WIPO’s progress in gender mainstreaming

Committee on Development and Intellectual Property 22nd Session

Cornelia Moussa
Director, Human Resources Management Department
WIPO’s progress in UN SWAP
2012-2017

WIPO's Progress in UN SWAP

- **Meets requirement**
- **Approaches requirement**
- **Missing**

2012: 1
2013: 1
2014: 2
2015: 4
2016: 6
2017: 7
% WIPO operational units that substantively completed the gender marker in annual workplans
How WIPO communicates about gender equality
Committee on Development & IP
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 Ghettuba, 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.”
“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.”
“... 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.

♀️ + ♂️ = Eureka!
Let's play with a full team.
Women and Intellectual Property in Arab Countries

CDIP 22nd Session

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.


- 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)

*Source: WIPO IP Statistics Data Center*
Regional Arab Meeting on Intellectual Property and Youth, Cairo, Egypt, November 7-8, 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 its 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%

<table>
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<th>Country</th>
<th>Observations %</th>
<th>Gender attributed yes</th>
<th>Gender attributed no</th>
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<tr>
<td>US</td>
<td>33.5%</td>
<td>97.0%</td>
<td>3.0%</td>
</tr>
<tr>
<td>Japan</td>
<td>15.9%</td>
<td>94.0%</td>
<td>6.0%</td>
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<tr>
<td>Germany</td>
<td>11.0%</td>
<td>99.2%</td>
<td>0.7%</td>
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<tr>
<td>China</td>
<td>6.2%</td>
<td>88.3%</td>
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<td>1.1%</td>
</tr>
<tr>
<td>Switzerland</td>
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<td>0.9%</td>
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<td>Other</td>
<td>6.1%</td>
<td>95.3%</td>
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WIPO mainstreams gender statistics since 2017

World IP Indicators

PCT Yearly Review

IP Statistics Data Center
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


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


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


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

Field of technology

- Biotechnology: 58.3%
- Pharmaceuticals: 56.3%
- Organic fine chemistry: 55.1%
- Food chemistry: 50.7%
- Analysis of biological materials: 50.6%
- Digital communication: 39.4%
- Semiconductors: 34.9%
- Handling: 17.5%
- Transport: 16.7%
- Machine tools: 15.7%
- Civil engineering: 15.4%
- Engines, pumps, turbines: 15.1%
- Mechanical elements: 14.4%

Share of applications with women inventors (%)

WIPO
WORLD INTELLECTUAL PROPERTY ORGANIZATION
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

![Graph showing the number of Hague registrations with at least one woman designer from 1995 to 2017. The graph includes bars for at least one woman designer, only men designers, no gender attributed, and no creator. The numbers for each category are shown for each year.]
<table>
<thead>
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</tbody>
</table>
Women participation

% Hague registrations with at least one woman designer
Women participation by sector

- Hague registrations with at least one woman designer

- Hague creators by gender

Women Men

12 73
27 73
33 72
72
20 20
77
71
75
67
59
70
73
56
57
68
67
72
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