

**MEMORANDUM OF UNDERSTANDING**  
**BETWEEN**  
**THE UK SPACE AGENCY**  
**AND**  
**NATIONAL SPACE AGENCY OF THE REPUBLIC OF**  
**KAZAKHSTAN**  
**REGARDING COOPERATION IN THE EXPLORATION AND**  
**USE OF OUTER SPACE FOR PEACEFUL PURPOSES**

The United Kingdom Space Agency (hereinafter referred to as “UKSA”) and the National Space Agency of the Republic of Kazakhstan (hereinafter referred to as “KAZCOSMOS”)

HAVING regard to the wishes of UKSA and KAZCOSMOS (hereinafter referred to as the “Participants”) to cooperate on space activities for their mutual benefit;

CONSIDERING the common interest of the United Kingdom and the Republic of Kazakhstan in the use of space technologies for peaceful purposes;

RECOGNISING the advantages and benefits arising from international cooperation in the space field;

HAVE REACHED THE FOLLOWING UNDERSTANDINGS

1. The purpose of the present Memorandum of Understanding (hereinafter – the Memorandum) is:

a) to provide a framework for collaborative activities and for reviewing areas of common interests in the civil aspects of space;

b) to facilitate the interchange of information, technology and personnel in areas of mutual interest;

c) to nominate relevant points of contact for both Participants;

2. Subject to the laws and regulations applicable to them, the Participants, through consultation, will decide upon the specific items and scope of cooperation within the framework of this Memorandum. Details of the proposed collaborative projects are as follow:

- a) UKSA will facilitate the training in the UK of Kazakhstan personnel in the field of satellite engineering and operations of a Surrey Satellites Technology Ltd. (SSTL) satellite. UKSA will fully engage with KAZCOSMOS regarding details of the training programme;
- b) UKSA will facilitate collaboration between the SSTL and the joint-stock company “National Company “Kazakhstan Gharysh Sapary” (KGS) organisations in the area of space projects for space science, technology demonstration, communication and navigation, and Earth Observation;
- c) KAZCOSMOS and UKSA will facilitate discussions between KGS and SSTL in relation to the Kazakhstan STSAT (scientific and technical spacecraft) and UK TDS series of technology demonstration satellites;
- d) KAZCOSMOS and UKSA will facilitate discussions in relation to a possible bilateral project based around the NovaSAR initiative, which already has attracted UK government support;

Other areas of cooperation may be identified by mutual arrangement of the Participants.

3. Both Participants acknowledge that any activities undertaken through the Memorandum will:

- a) comply with export controls in force on a case by case basis; and
- b) respect intellectual property rights

The Participants also acknowledge that the present Memorandum will place no financial or other obligation on either Government or Participant.

4. The participants will arrange meetings by mutual arrangement to review progress on the implementation of the present Memorandum. The persons nominated by the Participants as responsible for overseeing the implementation of the present Memorandum are as follows:

For UKSA: Elizabeth Cox - International Relations Officer,

For KAZCOSMOS: Denis Sidoruk – Deputy Director of the Department of International Cooperation

or such other person notified to the other Participant.

5. The present Memorandum may be amended and augmented by mutual consent of the Participants. The Participant wishing to make an amendment and augmentation will notify the other Participant in writing. Any amendment and augmentation will take effect when each Participant has notified the other Participant in writing of its consent to the amendment and augmentation.

6. The present Memorandum will come into effect on the date of signature by both Participants and will continue in operation until terminated by either Participant giving six months' written notice to the other.

Signed in duplicate in London on March 7<sup>th</sup> 2013 in the English language.

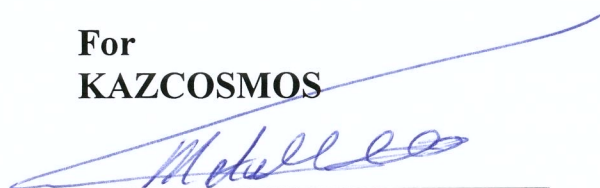
**For**  
**The UK Space Agency**



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**Dr David Parker**  
**Chief Executive**

**For**  
**KAZCOSMOS**



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**Dr. Talgat Mussabayev**  
**Chairman**



**ADDENDUM-1  
TO THE  
MEMORANDUM OF UNDERSTANDING  
BETWEEN  
THE NATIONAL SPACE AGENCY OF THE REPUBLIC OF KAZAKHSTAN  
AND  
THE UK SPACE AGENCY  
REGARDING COOPERATION IN THE EXPLORATION AND USE OF  
OUTER SPACE FOR PEACEFUL PURPOSES**

The National Space Agency of the republic of Kazakhstan (hereinafter referred to as “KAZCOSMOS”) and the United Kingdom Space Agency (hereinafter referred to as “UK Space Agency”)

NOTING the existence of a Memorandum of Understanding between UK Space Agency and KAZCOSMOS regarding cooperation in the exploration and use of outer space for peaceful purposes signed in London on 7<sup>th</sup> March 2013;

NOTING the role of the UK Space Agency in supporting the research and development of a new space radar imaging system, the “NovaSAR constellation” under development by an industrial consortium led by Surrey Satellite Technology Limited (SSTL);

HAVING regard to the wishes of KAZCOSMOS to participate in this “NovaSAR constellation” programme.

HAVE REACHED THE FOLLOWING UNDERSTANDINGS

1. KAZCOSMOS will participate in the “NovaSAR constellation” as the owner of one of the “NovaSAR constellation” satellites through an agreement to be reached between SSTL and a legal entity based in Kazakhstan.
2. Under this agreement, the SSTL-led consortium will design and construct a NovaSAR satellite.
3. Under this agreement, the SSTL-led consortium will provide know-how transfer and training in the fields of radar satellite design and construction, processing of radar data and applications making use of radar data to a group of Kazakhstan engineers and scientists.

Signed in duplicate in Astana on 1st July 2013 in the English language.

**For  
KAZCOSMOS**

  
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**Dr. Talgat Mussabayev,  
Chairman**

**For  
The UK Space Agency**

  
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**Dr. David Parker,  
Chief Executive**