



ISTITUTO NAZIONALE DI GEOFISICA E VULCANOLOGIA

il Direttore

Gestione WEB

**Istituto Nazionale di Geofisica
e Vulcanologia
AOO INGV**

Protocollo Generale - U

N 0000473

del 11/01/2019

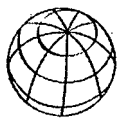


Ai Direttori dei Dipartimenti
Ai Direttori delle Sezioni
Al Direttore della Direzione Centrale Affari Generali e Bilancio
Al Responsabile del Centro Servizi per il coordinamento delle attività
a supporto della Ricerca
All'Ufficio Bilancio
Alla Segreteria della Presidenza

Oggetto: Pubblicità atti

Si notifica in copia l'allegata Delibera n. 722/2018 del 30/11/2018 – Allegato H al Verbale n. 10/2018 concernente: *Memorandum of Understanding between University of Nottingham, Istituto Nazionale di Geofisica e Vulcanologia (INGV), e SpacEarth Technology + altri.*

Tullio PEPE



Delibera n. 722/2018

Allegato H al Verbale n. 10/2018

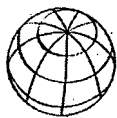
Oggetto: *Memorandum of Understanding between University of Nottingham, Istituto Nazionale di Geofisica e Vulcanologia (INGV), SpacEarth Technology + altri.*

IL CONSIGLIO DI AMMINISTRAZIONE

- **VISTO** il Decreto legislativo 29 settembre 1999, n. 381, concernente la costituzione dell'Istituto Nazionale di Geofisica e Vulcanologia (INGV);
- **VISTO** il Decreto legislativo 25 Novembre 2016, n. 218, recante "*Semplificazione delle attività degli Enti Pubblici di Ricerca ai sensi dell'art. 13 della Legge n. 124/2015*";
- **VISTO** lo Statuto dell'Istituto Nazionale di Geofisica e Vulcanologia approvato con Delibera n. 424/2017 del Consiglio di Amministrazione, in data 15 settembre 2017 - pubblicato sulla Gazzetta Ufficiale della Repubblica Italiana - Serie Generale n. 27 del 02 febbraio 2018 in particolare l'art. 8, comma 6, lettera f), il quale prevede che il CdA "*...delibera la partecipazione a società, fondazione e consorzi, nonché la stipulazione di accordi con organismi nazionali, europei e internazionali*";
- **VISTO** il Regolamento di Organizzazione e Funzionamento dell'Istituto Nazionale di Geofisica e Vulcanologia emanato con Decreto del Presidente n. 45 del 21/02/2018 e pubblicato sul sito istituzionale;
- **VISTO** il Regolamento di Amministrazione, Contabilità e Finanza pubblicato sulla Gazzetta Ufficiale della Repubblica Italiana - Serie Generale n. 119 del 14 maggio 2018 e pubblicato sul sito istituzionale;
- **VALUTATA** l'opportunità di sottoscrivere il *Memorandum of Understanding between University of Nottingham, Istituto Nazionale di Geofisica e Vulcanologia (INGV), SpacEarth Technology + altri*;
- **CONSIDERATO** che le Parti, con il presente Memorandum, istituiscono una cooperazione internazionale, con l'obiettivo di promuovere e rafforzare la collaborazione reciproca con particolare riferimento alla stesura di una proposta di progetto per la prossima call H2020 "SU-SPACE-EGNSS-3-2019-2020: EGNSS applications fostering societal resilience and protecting the environment";
- **VISTI** i pareri favorevoli dei Direttori di Sezione e di Dipartimento,

DELIBERA

L'approvazione dello schema del *Memorandum of Understanding between University of Nottingham, Istituto Nazionale di Geofisica e Vulcanologia (INGV),*



SpacEarth Technology + altri, allegato alla presente quale parte integrante e sostanziale (all. 1).

Viene dato mandato al Presidente dell'INGV alla sottoscrizione definitiva dell'atto in questione.

Letto, approvato e sottoscritto seduta stante.

Roma, 30/11/2018

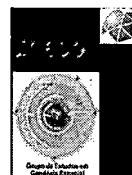
La segretaria verbalizzante
(Sig.ra Silvana TUCCI)

Silvana Tucci

IL PRESIDENTE
(Prof. Carlo DOGLIONI)



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Memorandum of Understanding

Between

University of Nottingham of University Park, Nottingham NG7 2RD, United Kingdom (**UNOTT**)

and

Istituto Nazionale di Geofisica e Vulcanologia (INGV) of Via di Vigna Murata 605, 00143 Rome-Italy

and

SpaceEarth Technology Srl (SET) of Via di Vigna Murata 605, 00143 Rome-Italy

and

Geo++ Gesellschaft für satellitengestützte geodätische und navigatorische Technologien mbH (Geo++) of Steinriede 8, 30827 Garbsen, Germany

and

Alezi Teodolini (Alezi) of Av. Paulo VI, n:184, CEP: 01262-010, São Paulo, Brazil

and

São Paulo State University in Presidente Prudente (UNESP) of Street Roberto Simonsen, 305, city Presidente Prudente, São Paulo State, Brazil

This Memorandum of Understanding (MOU) sets for the terms and understanding between University of Nottingham, Istituto Nazionale di Geofisica e Vulcanologia, SpaceEarth Technology, Geo++ GmbH, Alezi Teodolini and São Paulo State University in Presidente Prudente to consolidate a long term cooperation framework.

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Background

The network PEARL (Precise Position Estimation for Applications in Real-time at Brazilian Latitudes) has received a grant by the EU project INCOBRA in order to carry out various activities and meetings in order to consolidate a fruitful bilateral cooperation (EU/BR) in the "Bioeconomy, Food security and sustainable agriculture" sector.

INCOBRA (<https://www.incobra.eu/>) is a three-year Horizon 2020-funded project seeking to increase Research and Innovation (R&I) cooperation activities between Brazil (BR) and the European Union (EU) while enhancing framework conditions and addressing BR-EU R&I priorities areas for bilateral cooperation.

INCOBRA aims to facilitate R&I collaboration and to tackle challenges by implementing key activities that will support policy dialogue, promote coherence and coordination on funding schemes, raise awareness and support bilateral R&I cooperation networks. The INCOBRA project is run by a consortium of 13 European and Brazilian organisations coordinated by bilateral R&I cooperation network.

The network PEARL was a new network created for the purpose of the INCOBRA call. The network has 9 members encompassing Universities in the UK (UNOTT, in Nottingham) and in Brazil (UNESP, Sao Paulo State in Presidente Prudente, and UNEMAT, Mato Grosso state in Sinop), a research institute (INGV) and an SME (SET) in Italy, a research centre (SRC) in Poland and another 3 SMEs, in Germany (Geo++) and Brazil (AT, in Sao Paulo, and MCE, in Belo Horizonte, Minas Gerais state).

Purpose

This MOU has the objective to foster and strengthen the mutual cooperation between the actors of the cooperation, and will have the following objectives:

- Develop and submit a proposal to H2020 that will bring to market an enhanced real time high accuracy GNSS positioning service that can be piloted within the precision agriculture market in Brazil;
- The H2020 call of choice is "SU-SPACE-EGNSS-3-2019-2020: EGNSS applications fostering societal resilience and protecting the environment". One of the challenges in this call relates to "Precision agriculture, mapping and surveying", where it quotes specifically 'minimising the impact on the environment (e.g. fertiliser use and air quality)'.

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- Exploit the network expertise and past intranet collaborations to develop at least one highly competitive proposal that addresses one of the priority areas of the INCOBRA call, i.e. "Bioeconomy, Food security and sustainable agriculture";
- Tailor our strategy taking on board input from the Brazilian sector through face to face discussions in Brazil and in Europe, enabled by the INCOBRA funding;
- Ensure the strength of the above is based on a cross-disciplinary framework that stands from long term collaboration among some of the PEARL's partners while taking advantage of the expertise of new ones;
- Ensure the proposal(s) is driven by the commercial interest of PEARL's partners Geo++, Alezi Teodolini and SpacEarth

The above goals will be accomplished by undertaking the following activities:

- Month 1: face to face 1-day meeting in Rome, with Brazilian partners in teleconference, to discuss:
 - State of the art of research on high accuracy GNSS positioning
 - Necessary resources to carry out the proposed research (data, software, hardware, personnel)
 - Assessment of commercial interests of Geo++, AT, MCE and SET
 - Define roles/tasks for next meeting on month 3
- Month 3: 3-day event in São Paulo, where:
 - Day 1: the network meet to review plans internally and finalise preparations to showcase them the following day;
 - Day 2: workshop with key Brazilian actors in precision agriculture, ethanol production, automated machinery, high-accuracy surveying, including academia and government; Brazilian actors provide short presentations on their business/research; we expose our ideas and gather feedback/support;
 - Day 3: internal discussions on final arrangements towards (H2020) proposal preparation, incorporating insight from previous day; the network may be enlarged if there is mutual interest involving new partners ; individual contributions to the proposal are agreed
- Month 4: teleconference to appraise the status of our proposal
- Month 5 and month 6: two check-points on proposal development via teleconference; detailed agenda definition for meeting on month 7
- Month 7: 3-day face to face brainstorm meeting in Rome, involving:
 - Detailed review of the status of our proposal
 - In-depth discussion on potential improvement to our proposal,

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- Agreement on individual tasks for final proposal preparation and submission
- Month 8 and month 9: appraise the status of the final proposal development via teleconference;
- Month 10 and month 11: two check-points on proposal development via teleconference;
- Month 12: submission of the proposal to H2020 (closing date: 05 March 2019)

This MOU is not intended to be legally binding and creates no relationship of joint venture or limited partnership, and gives neither party any right or authority to assume or create any obligation on behalf of the other.

The parties agree that in the event that any intellectual property is created, it shall be owned by the party that created them, but each Party shall have the right to use such intellectual property for publication, academic research and teaching purposes.

The parties shall remain liable for any losses or liabilities incurred due to their own or their employee's actions and no other party shall be liable for any loss it suffers as a result of this MoU

Duration

This MOU is at-will and may be modified by mutual consent of authorized officials from University of Nottingham, Istituto Nazionale di Geofisica e Vulcanologia, SpacEarth Technology, Geo++ GmbH, Alezi Teodolini and São Paulo State University in Presidente Prudente.

This MOU shall become effective upon signature by the authorized officials from the University of Nottingham, Istituto Nazionale di Geofisica e Vulcanologia, SpacEarth Technology, Geo++ GmbH, Alezi Teodolini and São Paulo State University in Presidente Prudente and will remain in effect until modified or terminated by any one of the partners by mutual consent.

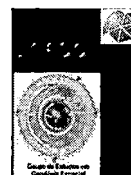
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University of Nottingham

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Istituto Nazionale di Geofisica e Vulcanologia

Signature.....

name

Position.....

Date.....

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SpacEarth Technology

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name

Position.....

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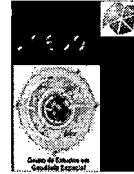
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Geo++ GmbH

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Alezi Teodolini

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São Paulo State University in Presidente Prudente

Signature.....

name

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