Our Giant Leap

Hackathon



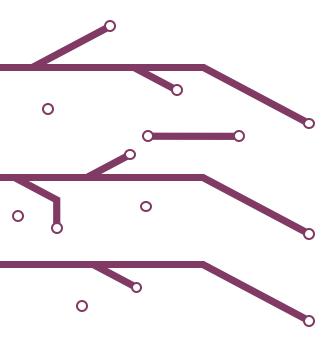




Presented by Yulia Akisheva

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.

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 Policy



Space Medicine

Telecom



EcoHers - WINNERS 2023!

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





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







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





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)



Our Sponsors and Partners in 2023

Silver







Bronze





Partners









iFARMER™ - WINNERS 2022!

All Weather Agriculture Farmland Early Warning System - Community Oriented Approach





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





Connecting tourists and villages
Empowering women and community identity

Downlink education from satellitesSheSpace solution

SPACABILITY



Our Sponsors and Partners in 2022

















Other Our Giant Leap projects







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



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