



WIPO's progress in gender mainstreaming

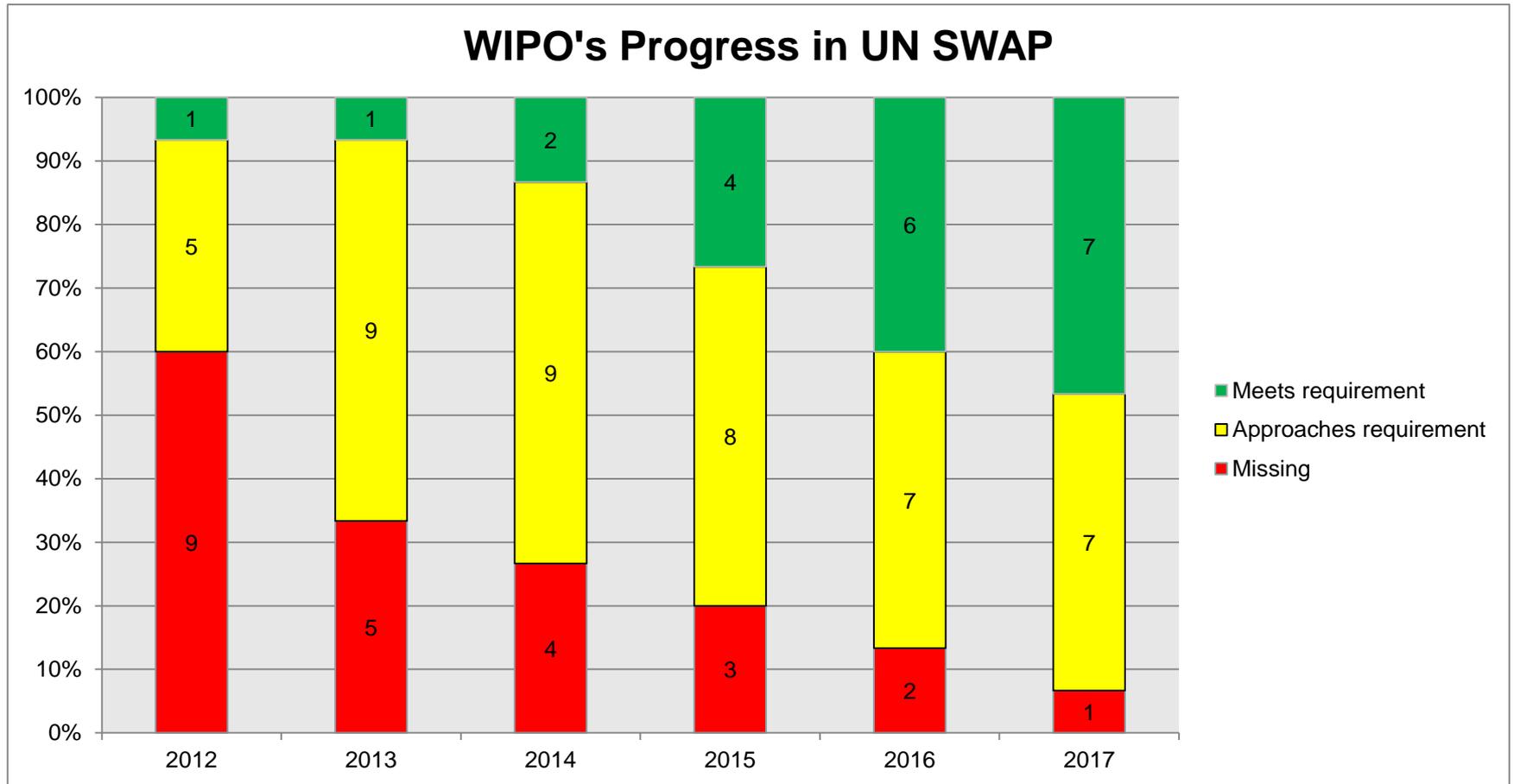
**Committee on Development and
Intellectual Property 22nd Session**

**Geneva
November 22, 2018**

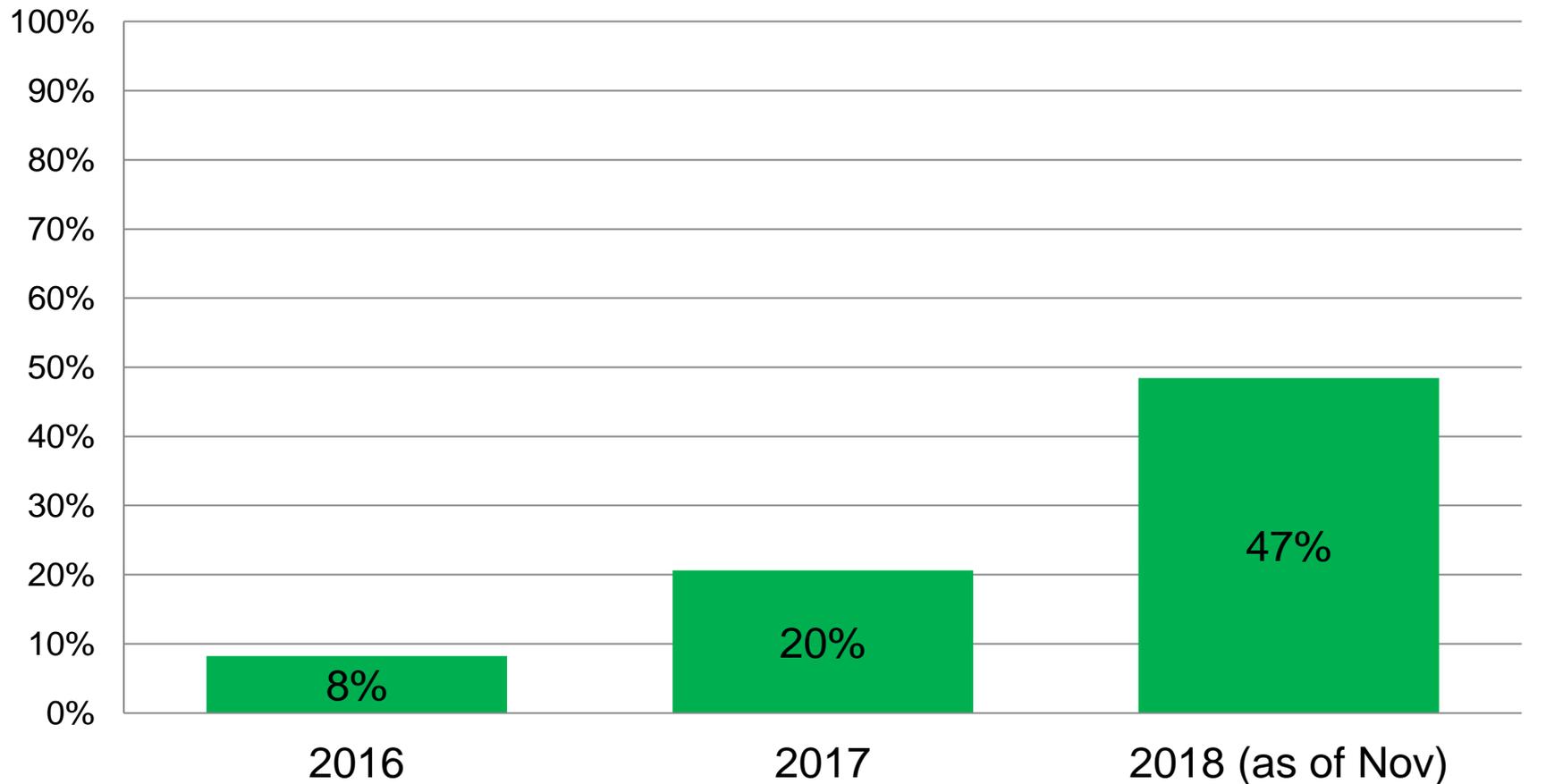
Cornelia Moussa

Director, Human Resources Management Department

WIPO's progress in UN SWAP 2012-2017



% WIPO operational units that substantively completed the gender marker in annual workplans





How WIPO communicates about gender equality

Committee on Development & IP

Geneva
November 22, 2018

Cathy Jewell

Senior Information Officer, Communications Division

Gender equality: a high priority

■ Language, messaging, stories

- our editorial guidelines mainstream gender neutrality
- we endeavor to feature equal numbers of women and men in our creative outputs

■ Across multiple channels of communication

- (e.g. website, social media, publications, AV materials, *WIPO Magazine*, *WIPO Wire*)

**Dorothy Ghattuba,
Founder and CEO of
Spielworks Media,
Nairobi, Kenya**

*“Create, create, create.
Don’t stop creating.
Understand and
embrace the value of
creativity. Protect
yourself, protect your
work. Develop a
business mind as well as
your creative mind and
make them meet. It’s a
balancing act.”*



**Kiran Mazumdar-Shaw,
Chairperson and
Managing Director of
Biocon**



“Science is about making the world a better place. Knowledge has no gender. Greater participation by women in science and technology will ensure that the fruits of research are rapidly converted into useful knowledge that can support human progress. It is an important part of a nation’s social and economic development.”

**Professor Joana d’Arc
Félix de Sousa, Founder,
CurTEENDEDORISMO
project, State Technical
School, Franca, Brazil**

*“My work in with
technical schools [in
Brazil] has demonstrated
that it is possible to
develop cutting-edge
research and secure
patents within these
schools and with the
help of socially-
vulnerable students.”*



Mandy Haberman, Founder, Haberman Products



“... too few women pursue studies or careers in patent-intensive subject areas. Clearly, more needs to be done to motivate and attract women into engineering, science, computer science, technology and innovation so that they can direct their talents to solving important social and scientific problems.”



Powering change: Women in innovation and creativity

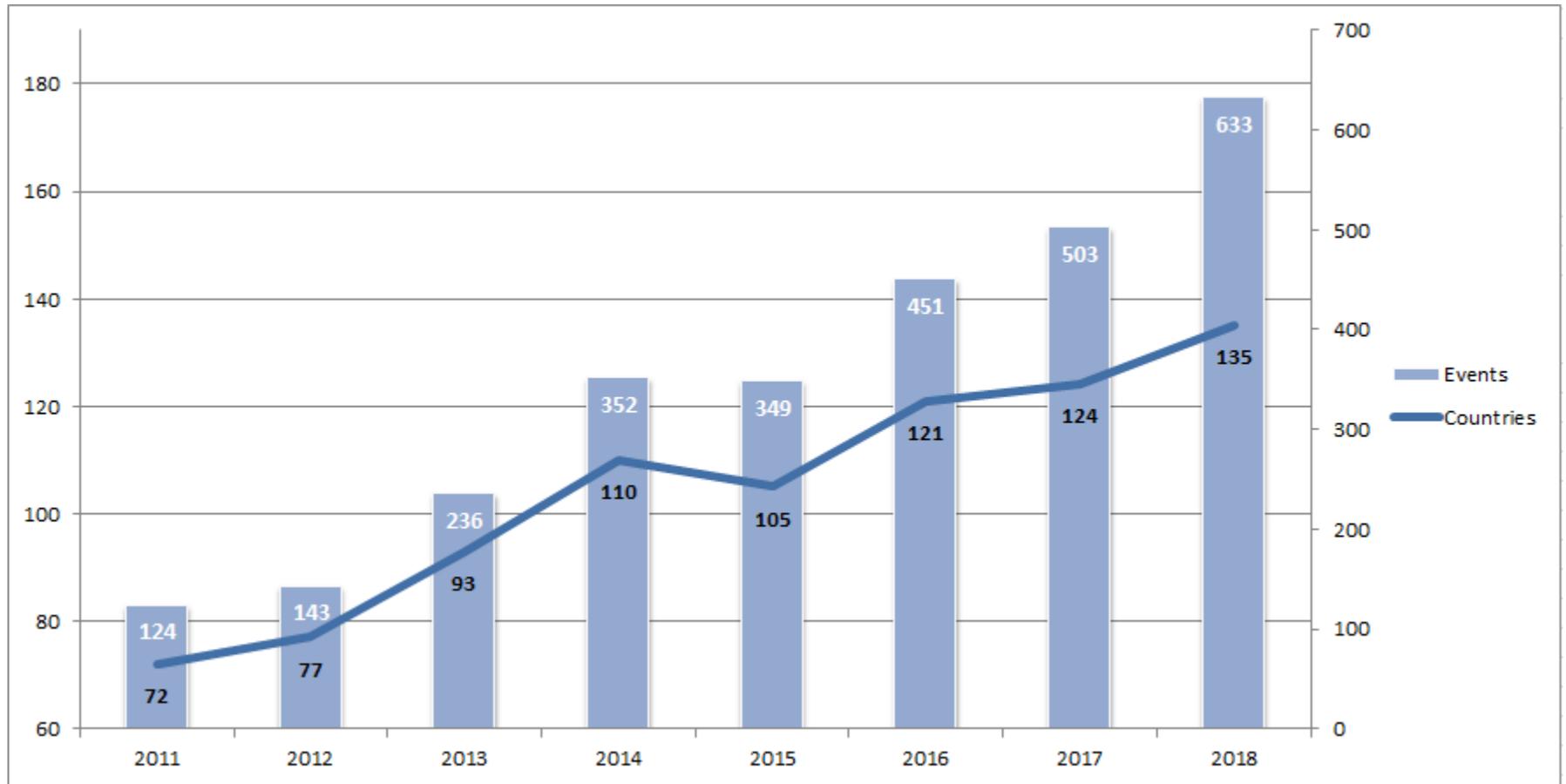
**World Intellectual
Property Day 2018**

April 26



#worldipday
wipo.int/ipday
youtube.com/wipo

World IP Day 2018: record engagement





630+ events in 135 countries/territories



Ester Arboleras, co-inventor of the iBus Traffic management system (Philippines)



Daniela Galindo, Social Entrepreneur, helping people living with disabilities to communicate (Colombia)



Sheila Okoth, Mycologist and Associate Professor, University of Nairobi – increasing food safety



Tina Appiah, Founder and CEO of Ghana Code Club. Equipping children and teens with digital skills



Masayo Takahashi, Ophthalmologist, Pioneer of Regenerative Medicine (Japan)



Students inventors, Higher College of Technology, Muscat, Oman

We are all better off
when women and girls
are empowered to make
their full contribution
to innovation and creativity

#worldipday

♀ + ♂ = Eureka!
Let's play with a full team



Women and Intellectual Property in Arab Countries

CDIP 22nd Session

**Geneva
November 22, 2018**

Walid Abdelnasser

Director, Regional Bureau for Arab Countries, Development Sector

Overview of the Regional Bureau for Arab Countries activities on Gender Mainstreaming (2017/2018)

- Arab Regional Conference on Encouraging Women and Innovation, organized in collaboration with World Women Inventors and Entrepreneur Association (WWIEA) and the League of Arab States (LAS), May 7-10, 2017.
- One day session on “*Encouraging Innovation and Creativity of Women for Economic Development*”, on the margins of the 8th Regional Meeting of Directors of Industrial Property Offices, Cairo, Egypt, April 12, 2018.
- Participation in the LAS celebrations of World IP Day under the theme “*Empowering Change: Women in Innovation and Creativity*”, April 23-24, 2018.
- A special session on “*Gender, IP and Economic Development*”, in the Arab Subregional Meeting on the role of Intellectual Property in Achieving Economic Development, Cairo, Egypt , October 30-November 1, 2018.
- For the proposed World Plan (2019): A Regional Meeting on Intellectual Property and Women Entrepreneurship.

Eighth Arab Regional Coordination Meeting for Heads of Industrial Property Offices, April 10-12, 2018

CAIRO DECLARATION

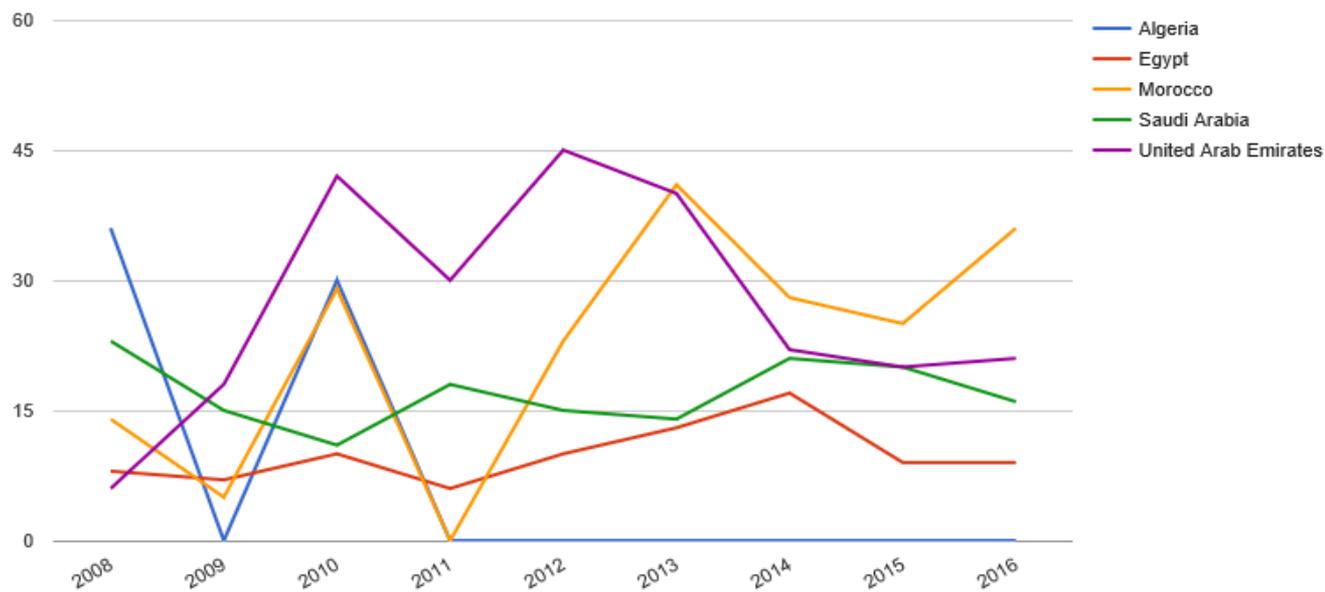
Sixth Recommendation:

“Recognizing the important and vital role of women inventors and creators in further developing the national economies, participants praised WIPO for its efforts of encouraging women inventors and creators; particularly through dedicating the theme of the 2018 World IP Day to ‘Empowering Change :Women in Innovation and Creativity’. Participants also recalled with appreciation WIPO/LAS cooperation over 2017 in this area, and called for further enhancing Arab cooperation with WIPO in this area.”

Share of PCT applications with at least one women inventor in selected Arab Countries (2008-2016)

Reporting type : Yearly statistics

Indicator : 13 - Share of applications with at least one women inventor (yearly statistics)



*Source: WIPO IP Statistics Data Center

Regional Arab Meeting on Intellectual Property and Youth, Cairo, Egypt, November 7-8, 2018.



WHO-WIPO-WTO Regional Workshop on Public Health, Intellectual Property and Trade, Kuwait City, Kuwait, November 18-21, 2018.





Thank you ...

Questions ?

Measuring women's participation as inventors and creators in international applications

Carsten Fink, WIPO Chief Economist

Julio Raffo, Head of the Innovation Economics Section

Bruno Le Feuvre, Senior Statistical Analyst

Geneva, November 22, 2018

Identifying women participation in international patenting



- U.N. sustainable development goal: «Achieve gender equality and empower all women and girls»
- WIPO promotes gender equality within it's mandate
- *Identifying the gender of PCT inventors*, an economic research working paper released in 2016
- Worldwide gender-name dictionary covering over 6.1 million names valid for 182 countries

Worldwide gender-name dictionary

9 millions
individuals

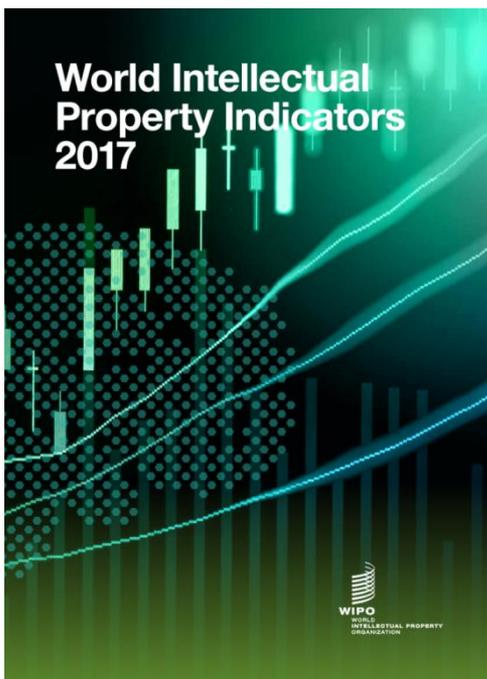
Gender attribution
96.1%

Gender attribution by country

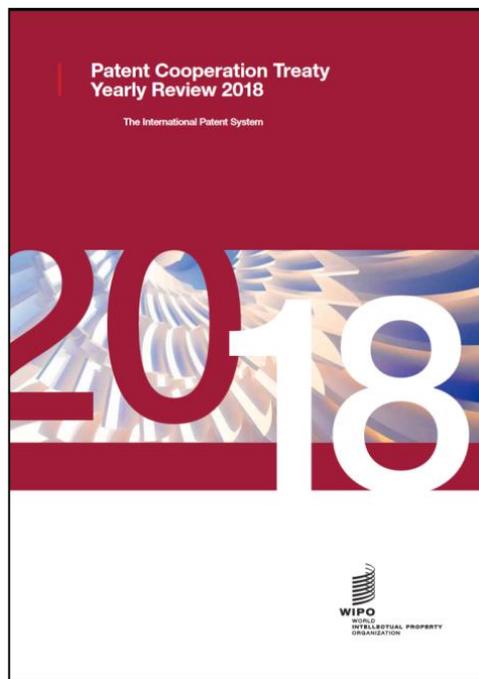
Country	Observations %	Gender attributed	
		yes	no
US	33.5%	97.0%	3.0%
Japan	15.9%	94.0%	6.0%
Germany	11.0%	99.2%	0.7%
China	6.2%	88.3%	11.7%
Korea (Rep. of)	4.7%	92.1%	7.9%
France	3.9%	99.0%	1.0%
UK	3.8%	98.9%	1.1%
Netherlands	1.9%	98.4%	1.6%
Canada	1.7%	96.5%	3.5%
Sweden	1.7%	98.6%	1.4%
Italy	1.6%	98.9%	1.1%
Switzerland	1.3%	98.8%	1.2%
Israel	1.0%	96.6%	3.4%
Australia	1.0%	98.3%	1.7%
India	1.0%	88.9%	11.1%
Finland	0.9%	98.8%	1.2%
Spain	0.9%	99.0%	1.0%
Belgium	0.7%	99.0%	1.0%
Denmark	0.7%	99.1%	0.9%
Russia	0.6%	98.3%	1.7%
Other	6.1%	95.3%	4.7%

WIPO mainstreams gender statistics since 2017

World IP Indicators



PCT Yearly Review



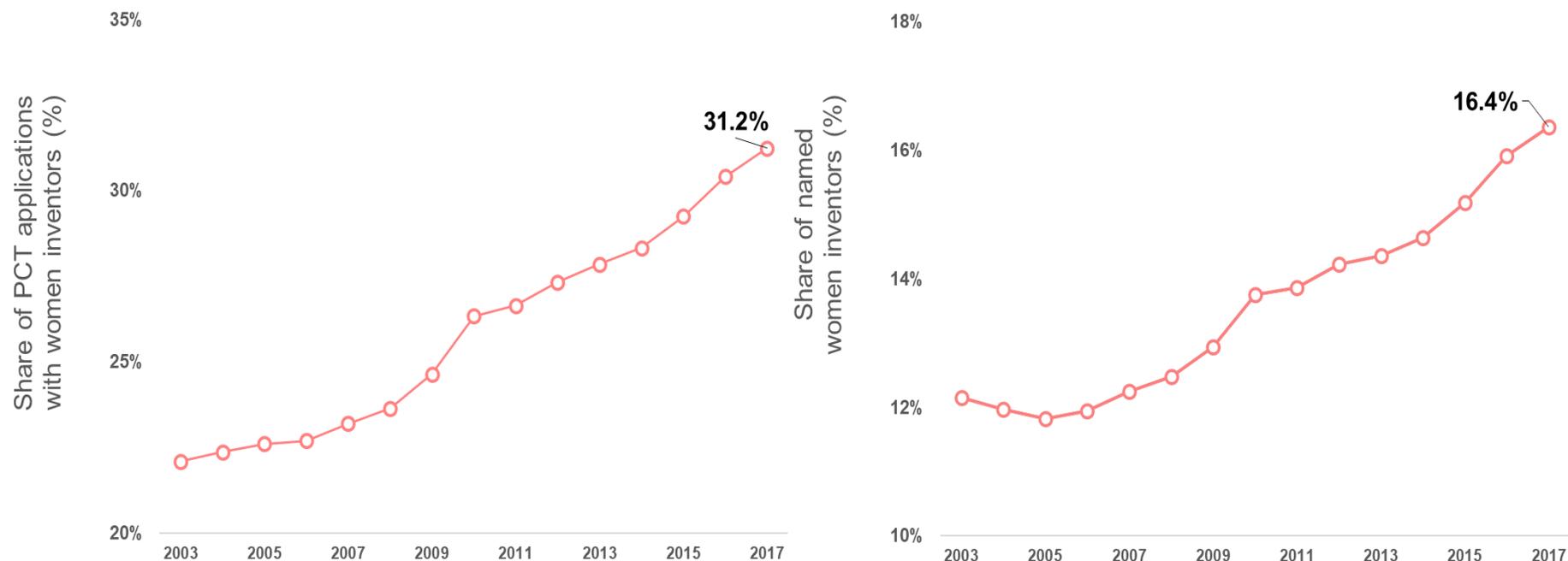
IP Statistics Data Center

The screenshot shows the WIPO IP Statistics Data Center website. At the top, there are navigation links for 'Home', 'Reference', 'Statistics', and 'Data center'. Below this, the title 'WIPO IP Statistics Data Center' is followed by the text 'Source: WIPO statistics database. Last updated: March 2015'. A 'Links' box contains the text 'Find out more about the Data Center'. A horizontal menu lists 'Key indicators', 'Patent', 'Trademark', 'Industrial design', 'Utility model', 'PCT', 'Madrid', and 'Hague'. Below the menu are three dropdown menus: 'Indicator' (with 'Indicator' selected), 'Report type' (with 'Type' selected), and 'Year range' (with 'From' and 'To' fields). 'Search' and 'Reset' buttons are located at the bottom of the form.

PCT applications by gender

In 2017, 31.2% of all PCT applications included women inventors.

A22. Share and number of PCT applications with women inventors, 2003–2017

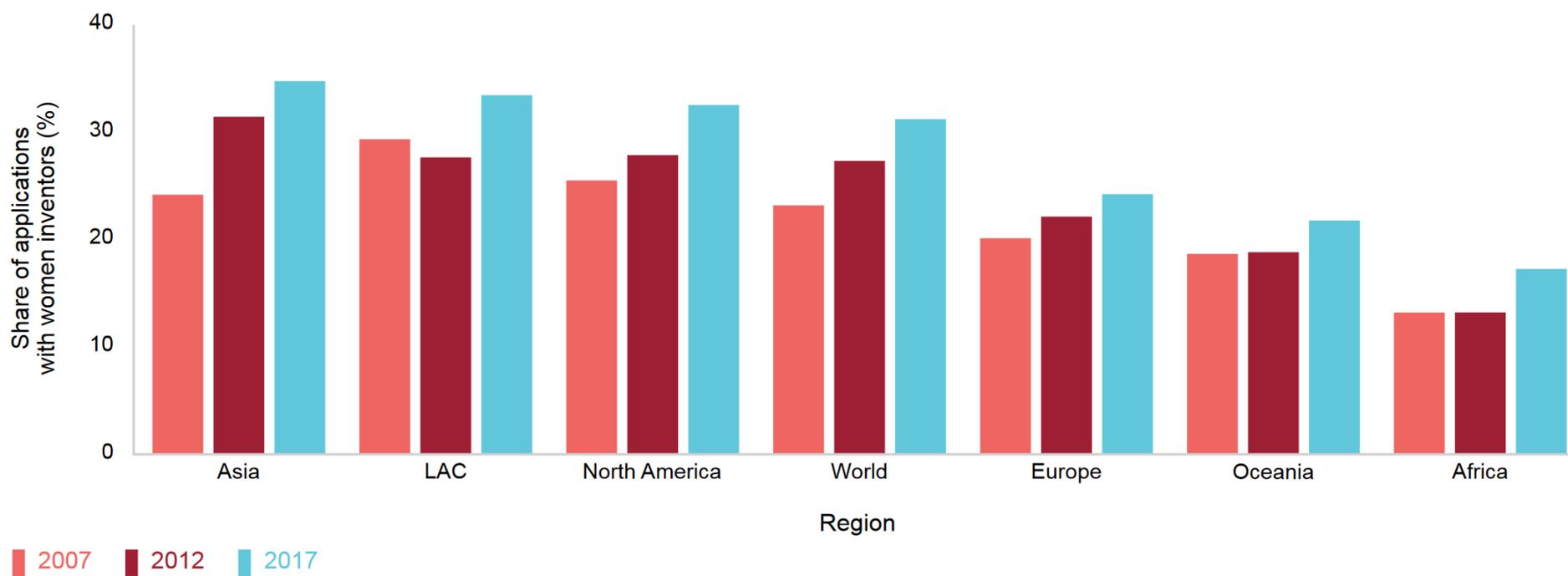


Note: For further details on methodology, refer to Martínez, G.L., J. Raffo and K. Saito (2016). Identifying the Gender of PCT Inventors. *WIPO Economic Research Working Paper No. 33*. Geneva: WIPO. Available at: www.wipo.int/publications/en/details.jsp?id=4125&plang=EN.

Source: WIPO Statistics Database, March 2018.

The share of PCT applications with women inventors has risen in each geographical region in the world between 2007 and 2017.

A23. Share of PCT applications with women inventors by geographical region, 2007, 2012 and 2017

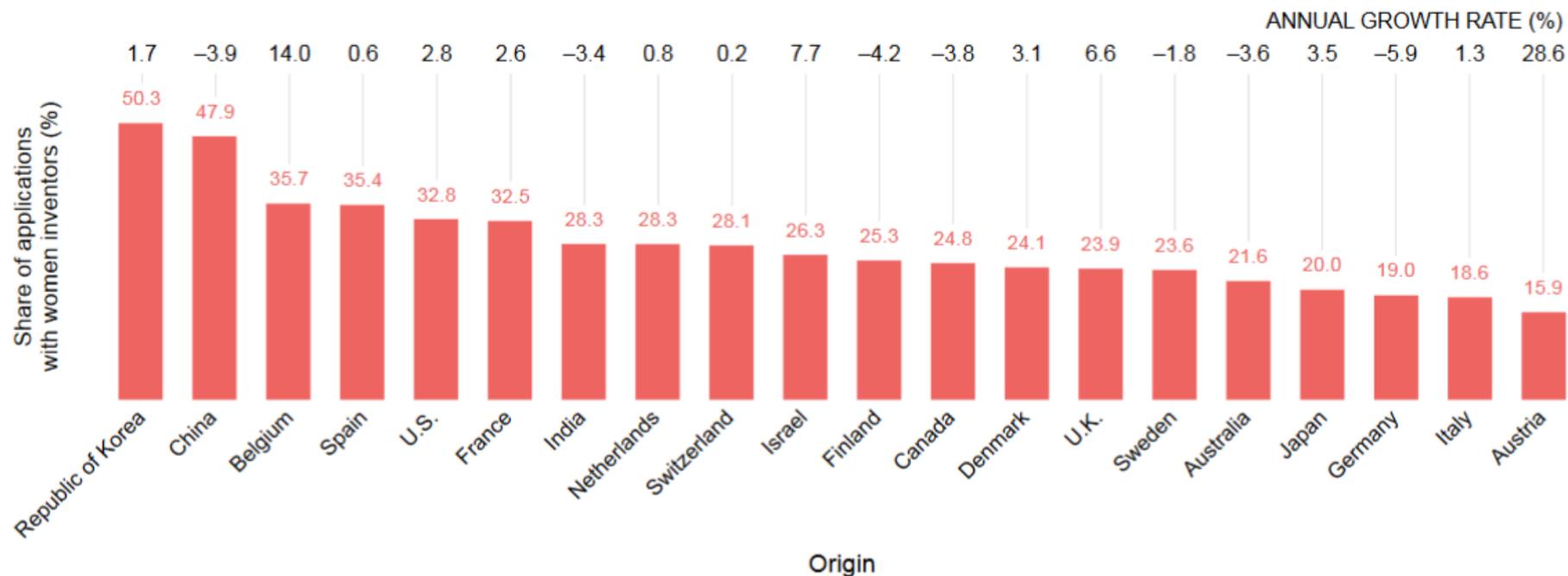


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Source: WIPO Statistics Database, March 2018.

Women inventors were represented in notably high shares of PCT applications in China and the Republic of Korea.

A24. Share of PCT applications with women inventors for the top 20 origins, 2017

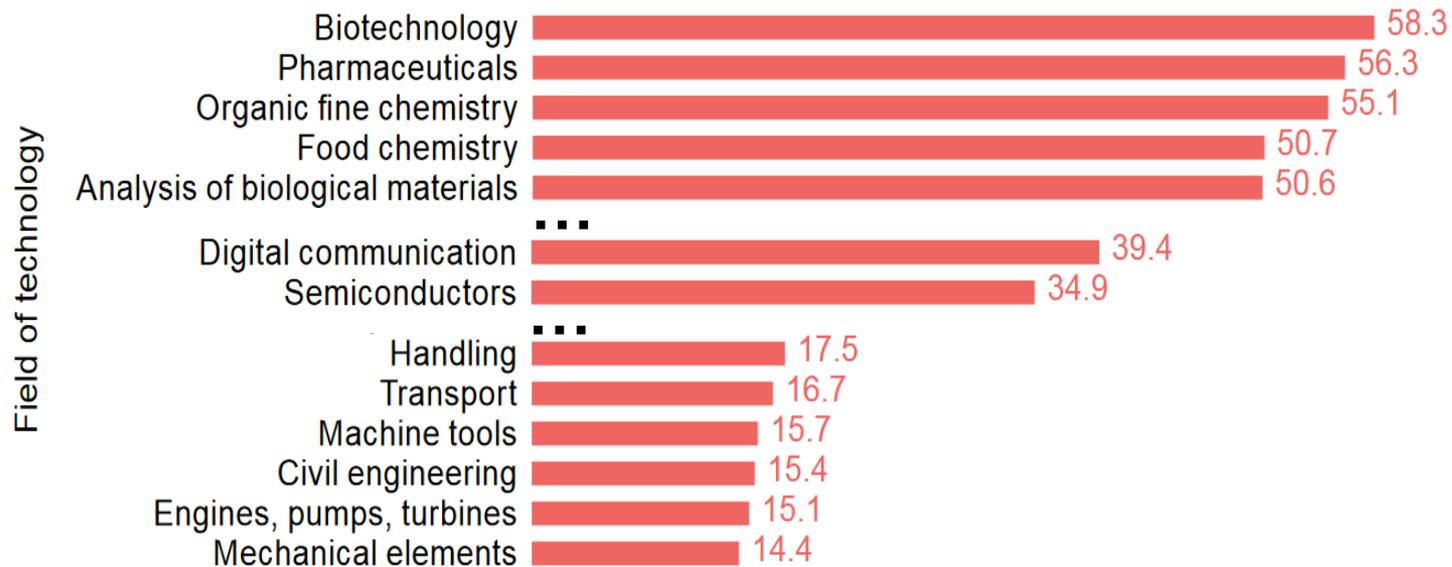


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Source: WIPO Statistics Database, March 2018.

Women inventors were represented in high shares of PCT applications relating to biotechnology and pharmaceuticals.

A25. Share of PCT applications with women inventors by field of technology, 2017



Share of applications with women inventors (%)



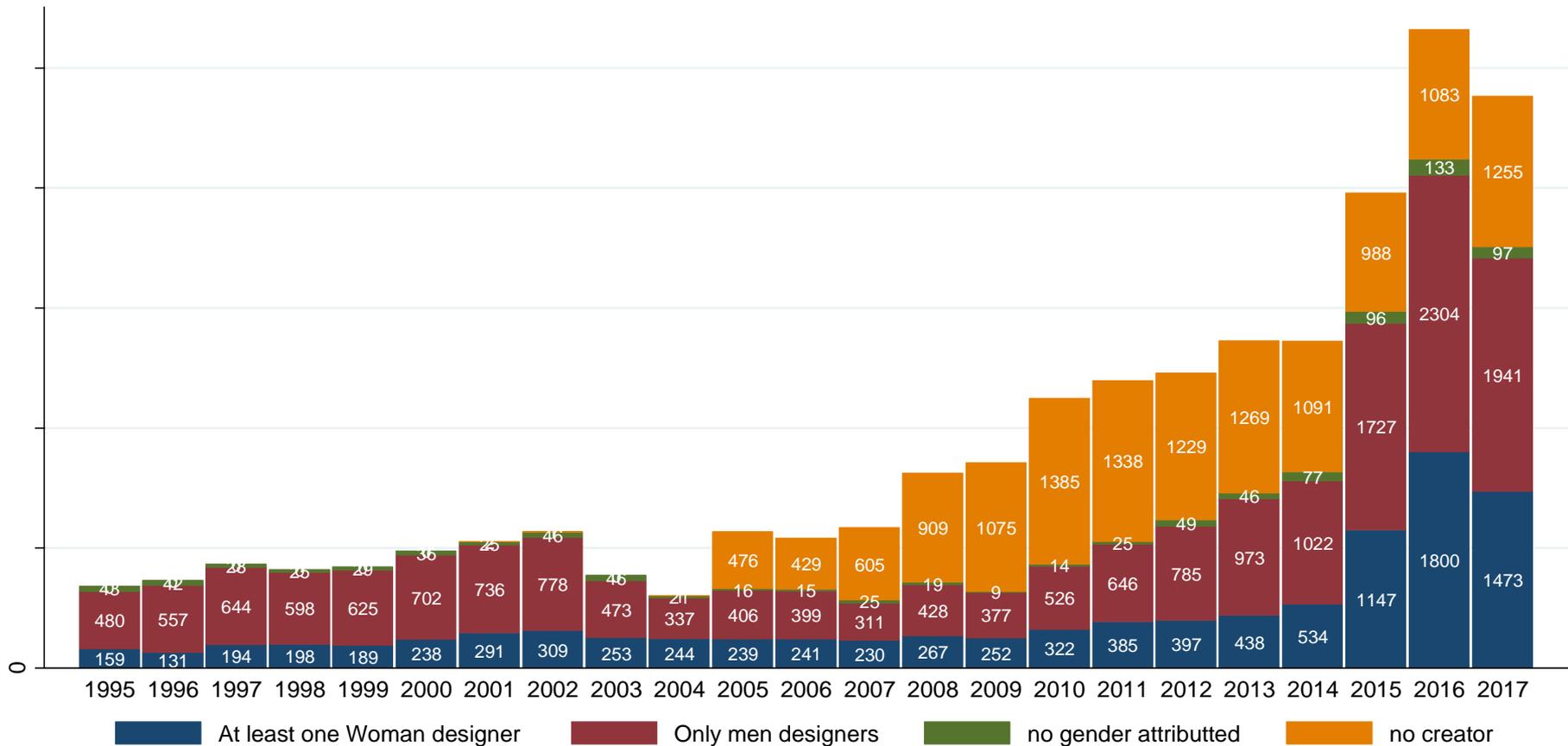
Preliminary results on the woman participation in Hague registrations

Identifying the gender gap in international industrial design registration

- Datasets provided by the Madrid Information Systems Division
- Hague registrations having creators named
- Enhanced World Gender Name Dictionary (version 2.0)
- Considerable data cleaning to extract single designer information from multiple designer field

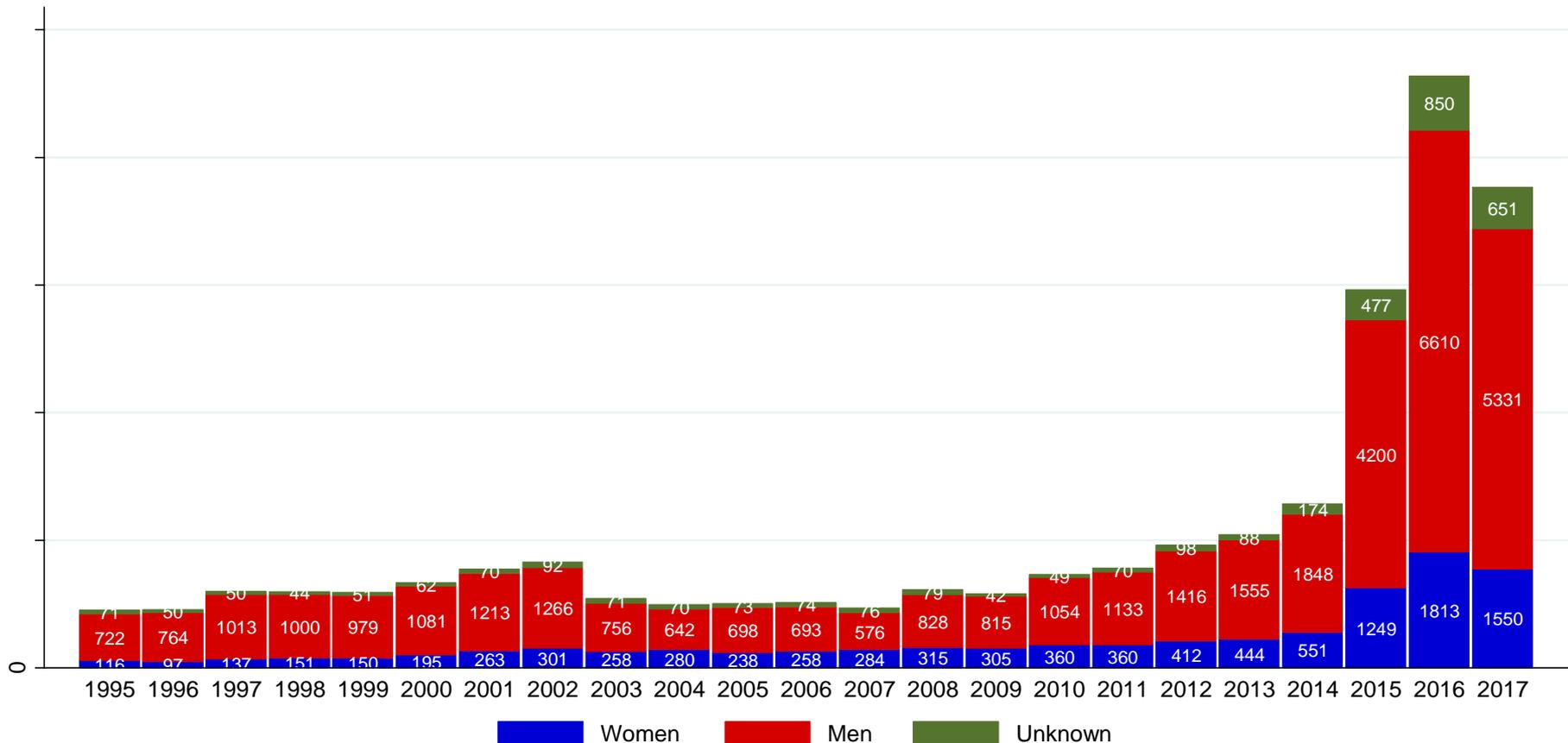
Women participation

■ Hague registrations with at least one woman designer



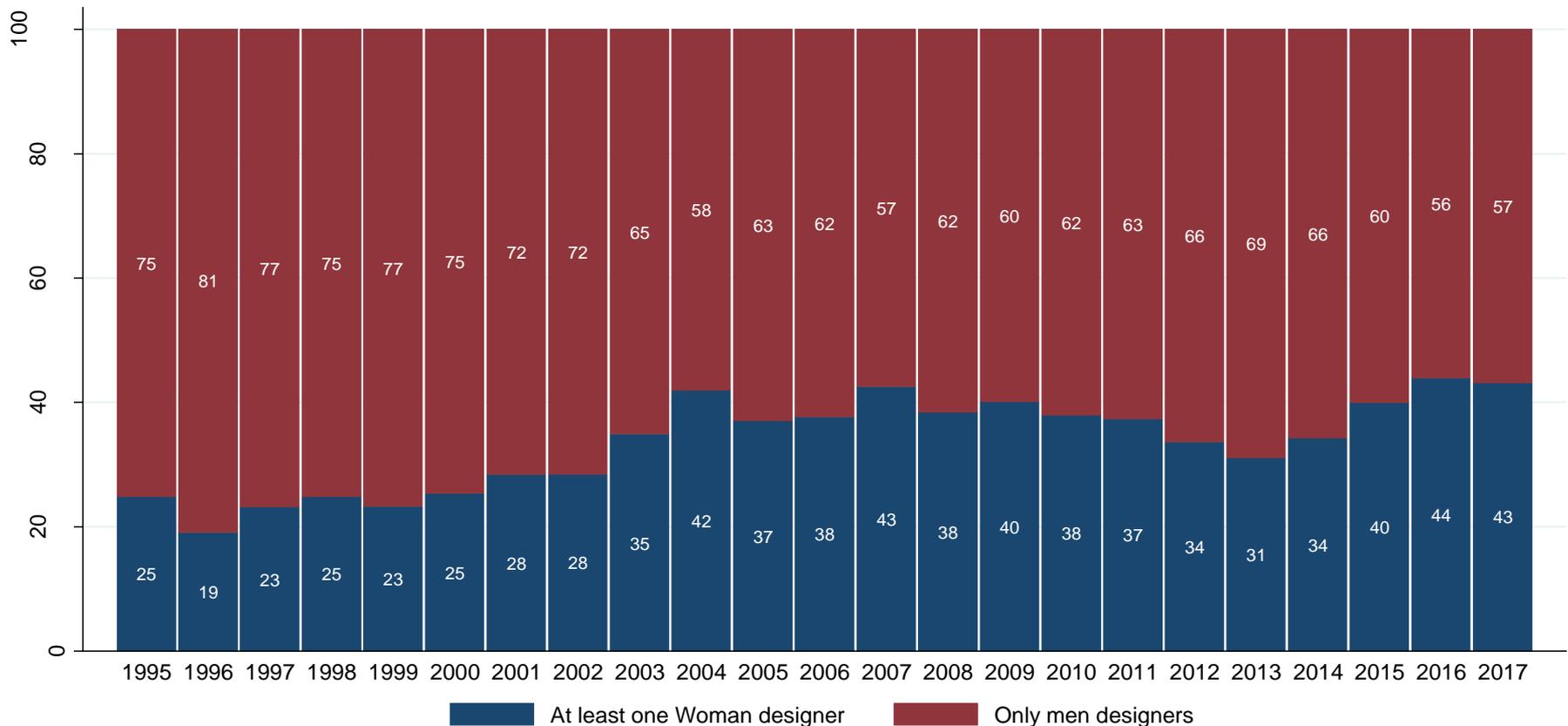
Designers distribution

■ Hague creators by gender



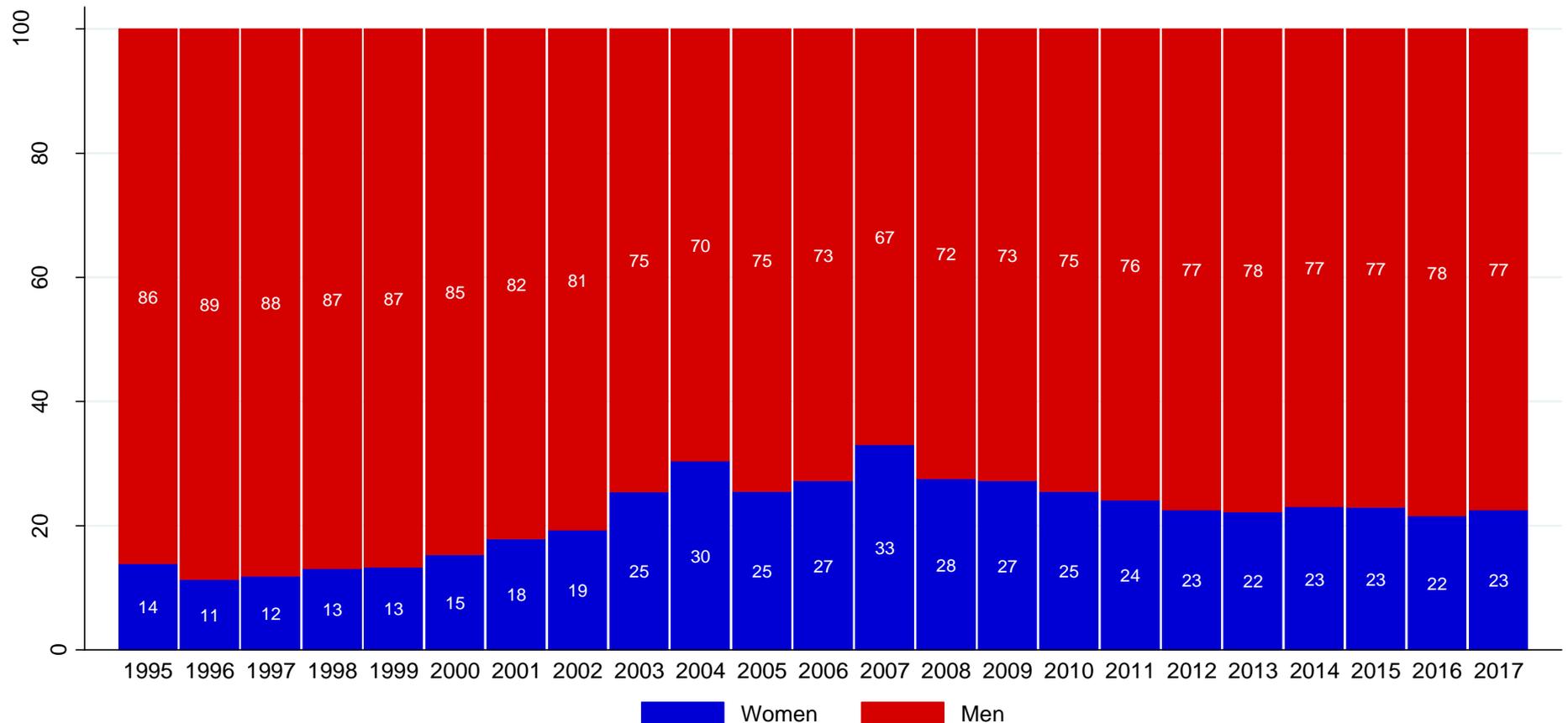
Women participation

■ % Hague registrations with at least one woman designer



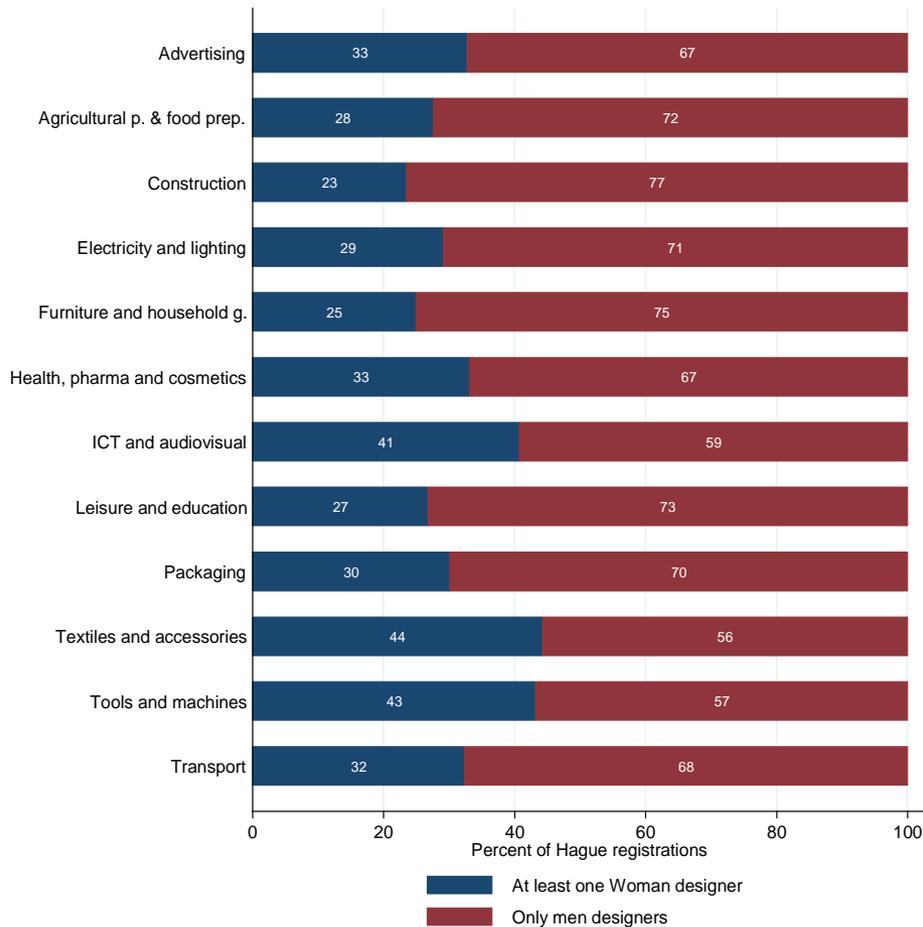
Designers distribution

Hague creators by gender

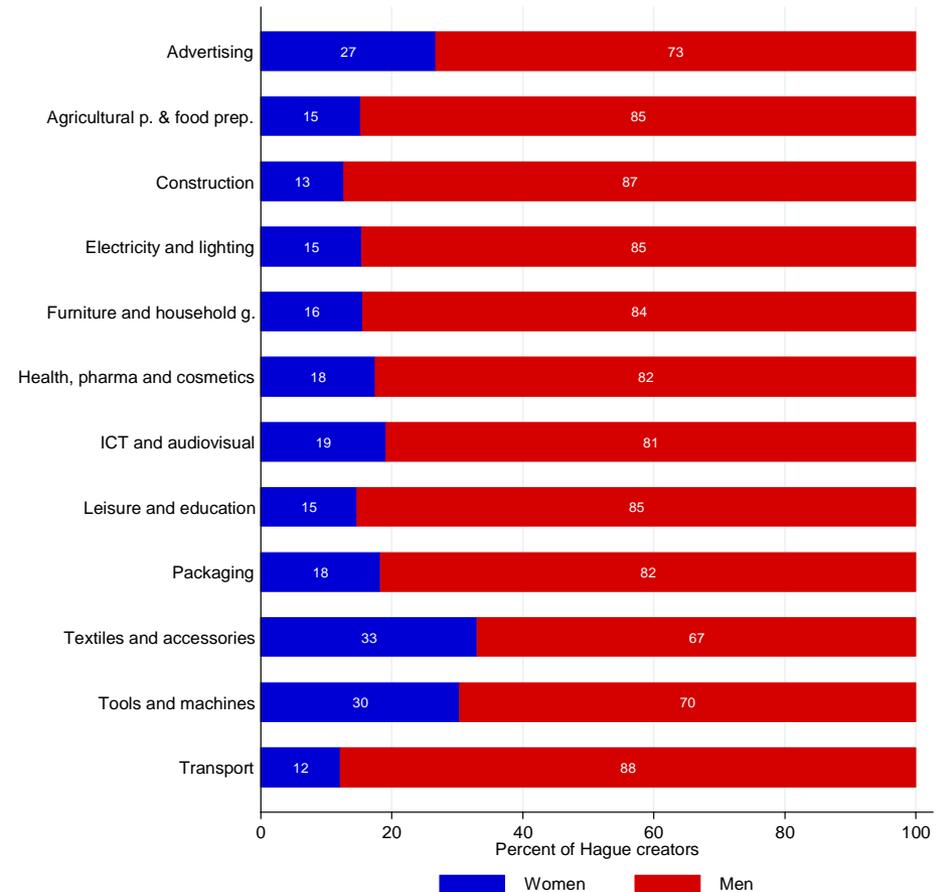


Women participation by sector

■ Hague registrations
with at least one woman designer



■ Hague creators by gender



Main takeaways

■ Patents:

- Women participation is increasing in virtually all dimensions
- PCT Gender data have been fully mainstreamed

■ Industrial designs:

- Women participation in Hague is higher than for PCT, but still far from gender balance
- However, data coverage is affected by national design law requirements and historical comparison is limited

■ Further research:

- Exploratory analysis on Madrid data
- Use PCT and national data to study gender participation in SMEs and entrepreneurship
- Developing a Machine Learning (AI) tool based on our gender dictionary