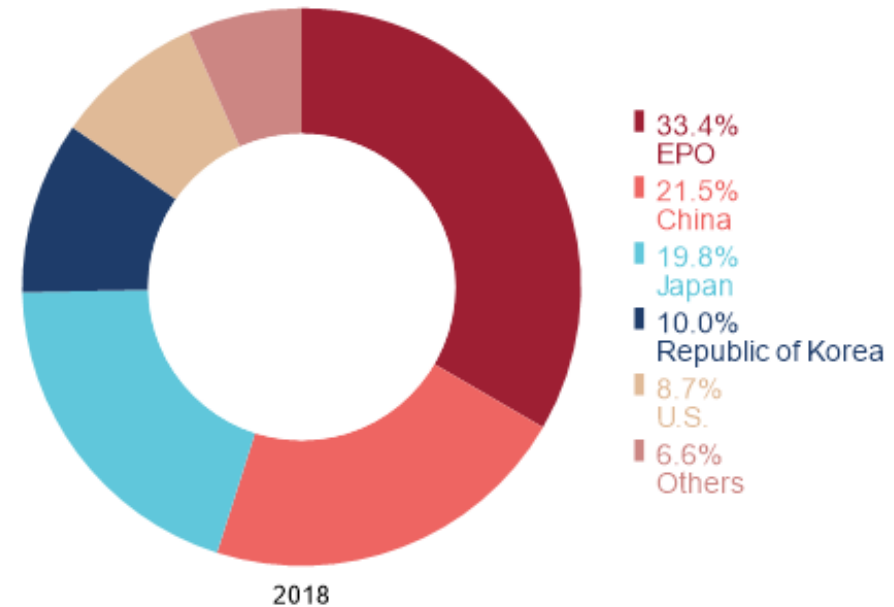
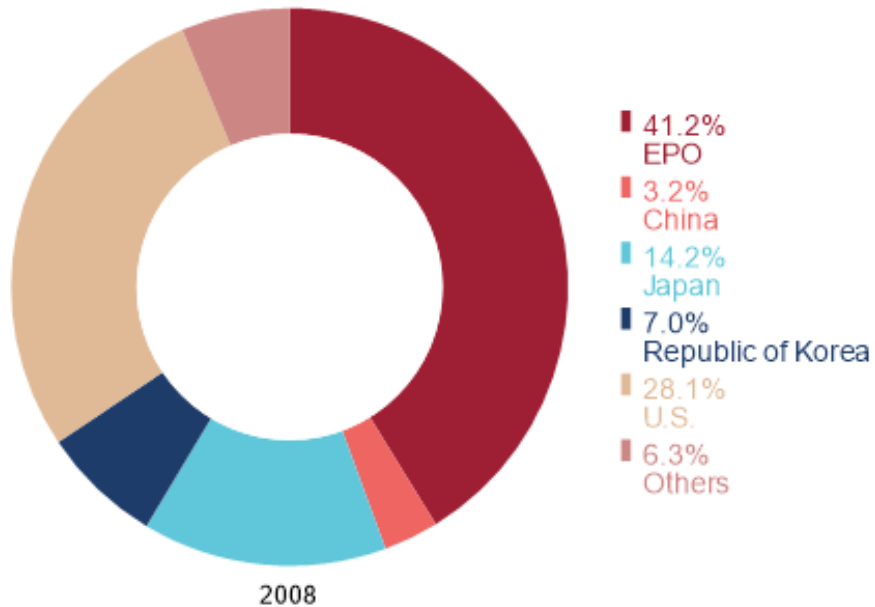
# Search Reports established by International Searching Authority in 2018



Source: WIPO statistics database, March 2019

- China became second most used International Searching Authority in 2018.
- IP5 Offices established 93.4% of reports.
- High percentage increases in search reports from Offices India (+48.7%), Chile (+40.1%), Singapore (+24.9%) and China (+18.1%).

# Distribution of International Search Reports by International Searching Authority

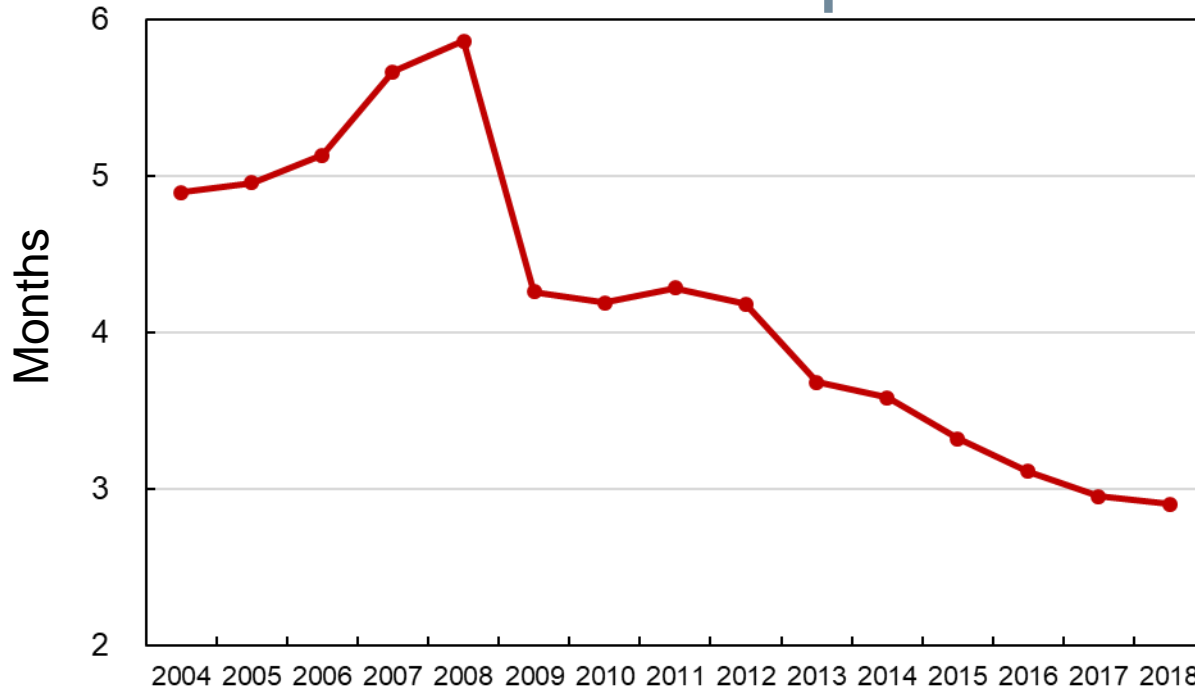


Source: WIPO statistics database, March 2019

- IP5 Offices established 93.4% of reports in 2018 (93.7% in 2008).
- Increases in percentage share for China, Japan and Republic of Korea; decreases for EPO and United States of America.



# Average Timeliness in transmitting ISRs to the IB from Date of Receipt of Search Copy



Source: WIPO statistics database, March 2019. Excludes cases where the time limit of 9 months from the priority date applies.

- Average timeliness in transmitting ISRs to the IB was 2.90 months in 2018
- 85.0% of PCT applications transmitted to IB within 3 months from date of receipt of search copy (84.1% in 2017)
- 97.2% of international publications published with ISR (97.4% in 2017)

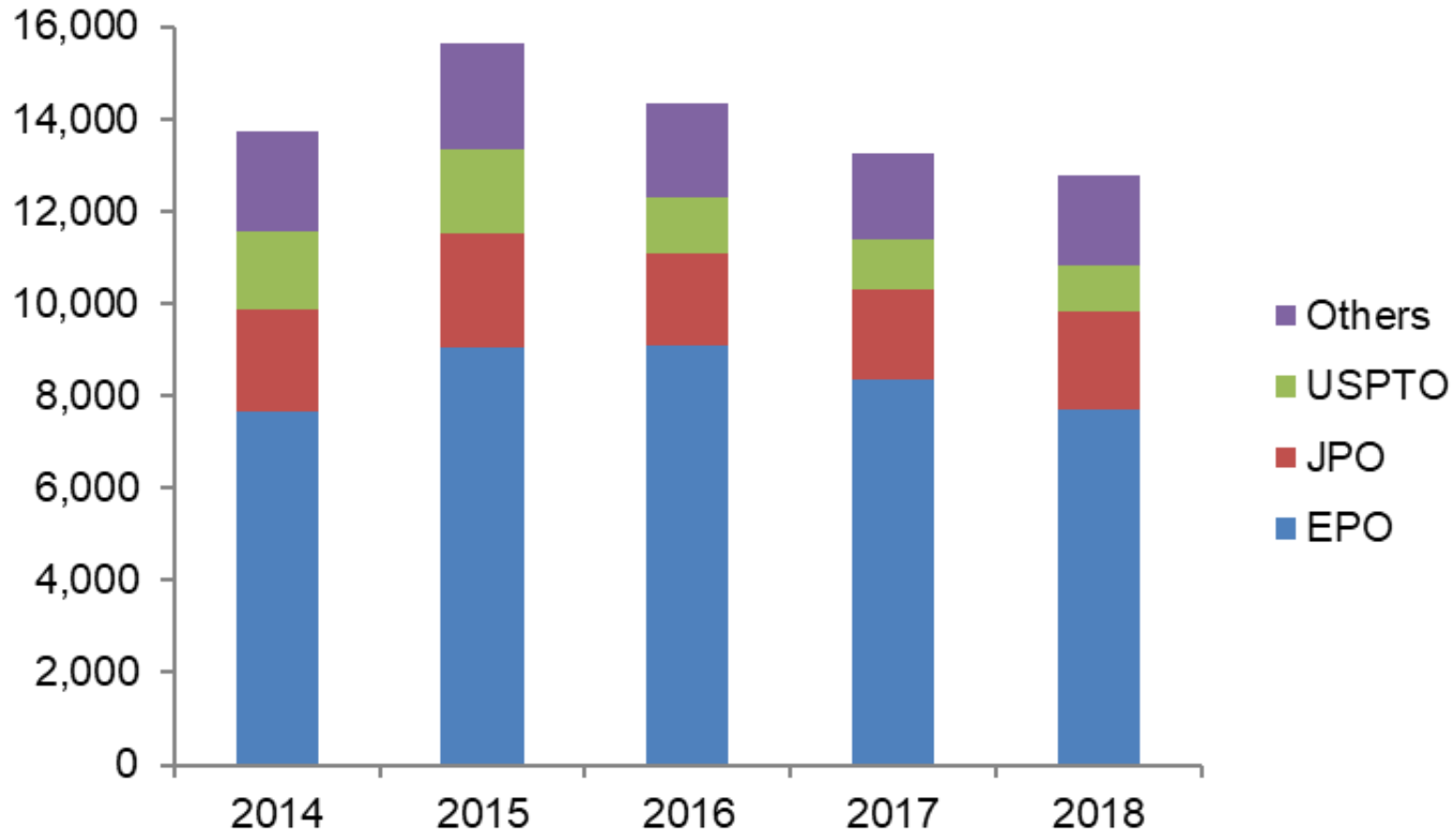
# Supplementary International Search Requests

Supplementary international searching authority	Year					
	2013	2014	2015	2016	2017	2018
Austria	2	2	2		1	1
European Patent Office	30	61	40	44	40	54
Russian Federation	32	46	22	3	6	
Singapore				1		3
Sweden	3					3
Turkey						1
Ukraine					2	1
<b>Total</b>	<b>67</b>	<b>109</b>	<b>64</b>	<b>48</b>	<b>49</b>	<b>63</b>

Source: WIPO Statistics Database, March 2019

- The EPO accounted for 85.7% of requests for supplementary international search in 2018.

# IPRPs (Chapter II) by International Preliminary Examination Authority

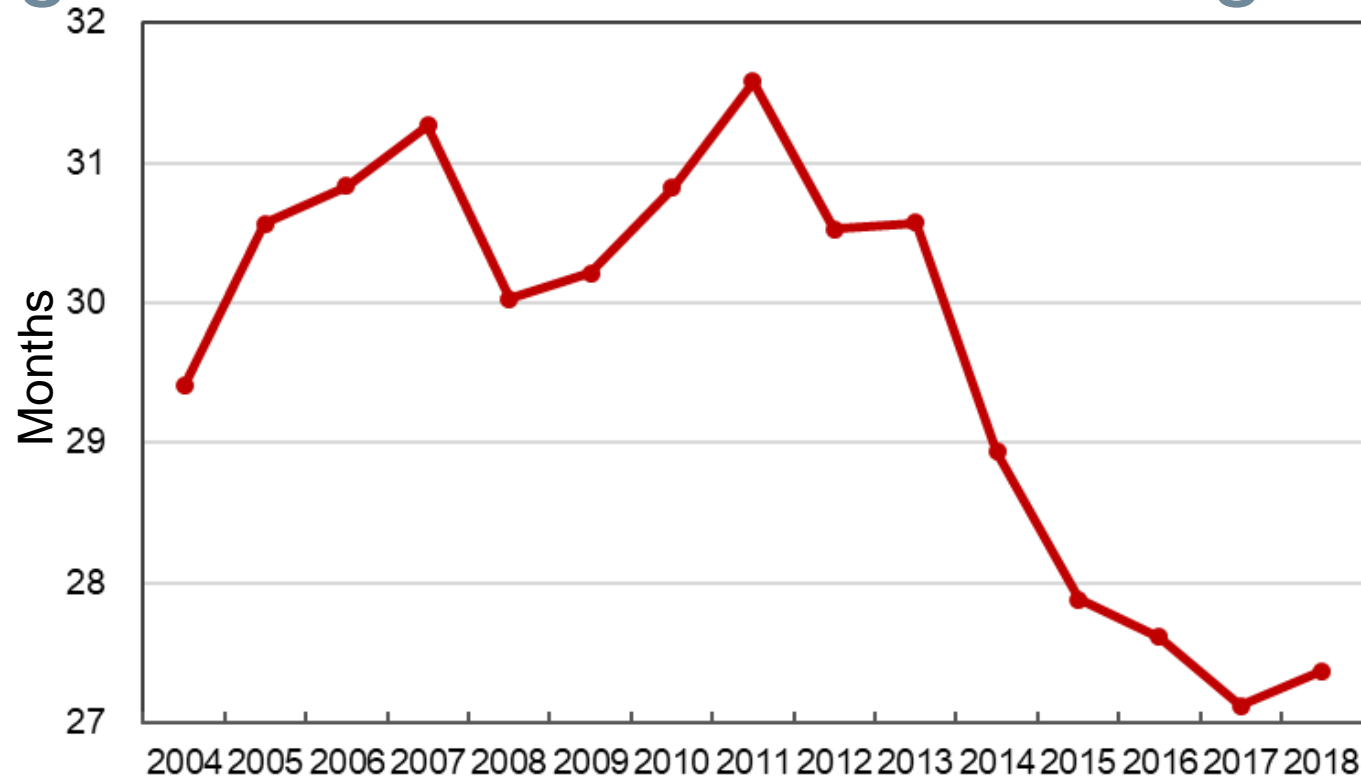


Source: WIPO Statistics Database, June 2019

■ Reports established by IPEA fell by 3.8% in 2018 to 12,767

■ 84.8% of IPRPs (Chapter II) were produced by the EPO, the JPO or the USPTO

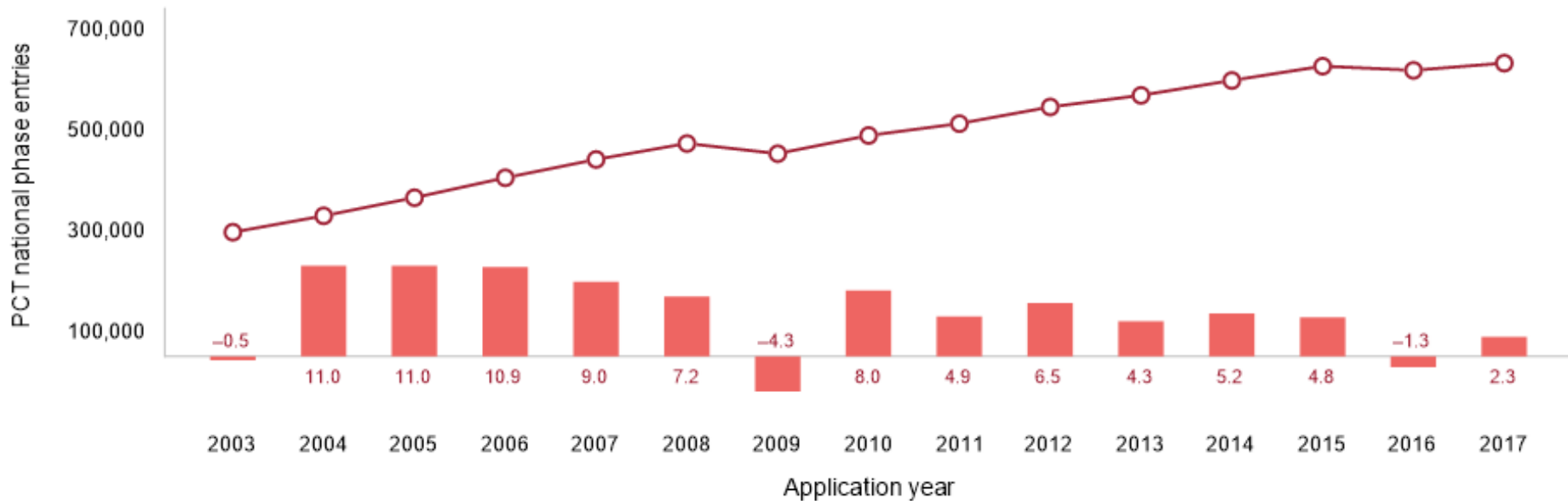
# Average Timeliness in Transmitting IPRPs



Source: WIPO Statistics Database, March 2019

- Average time in transmitting IPRPs rose to 27.4 months from priority date in 2018
- 86.3% of all IPRPs were transmitted to the IB within 28 months of priority date (89.3% in 2017)

# PCT- National Phase Entries



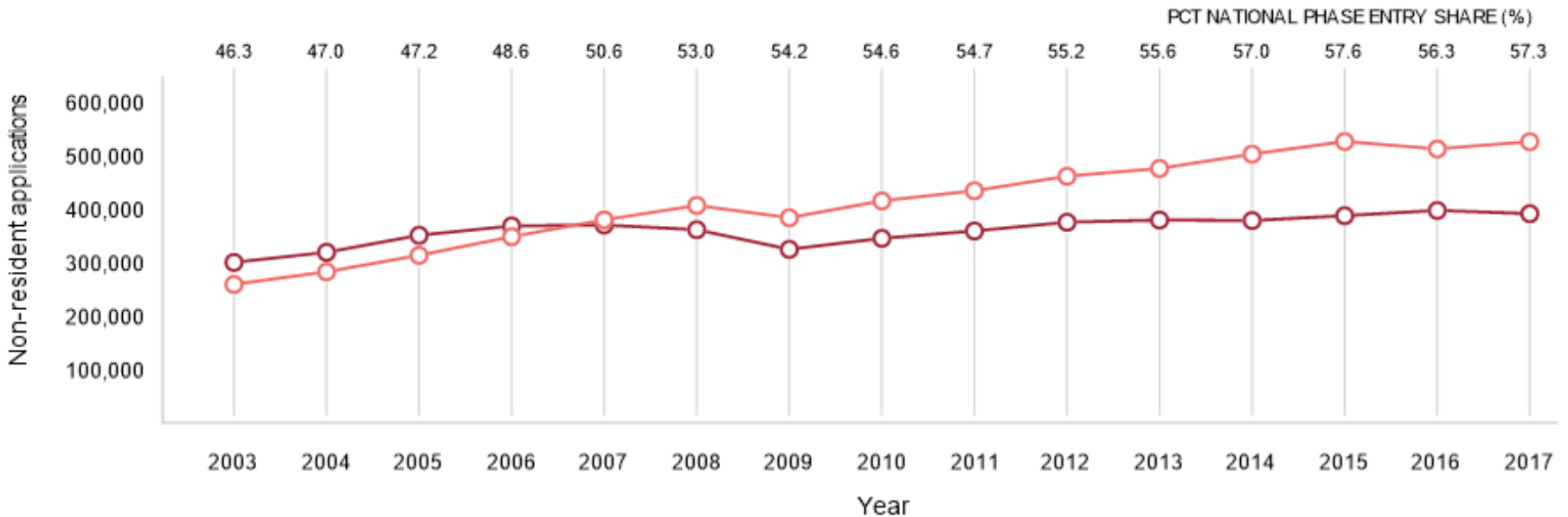
■ PCT NATIONAL PHASE ENTRIES ■ ANNUAL GROWTH RATE (%)

Source: WIPO Statistics Database, March 2019

■ 630,000 national phase entries estimated for 2017 (+2.3%)

■ About 83% are non-resident national phase entries

# Non-Resident Applications by Filing Route

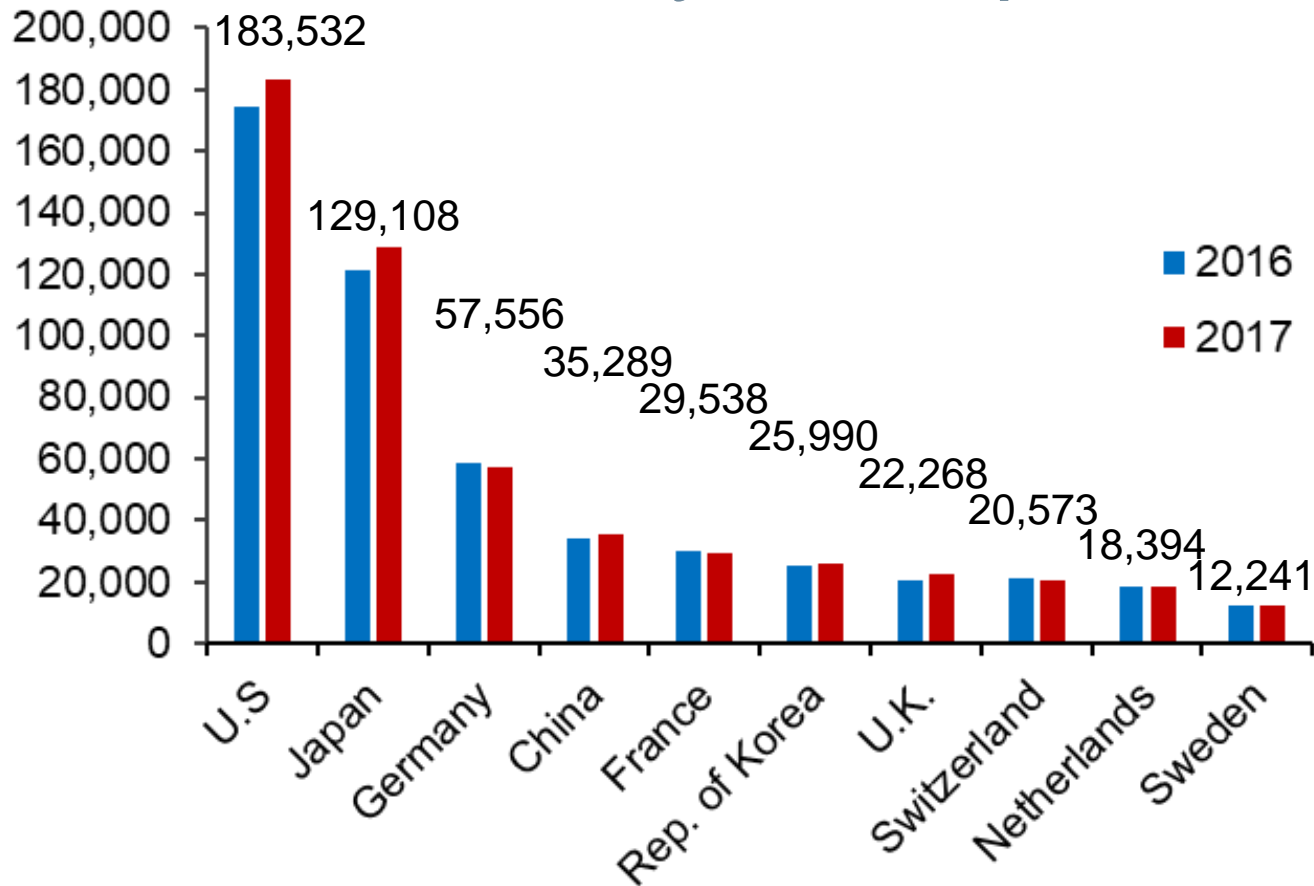


■ PARIS ROUTE ■ PCT NATIONAL PHASE ENTRIES

Source: WIPO Statistics Database, March 2019

- 526,000 non-resident national phase entries (+2.7%), 398,900 non-resident Paris-route filings (-1.9%) in 2017
- 57.3% of all non-resident applications filed through PCT in 2017 (56.3% in 2016)

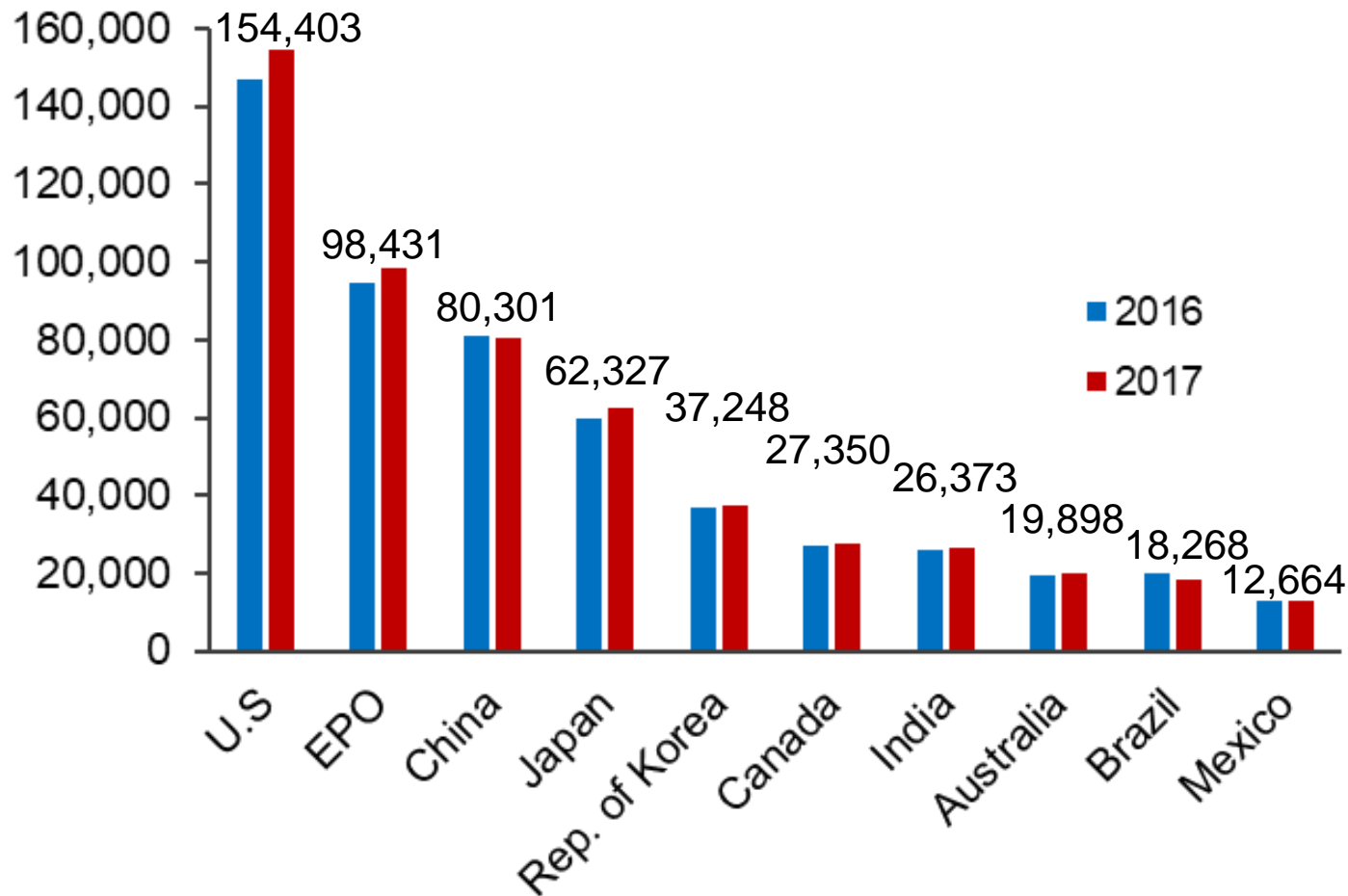
# National Phase Entry for Top 10 Origins



Source: WIPO Statistics Database, March 2019

- U.S. origin national phase entries rose by 5.2% from 174,417 to 183,532 in 2017 (192,933 in 2015)
- 2.7% growth for China (after 3 successive years of >20% growth)

# National Phase Entry for Top 10 Offices



Source: WIPO Statistics Database, March 2019

■ Growth in national phase entries for U.S. (+5.1%), EPO (+4.0%) and Japan (+4.1%) for 2017



Further information:

## **2019 PCT Yearly Review**

The International Patent System

WIPO Publication No. 901E/2019

## **World Intellectual Property Indicators 2018**

WIPO Publication No. 941E/2018

## **WIPO IP Statistics Data Center**

<http://www.wipo.int/ipstats/en/>