

Student Session Overview

“Gender Equality in the Space Field”

6th UNISEC-Global Meeting

Alice Pellegrino
UNISEC-Italy

ISU, Strasbourg, France, Nov 21, 2018

1 NO POVERTY



2 NO HUNGER



3 GOOD HEALTH



4 QUALITY EDUCATION



5 GENDER EQUALITY



6 CLEAN WATER AND SANITATION



7 RENEWABLE ENERGY



8 GOOD JOBS AND ECONOMIC GROWTH



9 INNOVATION AND INFRASTRUCTURE



10 REDUCED INEQUALITIES



11 SUSTAINABLE CITIES AND COMMUNITIES



12 RESPONSIBLE CONSUMPTION



13 CLIMATE ACTION



14 LIFE BELOW WATER



15 LIFE ON LAND



16 PEACE AND JUSTICE



17 PARTNERSHIPS FOR THE GOALS



THE GLOBAL GOALS
For Sustainable Development

1 NO POVERTY



2 NO HUNGER



3 GOOD HEALTH



4 QUALITY EDUCATION



5 GENDER EQUALITY



6 CLEAN WATER AND SANITATION



7 RENEWABLE ENERGY



8 GOOD JOBS AND ECONOMIC GROWTH



9 INNOVATION AND INFRASTRUCTURE



10 REDUCED INEQUALITIES



11 SUSTAINABLE CITIES AND COMMUNITIES



12 RESPONSIBLE CONSUMPTION



13 CLIMATE ACTION



14 LIFE BELOW WATER



15 LIFE ON LAND



16 PEACE AND JUSTICE



17 PARTNERSHIPS FOR THE GOALS



THE GLOBAL GOALS
For Sustainable Development

Student Session Overview

Schedule and Instruction

Schedule and Instruction

- **Theme:** “Gender Equality in the Space Field”
- **Moderator:** Alice Pellegrino, Sapienza University of Rome (UNISEC Italy)
- **Timeline:**
 - 12.50-13.05 Introduction
 - 13.05-13.35 Guest Presentations
 - 13.35-14.05 Break-out Session
 - 14.05-14.25 Coffee/Tea Break
 - 14.25-15.20 Panel Discussion

Schedule and Instruction

- **Theme:** “Gender Equality in the Space Field”
- **Moderator:** Alice Pellegrino, Sapienza University of Rome (UNISEC Italy)

- **Timeline:**

- | | |
|---------------|----------------------------|
| • 12.50-13.05 | Introduction |
| • 13.05-13.35 | Guest Presentations |
| • 13.35-14.05 | Break-out Session |
| • 14.05-14.25 | Coffee/Tea Break |
| • 14.25-15.20 | Panel Discussion |

Kyoko Oribe from
IHI AEROSPACE Co., Ltd.



Norilmi Amilia Ismail
University Sains Malaysia (USM)

Schedule and Instruction

- **Theme:** “Gender Equality in the Space Field”
- **Moderator:** Alice Pellegrino, Sapienza University of Rome (UNISEC Italy)
- **Timeline:**
 - 12.50-13.05 Introduction
 - 13.05-13.35 Guest Presentations
 - 13.35-14.05 **Break-out Session**
 - 14.05-14.25 Coffee/Tea Break
 - 14.25-15.20 Panel Discussion
- **Creation of several Discussion Group** (8-10 members) to talk about the proposed topic and propose actions and suggestion to face the Gender Gap problem in STEM/Space fields
- **A brief summary** (proposals, sentences, comments, etc.) **shall be sent by any Discussion Group to:**

uniglo6.studentsession@gmail.com

Schedule and Instruction

- **Theme:** “Gender Equality in the Space Field”
- **Moderator:** Alice Pellegrino, Sapienza University of Rome (UNISEC Italy)

- **Timeline:**

- | | |
|---------------|---------------------|
| • 12.50-13.05 | Introduction |
| • 13.05-13.35 | Guest Presentations |
| • 13.35-14.05 | Break-out Session |
| • 14.05-14.25 | Coffee/Tea Break |
| • 14.25-15.20 | Panel Discussion |

Kyoko Oribe, IHI AEROSPACE Co, Ltd.

Norilmi Amilia Ismail, Universiti Sains Malaysia

Marc Abi-Fadel, Master’s Student at ISU

Orr Cohen, Master’s Student at ISU

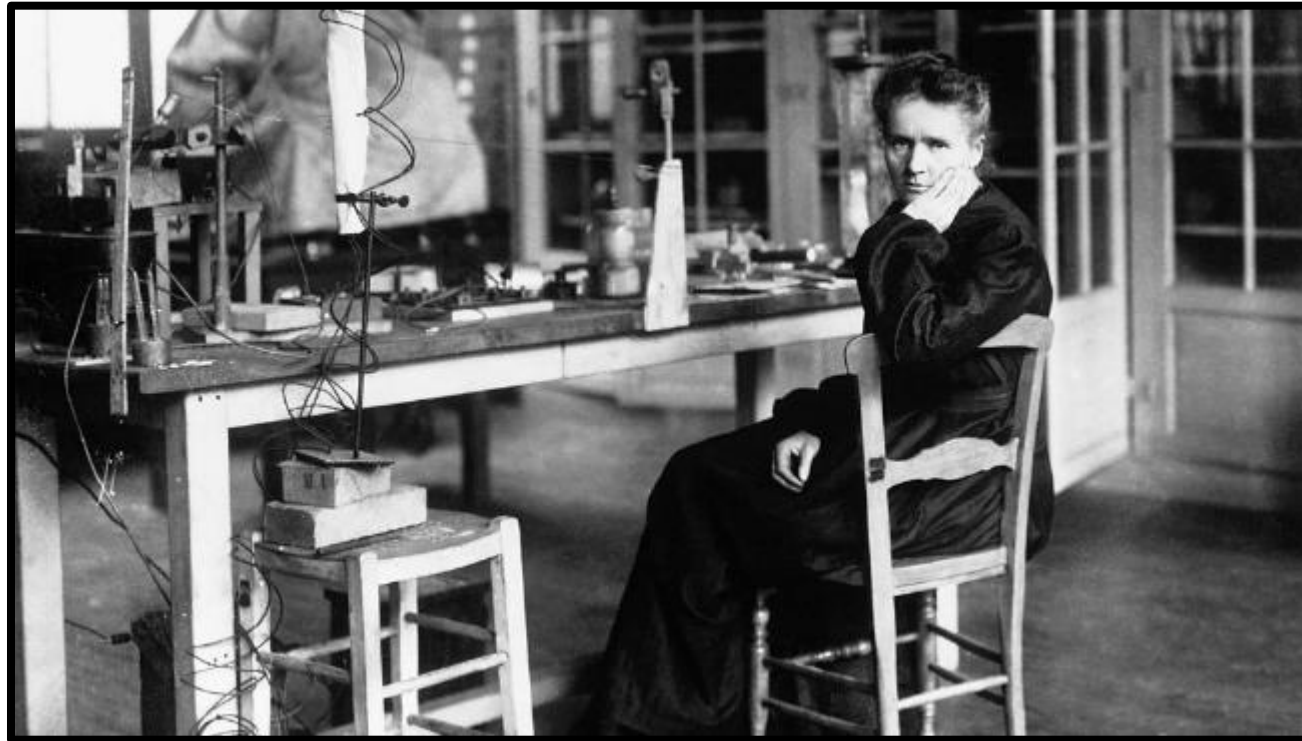
Paolo Marzioli, Sapienza University of Rome

Student Session Overview

Introduction

Gender Equality: a challenge at worldwide level

- **1903 and 1911:** Marie Skłodowska Curie (1867-1934) is the only one woman who won two Nobel Prizes in two fields related to scientific disciplines (Physics and Chemistry)



Gender Equality: a challenge at worldwide level

- **1903 and 1911**: Marie Skłodowska Curie (1867-1934) is the only one woman who won two Nobel Prizes in two fields related to scientific disciplines (Physics and Chemistry)

1901

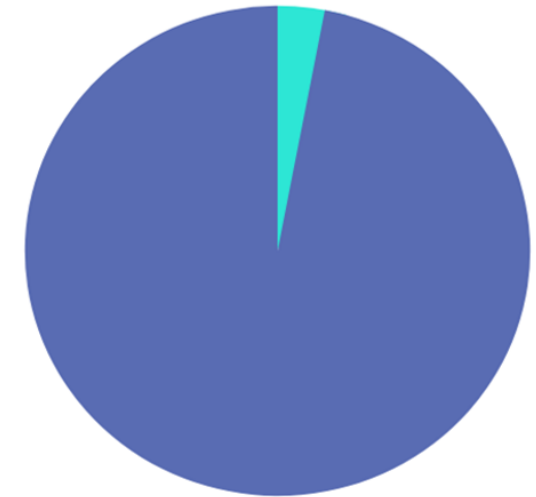
2017

Only 3% of Nobel Prize's winners in Physics, Chemistry or Medicine are women

- During the **21st century**, the amount of women winning the Nobel Prize in scientific areas is **6%** (4% more with respect of numbers of 20th century)

Man
97%

Woman
3%



Gender Equality: a challenge at worldwide level

Advances in STEM affect many aspects of life and the STEM fields are becoming increasingly important year by year

The **lack of STEM-skilled labour** can potentially **constrain the European economic growth** in the future and **compromising the European role** at worldwide level

STEM fields are male dominated:

- Women account for **24% of science and engineering professionals**
- In 2012, **only 12.6 % of female university graduates majored in STEM-related subjects in Europe**

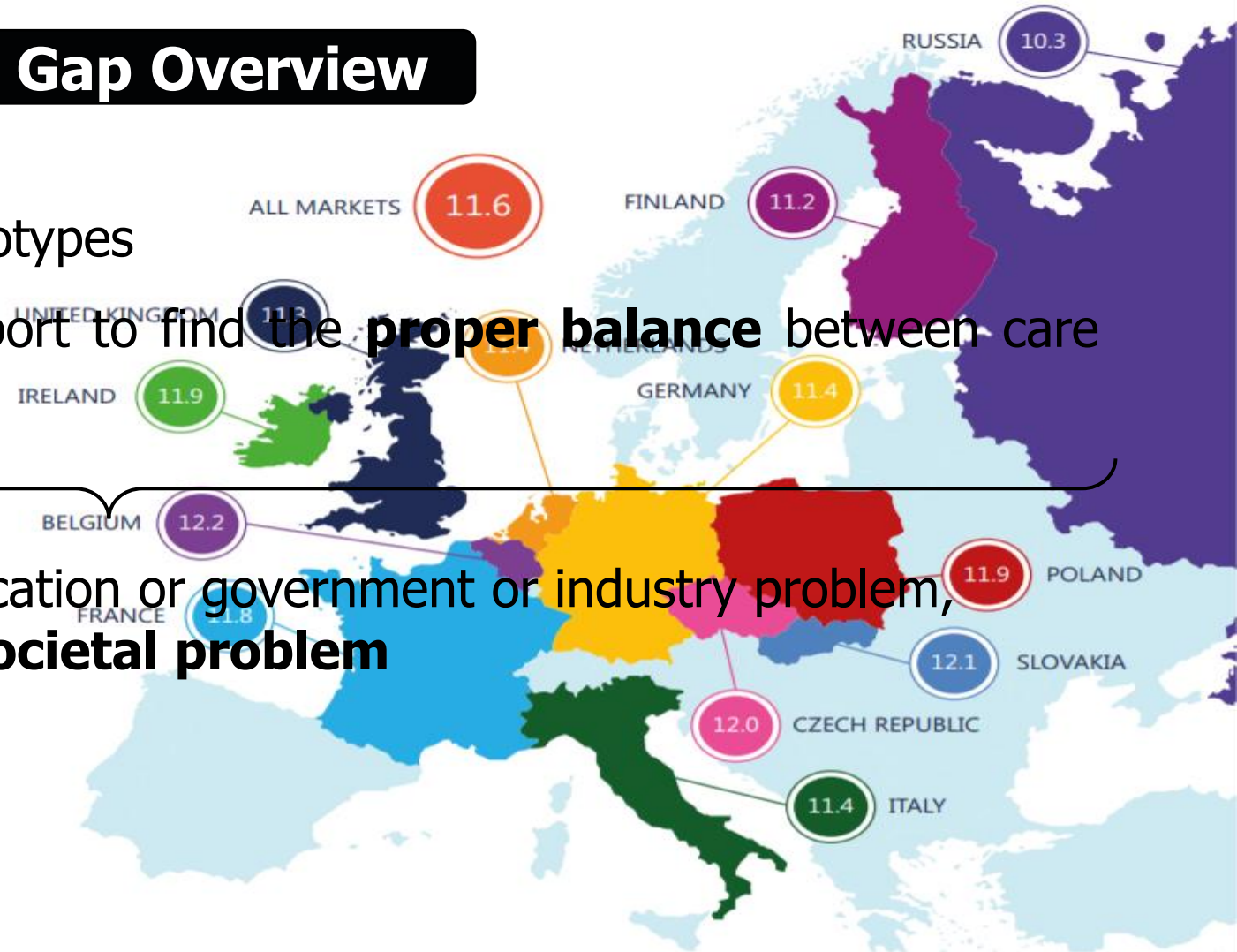
Gender Equality: a challenge at worldwide level

Gender Gap Overview

- **Traditional gender roles** and stereotypes
- Very little attention in providing support to find the **proper balance** between care

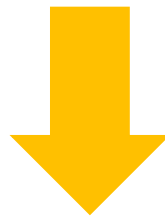
Statistics proved that they are losing interest between 16 and 18 years old

It represents not merely an education or government or industry problem, but a **societal problem**



Gender Equality: a challenge at worldwide level

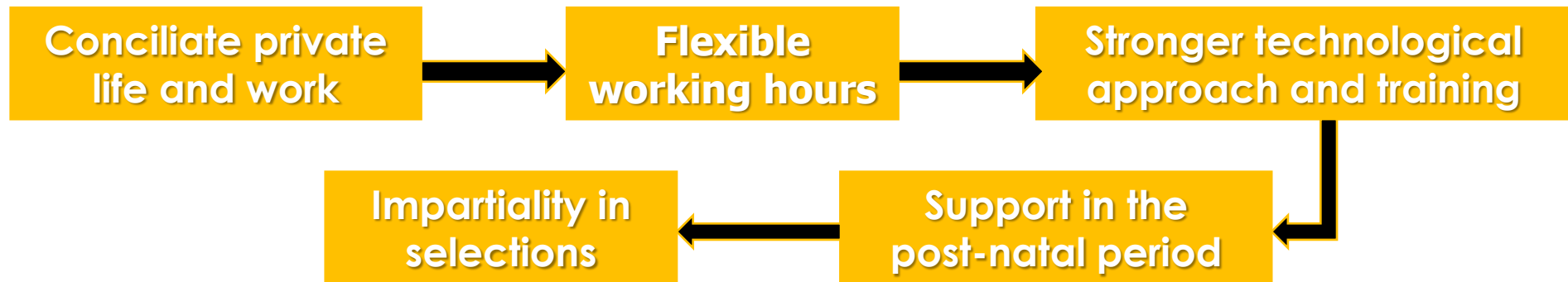
- **Statistics prove that women dedicate more time to their studies** if compared to their male colleagues, **but they have less chance to get a job** in the same field
- The **differences between the working conditions between women and men increase with age** because maternity affects their salary and career possibility
- **Women are under-represented in leadership positions** in both public and private sectors
- A **huge wage gap** exists for employees in the STEM areas



2015: The **Council of European Union promoted** the implementation of activities to reach gender equality within **2020**

Gender Equality: a challenge at worldwide level

- **Specific legal initiatives** to facilitate a proactive support for women
- Promotion of **gender equality laws within the EU context** (equal quotas of men and women – at least 40% - in senior management functions, administration field, research organizations and universities)
- According to Wyser Observatory, **five steps towards the gender equality** in the industrial context exist:



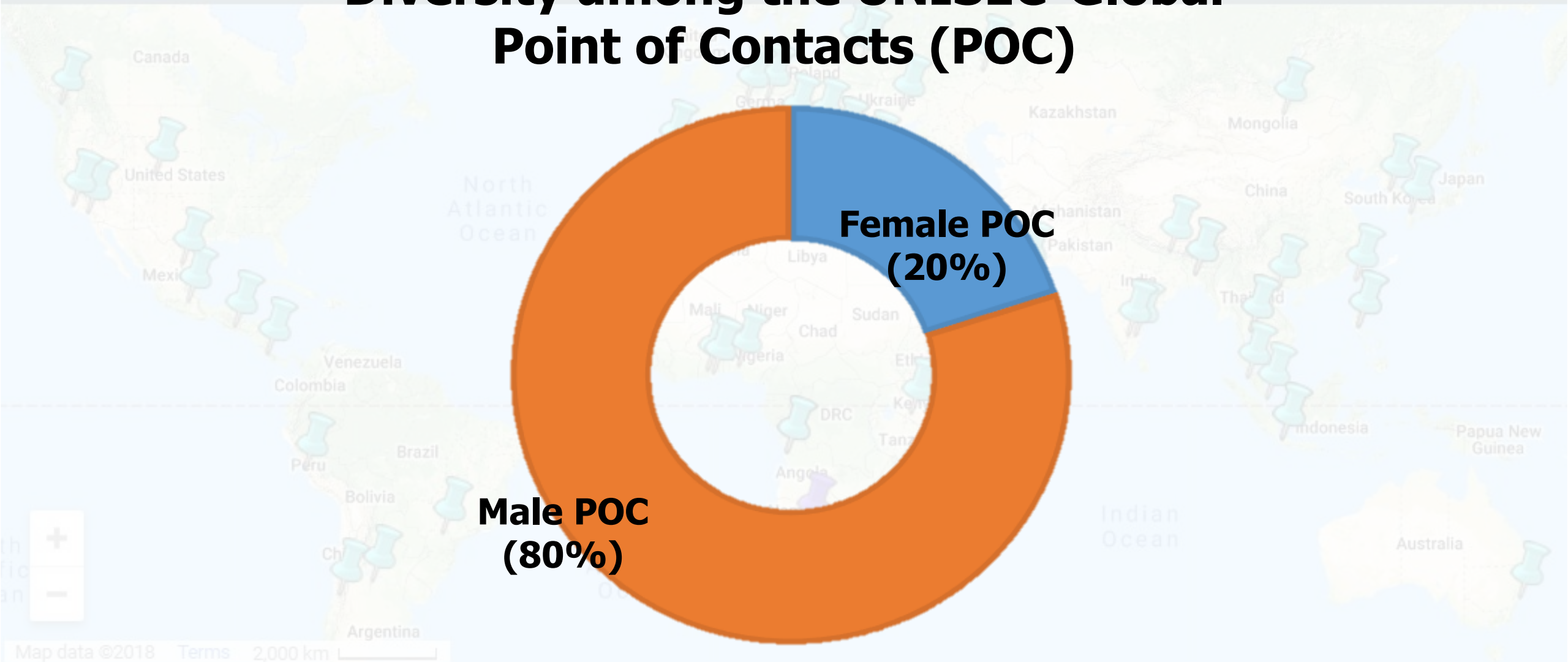
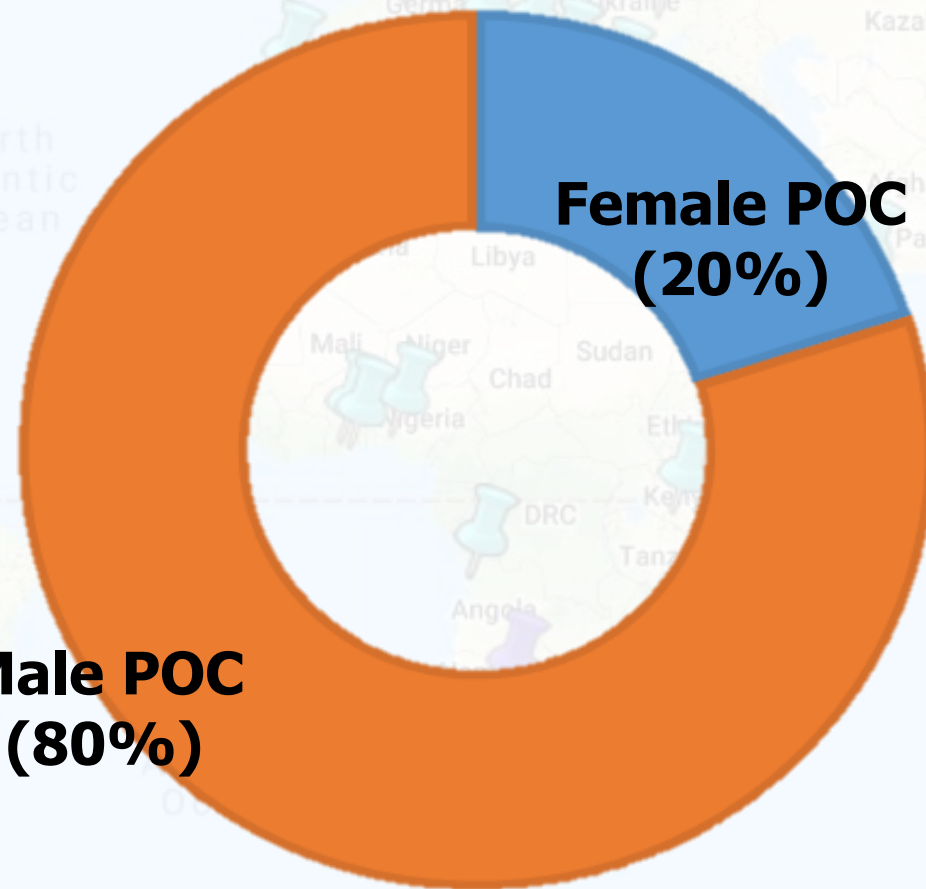
Student Session Overview

***Highlights from organizations
active in the space field***

"By the end of 2020, let's create a world where university students can participate in practical space projects in more than 100 countries"



Diversity among the UNISEC-Global Point of Contacts (POC)





SPACE GENERATION
ADVISORY COUNCIL

Gender Diversity at SGAC

SGAC Network – Metrics

15,000+ Members
and Alumni

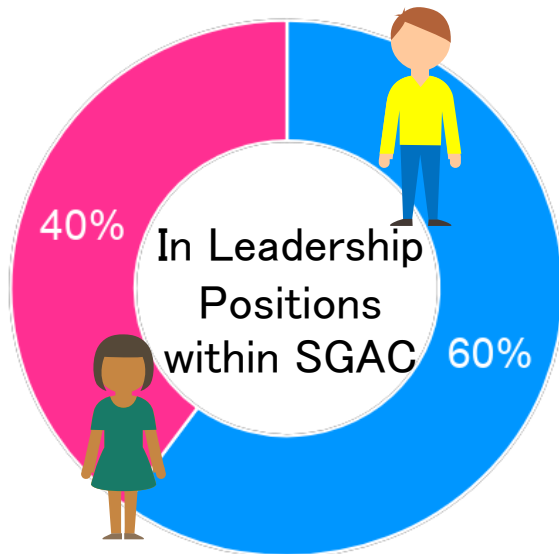
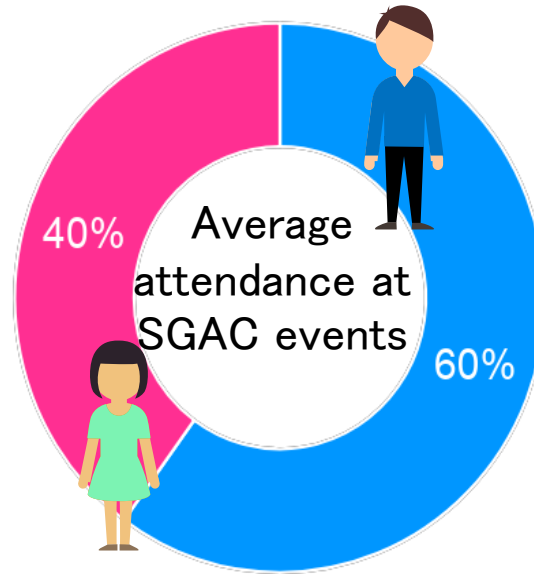
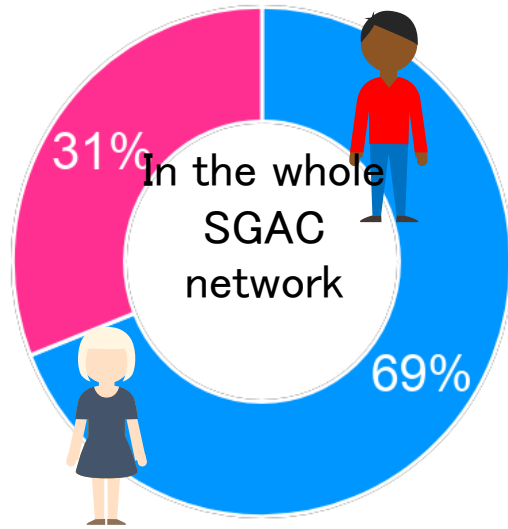
6 Regions

150 Countries



SPACE GENERATION
ADVISORY COUNCIL

Diversity at SGAC





WIA-E ha the main aim to support and encourage **women in the Aerospace Community to acquire visibility and improve their leadership attitude** at international level



Women in Aerospace Europe

WIA-E LG in Rome was founded in 2013

- **WIA-E Rome is one of the WIA-E eleven Local Groups**
- It currently includes around **100 members** (92% of women linked to the space sector)

WIA-E established a **collaboration** with **UNOOSA** to support the “**Space for Women**” project



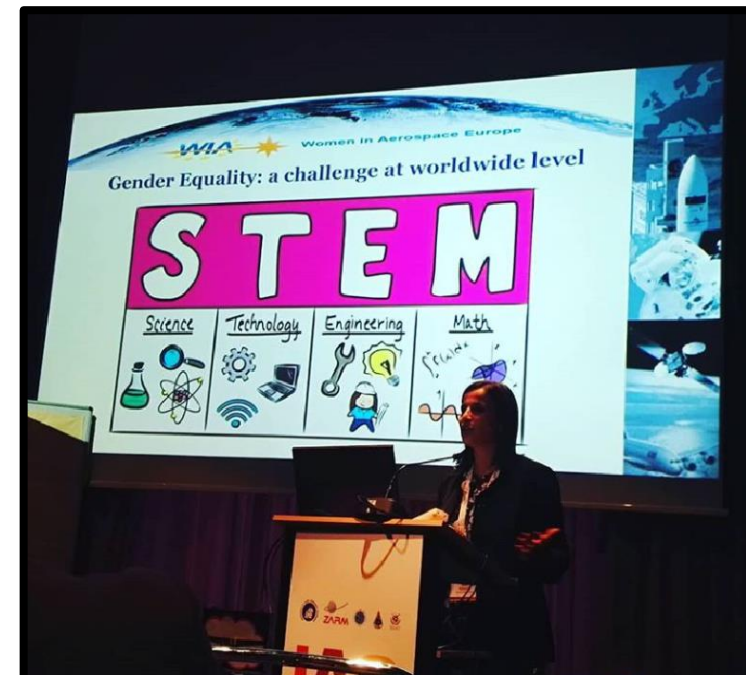


Women in Aerospace Europe

Rome Local Group of WIA-E

- **June 7, 2018**: **WIA-E in Rome and APRE** (Agency for the Promotion of European Research) **organized an event to highlight the importance of gender equality**, with a special focus on Space

Presentation at the IAC 2018 in Bremen (Germany) of the **“Gender Equality in the Italian Space sector: a study case of the WIA Rome Local Group” Paper** written by part of the Rome WIA-E members



Student Session Overview

“Gender Equality in the Space Field”

Questions?

Alice Pellegrino
UNISEC-Italy

ISU, Strasbourg, France, Nov 21, 2018