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UK Space Environments Association

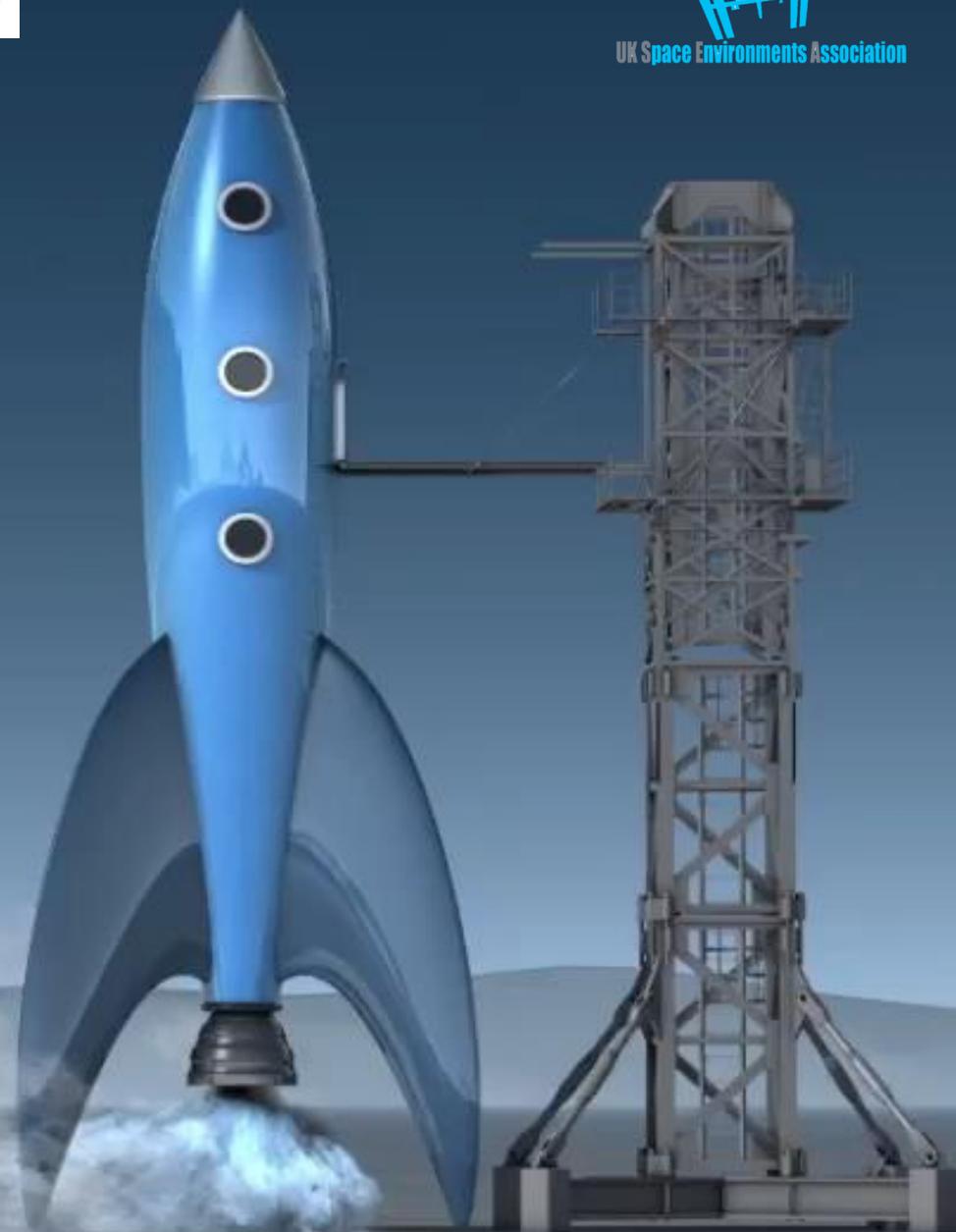
# UK Space Environments Association

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# What is the UK Space Environments Association?

**UKSEA** is an **umbrella organisation** designed to enhance **communication, cooperation and collaboration** (C3) across the **multiple disciplines** involved in **research, education and commerce** in fields of activity which use one or more aspects of the **space environment**\*.

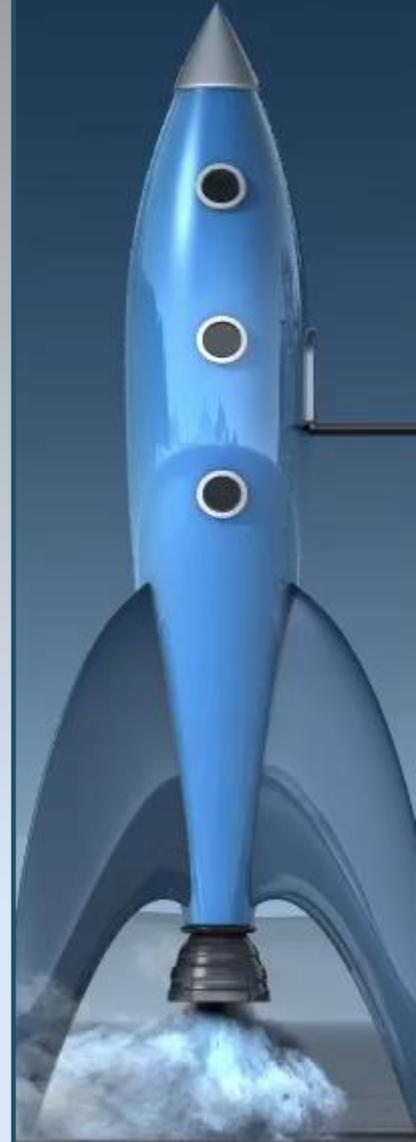
- Operational definition of '**space environments**'

*The environs and certain related characteristics that are found in Space; for example microgravity, vacuum, extreme radiation flux and remoteness. Also includes terrestrial analogues which provide exposure to aspects of the Space environment e.g. drop towers, isolation and bed rest facilities and parabolic flights.*



# Why was UKSEA formed?

- Microgravity workshop 2011
- UK Space Agency subcommittee – Space Environments Working Group.
- Needs
  - of the Government...
  - of the UK space sector as a whole...
  - of researchers, academics and companies within the sector...
- UK space biomedicine development model
- UK Space Environments Conferences 2012, 2013



# What does UKSEA aim to do?

## Aim

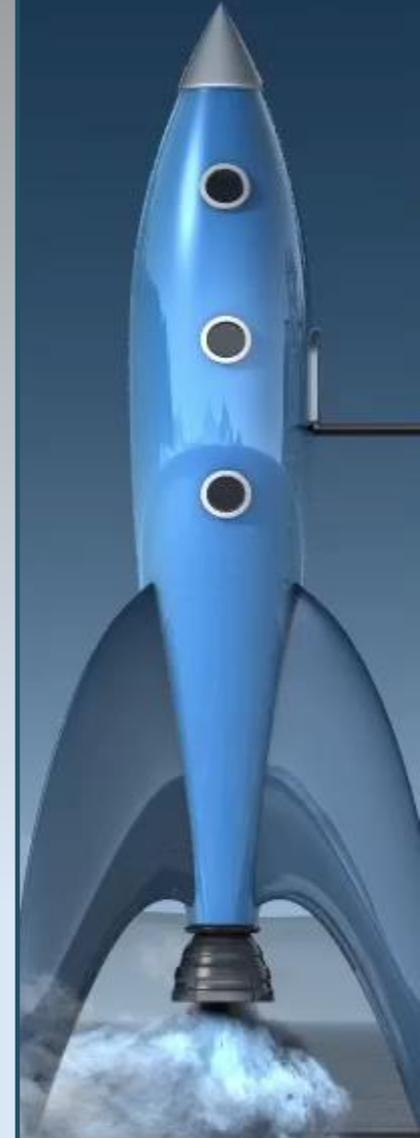
*To coordinate and focus activities in the domains relevant to the space environments field, in a manner that enables the optimisation of UK resources and effective collaboration between community members, to achieve benefits from space environment R&D not able to be accomplished by any single member, or which would otherwise be constrained by limited resources.*



# What does UKSEA aim to do?

## Objectives

1. To provide a means for the disciplines and industries utilising aspects of the space environment (or analogous environments) to communicate, coordinate and collaborate (C3) for the betterment of the individual, organisation and nation.
2. To offer a platform for information pertinent and helpful to the sub-committee members of the Space Environments Association. This information will include details of member interests, needs and capabilities and facilities available to members.
3. To offer a means to a platform for interdisciplinary partnerships for the benefit of the space industry.
4. To offer a means to facilitate the development of equipment and facilities required for space research in the UK.
5. To offer education and training opportunities for students and early career professionals wishing to work in the UK (or internationally) space industry.
6. To provide support and resources for the development of applications of space R&D in the terrestrial environment.



# What does UKSEA aim to do?

## Objective

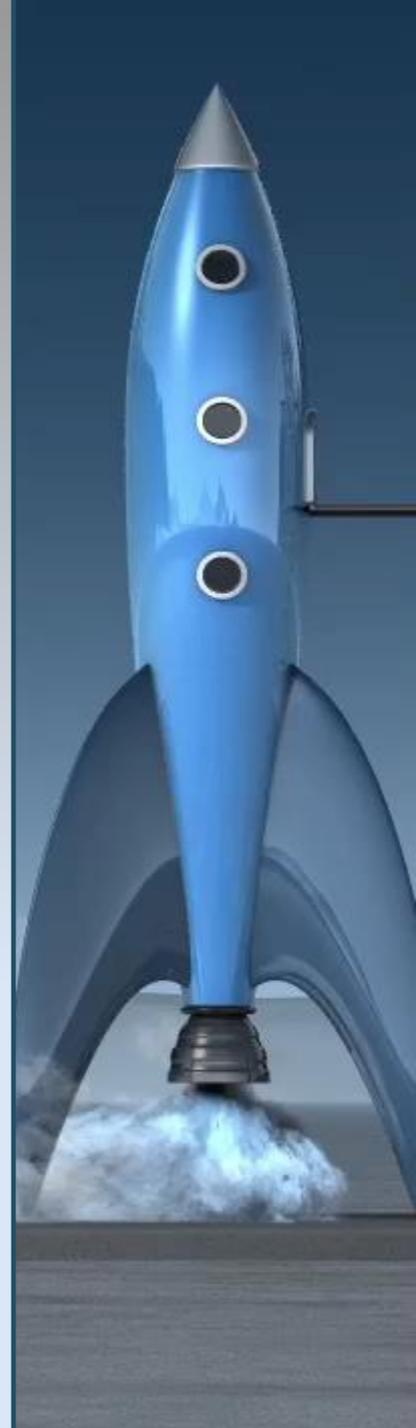
1. To provide a means for the multiple disciplines involved in space environments activities to **communicate, coordinate and collaborate** (C3) for the betterment of the individual, organisation and the nation.



# What does UKSEA aim to do?

## Objective

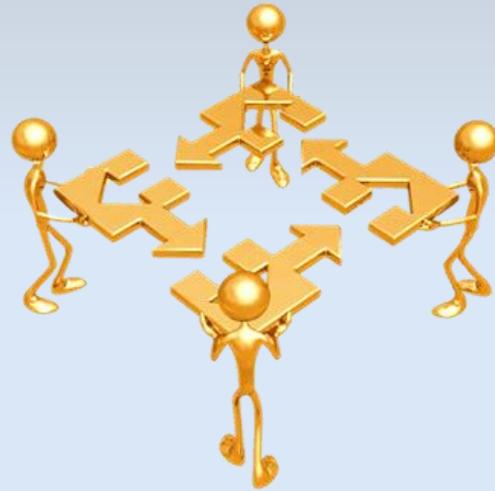
2. To offer a platform for the **dissemination of information** pertinent and helpful to the communities of the Space Environments Association.



# What does UKSEA aim to do?

## Objective

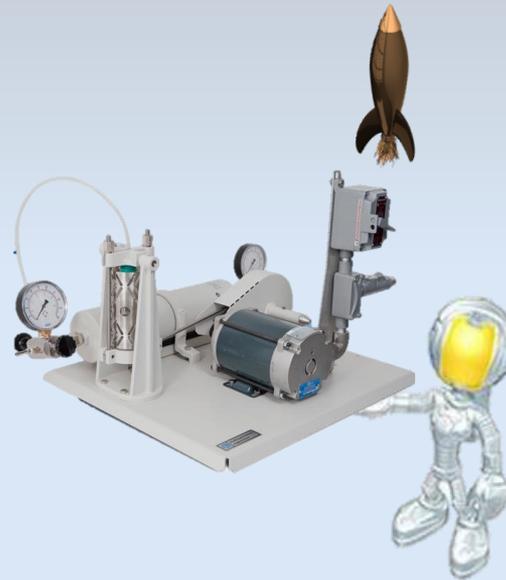
3. To offer a means to aid the establishment of **cross-disciplinary partnerships** for the pursuit of collaborative projects in the space industry.



# What does UKSEA aim to do?

## Objective

4. To offer a means to find, borrow or hire specialist **equipment and facilities** required for space environments R&D within the UK.



# What does UKSEA aim to do?

## Objective

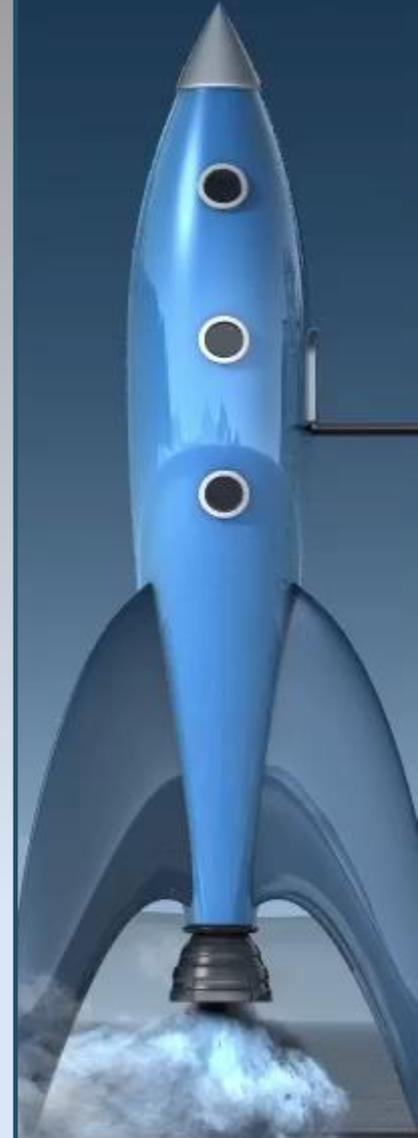
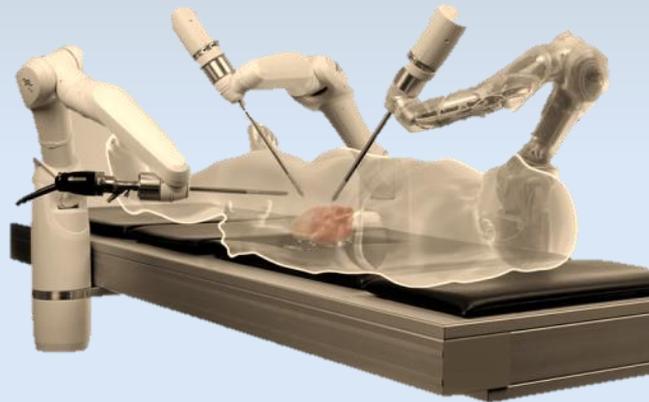
5. To offer **education and career support** to UK students and early career professionals wishing to work or develop a career in the UK (or international) space industry.



# What does UKSEA aim to do?

## Objective

6. To provide support and promotion for the application of innovative **space R&D to the terrestrial market.**



# Structure and format of the Association

- **Steering committee** – UK Space Environments Working Group
  - UKSEA Executive Committee in due course
- **Coordinators** - Simon Evetts / Andrew Winnard
- **Membership....**
  - Delegates from the two national space environments conferences
  - Individuals and companies recently expressing an interest to join
- **Services**
  - **On-line**; Website, Project Worksite, Resource Centre, Space Solution Marketplace platform etc
  - **Conferences/workshops** - annual or biennial.
  - representatives for policy committees & consultation.



# Services and benefits

- Where needed, offer the Government and the International Space R&D community a **single, focused 'voice'**, which represents UK researchers using aspects of the Space environment.
- Enable the establishment of **links with international programmes** such as European Life and Physical Sciences Programme (ELIPS).
- Offer professional **networks and cross disciplinary communication** for individuals or groups involved in UK Space Environments R&D.



# Services and benefits

- Access to two **innovative online platforms**: Resource Centre for sharing and accessing equipment, and Marketplace for advertising R&D output widely across both Space and terrestrial disciplines.
- **Facilitate funding acquisition** through both traditional and innovative (e.g. crowdsourcing) means.
- Provide a focal point for UK Space Environments **students and early career professionals for support and guidance** to optimise career development.



# Membership

- Organisation or individual membership (initial joining fee + annual membership).
- Entitles;
  - Use of membership only areas of website (news and events, job listings, access to multidisciplinary network).
  - Use of all service platforms (Worksite, Resource Centre and Marketplace).
  - Ability to request guidance and support.
  - Subsidised entry to conferences and workshops.
- Note that the general public (any non-member) will have viewer access to the Marketplace to see products listed by members.

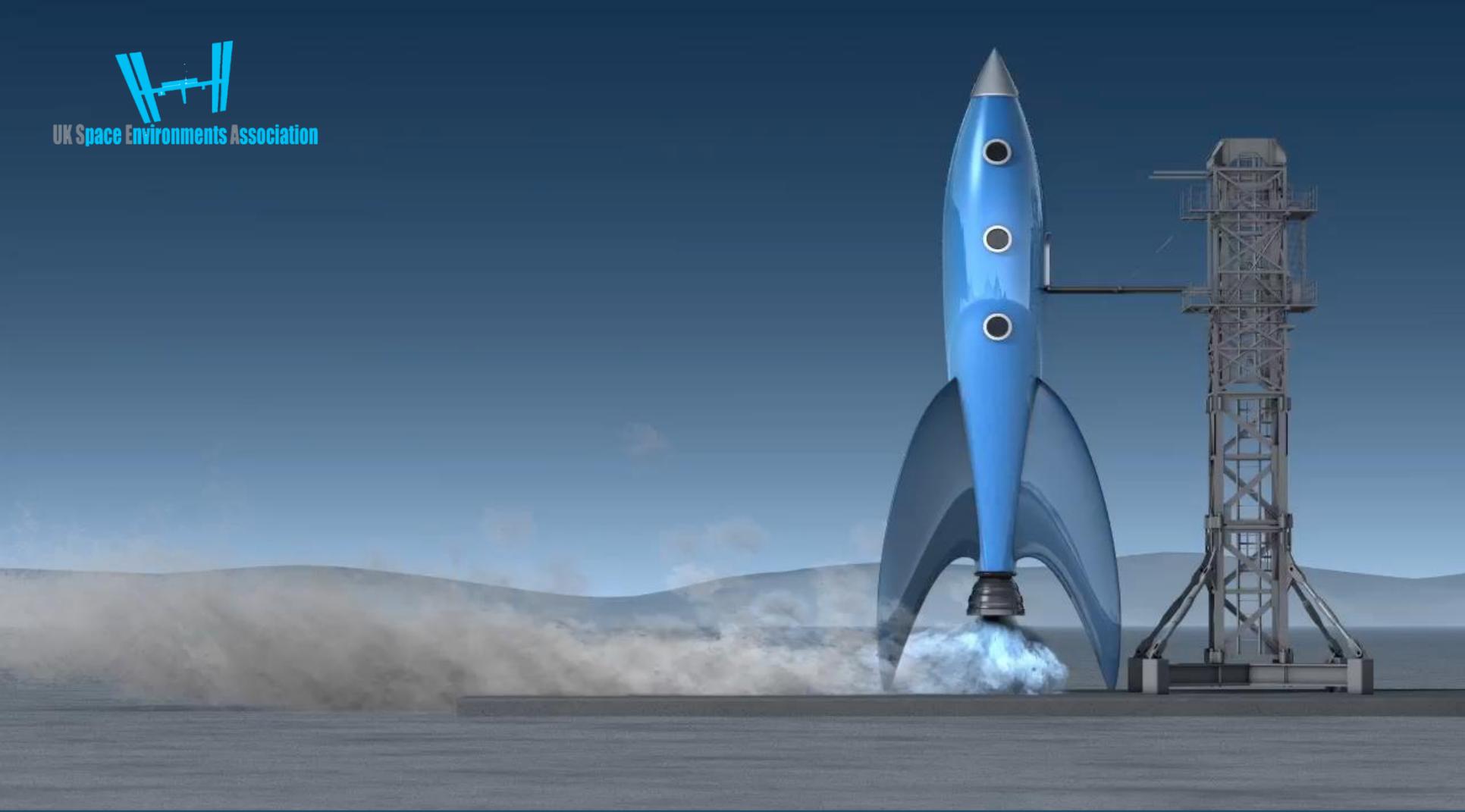


# UKSEA in the future

- UKSEA **Executive Committee** to be established after the conference
- Adoption of suitable **Association structure** – charity, Ltd company, society etc
- Members consultation process to derive **membership fee structure**
- Benefit **platforms will go live**

**NOTE - The Association will evolve** in line with the wishes and needs of the membership and the services they request, but also to offer the best possible support to the UK space industry.





**Thank you**  
for your attention