



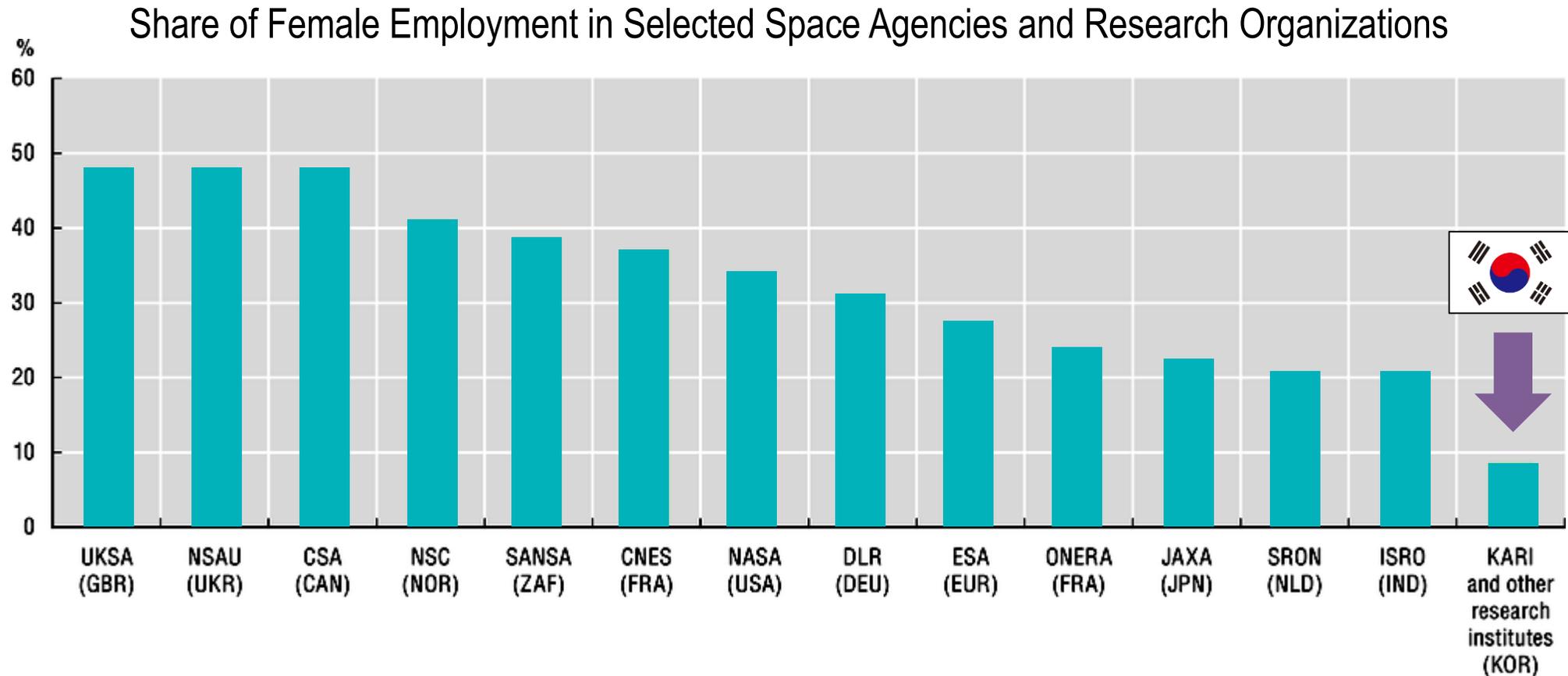
# Space for Women: Korea's Activities and Contributions

**UNCOPUOS - 58<sup>th</sup> Scientific and Technical Subcommittee Meeting**

**February 8, 2022**

# I. Why promote 'Space for Women' in Korea?

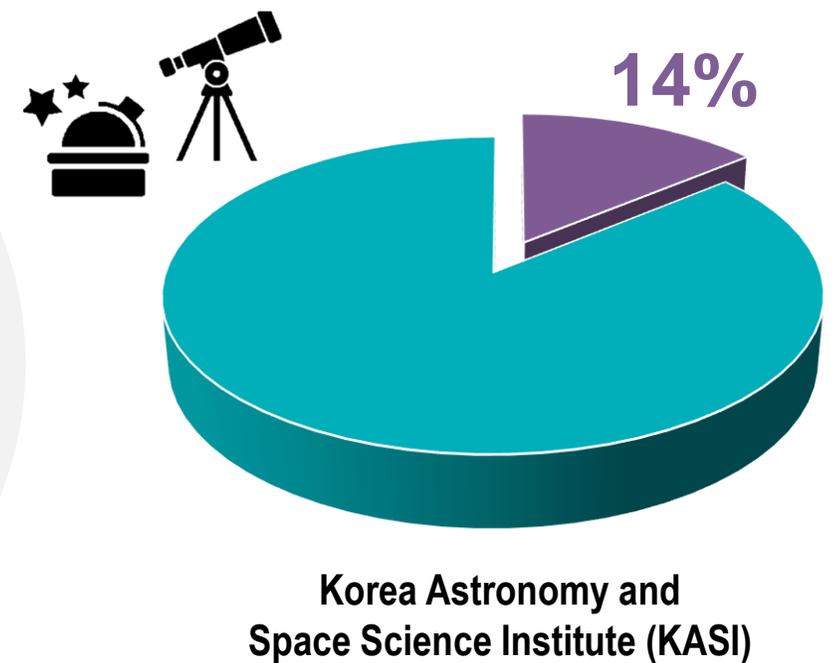
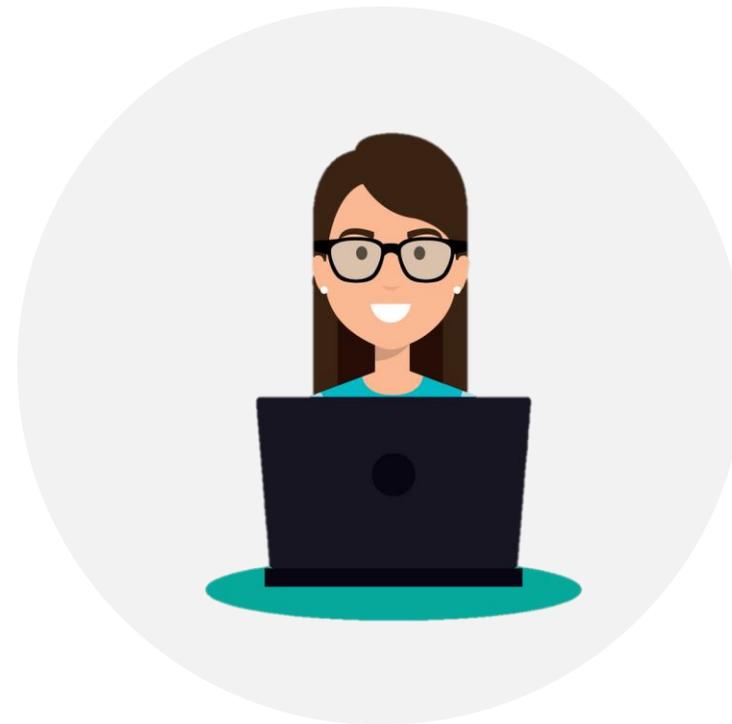
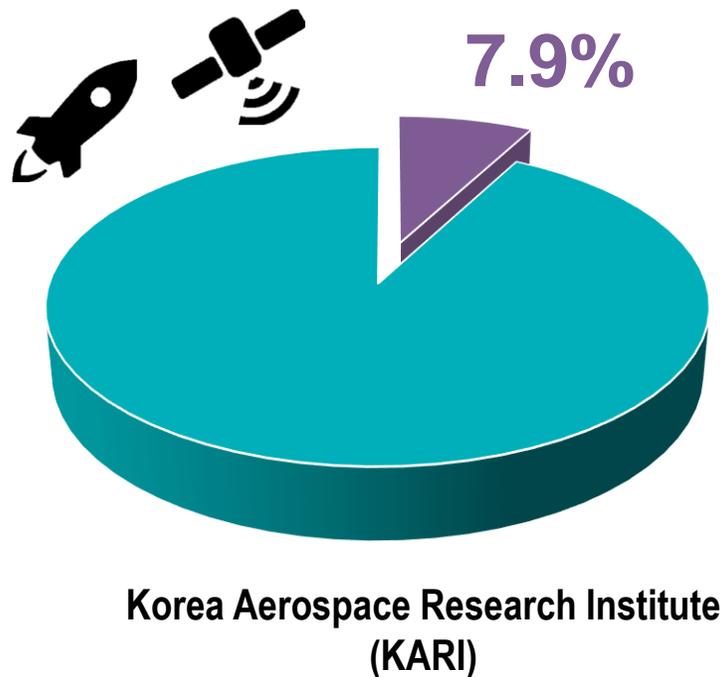
# Women's participation in space sector in Republic of Korea is comparatively low



\* Source: "Space Economy in Figures" (OECD, 2019)

# Not many female scientists and engineers in space research organization

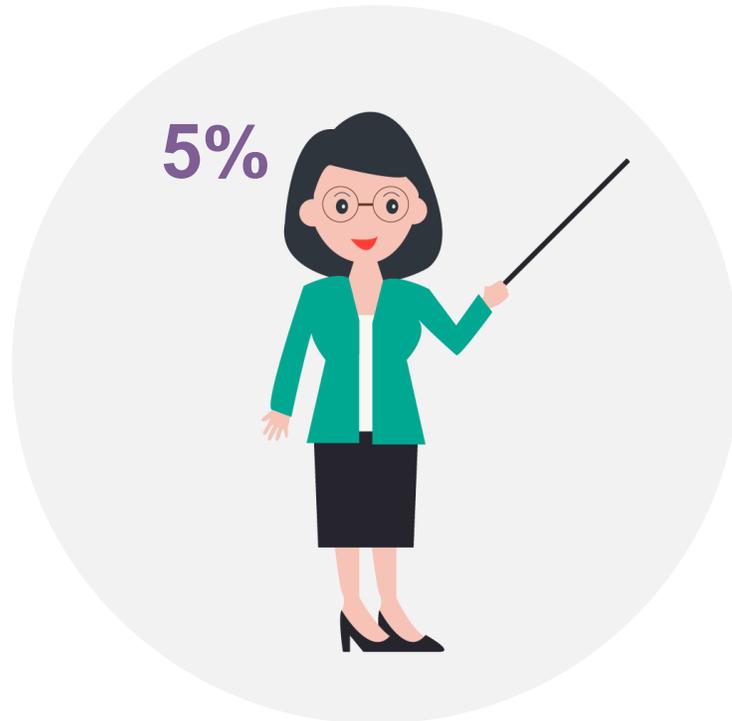
Share of Female Researchers in Space Research Organizations



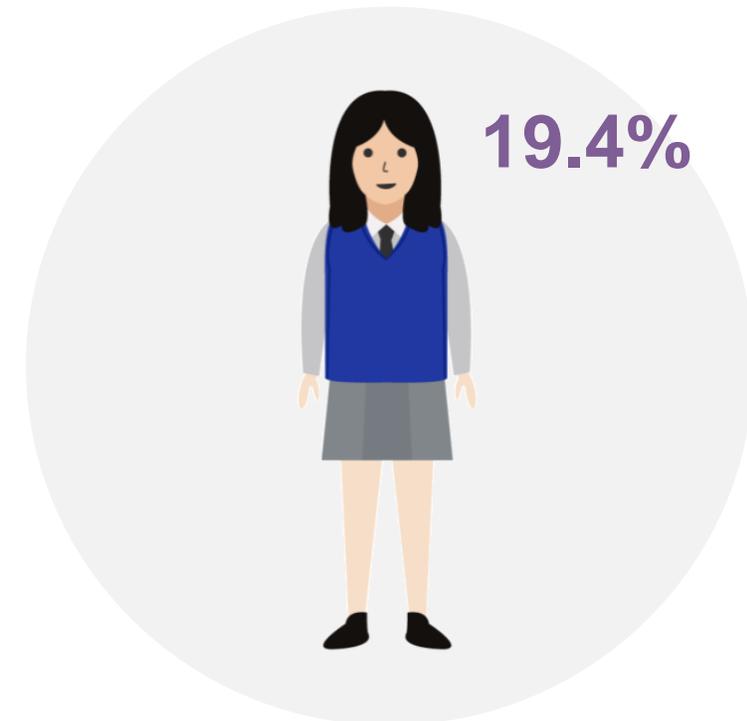
\* Share of female researchers in Korea's public research organizations : 24.4%

# Not many female students and professors in space-focused academic fields

Share of Female Professors in Space Science and Engineering



Share of female graduate students in Space Science and Engineering



\* Share of female professors in STEM field: 18.2%

\* Share of female graduate students in STEM field: 30%

## II. 'Space for Women' Activities in Korea

# Coming Together for a Local Initiative



KARI Women's Association



KASI Women's Association



\* KARI Women's Association Inaugural Meeting (January 2019)

## Empowering Women in Space

- Visibility
- Education
- capacity building & leadership
- Networking
- Policy recommendations

# First event organized under the local S4W initiative

## 40<sup>th</sup> Asian Conference in Remote Sensing (ACRS) – Oct 2019

- Special session organized and supported by KARI
- Introduction to 'Space for Women' Initiative (video message from UNOOSA director)
- Panel discussions by female professionals working in the remote sensing field
- Attended by around 100 conference participants



As a sponsor of ACRS 2019, KARI is organizing a special session on "Space for Women" with a focus on "Remote Sensing" and "Asia." The aim of the session is to raise awareness of the UN's "Space for Women" initiative, discuss gender issues, and better understand the status of gender equality within the Asian remote sensing community.



Program		
Time	Topics	Speakers
12:30 – 12:35	Welcome & Opening	Dr. Hyo-Suk Lim, President, KARI Women's Association
12:35 – 12:45	Introduction to UN's Space for Women Initiative	Ms. Simonetta di Pippo, UNOOSA Director (via video address)
12:45 – 13:30	Panel Discussion	Representatives from selected Asian space organizations
Free lunch will be provided to participants!		
<b>Contacts</b>	Soyoung Chung (KARI, <a href="mailto:sychung@kari.re.kr">sychung@kari.re.kr</a> )	

# Raising Awareness within the Local Space Community

## 'Special Session on Women' during KSAS – July 2020

- Held at the largest domestic space conference
- Presentations about the status of 'women in aerospace' in Korea
- Professional panel & Student and YP panel
- More than 50% of attendees were male
- Led to establishment of KSAS Committee on Women



남녀 모두 참석 환영!

한국항공우주학회 2020년 춘계학술대회

## 여성 특별 세션

▶ 일시 : 2020. 7. 9 (목) 오후 2:50 ~ 4:30 [100분]  
▶ 장소 : 제 9발표장 (라일락) [East Tower 2층]

프로그램		
개회	환영사	임효숙 (항공우연여성협의회 회장)
	축사	임철호 (항공우연 원장) 방효중 (한국항공우주학회 수석부회장)
주제 발표	항공우주와 여성: 우리의 현 위치는?	이서윤 (항공우연 여성과학기술인담담관) 김현옥 (대한여성과학기술인회 총무이사)
이슈 토론 I	여성 연구자의 일·가정 양립과 경력 개발	패널 : 최남미 (항공우연), 김영희 (국과연) 최은경 (천문연), 김세미 (한화에너지) Regina Lee (York University) 모더레이터 : 장윤경 (항공우연)
이슈 토론 II	여학생의 학업과 진로 선택, 직장 구하기	패널 : 장혜연 (KAIST), 임소정 (전북대) 조남식 (한양대), 김예빈 (University of Sheffield) 김예지 (항공우연) 모더레이터 : 임석희 (항공우연)
	와 여성: 우리가 나아 갈 방향	참석자 설문 및 전체 토론 (온라인 Q&A/Polling 플랫폼 활용)

많은 관심과 참여 부탁드립니다!!

여성협의회, 정서경 (sychung@kari.re.kr, 042-860-2065)

# Community Workshop to Discuss Future Plans and Ideas

## KWSE Space Sector Workshop – Oct 2020

- Two-day event organized by KARI & KASI's Women's Association
- support from Association of Korean Woman Scientists & Engineers (KWSE)
- Working group discussions on topics related to 'Space for Women'
- Action items and recommendations for future activities



# Mentoring Girls to Pursue Careers in Space

## WISET Career Mentoring Program – May-Oct 2021

- 6 month online program (6 mentors, 19 mentees – undergraduate engineering students)
- Supported by WISET (Korea Advanced Institute of Women in Science, Engineering, and Technology)
- Introduced industry trends, careers options and job opportunities in the space sector



Space Camp for University Girls (Before Covid)

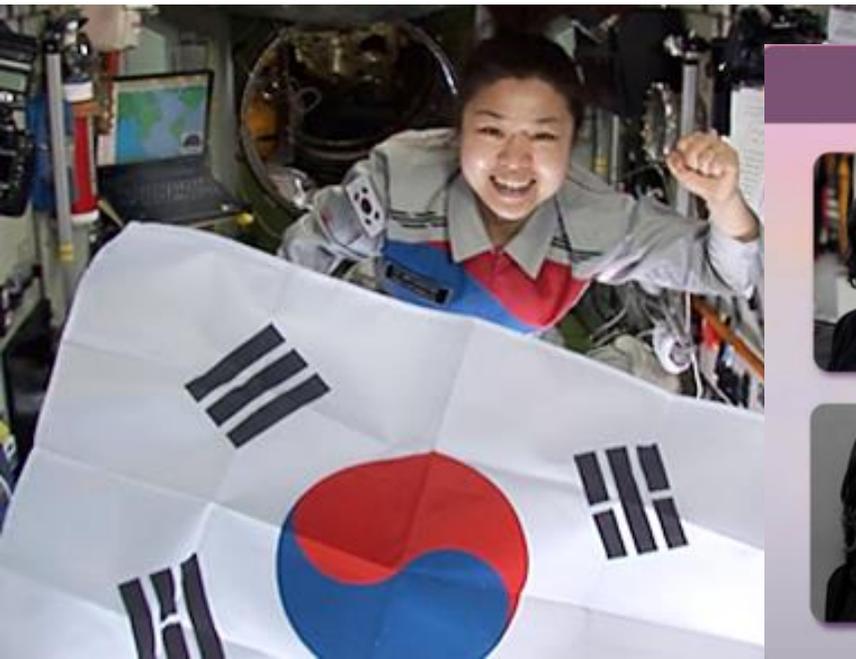


WISET Online Mentoring (2021)

# Making Us Visible to the Broader Public

## World Space Week (Women in Space) – Oct 2021

- Lecture series on 'women in space' during WSW
- In collaboration with KARI Academy & Young Astronaut Korea
- In-person event at four national science museums livestreamed
- Joined by Korean astronaut Yi So-Yeon
- Introduced UN's role in space and emerging space issues and topics



### 우주와 여성 (feat. 우주 짬 아는 언니들)



**임석희**(한국항공우주연구원 책임연구원)

미래발사체연구단 소속 (나로호 개발 사업 참여)  
 인하대학교 <공학과 여성> 출강  
 모스크바국립바우만공대 로켓엔진학과 박사



**김현옥**(한국항공우주연구원 책임연구원)

국가위성정보활용지원센터 소속  
 저서 「처음 읽는 인공위성 원격탐사 이야기」  
 독일 베를린공과대학 환경계획학과 박사



### ■ Women In Space 여성과학자 특별강연 안내

2021년 세계우주주간 기념 한국행사로 한국과학우주청소년단에서는 국립부산과학관, 국립광주과학관, 국립대구과학관, 국립밀양기상과학관과 공동으로 여성과학자 특별강연을 개최합니다. 강연은 한국과학우주청소년단(YAK) 유튜브를 통해 실시간으로 시청 가능하며, 많은 참여 부탁드립니다.

- 일시 : 2021년 10월 9일(토), 10일(일) 14:00~15:00
- 장소 : 한국과학우주청소년단 YouTube 라이브
- 주최 : 한국과학우주청소년단, 국립부산과학관, 국립광주과학관, 국립대구과학관, 국립밀양기상과학관, 항공우주여성연합회
- 후원 : 과학기술정보통신부, World Space Week Association

일시	주관	강사	주제	시청하기
10월 9일(토) 14:00~15:00	국립부산과학관	임석희 김현옥	토크콘서트 「우주 짬 아는 언니들」 - 우주와 여성	YouTube 에서 보기
	국립광주과학관	최연주	항공우주와 인공지능	YouTube 에서 보기
10월 10일(일) 14:00~15:00	국립대구과학관	최다승	New Space시대, 국방 우주력의 중요성	YouTube 에서 보기
	국립밀양기상과학관	최은정	우주 쓰레기가 온다	YouTube 에서 보기

# Government to Provide Official Funding and Support



과학기술정보통신부  
Ministry of Science and ICT

## Female Space Workforce Development Program

- Government to fund 750 million KRW ( ~700, 000 USD) in the next 5 years (2022-2026)
- Support female students and professionals for space education and capacity building
- Program will be further defined in the coming months



### III. Korea's (upcoming) Contributions to UN Space4Women Project

# UN/Republic of Korea 'Space for Women' Expert Meeting

Date

16 – 19 August 2022

Venue

Daejeon, Republic of Korea, KARI Campus

Organization

United Nations Office for Outer Space Affairs (UNOOSA);  
Ministry of Science and ICT (MSIT), Republic of Korea;  
Korea Aerospace Research Institute (KARI);  
Korea Astronomy and Space Science Institute (KASI)

Target Audience

Decision-makers and experts from international organizations, governments, non-governmental organizations, as well as senior officials and representatives of the private sector, research institutions and universities.



# Thank you for your attention

For questions, contact: Soyoung Chung, Senior Researcher, KARI, [sychung@kari.re.kr](mailto:sychung@kari.re.kr)