



Memorandum of Principles for Space Sustainability

27 June 2023

“We must develop a sustainable way, a durable way, of benefiting from space, just as we must here on the Earth.” King Charles III, 2022.

The signatories to this Memorandum of Principles seek to promote and facilitate international engagement with, and understanding and management of, the long-term sustainability of outer space activities, and through these efforts establish transparent Space Sustainability Principles of responsible behaviour, based on, expanding and developing the initial principles set out in the Annex. These Space Sustainability Principles will then form a set of Space Sustainability Standards.

The signatories refer to the Secure World Foundation definition of space sustainability: *“Ensuring that all humanity can continue to use outer space for peaceful purposes and socioeconomic benefit now and in the long term”*, recognising the value of space for our life on Earth.

The signatories to this Memorandum of Principles:

Acknowledge the profound importance of the peaceful use of space for the prosperity of all people and of the planet, for facilitating geopolitical collaboration and for supporting essential communication, observation, navigation, cultural, scientific and civic purposes. The signatories further acknowledge the importance of space as a shared, unique and fragile environment.

Recognise that the use of space has had, and continues to have, broad environmental impacts and that responsible behaviour and environmental stewardship should be encouraged, incentivised and underpinned by strong ethical and accountable governance and appropriate regulation, acknowledging that these components are interlinked and dependent upon each other.

Recognise that the commercial space industry can take a leading role in space sustainability by adopting responsible practices, including in the design, operation and disposal of space systems, considering their impact on terrestrial and space resources - allowing all nations, their private actors and people to benefit from a peaceful, safe and sustainable space environment, now and into the future.

Recognise that responsible behaviour can be encouraged, supported and promoted by:

- (a) the investment and insurance communities, by facilitating investment and insurance cover for responsible space practices that support the sustainable use of space; and
- (b) governments and regulators, by implementing national incentive-based regulation, licensing conditions and market access requirements, where appropriate.



Further recognise that responsible behaviour can be encouraged and promoted:

- (a) by academia, through research and the development of technologies and analysis techniques; and
- (b) by the public across the world, by raising awareness and holding all space actors accountable.

Recognise that working collaboratively together across all of these sectors offers a mutually beneficial means for encouraging and maintaining responsible and sustainable behaviour across the space industry to the advantage of all.

Highlight the importance of greater international engagement and knowledge sharing across governments, policy makers and regulatory systems, with sustainability criteria being common core principles rather than outlier aspirations. The signatories value the involvement of a broad user community, all of whom have a stake in space and are motivated to protect it.

Acknowledge that many aspects of outer space, including radio frequency spectrum and orbits, are scarce natural resources that can be depleted and degraded, much like natural resources on Earth. The signatories recognise that we must develop ways to understand and manage the use of these resources efficiently, equitably and sustainably; creating incentives to develop new technologies to allow us to do “more with less”, as we are learning to do on Earth.

Appreciate that sharing space means adopting responsible practices for facilitating equitable access to space, and for limiting adverse effects on operational, environmental, scientific and cultural benefits. The signatories further acknowledge that the management challenges related to these effects are likely to increase in complexity as the number of actors, spacecraft and debris in orbit increase.

The signatories further acknowledge the following:

The Space Sustainability Principles will set out the principles for responsible and sustainable activities.

Space sustainability and space safety embody the need to share the space environment through the responsible, effective and collective management of all orbital objects, including those already present within the space environment and those yet to be launched. These goals encompass the consideration of the space environment with other environmental, safety, scientific and cultural impacts. The Space Sustainability Principles will provide a common framework for all stakeholders - at international, regional and national levels (including through regulation and licensing) to achieve these broad management goals.

By guiding the design, launch, operation, maintenance and disposal of all orbital objects, the Space Sustainability Principles will promote the means for limiting further environmental impacts, including the generation of space debris, waste and pollution and interference, whilst also enabling measures seeking to remedy the environmental impacts that have already occurred.



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It is recognised that each signatory will have to make its own decisions about the implementation of these Space Sustainability Principles and the resulting Space Sustainability Standards.

The signatories to this Memorandum of Principles stand sure and united in their commitment to protect the significance, use and exploration of the space environment, taking a collaborative, international, diverse, inclusive and multi-disciplinary approach.

The signatories recognise the challenges ahead but are proud to contribute their knowledge, experience, and resources to enable the robust pursuit of excellence, innovation and leadership in space sustainability for future generations.

This Memorandum of Principles is not intended to create any legal obligations or legally enforceable rights.

The undersigned, duly authorised, have signed this Memorandum of Principles for Space Sustainability.

SIGNED by Joanne Wheeler MBE
a duly authorised signatory of

Earth & Space Sustainability Initiative

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) Date: 27 June 2023



Annex

The signatories intend that the Space Sustainability Principles will cover the following:

The signatories intend that the Space Sustainability Principles will address the need to consider the environmental impacts of space activity, taking a holistic approach, and to understand, manage and remedy the impacts of collective human activity in space. To this end, the Space Sustainability Principles will cover the following:

Spacecraft design and manufacturing

These Principles will cover:

- the importance of designing space systems, including multi-spacecraft systems, to include requirements for responsible practices supporting space sustainability and space safety including requirements for minimising their environmental, safety, scientific and cultural impacts, with consideration of all aspects of the lifecycles of the spacecraft;
- the value of designing space systems and selecting orbits in ways that respect and support the sharing of limited spectrum and orbital resources, enabling equitable access to the benefits afforded by space; and
- the need to design and manufacture space systems in ways that minimise use of finite natural resources, and reduce waste, pollution and impacts on the terrestrial environment using appropriate methods and technologies.

Launch and propulsion

These Principles will cover:

- the value of the transition away from toxic and harmful propellants and towards environmentally sustainable propulsion options;
- the need for launch vehicles to safely and sustainably re-enter Earth's atmosphere on a timely basis after completion of their missions; and
- the need to address the impact of related ground activity, such as transportation emissions in the supply chain.

Space operations

These Principles will cover:

- the importance of prompt registration and cataloguing of space objects for enabling situational awareness and effective coordination;
- the importance of sharing timely and accurate information, including orbit and manoeuvre data, and coordination among spacecraft operators and other stakeholders to ensure the safe and sustainable use of the space environment; and
- the need for continued international research collaboration to improve our understanding of the Sun and its effect on the orbital space environment.

Rendezvous and Proximity Operations

These Principles will cover:

- the importance of safe and transparent rendezvous and proximity operations (RPO) practices for in-orbit services (IOS) to human-made objects, recognising that these



services aim to extend the life of space assets, remove space debris, reuse products and materials, eliminate waste and pollution and remediate the space environment.

Disposal

These Principles will cover:

- the need for effective passivation, post-mission disposal and re-entry strategies for space systems and launch vehicle orbital stages, including the use of Active Debris Removal (ADR), to mitigate the generation of space debris; and
- the need to minimise the risk of casualties, damage to property and harm to the environment from space objects that re-enter Earth's atmosphere.

Space debris mitigation and remediation

These Principles will cover:

- the need for space systems and launch vehicle orbital stages to be designed and operated in a way that avoids the creation of space debris;
- the need to manage the space debris population through a variety of approaches, technologies, responsible behaviour and coordination of space traffic; and
- the benefits of space environment remediation through a variety of approaches, to address any environmental damage that may be caused by space activities.

Dark and quiet skies

These Principles will cover:

- the importance of the natural night sky to all humans, especially indigenous peoples, as a central part of our shared cultural heritage;
- the recognition that dark and quiet skies are crucial for conducting fundamental research in astronomy, enabling important public services such as planetary defence and high-precision geolocation and allowing certain indigenous peoples to timekeep and regulate their societies.
- the appreciation that spacecraft should minimise their impact on dark and quiet skies through responsible design and operational choices; and
- the recognition that governments and regulators should establish regulations and licensing conditions that mitigate negative impacts on dark and quiet skies.

Earth monitoring

These Principles will cover:

- the important role of spacecraft in monitoring Earth's environment across spatiotemporal scales, including applications for meteorology, atmospheric science, pollution monitoring, agricultural and land use studies, deforestation, oceanography, geophysics, climatology, migration monitoring and enforcement of environmental regulations;
- the importance of space astronomy and in-situ space physics studies for understanding the space environment and the effects of the Sun, solar system and extrasolar phenomena on Earth; and
- the need to provide sufficient information about Earth monitoring products to enable value and trust in data used to derive sustainability conclusions.



Resource management

These Principles will cover:

- the need for responsible use of non-terrestrial resources, including in-situ resource utilisation of the Moon and other celestial bodies;
- the need for terrestrial resources used by the space industry to be sourced responsibly, sustainably and ethically; and
- the need to protect extra-terrestrial planetary environments.

Economy and environmental, social and governance (ESG) criteria

These Principles will cover:

- **Finance**
 - the need for demonstrable space sustainability measures as part of good governance procedures to contribute to improved investment decisions and risk-return profile;
 - the need to apply existing and forthcoming best practices in terrestrial ethical investment to the space environment; where possible, setting the terms at the time of entry, applying responsible stewardship and guidance and reporting on financial and ESG metrics over the life of the investment; and
 - the need for economic viability of the industry to include ESG factors in the investment analysis and decision-making processes given the large-scale nature of investment.
- **Insurance**
 - the need for sustainable behaviour in space to encourage ethical investment, foster the development of principled businesses and support commitments under the UN Convention on the International Liability for Damage Caused by Space Objects while improving the risk profile;
 - the need to understand efficient space sustainability stewardship and governance norms to reduce liabilities, anticipate and mitigate potential claims, and ensure responsible resource management to strengthen the sector's resilience; and
 - the value of the role insurance plays in enabling spacecraft activity and encouraging responsible conduct in space.
- **Law and regulation**
 - the need for all entities conducting space activities to do so responsibly and consistently with space sustainability practices and principles in compliance with commitments under international law, regulation and guidelines, including the UN Outer Space Treaty, the UN Convention on the International Liability for Damage Caused by Space Objects, the UN Guidelines for the Long-term Sustainability of Outer Space Activities and UN resolutions;
 - the need for robust, flexible and dynamic legal, regulatory and licensing frameworks at the national level to incentivise compliance with space sustainability principles; and
 - recognition of the drive towards a globally harmonised legal and regulatory framework that is accessible internationally and encourages space sustainability practices in compliance with international law.



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Additional Signatures



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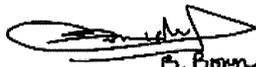
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The undersigned, duly authorised, have signed this Memorandum of Principles for Space Sustainability.

SIGNED by Betty Bonnardel
a duly authorised signatory of

AB5 Consulting

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)..... B. Bonnardel
) Date: 26 June 2023



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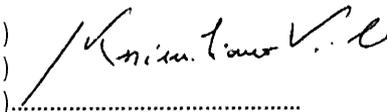
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SIGNED by Massimiliano Vasile
 a duly authorised signatory of

Aerospace Centre of Excellence

University of Strathclyde

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SIGNED by M. J. STUTTARD
a duly authorised signatory of
Airbus Defence
and Space Ltd.

) M. J. Stuttard

) Date: 26 June 2023



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SIGNED by ALEX MONK
 a duly authorised signatory of

ALDEN LEGAL LIMITED

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SIGNED by Max Alexander
a duly authorised signatory of

Max Alexander Photography

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) *Max Alexander*
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) Date: 27th June 2023

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SIGNED by
Adon Nicholls a duly
authorised signatory of
Andraste Group Ltd.

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.....) Date:

26/06/2023



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SIGNED by Clive Smith
a duly authorised signatory of
Aon UK Limited

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) *Clive Smith*
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) Date: 27th June 2023



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SIGNED by John Paffett
a duly authorised signatory of

Applied Space Solutions Ltd

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) Date: 26th June 2023



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SIGNED by Arthur van der Wee
a duly authorised signatory of

Arthur's Legal, Strategies & Systems

Date: 26 June 2023



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SIGNED by Daniel Smith
a duly authorised signatory of

AstroAgency Limited

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SIGNED by Gabriel Elefteriu
a duly authorised signatory of
AstroAnalytica

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SIGNED by Nicholas Shave
a duly authorised signatory of

Astroscale Ltd

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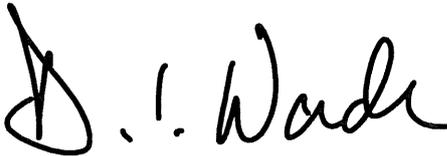
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SIGNED by David Wade
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Atrium Insurance Agency Limited

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SIGNED by Luke Spencer
 a duly authorised signatory of

UNISERVICES LIMITED
 on behalf of University of Auckland

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) *Luke Spencer*
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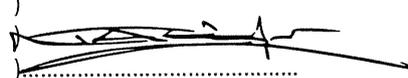
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The undersigned, duly authorised, have signed this Memorandum of Principles for Space Sustainability.

SIGNED by **DR. NADEEM GHAFOR**
a duly authorised signatory of

)

) Date: 27TH JUNE 2023

AVALON SPACE INC.

(CEO)
80 Atlantic Ave, 4th Floor
Toronto, ON, M6K 1X9
Canada



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SIGNED by Lorenzo Arona
a duly authorised signatory of

)
) 
).....
) Date: 26 June 2023

Avanti Communications



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SIGNED by Alberto Garbayo
 a duly authorised signatory of

AVS Added Value Solutions

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) Date: 26-Jun-2023

Digitally signed by
 Alberto Garbayo
 Reason: I am approving
 this document
 Location: UK
 Date: 2023-06-26 15:
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David Armstrong

SIGNED by David AS
a duly authorised signatory of

BAE Systems Digital Intelligence

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) 27 June 2023
).....
) Date:



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The undersigned, duly authorised, have signed this Memorandum of Principles for Space Sustainability.

SIGNED by Dr Michele Bannister
a duly authorised signatory of

The University of Canterbury
Te Whare Wānanga o Waitaha
New Zealand

)
)
) *Michele Bannister*
) Date: 26 June 2023



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SIGNED by Dr James Blake
a duly authorised signatory of

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) 
).....
) Date: 19/07/2023



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SIGNED by _____
a duly authorised signatory of

Blue Abyss (Global Holdings) Ltd

)
) John Vickers, CEO
).....
) Date: 26 June 2023



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SIGNED by Alistair Maclean
 a duly authorised signatory of

BARSC

)
) *Alistair Maclean*
).....
) Date: 19/07/23



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SIGNED by 
 a duly authorised signatory of
Brit Syndicates Limited

)
) Gary Brice
).....
) Date: 26th June, 2023



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SIGNED by KEVIN WARES
a duly authorised signatory of

BROWN + HOLMES (TAMWORTH) LTD

)
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) 27.6.2023
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) Date:



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SIGNED by 
a duly authorised signatory of
ANDREW IWANOCZEK
Callala Ltd.

)
)
) 3rd July 2023
) Date:



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SIGNED by Samantha Lawler)
 a duly authorised signatory of)

Campion College Department of Astronomy at
the University of Regina)

).....
) Date: 26 June 2023



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SIGNED by John Hanley
a duly authorised signatory of

CGI IT UK Limited

)
) 
)
) Date: 26 June 2023



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SIGNED by TANIEL YUSOF
a duly authorised signatory of

CIVIC SPACE

)
)
).....
) TANIEL YUSOF
) DATE: 27/06/23

TANIEL YUSOF
DIRECTOR



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SIGNED by Rory Holmes
 a duly authorised signatory of
 ClearSpace Today Ltd

) *Rory Holmes*
 Managing Director, ClearSpace Today Ltd
 London, 26/06/2023
) 
)  Simple electronic signature
 Signed on Skribble.com
)
) Date:

SIGNED by Luc Piguet
 a duly authorised signatory of
 ClearSpace Today Ltd

) 
) *Luc Piguet, CEO, ClearSpace SA*
 Renens, 27/06/2023
) 
)  Simple electronic signature
)
) Date:



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SIGNED by Dr David L Clements
 a duly authorised signatory of
Reader, Imperial College London

)
) 27 June 2023
).....
) Date:



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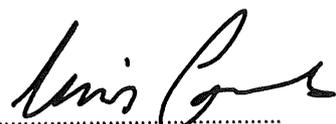
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SIGNED by Luís Gomes
a duly authorised signatory of

Clyde Space Ltd

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) 
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) Date: 27/6/2023



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SIGNED by Patricia Cooper
a duly authorised signatory of

Constellation Advisory, LLC

)
Patricia Cooper
)
).....
) Date: 26 June 2023



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SIGNED by Gail Eastaugh
a duly authorised signatory of

the Cornwall Space Cluster

Date: 26 June 2023



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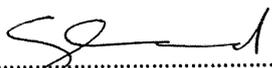
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SIGNED by STEVE GREENLAND
a duly authorised signatory of
CRAFT PROSPECT LTD

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).....
) Date: 26th June 2023



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SIGNED by Sean Hardacre
 a duly authorised signatory of

Deimos Space UK Ltd.

) Sean
) Hardacre
).....
) Date: 13 July 2023

*Digitally signed by Sean Hardacre
 Date: 2023.07.13 14:31:07 +01'00'*



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DocuSigned by:
Anne-Marie Malley
37AC1976A19D437...

SIGNED by Anne-Marie Malley
a duly authorised signatory of

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) 27/06/2023
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) Date:

Vice Chair and Partner, Deloitte LLP UK, Sustainability and Climate Leader



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SIGNED by Luca Rossetini
a duly authorised signatory of

D-Orbit

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) Date: 26.06.2023



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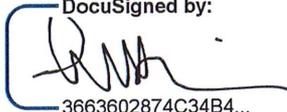
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The undersigned, duly authorised, have signed this Memorandum of Principles for Space Sustainability.

SIGNED by Charles Davis
a duly authorised signatory of
Earth-I Limited

) **DocuSigned by:**
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)3663602874C34B4...
) Date: 18-07-2023



ESSI
 Earth ∞ Space
 Sustainability
 Initiative

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SIGNED by JENNIFER A. MANNER
 a duly authorised signatory of ECHOSTAR

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)
) June 26, 2023.....
) Date:



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SIGNED by MR D HARRIS
a duly authorised signatory of
Ecosene Limited

) Mr Derek Harris
)
).....
) Date: 10 July 2023



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 Initiative

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SIGNED by Peter Mathieson
 a duly authorised signatory of
The University of Edinburgh

) Professor Sir Peter Mathieson
) Principal and Vice-Chancellor
).....
) Date: 26 June 2023



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SIGNED by _____
a duly authorised signatory of

Environmental Task Force

) DANIEL SMITH
) KRISTINA TAMANE
) ANDREW FOURNET
) Date: 26/06/23



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SIGNED by Sara Lucatello _____
 a duly authorised signatory of

European Astronomical Society

)
) *Sara Lucatello*
)
) Date: 26/6/2023



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The undersigned, duly authorised, have signed this Memorandum of Principles for Space Sustainability.

Digitally signed by
 BARCONS JAUREGUI
 FRANCESC XAVIER -
 39318719N
 Date: 2023.06.27
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SIGNED by Prof. Xavier Barcons
 a duly authorised signatory of the
 European Organisation for Astronomical
 Research in the Southern Hemisphere

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) Date: 27 June 2023



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 Initiative

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SIGNED by Andy Grey
 a duly authorised signatory of

Exotopic

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) Date: 27th June 2023



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 Initiative

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The undersigned, duly authorised, have signed this Memorandum of Principles for Space Sustainability.

SIGNED by Stuart Clark
 a duly authorised signatory of

Expanded Universe Ltd.

)
) *Stuart Clark*
).....
) Date: 27 June 2023



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Initiative

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SIGNED by Directors
a duly authorised signatory of
Institute for Future of Living

(A) Celine Prijs
(B) A. H. van der Wek

[Signature]
Date: 27 June 2023



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SIGNED by Akiko Hama
a duly authorised signatory of

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).....
) Date: 26 June 2023

Global Aerospace Underwriting Managers Ltd



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Initiative

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The undersigned, duly authorised, have signed this Memorandum of Principles for Space Sustainability.

SIGNED by Katherine A. Courtney
a duly authorised signatory of
Global Network on
Sustainability in Space

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) Date: 26 June 2023



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 Initiative

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**Anthony
 Baker**

SIGNED by Anthony Baker
 a duly authorised signatory of

Global Satellite Vu Ltd

Digitally signed by
 Anthony Baker
 Date: 2023.07.10
 19:50:38 +01'00'
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) 10 July 2023
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) Date:



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Sustainability
Initiative

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SIGNED by Piers Slater
a duly authorised signatory of

Global Space Futures LTD

) 
).....
) Date: 27/06/23



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Initiative

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SIGNED by Dr Richard Hilton
a duly authorised signatory of

GlobalTrust Ltd

) 
)
) Date: 26/06/2023



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SIGNED by Mark Dumville
a duly authorised signatory of

GMV NSL Limited

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) 
).....
) Date: 19/7/23



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SIGNED by *Ian Jones*
a duly authorised signatory of
Goonhilly Earth Station Ltd

) 
)
) Date: 10 July 2023



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SIGNED by **Brian Zielinski-Smith**
a duly authorised signatory of

Gravitalab Aerospace Services

) 
)
) Date: **26-June-2023**



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SIGNED by Portia Bowman
 a duly authorised signatory of

Growbotics Space Ltd

)
) *Portia Bowman*
).....
) Date: 26/06/2023



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SIGNED by David Balson
 a duly authorised signatory of
HEO Robotics

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) 26/06/2023
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) Date:



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SIGNED by T.M. DAVIES
a duly authorised signatory of
HiROC

) T.M. Davies
)
)
)
) Date: 25 JUN 2023



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SIGNED by **Rafal Modrzewski**, CEO and
a duly authorised signatory of
ICEYE

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) Date: 26 June 2023

DocuSigned by:
Rafal Modrzewski
AQEB88B417084DE.....



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The undersigned, duly authorised, have signed this Memorandum of Principles for Space Sustainability.

SIGNED by Madeleine James
a duly authorised signatory of
Infinity Systems Engineering LTD.

)
) 
).....
) Date: 12/07/2023



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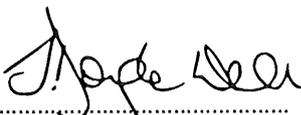
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SIGNED by J Douglas Liddle
a duly authorised signatory of

In-Space Missions Limited

)
) 
)
) Date: 28-06-2023



ESSI
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Initiative

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SIGNED by Debra Elmegreen
a duly authorised signatory of

International Astronomical Union

.....
Date: June 27th, 2023



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SIGNED by Salar Javid
a duly authorised signatory of
Javid & Company Inc

)
)
).....
) Date: **June 27th 2023**



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SIGNED by Hans Karlsen
a duly authorised signatory of
Karlsen Associates Limited

)
) *Hans Petter Kolm*
).....
) Date: 26 June 2023



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 Initiative

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SIGNED by Dr. John Paffett
 a duly authorised signatory of

KISPE LTD

)
)
).....J Paffett
) Date: 26th June 2023



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SIGNED by R Spurrett
 a duly authorised signatory of

Lacuna Space Ltd

) 
).....
) Date: 26th June 2026



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SIGNED by __

Professor Nishan Canagarajah
President & Vice-Chancellor__

a duly authorised signatory of



)
)
).....26 June 2023.....
) Date:



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SIGNED by Dr Sharon Lemac-Vincere

Dr Sharon Lemac-Vincere

from Lancaster University

Date: 26th June 2023



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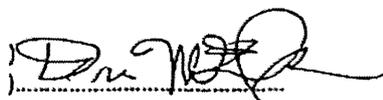
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SIGNED by Darren McKnight
a duly authorised signatory of

LeoLabs


) Senior Technical Fellow
) Date: 25 June 2023



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SIGNED by Andrew Hunter
 a duly authorised signatory of
University of Lincoln

) *Andrew Hunter*
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).....
) Date: 27/06/2023



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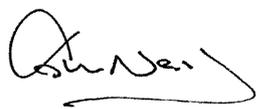
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SIGNED by John Neal
 a duly authorised signatory of

Lloyd's

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) Date: 27.06.2023



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SIGNED by HIRA VIRDEE
a duly authorised signatory of
LUAMI SPACE

) [Signature]
.....
) Date: 25/06/2023



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SIGNED by Peter Roberts
 a duly authorised signatory of
The University of Manchester

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).....
) Date: 26th June 2023



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SIGNED by Brian Holz a duly
 authorised signatory of
 Mangata Networks Inc

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) Date: 10 July 2023



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SIGNED by <u>S. Dulanty</u> a duly authorised signatory of <u>The Manufacturing Technology Centre</u>	Shan Dulanty Chief Engineer) FIMechE) 26/06/2023).....) Date:
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SIGNED by _____
a duly authorised signatory of

Professor Ranaji Matama

)
) 21/07/23
) _____
) Date:



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SIGNED by Michael Kramer
a duly authorised signatory of

Max Planck Institute for Radio Astronomy

) 
).....
) Date: 26 June 2023



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SIGNED by JONATHAN MCDOWELL
 a duly authorised signatory of

JONATHAN'S SPACE REPORT

) Jonathan C. McDowell
).....
) Date: 18 JUL 2023



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SIGNED by Anita Bernie
a duly authorised signatory of

MDA Space and Robotics Limited

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)
) *ABernie*
) Date: 27th June 2023



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SIGNED by Owen Varley
 a duly authorised signatory of

Metrea Mission Data

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) 
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) Date: 27 June 2023



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SIGNED by Giuseppe Reibaldi
a duly authorised signatory of

Moon Village Association


)..... July 13, 2023
) Date:



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including the generation of space debris, waste and pollution and interference, whilst also enabling measures seeking to remedy the environmental impacts that have already occurred.

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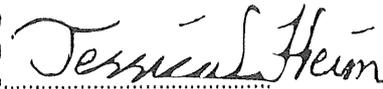
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SIGNED by Jessica Heim
a duly authorised signatory of

Mt. Kent Observatory

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}.....
} Date: 26 June 2023



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SIGNED by Maurizio Vanotti
 a duly authorised signatory of

OneWeb

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SIGNED by Dr. Nicholas P. Ross
 a duly authorised signatory of
Niparo Ltd.

)
) **Monday, 26th June 2023**
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) Date:



ESSI
 Earth ∞ Space
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 Initiative

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SIGNED by James New
 a duly authorised signatory of
ODIN Space

)
) *James New*
).....
) Date: 26th June 2023



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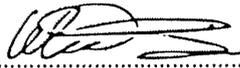
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SIGNED by Celia Davies
a duly authorised signatory of

Omanos Analytics Ltd

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) Date: 26th June 2023



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SIGNED by Florian DECONINCK
 a duly authorised signatory of
Open cosmos Ltd.

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) Date: 27 June 2023



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SIGNED by Mansoor Shar
a duly authorised signatory of

Orbit Fab Limited

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) Date: 26 June 2023



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SIGNED by Aaron Boley,
Co-director,
Outer Space Institute

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) Date: 26 June 2023



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SIGNED by DR HEDLEY STOKES
a duly authorised signatory of

PHS SPACE LTD.

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) Date: 25 JUNE 2023



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SIGNED by Alex Fielding
a duly authorised signatory of

Privateer Space, Inc.

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) Date: 07/29/2023



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SIGNED by Robin Tucker
a duly authorised signatory of
Red Kite Management Consulting Limited

Date: 26 June 2023



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SIGNED by Ann Vandenbroucke

_____ a duly authorised signatory of

Rivada SpaceNetworks

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 26 June 2023



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SIGNED by

27 June 2023

Date:

Howard Russell Nye FRAeS
 Chair, RAeS Space Specialist Group
 RAeS President 2021-22
 Former ESA Senior Executive

a duly authorised signatory of

The Royal Aeronautical Society (RAeS) Space Specialist Group



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SIGNED by

Professor Michael Edmunds

a duly authorised signatory of

the Royal Astronomical Society

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SIGNED by Mark C J Posen
 a duly authorised signatory of

RPC Telecommunications Limited

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) Date: 26 June 2023



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SIGNED by Stuart Martin
a duly authorised signatory of

Satellite Applications Catapult

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) Date: 26 June 2023



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SIGNED by RICHARD BROOK
a duly authorised signatory of

SATELLITE FINANCE NETWORK

)
) R.A. Brook
)
) Date: 26 June 2023



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SIGNED by DEBBIE STRANG
a duly authorised signatory of
SAXAVORD SPACEPORT LTD

) 
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) Date: 26/6/23



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Space sustainability and space safety embody the need to share the space environment through the responsible, effective and collective management of all orbital objects, including those already present within the space environment and those yet to be launched. These goals encompass the consideration of the space environment with other environmental, safety, scientific and cultural impacts. The Space Sustainability Principles will provide a common framework for all stakeholders - at international, regional and national levels (including through regulation and licensing) to achieve these broad management goals.

By guiding the design, launch, operation, maintenance and disposal of all orbital objects, the Space Sustainability Principles will promote the means for limiting further environmental impacts, including the generation of space debris, waste and pollution and interference, whilst also enabling measures seeking to remedy the environmental impacts that have already occurred.

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SIGNED by **Anushka Sharma**
a duly authorised signatory of
Naaut

Date: **27 June 2023**



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SIGNED by Dr Peter Shaw
 a duly authorised signatory of

Kingston University London

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) Date: 27th of June, 2023



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SIGNED by Federico Di Vruno
a duly authorised signatory of

SKA Observatory

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) Date: 26/06/2023



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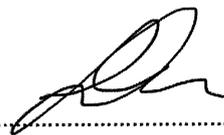
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SIGNED by Laura Edison, Director
a duly authorised signatory of

Skyrora Limited

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SIGNED by MST
a duly authorised signatory of

Slingshot
Aerospace

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) 26 Jun 23
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) Date:

SIGNED BY MELANIE STRICKLAN



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<p>SIGNED by Prof Mark Spearing, Vice-President of Research & Enterprise a duly authorised signatory of the University of Southampton</p> <p><i>SM Spearing</i></p> <hr/>	<p>)) 26-Jun-2023).....) Date:</p>
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SIGNED by

Chris Newlands a duly
authorised signatory of

Space Aye Limited

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)26th June 2023
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The undersigned, duly authorised, have signed this Memorandum of Principles for Space Sustainability.

SIGNED by **Hugh Kelliher**
a duly authorised signatory of
Space ConneXions Limited

)
) *H. Kelliher*
)
.....
) Date: 26 June 2023



the generation of space debris, waste and pollution and interference, whilst also enabling measures seeking to remedy the environmental impacts that have already occurred.

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SIGNED by
a duly authorised signatory of
Space Forge Ltd

A handwritten signature in black ink, appearing to be "J. Western", written over a horizontal line.

)
) Joshua Western - CEO
).....
) Date: 00/00/2023

10/07/2023



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 Sustainability
 Initiative

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SIGNED by Hina Khan
 a duly authorised signatory of

Space Scotland

) 
)
) Date: 27 June 2023



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SIGNED by 
 a duly authorised signatory of
Space South Central

)
) Keith Robson
).....
) Date: 26th June 2023



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SIGNED by Marco Rocchetto
a duly authorised signatory of
spaceflux Ltd

) DocuSigned by:
) 
)BE3DCB82767A443.....
) Date: 28 June 2023



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Initiative

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SIGNED by Leece McAllister
a duly authorised signatory of

SPRCE Vantage

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)
) 
) Date: 12/07/2023



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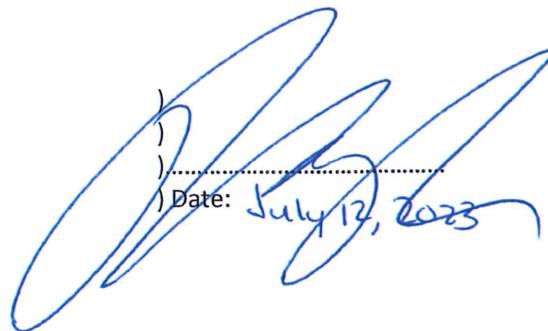
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SIGNED by Peter Platzer
a duly authorised signatory of
Spire Global Inc.


Date: July 12, 2023



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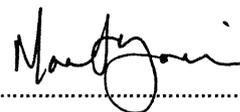
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SIGNED by Martin Foulger
a duly authorised signatory of

Spirent Communications plc

)
) 
).....
) Date: 27th June 2023



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 Initiative

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The undersigned, duly authorised, have signed this Memorandum of Principles for Space Sustainability.

SIGNED by Stuart Mills a duly
 authorised signatory of

STAR-Dundee Limited

)
) *Stuart Mills*
).....
) Date: 27th of July 2023



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Sustainability
Initiative

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The undersigned, duly authorised, have signed this Memorandum of Principles for Space Sustainability.

SIGNED by Andrew Davies
a duly authorised signatory of
Stellar Aerospace

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).....
) Date: 27/6/2023



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 Initiative

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SIGNED by NEIL STEVENS)
 In his personal capacity (from)
 insurance sector)

).....
) Date: 26 June 2023



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Initiative

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SIGNED by Sir Martin Sweeting

a duly authorised signatory of

Surrey Satellite Technology Ltd. (SSTL)

Date: 25 June 2023



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SIGNED by Matthew Wills
a duly authorised signatory of

Sustain Space Ltd

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) 
).....
) Date: 26/06/2023



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Initiative

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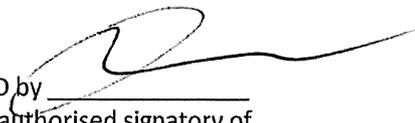
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SIGNED by 
a duly authorised signatory of

DANIEL WALLER
GENERAL MANAGER - SPACE IMAGINING,
TELEDYNE E2V.

)
) 27/6/23
).....
) Date:



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 Initiative

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SIGNED by Mario Neri, CEng MIET
 a duly authorised signatory of

Telesat International Limited

) **NERI MARIO** Digitally signed by NERI
 MARIO - Y7058578F
) - **Y7058578F** Date: 2023.07.19
)..... 08:24:22 +02'00'
) Date: 19 July 2023



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SIGNED by Mark Hewer
 a duly authorised signatory of

Telespazio UK Ltd

) 
)
)
) Date: 26th June 2023



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SIGNED by ANDREW STANNILAND
a duly authorised signatory of

THALES ALENIA SPACE UK LTD.

) 
)
) Date: 26 / 6 / 23



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SIGNED by Angela Mathis, CEO
a duly authorised signatory of

ThinkTank Maths Limited / Norge AS

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)
)..... Signature.

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) Date: 27 June 2023



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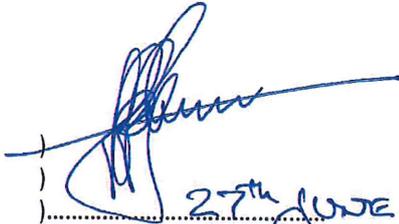
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SIGNED by JEFFREY THOMAS
a duly authorised signatory of

TRUST GROUP

) 
) 27th JUNE 2023.
) Date:



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 Earth ∞ Space
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SIGNED by Andy Bradford
 a duly authorised signatory of
UK Launch Services Ltd

) 
)
) Date: 27th June 2023



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SIGNED by Mark D. Dankberg,
a duly authorised signatory of
Viasat, Inc.

.....
Date: 26 June 2023



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SIGNED by **Dr Adam E white**
a duly authorised signatory of

A UK representative for the Space Domain

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) Date: 26/06/2023



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JANETTE SUNSHINE

SIGNED by Janette Sunshine
 a duly authorised signatory of

WTW

)
) Janette Sunshine
)
) Date: 27/06/23