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UK Space Environments Association

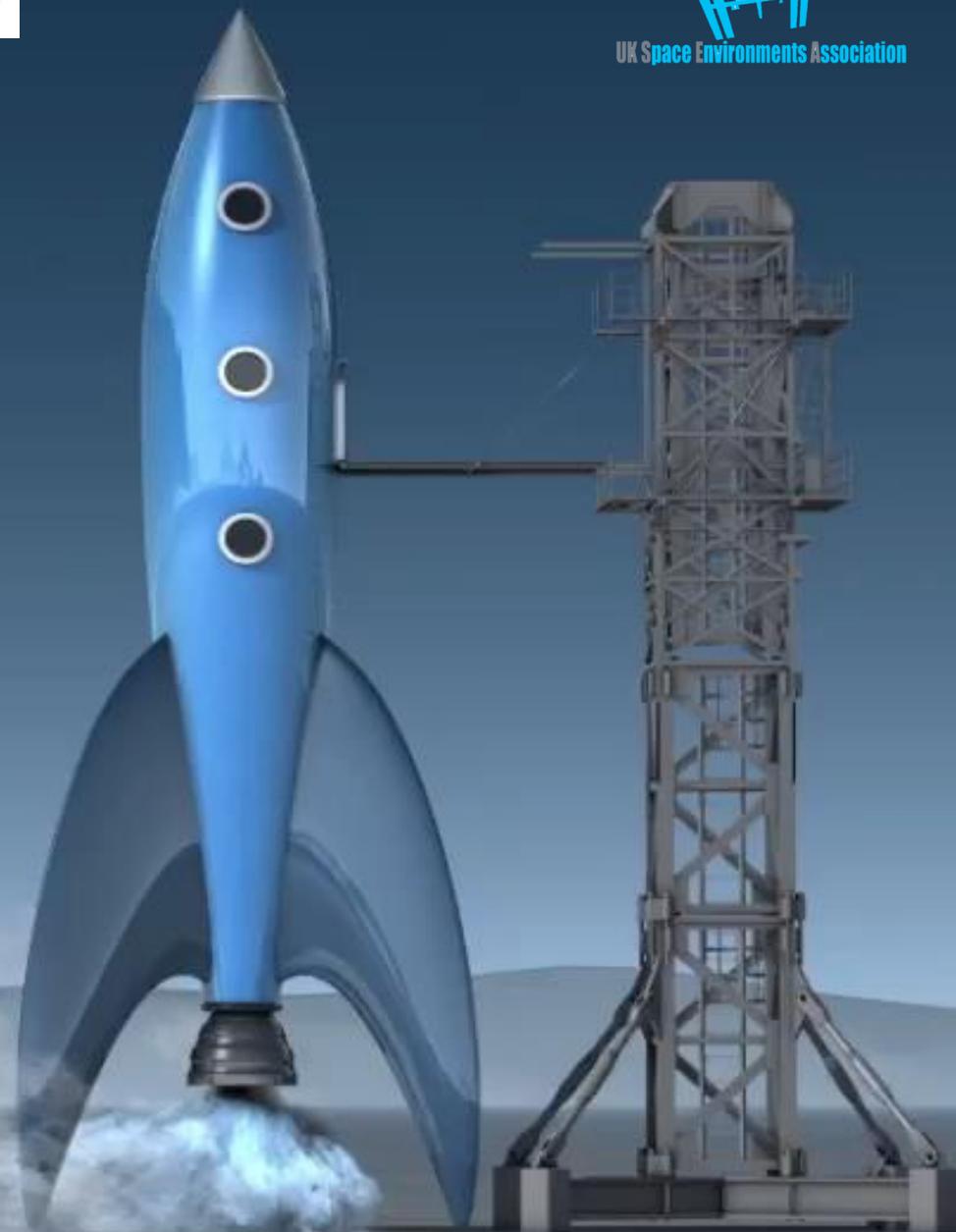
UK Space Environments Association

Simon Evetts

Wyle,
Co-coordinator UK Space Environments Association

Andrew Winnard

Northumbria University,
Co-coordinator UK Space Environments Association



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***.

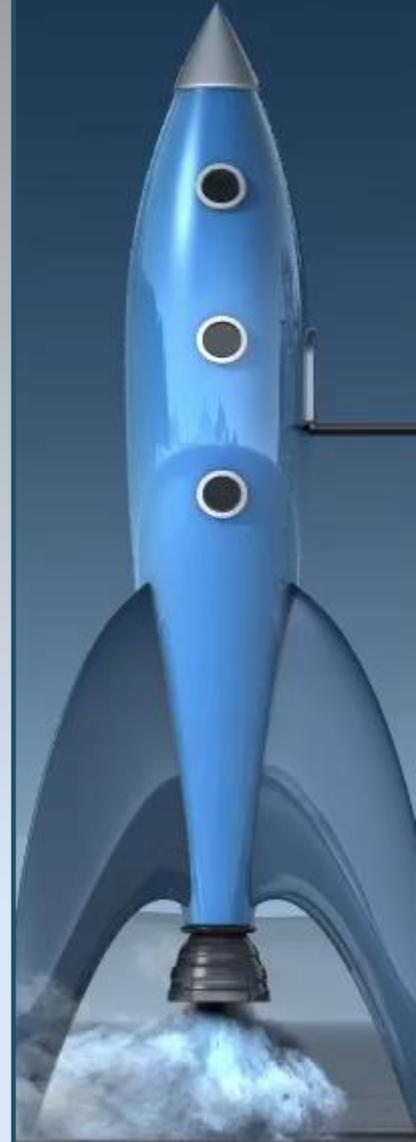
- Operational definition of '**space environments**'

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?

- UK Space Agency subcommittee 'Microgravity WG' = Space Environments Working Group.
- UK space biomedicine development model
- Needs
 - of the Government...
 - of the UK space sector as a whole...
 - of researchers, academics and companies within the sector...
- 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.

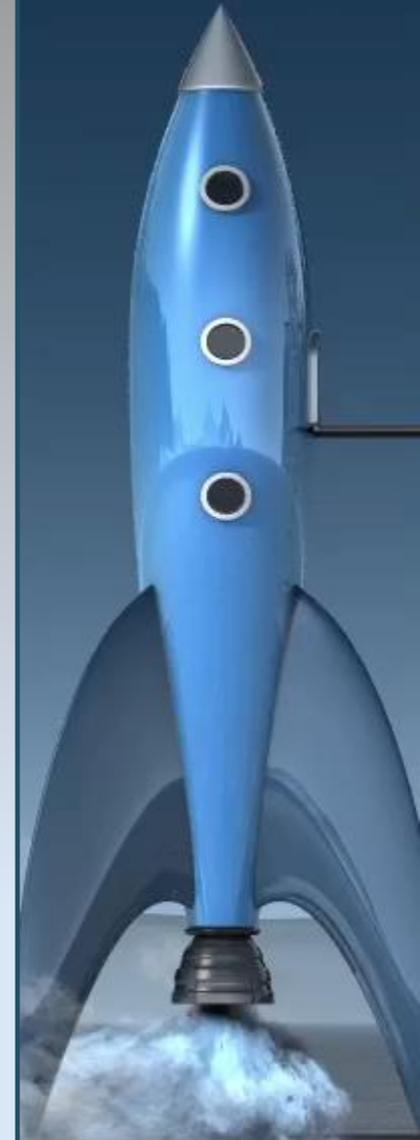
**Coordinate
to optimise resources
to achieve more from what we have!**



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 co-ordinate the activities of the individual, organisation and industry.
2. To offer a platform for the exchange of information pertinent and helpful to the subject of space. This information will include interests, needs and capabilities of the individual, organisation and industry.
3. To offer a means for the development of interdisciplinary partnerships for the benefit of the space industry.
4. To offer a means for the provision of equipment and facilities required for the space industry 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 for the development of applications of space R&D in the terrestrial market.



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

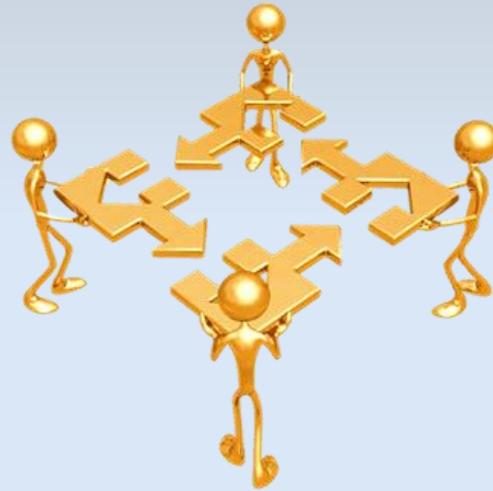
2. To offer a platform for the **dissemination of information** pertinent and helpful to the communities of the Space Environments Association.



What does UKSEA aim to do?

Objective

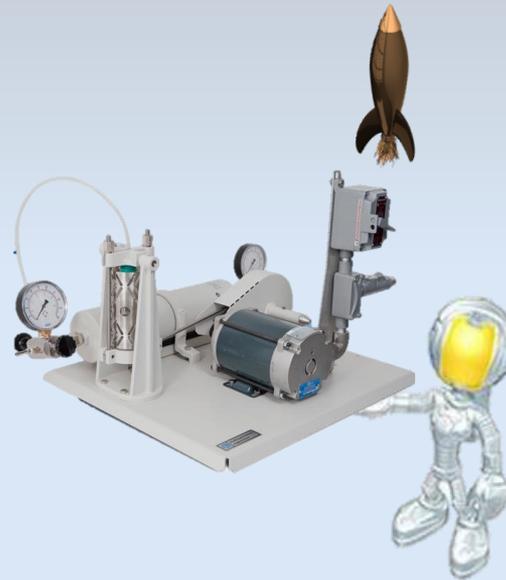
3. To offer a means to aid the establishment of **cross-disciplinary partnerships** for the pursuit of collaborative projects in the space industry.



What does UKSEA aim to do?

Objective

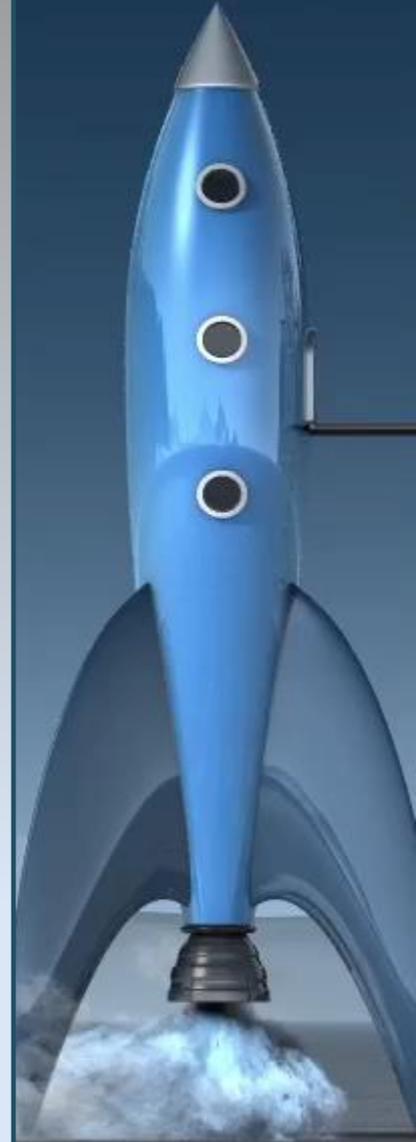
4. To offer a means to find, borrow or hire specialist **equipment and facilities** required for space environments R&D within the UK.



What does UKSEA aim to do?

Objective

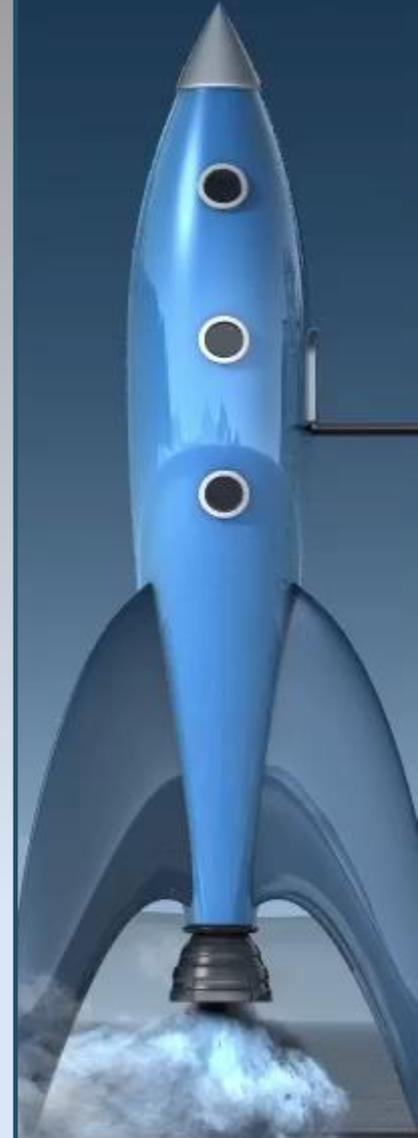
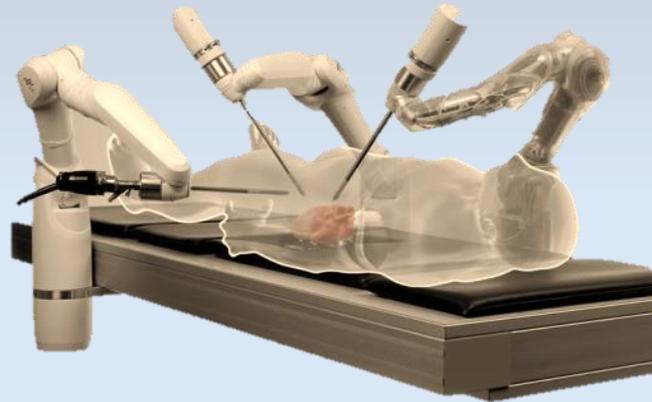
5. To offer **education and career support** to UK students and early career professionals wishing to work or develop a career in the UK (or international) space industry.



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.**



UKSEA structure and services

- **Steering committee;** UKSA Space Environments Working Group
 - UKSEA Executive Committee in due course
- **Coordinators;** Simon Evetts / Andrew Winnard
- **Membership....**
 - **Current** - Delegates from the two national space environments conferences
 - **Forthcoming** - Individuals and companies who have expressed an interest to join
- **Services;**
 - **On-line;** Website, Project Worksite, Resource Centre, Space Solution Marketplace platform etc
 - **C3;** Conferences/workshops, network, notifications, links with international orgs/programmes
 - **Advisory;** representatives, consultation, advice - esp funding and careers.

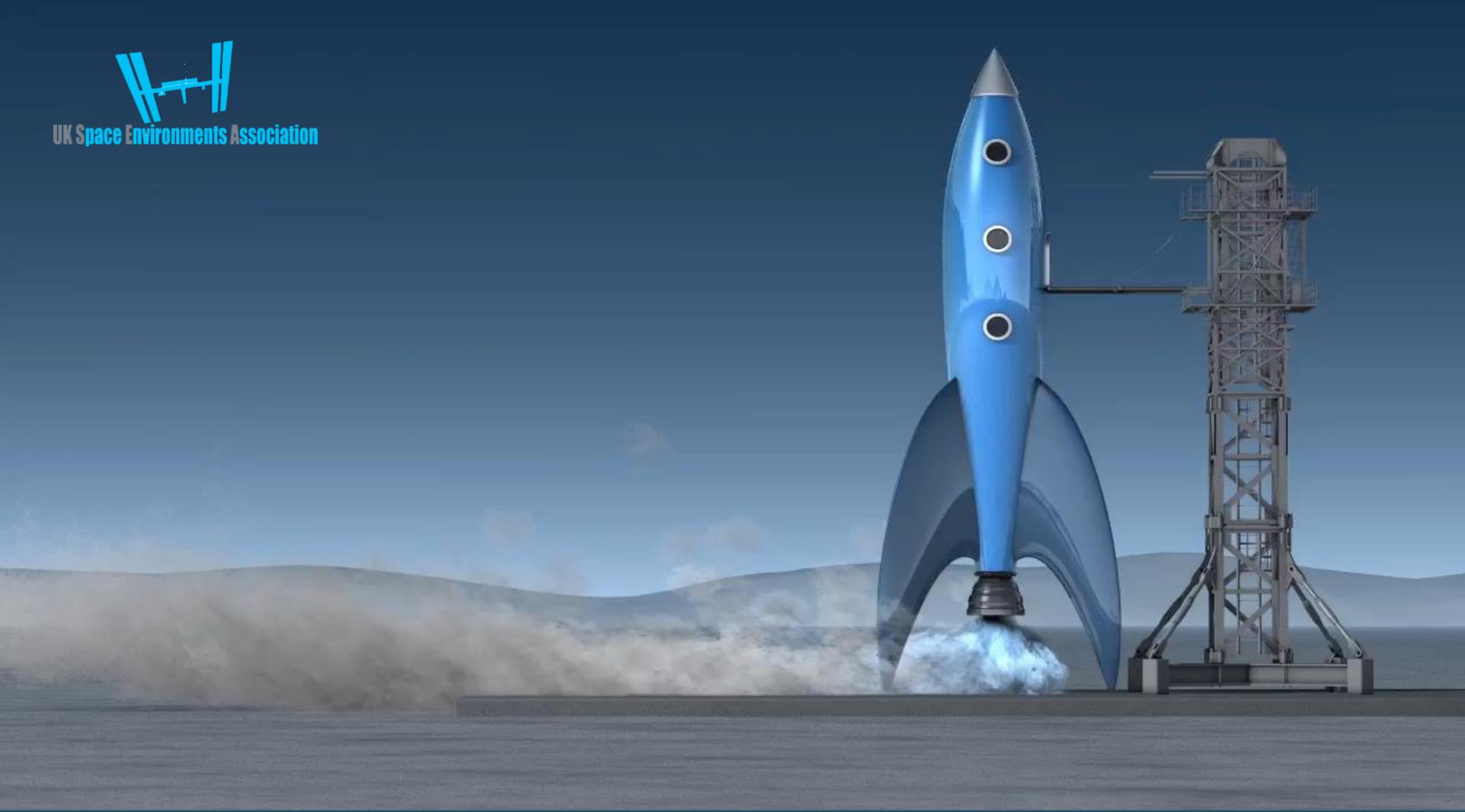


UKSEA in the future

- 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 a UK space industry which will grow and develop.





Thank you
for your attention

The Resource Centre and Space Solutions Marketplace

Simon Evetts

Wyle,
Co-coordinator UK Space Environments Association

Andrew Winnard

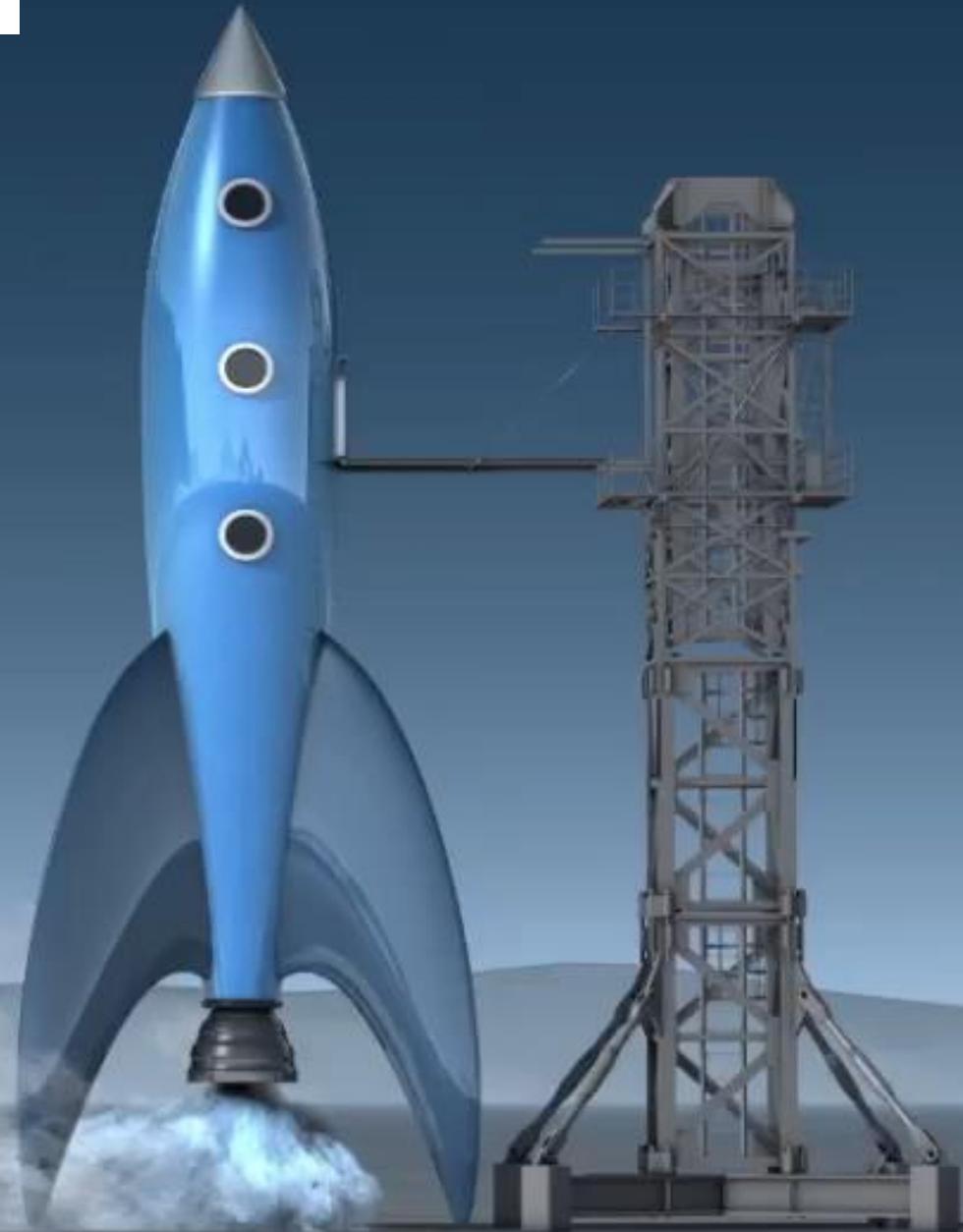
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UK Space Environments Association



UK SPACE L.A.B.S.



Resource Centre

- The Resource Centre is an online platform designed to allow members of UKSEA and UK Space LABS to **list equipment and facilities** available for **hire or loan**.
- Details are **uploaded** together with **contact details** for members who might be interested in borrowing or hiring their wares.
- Members using the platform are able to **search and view items** listed according to institution, category or location.
- When a **match between provider and customer occurs**, the customer simply contacts the provider using the details provided online to arrange the desired loan or hire.
- Resource centre is in effect a ***dating agency for space R&D Apparatus/facilities***.



Resource Centre

[Resource Centre](#)



Space Solutions Marketplace

- The Space Solutions Marketplace is also something like an **online dating agency**.
- Members of either Association are able to list details of **products or mature R&D** which is close to market, for other members and the **general public to see**.
- The intention is to provide a means for **British space products** which have **terrestrial applications**, to be more easily found by terrestrial organisations with needs.
- Using the Marketplace **categorised search function** a potential customer can find a product that may meet their needs and using the contact details provided **directly contact the provider**.



Space Solutions Marketplace

[Space Solutions Marketplace](#)



UKSEA and UK Space LABS online services

- **B-Testing** - The platforms will go live once **trials** have been successfully completed - autumn.
- **From small beginnings**

**big benefits for the grassroots
orgs of the UK space industry ...
... benefitting society and
... leading to growth!**

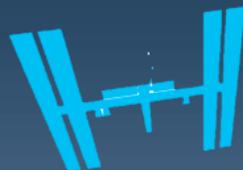




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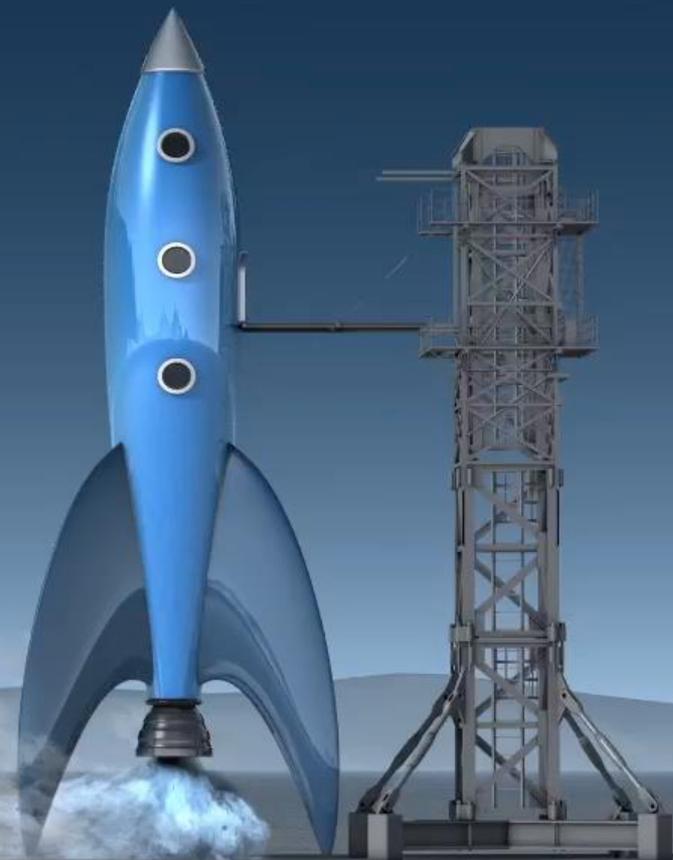
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