



## **2019 Partnership for Global Sustainability (PGS) Dual International Workshops for Global Sustainability**

### **Introduction**

The Partnership for Global Sustainability (PGS) is an international partnership between government and commercial entities working together to identify and address sustainability issues, with an emphasis on concerns related to aerospace.

NASA funded and ITB managed an international workshop every year from 2003 to 2017 through the Technology Evaluation for Environmental Risk Mitigation Principal Center. Funding for this Principal Center ceased in September 2017.

With participation from NASA, the European Space Agency (ESA), Universities and commercial entities, and coordination and management by ITB, the PGS planned and executed dual international workshops this year!

### **2019 PGS Workshop – Sustainability and the Future of Aerospace – Portugal Air Summit, Ponte de Sor, Portugal – May 30 – 31**



## **Session Topics**

- Airport Sustainability (to include UAV, UAS, and Drones)  
Session Chair: Nathalie Meusy, Head of Communication Projects & Sustainability Expert – ESA
- Security (to include Critical Infrastructure Protection, Cyber-Security, Data Security, Risk Assessments)  
Session Chair: Olga Dominguez, Former NASA Assistant Administrator for Strategic Infrastructure
- Emerging Technologies  
Session Chair: Ricardo, Rato, Head of Sustainable Innovation Centre – ISQ

## **2019 PGS Workshop – Space Sustainability**

**European Space Astronomy Centre (ESAC) – Madrid, Spain – June 3 – 4**





## Session Topics

- Education and Outreach - Moderator – Nathalie Meusy, ESA
- Planetary Preservation - Moderator: Dawn Sewalt, Infostructure Specialists
- Sustainability for the Space Sector - Session Chair: Nathalie Meusy, ESA
- Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) Regulation and its impact on the Space Sector - Session Chair: Paavo Heiskanen, REACH Officer, ESA
- Increasing Space Mission Critical Ground Infrastructure Resiliency through Sustainability - Session Chair: Bob Leeney, ITB

## Participation

**PGS Steering Committee:** ESA, NASA, ITB, AECOM, ISQ, C3P, Luso-American Foundation, UDRI, International Space Station NL, ACC, CSOC, BAH, Umbilical Design, Genesis TEK, Infostructure Specialists

### **Presenters and Session Chairs**

- Government participation: NASA, ESA, Municipal Ponte de Sôr
- Commercial entities: ISQ, Present Technologies, MATEREO, CybELE, Critical Software, VIAVI, GenesisTEK, SkyfloX, Symbiom International, Global Venture, Levin Sources, TOSEDA, ITB, The Foundation for the Development of New Hydrogen Technologies, MEI
- Non-profits: Umbilical Design, IPN, KIM Global

## Collaborative Projects and Partnerships

A focus of the workshop is the facilitation of partnerships and the identification of collaborative projects. The workshop resulted in a number of new partnerships and relationships and several specific collaborative projects and partnerships were suggested.

- Planetary Preservation Guiding Regulations (Dawn Sewalt of Infostructures Specialists, Emily King of Global Venture, & Estelle Levin-Nally of Levin Sources)
- Suggestion considerations on REACH related subjects from TOSEDA (Tom Tomáš Vlček of the Chec Republic)
- Suggestion that ESA may be able to restart some collaboration activities related to REACH (Paavo Heiskanen, REACH Officer, Directorate of Technology, Engineering and Quality ESTEC, ESA)



## Benefits to NASA

- Supports the development of international relationships with ESA, other space agencies and commercial entities
- Provides exposure to diverse research and opinions in sustainability
- Gives NASA the ability to support and influence collaborative projects related to the NASA mission and to leverage work by other organizations

## Next Steps

- Plan to hold next Aerospace focused PGS workshop again at Ponte de Sôr's May 2020 Air Summit
- Plan to hold next Space focused PGS Workshop in USA Florida Space Coast area near NASA Kennedy Space Center (KSC) in October 2020, likely at Florida Institute of Technology (FIT).
- Expand participation for large aerospace companies (e.g. Space-X), and government entities (e.g. JAXA, US FAA, US Space Command; need contact information)
- Expand Steering Committee
- Expand NASA participation
- Incorporate Communities of Practice into PGS Process and website
- Provide start-up companies similar support opportunities as we do students
- Follow up on proposed collaborative projects and enter in PGS Website
- Potential agenda topics for 2020
  - Airport Sustainability
  - REACH
  - Energy for Space Activity
  - Emerging Exponentially Growing Technologies
  - Security (Critical Infrastructure Protection, Cyber-Security, Data Security, Risk Assessments)
  - Environmental Sustainability Support Activities
  - Environmental Remediation
  - OTHERS – Open to YOUR SUGGESTIONS
    - Email Michelle your suggestions or Post on our Social Media sites



## **Silent Auction Starts NOW for 2020 PGS Workshops!**

A **VERY EXCITING** addition to the 2020 PGS Workshop is our Silent Auction where **100%** of the proceeds go to support Student participation and scholarships. Donations are **NOW** being accepted. PLEASE consider donating items to be sold. Details can be found under the Student Engagement Page - <https://www.pgsworkshop.com/pgs-silent-auction/> .