

Our Giant Leap Hackathon



SPACE GENERATION
ADVISORY COUNCIL



Diversity &
Gender
Equality
Project Group

Presented by **Yulia Akisheva**
Diversity and Gender Equality Project Group Co-lead
Space Generation Advisory Council
Space4Women Expert Meeting 2023, Montréal, Canada

SGAC

The **Space Generation Advisory Council** is a global non-governmental, non-profit organisation representing **university students and young space professionals** ages 18-35 to the United Nations, space agencies, industry and academia.

Through events, scholarships, project groups, and other professional development opportunities, SGAC engages its **network** of 25,000 members and alumni in 165 countries.



SPACE GENERATION
ADVISORY COUNCIL

2022 How can space technology and know-how help make a leap forward towards gender equality on Earth?



2023 How can space technology and know-how support and be utilised by women in remote communities?



2 hackathons in 2 years on 2 continents

~ 60 hackers

~ 30 experts

13 unique solutions



2023 *How can space technology and know-how support and be utilised by women in remote communities?*

Earth Observation

Space Medicine

Space Policy

Telecom



Some outcomes from 2023



EcoHers - WINNERS 2023!

*Improve Women's Reproductive Health in remote communities.
Case Study: Kashechewan Cree Community in Ontario*





EcoHers - WINNERS 2023!

Environmental Health Monitoring Dashboard using Hyperspectral Satellite Data & Culturally-Localized Recommendations

- PM2.5 indicator that provides: “red - High Health Risk”, “yellow - Medium Health Risk”, and “green - Low Health Risk” alert levels of PM 2.5 levels
- Culturally sensitive health recommendations for behaviour change by pregnant women (those most impacted by PM 2.5) in many languages (Cree, Inuktitut, English, etc.)
- Information on next steps & incentives



EcoHers

Some outcomes from 2023

MOSQDETECT

Community platform with EO data, weather forecasting, GIS services



EmpowHER

NGO, non-profit organisation proposal focusing on leveraging EO data for women in remote communities

Some outcomes from 2023



INDI'LINGO

Cultural educational translations, aiming to retain young girls in schools in sub-Saharan Africa

WISE

*Platform to help access and rebuild trust in indigenous reproductive health
(Case study: Inuit Women in Canada)*



WISE

Womens Initiative for Space-based Empowerment

Our Sponsors and Partners in 2023

Silver



WYVERN
BETTER EARTH, FROM SPACE

EXODUS
ORBITALS 

TELESATTM

Bronze



Partners



Some outcomes from 2022



iFARMER™ - WINNERS 2022!

All Weather Agriculture Farmland Early Warning System - Community Oriented Approach

Ra
Mirza Mu
Seongjae
Song

mi Sukmawati
ammad Waqar
ONG
yun KIM



Winners are piloting their business idea as part of CONTEC and contracted by the Indonesian gov. for 3 years!

Some outcomes from 2022



Livelihood

Connecting tourists and villages

Empowering women and community identity

Downlink education from satellites

SheSpace solution

SPACABILITY



Our Sponsors and Partners in 2022



Other Our Giant Leap projects



SPACE GENERATION
ADVISORY COUNCIL



Diversity &
Gender
Equality
Project Group



FIGURES

“prepare the space society for the first women to Mars”

- Experiments
- **Sex-disaggregating** data protocol
- Analog missions



Our Giant Leap Magazine & Our Giant Leap Podcast



Gender equality & Diversity



STEM interviews, portraits,
artworks, comics, articles



PADAWANS

“promote STEM careers to the youngest generation”

- Outreach in schools (6-12 y/o)
- Educational resources
- **Working with parents!**



DIVINAS

“raise the number of minority representatives in astronaut corps”

- **Astronaut selection bias**
- **Media impact** on recruitment
- **Parastronaut feasibility project**

Our Giant Leap Hackathon

Diversity & Gender Equality Project Group



Yulia Akisheva

yulia.akisheva@spacegeneration.org

