

Demonstrátor 2019

Získejte 50.000 eur

na uvedení
kosmické
technologie
do pozemního
využití

Technologické centrum AV ČR
Ve Struhách 27
28. 3. 2019 14:00 – 16:00

Registrace: http://geform.tc.cz/seminar_demonstrator_2019 ➔



ESA SPACE SOLUTIONS DOWN TO EARTH

**Ing. Pavel Habarta, DiS.
ESA Technology Transfer Broker**

Získejte jako třetí v ČR až 50.000 EUR pro uvedení kosmické technologie do pozemního využití

AGENDA

- **ESA Technology Transfer Broker**
- **ESA BIC Prague**
- **Speed dating**
- **Success stories**
- **Demonstrator Competition 2019**
- **ESA EMITS**



space solutions



SPACE
TECHNOLOGIES

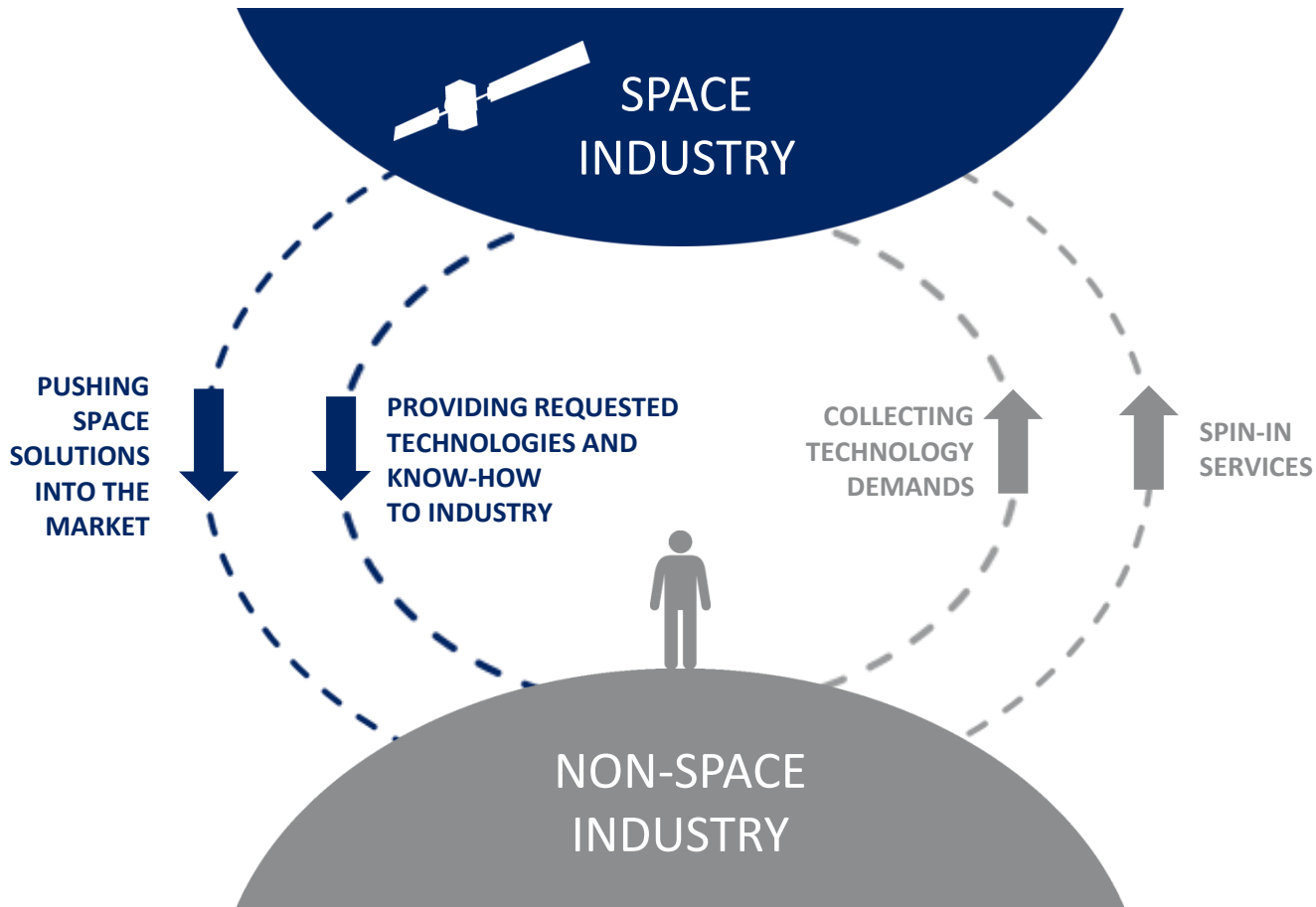


The space you need to get your business off the ground

BROKER ROLE



space solutions



BROKER ROLE

Technology Needs – Form (V.2015-2-28)

Title <i>Mandatory</i> <i>1-255 characters</i>	<i>A clear title that conveys the nature of the technology sought</i>
Technology Categories <i>Mandatory, select</i>	<i>Be aware to that a search may be conducted using keywords alone</i>
TTN Reference No <i>Assigned by Prime</i>	<i>Unique identifier</i>

Date of Submission of the Request:

Deadline to submit Responses:

Broker Company Name:

Country:

Broker Lead Manager Name:

Telephone:

E-mail:

Technology Description Template (V.2018-03-23)

Title <i>Mandatory</i> <i>1-255 characters</i>	<i>The title of the offer should be clear and meaningful for persons who are not experts. Readers should easily be able to find out if the Technology Offer is interesting for them.</i>
Keywords <i>Mandatory</i> <i>1-255 characters</i>	<i>Please fill in keywords which will</i>

Notes:

- Boxes marked in blue will be published on ESA online market place. (spacesolutions.esa.int)
- Boxes marked in grey are mandatory, confidential and for internal use only.
- The Form should be filled in in English.
- Text in *blue* was added to support filling in the Form.
- Brokers are requested to select technology & market keywords on the spacesolutions.esa.int website

Entity Profile (Technology Provider)

Fill in applicable contact info

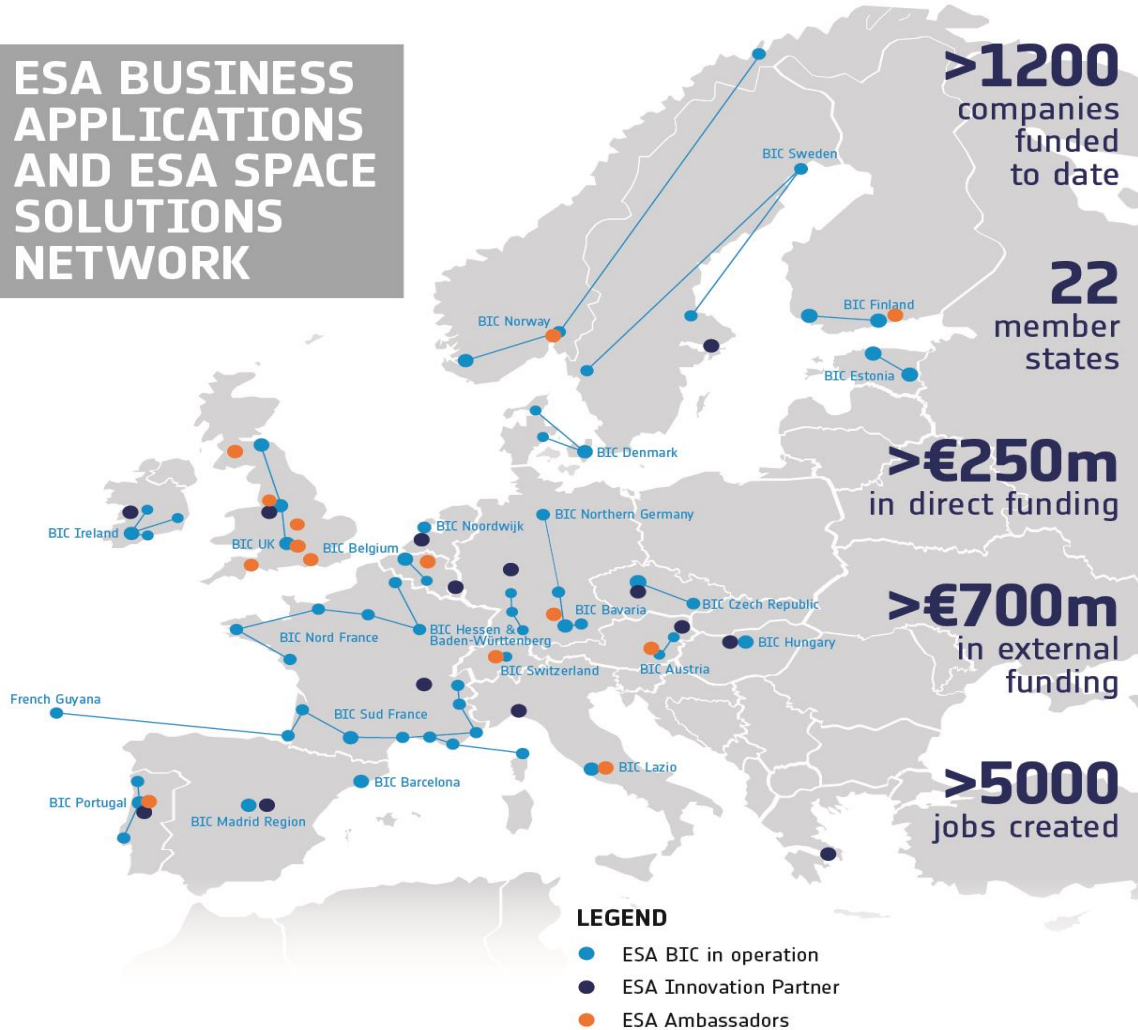
Entity	Contact Person
City	Position
Country	Contact Person Email
Street	Telephone
Postal Code	Fax
Website	General Email
Type of entity	<input type="checkbox"/> Small or Medium enterprise <input type="checkbox"/> Multinational enterprise
<i>Mandatory</i>	<input type="checkbox"/> Large national enterprise <input type="checkbox"/> Inventor
<i>Select 1 option only</i>	<input type="checkbox"/> University <input type="checkbox"/> R&D institution
	<input type="checkbox"/> Other

ESA SPACE SOLUTION NETWORK



space solutions

→ ESA BUSINESS APPLICATIONS AND ESA SPACE SOLUTIONS NETWORK



HOW CAN YOU GET YOUR BUSINESS OFF THE GROUND?

14. 11. 2018, 12:00 – 16:00 hodin
Hvězdárna a planetárium Brno →
Moderuje: Pavel Habarta

5. ročník Gate2Space 2018

Zapojení českých subjektů do kosmických aktivit

Program

12:00	Přivítání (2 min.) Pavel Habarta, TC AV ČR	13:55	Nové technologie pro vesmír (10 min.) Adam Bláček, Technologické centrum AV ČR
12:02	Uvodní slovo (10 min.) Václav Kobera, MD ČR	14:05	Praktická aplikace kosmických technologií (10 min.) Pavel Habarta, TC AV ČR
12:05	Jak pracuje ESA? (15 min.) Ondřej Šedý, MD ČR	14:15	Obnova technologií (10 min.) Ondřej Rohák, MD ČR
12:08	Veřejný ESA Technology Transfer Brno v roce 2018 (10 min.) Pavel Habarta, TC AV ČR	14:25	Nové technologie (10 min.) Ondřej Rohák, MD ČR
12:30	Pracovníci ESA (15 min.) Ondřej Šedý, MD ČR	14:40	Praktický vývoj (10 min.) Josef Sobota, MD ČR
12:45	ESA a její projekty (15 min.) Josef Sobota, MD ČR	14:55	Praktický vývoj (10 min.) Josef Sobota, MD ČR
13:00	Diskuse o spolupráci ESA a ČR (15 min.) Josef Sobota, MD ČR	15:10	Výhled na příštích letech (10 min.) Ondřej Šedý, MD ČR
13:15	ESA a její projekty (15 min.) Josef Sobota, MD ČR		

Gate2Space 2018 je záležen do bloku Czech Space Week →
Registrace: http://inform.tcz.cz/gate2space_2018

1. 12. 2015, 10:00 – 17:00 hodin
Technologické centrum AV ČR, Ve Struhách 1076/27, Praha 6

Gate2Space 2015

Zapojení českých subjektů do kosmických aktivit

Program

Dopolední blok		Odpolední blok	
10:00 – 10:20	Úvodní slovo Ing. Karel Kuchařka, Ředitel TC AV ČR a Radek Václav Kobera, Ředitel Oddělení ITS, Kosmický aktiv a VAVÚP, MD ČR	13:30 – 14:20	Koncový program ESA pro vědu a výzkum a jeho dopadový tlak pro programy na výsky SPACE ECOSYS Mgr. Ondřej Měsíček, TC AV ČR, Ing. Ondřej Šedý, MD ČR
10:20 – 10:50	Informační výměna výzkumných organizací kosa (10 min.) JANA Václav Kobera a Miroslav Kozlák, MD ČR, Ing. Radek Ludvík, VAVÚP	14:20 – 15:00	Společný výzkum – ESA a české subjekty Ing. Vladislav Šalný, Solentis s.r.o.
10:50 – 11:20	ESA Technology Transfer Brno Ing. Pavel Habarta, TC AV ČR	15:00 – 15:20	Praktický vývoj – ESA a české subjekty Ing. Richard Pavlica, Ph.D., DM s.r.o.
11:20 – 11:40	ESA Technology Transfer Brno Ing. Pavel Habarta, TC AV ČR	15:20 – 15:40	ESA a české subjekty Ing. Martin Šimeček, GSA
11:40 – 12:10	ESA Technology Transfer Brno Ing. Pavel Habarta, TC AV ČR	15:40 – 16:10	ESA a české subjekty Ing. David Lábek, ESO Space s.r.o.
12:10 – 12:30	Praktický vývoj (10 min.) Ing. Tomáš Čertek, Space Systems Czech s.r.o.	16:10 – 17:00	Obilnice Industriální kooperace

7. 12. 2017, 10:00 – 16:45 hodin
Technologické centrum AV ČR, Ve Struhách 27, Praha 6
Moderuje: Pavel Habarta

Gate2Space 2017

Zapojení českých subjektů do kosmických aktivit

Program

Dopolední blok		Odpolední blok	
10:00	Úvodní slovo Václav Kobera (MD ČR)	13:00	Obilnice zůstává Tomáš Žáček (Sonda Astu Digital)
10:10	Informační výměna výzkumných organizací kosa (10 min.) Josef Sobota (MD ČR)	13:10	Praktický vývoj (10 min.) Pavel Habarta (TC AV ČR)
10:30	ESA Technology Transfer Brno – přehled výsledků za rok 2017, úroveň za rok 2018 Pavel Habarta (TC AV ČR)	14:05	Praktický vývoj (10 min.) Pavel Habarta (TC AV ČR)
10:40	10 let ESA a ČR v ESA, přehled o 10 letech na spolupráci v 2017 Jiří Amelík (TC AV ČR)	14:15	Praktický vývoj (10 min.) Pavel Habarta (TC AV ČR)
11:00	Praktický vývoj (10 min.) Marek Alford (ESA BIC Prague)	14:25	Praktický vývoj (10 min.) Pavel Habarta (TC AV ČR)
11:15	Přehled o 10 letech ESA a ČR: pracovníci ESA Ondřej Šedý (MD ČR)	14:40	Praktický vývoj (10 min.) Pavel Habarta (TC AV ČR)
11:40	Přehled o 10 letech ESA a ČR: obilnice zůstává a spolupráce v 2017 Josef Sobota (MD ČR)	14:55	Praktický vývoj (10 min.) Pavel Habarta (TC AV ČR)
12:10	Společný obilnice	15:00	Obilnice zůstává

http://inform.tcz.cz/gate2space_2017

14. 12. 2016
ČSOB INSPIRACE
JUNGMANNOVO NÁMĚSTÍ 767
110 00 PRAHA 1

esasa business incubation centre
CZECHINVEST ULM TRH

Vesmír je nám blíže, než se může na první pohled zdát. Spousta technologií a systémů, které využíváme v každodenním životě, bylo původně navrženo pro kosmické využití. SPACEPRAGUE vám přiblíží propíjení a potenciál kosmických inovací v běžném životě.

THE ART OF SPACE GATE2SPACE

KOMUNIKAČNÍ PLATFORMA PRO PODPORU PODNIKÁNÍ A INOVACÍ

ESA BIC PRAGUE
END-OF-YEAR CONFERENCE

HOW CAN YOU GET YOUR BUSINESS OFF THE GROUND?



esa
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**DEMONSTRATOR COMPETITION 2016
WORKSHOP / 22. 9. 2016 / 15:00 - 17:00**

TECHNOLOGICKÉ CENTRUM AV ČR
VE STRUHÁCH 1076/27
PRAHA 6

Technologické centrum AV ČR
space solutions

OPEN CALL FOR DEMONSTRATORS
Get funding to demonstrate space technology
for your commercial earthly application

apply before 11 AUGUST 2017 12 P.M. CET

Visit our website for more info
www.spacetechnology.be/open-call-2017



**Demonstrátor
2019**
Získejte 50.000 eur

na uvedení
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do pozemního
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Technologické centrum AV ČR
Ve Struhách 27
28. 3. 2019 14:00 - 16:00

Registrace: http://gefom.t.cz/seminar_demonstrator_2019

Technologické centrum AV ČR
esa
space solutions
Ministerstvo dopravy

Získejte jako třetí v ČR až 50.000 EUR pro uvedení kosmické technologie do pozemního využití

AGENDA

- ESA Technology Transfer Broker
- **ESA BIC Prague**
- Speed dating
- Success stories
- Demonstrator Competition 2019
- ESA EMITS

<http://www.esa-bic.cz/>



Úvod O nás Novinky Inkubace Mentoři Startupy Projekty Soutěže Kontakty

ESA Business Incubation Centre Prague

Prostor pro vaše hvězdné nápady

ESA BIC Prague
PROSTOR PRO VAŠE HVĚZDNÉ
NÁPADY

Koho hledáme? Poskytovaná podpora

Získejte jako třetí v ČR až 50.000 EUR pro uvedení kosmické technologie do pozemního využití

AGENDA

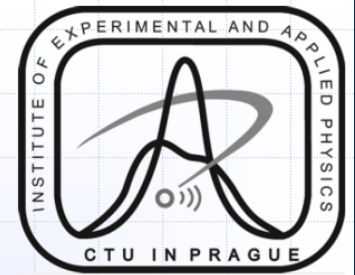
- ESA Technology Transfer Broker
- ESA BIC Prague
- **Speed dating**
- Success stories
- Demonstrator Competition 2019
- ESA EMITS



Získejte jako třetí v ČR až 50.000 EUR pro uvedení kosmické technologie do pozemního využití

AGENDA

- ESA Technology Transfer Broker
- ESA BIC Prague
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- **Success stories**
- Demonstrator Competition 2019
- ESA EMITS



EARTH APPLICATION OF TIMEPIX SPACE RADIATION MONITOR IN A CENTRALIZED NETWORK

Benedikt Bergmann

On behalf of the Institute of Experimental and Applied Physics,
Czech Technical University in Prague

THE ADMINISTRATIVE SIDE



I AM A VICTIM OF
MY OWN ADMINISTRATION

- Total volume: 38 kEUR
- (Internal) meetings: 3
- Email communications with Verhaert:
 - Received: 15
 - Sent: 21
- Internal Emails (incl. SURO):
 - 44 (total)

REPORTS AND BUDGET CLAIMS

	Nov. 2016	Dec. 2016	Jan. 2017	Feb. 2017	March 2017	April 2017
WP1	←→					
WP2			←→			
WP3				←→		
WP4						←→
WP5	←→					

1. monthly report

2. monthly report

3. monthly report

4. Monthly report

Midterm report
 Delivered Dec. 5, 2016
 Approved Dec. 23, 2016

Budget claimed:
 15.1 kEUR

(max. 50% of total)

Final report
 Delivered May 15

Budget claimed:
 38 kEUR

Získejte jako třetí v ČR až 50.000 EUR pro uvedení kosmické technologie do pozemního využití

AGENDA

- ESA Technology Transfer Broker
- ESA BIC Prague
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- **Demonstrator Competition 2019**
- ESA EMITS

Získejte jako třetí v ČR až 50.000 EUR pro uvedení kosmické technologie do pozemního využití

Rádi bychom vás informovali, že ESA vyhlásila výzvu „**Technology Transfer Demonstrator Competition 2019**,” která vám umožní financovat projekt transferu kosmické technologie do pozemní aplikace. Letos je vyhlášena obdobná výzva „**Feasibility study**,” která vám umožňuje zpracování studie proveditelnosti výše zmíněného transferu technologie. Jelikož je termín ukončení přijímání projektů **16.4.2019 (13:00)**, pořádáme **TT Demonstrator Competition 2019 Workshop** v předstihu, abyste se dozvěděli, jak je výzva zaměřená a jak napsat úspěšnou žádost o financování. Letos bude čas i na individuální konzultace.

DEMONSTRATOR

Technology Transfer Demonstrator projects support the transfer of space technology to terrestrial applications where there is a strong commercial or societal benefit and there is a clear technical risk that can be eliminated.

DEMONSTRATOR



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ANO, PŘÁTELÉ, BOJ S BYROKRACIÍ BUDE POKRAČOVAT, JAK PROHLÁSIL DRUHÝ SEKRETÁŘ
TŘETÍHO TAJEMNÍKA PRVNÍHO NÁMĚSTKA.

DEMONSTRATOR

- *Both space and non-space companies can request funding up to 50.000 euro to develop a technology transfer demonstrator.*
- *The Technology Transfer Demonstrators are directed specifically towards the determination and elimination of technical risk particular to the new terrestrial application.*
- *Space technology includes hardware, software, know-how, procedures, methodologies, systems, services ...*
- *The projects be executed in maximum 6 months*
- *Deadline: 12:59pm 16th of April 2019*
- *Documents:*
 - <http://emits.sso.esa.int/emits/owa/emits.main>*
 - Google Chrome (x IE)*
 - provést registraci v tendrovém portále ESA EMITS*
- *Open to all ESA member states*
- *Draft Contract*
- *Tendering conditions EXPRO/EXPRO+*
- *Invitation to tender*
- *Clarifications – FAQ...*

DEMONSTRATOR

User: esabc00 - Bid Manager

ESA Open Invitation To Tender [\[ER\]](#)

AO9760

Title: OPEN CALL FOR PROPOSALS FOR TECHNOLOGY TRANSFER FEASIBILITY STUDIES AND TECHNOLOGY TRANSFER PROOF OF CONCEPTS

Open Date: 05/03/2019

Closing Date: 16/04/2019 13:00:00

Status: ISSUED

Reference Nr.: [19.135.01](#)

Prog. Ref.: TTP

Budget Ref.: E/0902-01 - TTP

Special Prov.: BE+DK+FR+DE+IT+NL+ES+SE+CH+GB+IE+AT+NO+FI+PT+GR+LU+CZ+RO+PL+EE+HU

Tender Type: C

Price Range: 200-500 KEURO

Products: Non Space Procurement / Services

Technology Domains: Others

Establishment: ESTEC

Directorate: Directorate of Tech, Eng. & Quality

Department: Systems Department

Division: Techno.Transfer & Bus.Incub. Office

Contract Officer: Houten, Marnix

Industrial Policy Measure: N/A - Not apply

Last Update Date: 20/03/2019

Update Reason: Loaded a new Clarification(English version)

The objective of this Open Call is to finance Technology Transfer Feasibility Studies and Proof of Concepts in order to prove the relevance of a technology/know-how for another technology fields as well as reduce the technical risk and confirm the market opportunity. Through this Call, the Agency invites Tenderers to submit proposals for feasibility studies and proof of concepts regarding the transfer of a space technology into a non- space application.

- [Letter of Invitation, 695027 Bytes](#)
- [Contract Conditions, 844628 Bytes](#)
- [Tender conditions, 458654 Bytes](#)

Expand All Collapse All
Floating Menu Home

Zobrazit vše X

User: esabic00 - Bid Manager

- News
- Procurement Review Board Announcements
- Open Invitations to Tender
- Intended Invitations to Tender
- Reference Documentation
- ECOS Resources
- Search Invitations to Tender
- Management of Expressions of Interest

Expand All Collapse All Floating Menu Home

Status: ISSUED
Reference Nr.: [19.135.01](#)
Prog. Ref.: TTP
Budget Ref.: E/0902-01 - TTP
Special Prov.: BE+DK+FR+DE+IT+NL+ES+SE+CH+GB+IE+AT+NO+FI+PT+GR+LU+CZ+RO+PL+EE+HU
Tender Type: C
Price Range: 200-500 KEURO
Products: Non Space Procurement / Services
Technology Domains: Others
Establishment: ESTEC
Directorate: Directorate of Tech, Eng. & Quality
Department: Systems Department
Division: Techno.Transfer & Bus.Incub. Office
Contract Officer: Houten, Marnix
Industrial Policy Measure: N/A - Not apply
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- [Letter of Invitation, 695027 Bytes](#)
- [Contract Conditions, 844628 Bytes](#)
- [Tender conditions, 458654 Bytes](#)
- [Clarification-e 1, 52433 Bytes](#)
- [Clarification-e 2, 160268 Bytes](#)

Transfer selected documents as

[Express Interest](#)

[Current Expression of Interest](#)

[Create Bidder 8000007118 Workarea - Reference Nr. 19.135.01](#)

DEMONSTRATOR

ESA UNCLASSIFIED - For Official Use

Appendix 1 to
ESA ITT AO/1-9760/19/NL/MH
ESA Contract No. 4000xxxxxx/19/NL/MH/KdJ
Page | 2

DRAFT CONTRACT

Between:

The EUROPEAN SPACE AGENCY,
(hereinafter called "the Agency" or "ESA"),

having its seat at: 24 rue du Général Bertrand,
CS 30798,
75345 Paris CEDEX 7,
France,

represented by its Director General, Mr Johann-Dietrich Wörner,
acting through its establishment:

The European Space Research and Technology Centre (ESTEC),
located at: Keplerlaan 1,
2201 AZ Noordwijk,
The Netherlands,

of the one part,

and:

.....,
(hereinafter called "the Contractor"),

whose Registered Office is at:

.....,
.....,
.....,

represented by its, Ms/Mr,

of the other part,

DEMONSTRATOR

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estec

European Space Research
and Technology Centre
Keplerlaan 1
2201 AZ Noordwijk
The Netherlands
T +31 (0)71 565 6565
F +31 (0)71 565 6040
www.esa.int

Responsible Contracts Officer
Mr Marnix Houten (IPL-PTS)
Tel. +31 71 565 8834
Fax +31 71 565 5773
E-mail: Marnix.Houten@esa.int

Subject: Invitation to Tender for Open Call for Proposals for Technology Transfer Feasibility Studies and Technology Transfer Proof of Concepts

REF.: AO/1-9760/19/NL/MH

Activity No. 1000025216 in the “esa-star” system

ITEM No.: 19.135.01 in the List of ESA Intended Invitations to Tender

BUDGET LINE: E/0902-01-K-01

CATEGORY: ESA EXPRESS PROCUREMENT (EXPRO+) / OPEN-COMPETITIVE

Dear Sir or Madam,

The European Space Agency (“the Agency”) hereby invites you to submit a proposal, in the frame of the Open Call for Technology Transfer Proposals.

This Invitation to Tender (ITT) has been established and will be processed following the approach, tailored to low- to medium-value procurement actions, called “EXPRESS PROCUREMENT Plus – EXPRO+” and a competitive evaluation procedure will be used.

Your tender is required to conform to the conditions specified in this letter and in the applicable appendices.

Your tender shall be submitted **exclusively in electronic format via the “esa-star” system** [see: <https://esastar.sso.esa.int>]. The EXPRO/Tender Conditions (Appendix 2 hereto) contain further information on “esa-star” and its operation.

Cover Letter ESA AO/1-9760/19/NL/MH
Page 1 / 11

European Space Agency
Agence spatiale européenne

V9-4 – November 2018
ESA UNCLASSIFIED – For Official Use



Appendix 2 to
ESA ITT AO/1-9760/19/NL/MH
Tendering Conditions (EXPRO/TC)
Page | 1

EUROPEAN SPACE AGENCY – ESA EXPRESS PROCUREMENT PROCEDURE – “EXPRO” / “EXPRO+” TENDERING CONDITIONS (“EXPRO/TC”)

NOTE

For the purposes of “EXPRO” and “EXPRO+” categories of Requests for Proposal (RFP) and Invitations to Tender (ITT) aimed, respectively, at the placing of contracts for low- to medium-value procurements through a simplified tendering procedure, the Agency’s ESA Procurement Regulations (ESA/REG/001, rev. 4) shall be the applicable regulatory framework, as specified, amended or supplemented by these EXPRO TENDERING CONDITIONS (“EXPRO/TC”). The list of adopted waivers from the ESA Procurement Regulations can be found in Annex I hereto.

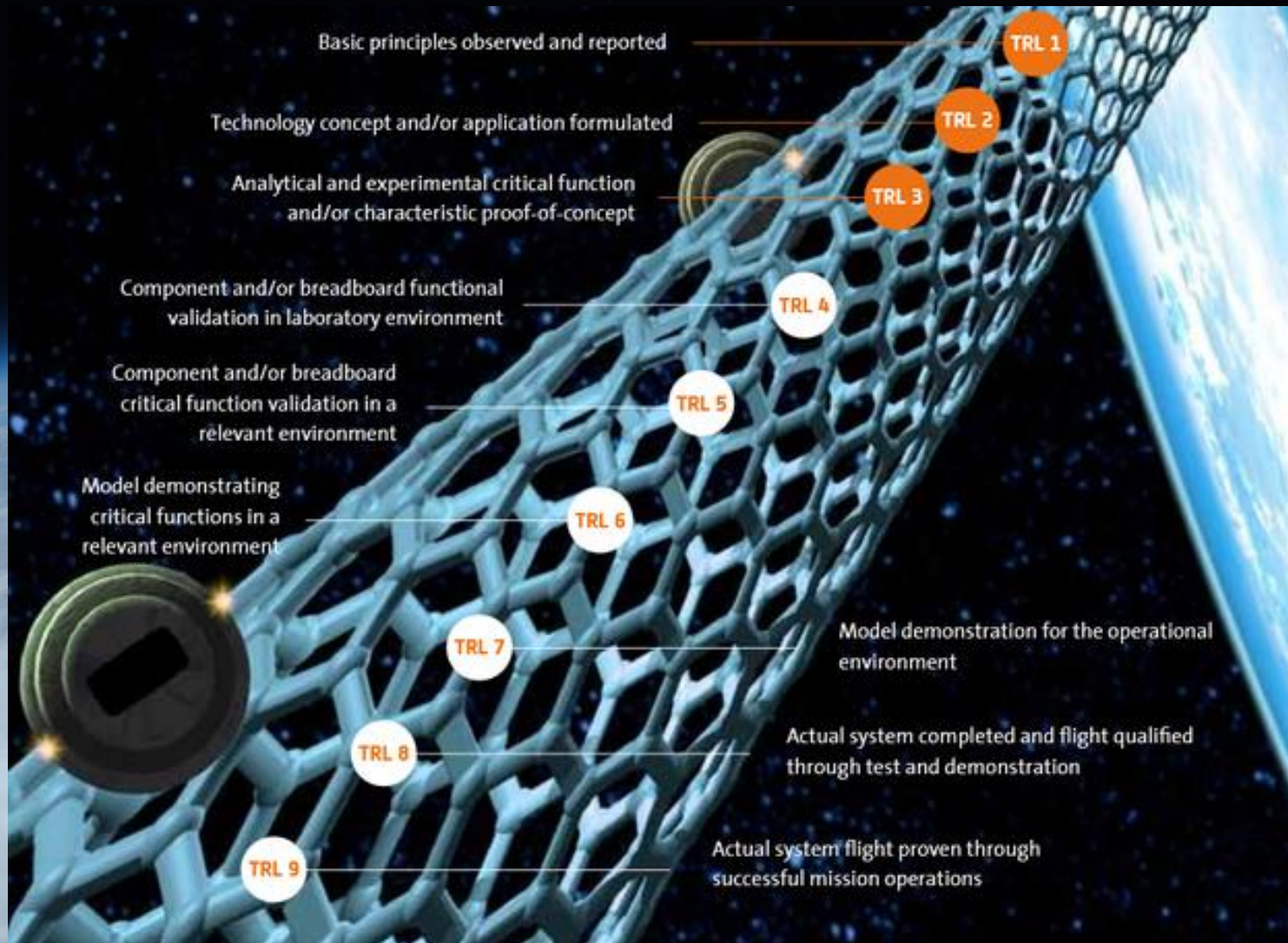
In the event of conflict between the ESA Procurement Regulations and the EXPRO/TC, the EXPRO/TC shall prevail.

All the applicable requirements for the submission and the contents of tenders are set forth in the following documents:

- This document, containing all the applicable general requirements concerning tenders submitted for all EXPRO/EXPRO+ procurement actions (“EXPRO TENDERING CONDITIONS or, in short, EXPRO/TC and attached to the RFP/ITT as Appendix 2) and
- a “Proposal Template” or an “RFP Response Template”, specific to each RFP/ITT, which constitutes the latter’s Appendix 3; such document lists all specific tender conditions and relevant costing forms as well as all the statements and certifications which are required from any Tenderer in an offer to ESA.

Tenderers are requested to include personal data as part of their tender as described in the “Proposal Template” or “RFP Response Template” regarding proposed Key Personnel and regarding contact details. The Agency, while not being subject to national or international laws on Personal Data Protection, ensures a high level of

European Space Agency
Agence spatiale européenne



DMEN Level	“Demand Readiness Level” (Paun, F., 2011)	Description Technology Readiness Level	TRL Level
1	Occurrence of a Feeling “something is missing”	Market certification and sales authorisation	9
2	Identification of a specific need	Product Industrialisation	8
3	Identification of the expected functionalities for the new Product/Service	Industrial Prototype	7
4	Quantification of the expected functionalities	Field demonstration for the whole system	6
5	Identification of the systemic capabilities (including the project leadership)	Technology development	5
6	Translation of the expected functionalities into needed capabilities to build the response	Laboratory demonstration	4
7	Definition of the necessary and sufficient competencies and resources	Research to prove feasibility	3
8	Identification of the Experts possessing the competencies	Applied research	2
9	Building the adapted answer to the expressed need on the market	Fundamental research	1

DEMONSTRATOR

- *Template for Technology Transfer Demonstrators Proposals*

PROPOSAL for proof of concept / feasibility study

Proposal template

Cover Letter

Executive Summary

Detailed proposal for transfer demonstrator

Additional comments

Letter of Intent from technology receiver / interested party

<https://emits.sso.esa.int/emits-doc/ESTEC/ProposalTemplate/ept9760-3a.docx>

<https://emits.sso.esa.int/emits-doc/ESTEC/ProposalTemplate/ept9760-3b.docx>

DEMONSTRATOR

- *Using space technologies for terrestrial applications*

The demonstrator projects involve the development and testing of European space technology or know-how in non-space applications, with the aim to achieve a technology transfer. In the technology transfer demonstrators it is expected that the potential receiver of the technology is involved in the project and is willing to work in the endeavor to bring a space technology to a non-space product/application. Demonstrators are meant to reduce the risk of using space technologies in other applications, thus projects that have not already proved the potential use in the proposed (or similar) non-space application, will have a higher potential of selection.

DEMONSTRATOR

25. 3. 2019

EMITS Invitation To Tender System

Current Expressions of Interest

AO9760

(Open from 05/03/2019 to 16/04/2019, 19.135.01)

OPEN CALL FOR PROPOSALS FOR TECHNOLOGY TRANSFER FEASIBILITY STUDIES AND TECHNOLOGY TRANSFER PROOF OF CONCEPTS

This list shows the entities that expressed interest in the current item, and chose *Public* visibility. The list is divided into two parts:

1. Companies having expressed interest through EMITS
2. Companies considered by ESA as being able to compete for all or part of the intended procurement.

Note that interest expressed *before* the time when the possibility to choose the visibility was offered, will be considered public.

If your entity (even through a different EMITS username) expressed interest in this item, then the name of your entity is shown in red; however, it will be **invisible** to other users if it was not marked as public - in this case, your entity is shown here for your convenience only, with the indication of the visibility selected, if any, and with the list of EMITS users that expressed interest in this item.

In order to allow potential bidders to have a good understanding of the possible partners for this procurement, the interested entities below have been classified under the following colls:

- **Large** Companies with 250 staff or more, or an annual turnover equal to or greater than 40MECU
- **Small** Companies with less than 250 staff, and annual turnover of less than 40 MECU
- **SME** Small company, independent from large companies (definition as per Recommendation of the European Commission 96/280/CE of 3 April 1996, Official Journal No. L 107/8, 30 April 1996)
- **R&D** University, Laboratory, Research Centre
- **Other** Miscellaneous

See [the ESA European Space Industry Directory](#), providing the capabilities of European space industry

Part 1: Companies having expressed interest on the intended procurement through the EMITS Expressions of Interest. [Click here to get a printout with all the specialisation fields of the interested companies](#)

Preferred role (Prime/Sub)	Entity name	Business Unit Name	Type of entity	Specialisation Area	Contact Person Telephone Fax Email Address	Business Unit Address	WEB
Prime	INTELLIGENTIA SRL	INTELLIGENTIA SRL	Medium-sized		Luca Germano Tel: (+39) 08241774728 luca.germano@intelligentia.it	Via del Pomario 82100 Benevento	http://http://
Prime	Composi-tech Sp. z o.o.	Composi-tech Sp. z o.o.			Michał Sobolewski Tel: (+48) 533272063 m.sobolewski@composi-tech.com	Stachowa 04-894 Warsaw	http://http://
Ether	Quanta Engineering Ltd	Quanta Engineering Ltd			Paul Houghton Tel: (+44) 79558883070 Paulhoughton65@googlemail.com	Exploration Drive LE4 5NU Leicester	
Ether	Pangea Aerospace S.L.	Pangea Aerospace S.L.			April Aguerri Tel: (+34) 650 336 807 contact@pangeaerospace.com	Pau Claris 08037 Barcelona	http://https://www
Ether	SmartAcc Technology	SmartAcc Technology	Medium-sized		Rudi LENZEN Tel: (+32) 5 61302745 Rudi.Lenzen@smartacc.com	Rue des Coquelicots 31830 PLAISANCE DU TOUCH	http://http://
Prime	Complutum Tecnologías de la Información Geográfica S.L.	Complutum Tecnologías de la Información Geográfica S.L.		Evapotranspiration modeling Radiative Transfer Model inversion LIDAR Onp modeling	Hector Nieto Tel: (+34) 655454901 hector.nieto@complutig.com	Calle Ordicia 28041 Madrid	http://http://
Ether	SPACEMEDEX	SPACEMEDEX	Medium-sized		Yacine Kenyouch Tel: (+33) 695906318 yacine.kenyouch@spacemedex.com	Route des Dolines 06560 Valbonne Sophia-Antipolis	http://http://w

DEMONSTRATOR

Part 1: Companies having expressed interest on the intended procurement through the EMITS Expressions of Interest
Click here to get a printout with all the specialisation fields of the interested companies

Preferred role (Prime/Sub)	Entity name	Business Unit Name	Type of entity	Specialisation Area	Contact Person Telephone Fax Email Address	Business Unit Address	WEB
Prime	INTELLIGENTIA SRL	INTELLIGENTIA SRL	Medium-sized		Luca Germano Tel: (+39) 08241774728 luca.germano@intelligentia.it	Via del Pomerio 82100 Benevento	http://http://
Prime	Composi-tech Sp. z o.o.	Composi-tech Sp. z o.o.			Michal Sobolewski Tel: (+48) 533272063 m.sobolewski@composi-tech.com	Szachowa 04-894 Warsaw	http://http://
Either	Quanta Engineering Ltd	Quanta Engineering Ltd			Paul Houghton Tel: (+44) 7895888070 Paulhoughton65@googlemail.com	Exploration Drive LE4 5NU Leicester	
Either	Pangea Aerospace S.L.	Pangea Aerospace S.L.			Adrià Argemí Tel: (+34) 680 336 807 contact@pangeaaerospace.com	Pau Claris 08037 Barcelona	http://https://www
Either	SmartAcc Technology	SmartAcc Technology	Medium-sized		Rudi LENZEN Tel: (+33) 5 61302745 Rudi.Lenzen@smartacc.com	Rue des Coquelicots 31830 PLAISANCE DU TOUCH	http://http://
Prime	Complutum Tecnologías de la Información Geográfica S.L.	Complutum Tecnologías de la Información Geográfica S.L.		Evapotranspiration modelling Radiative Transfer Model inversion LIDAR Crop modelling	Hector Nieto Tel: (+34) 655464901 hector.nieto@complutig.com	Calle Ordicia 28041 Madrid	http://http://
Either	SPACEMEDEX	SPACEMEDEX	Medium-sized		Yacine Benyoucef Tel: (+33) 695906318 yacine.benyoucef@spacemedex.com	Route des Dolines 06560 Valbonne Sophia-Antipolis	http://http://w

DEMONSTRATOR

- Process (in 2018)

First all proposals will be checked by an Opening Board, if formal requirements accomplished. When compliant, the Tender Evaluation Board (ESA, VERHAERT, stakeholders and experts) will evaluate the proposals on the selection criteria. The Board will inform the applicant of the evaluation in writing. The 10 proposals with the highest marks will be selected for negotiations.

DEMONSTRATOR

- Evaluace (v roce 2018)

Current Development Status

Has the space technology been developed sufficiently for a technology transfer to non-space application. It is necessary to look both in the TRL in space and the approximate for non-space. High TRL level in space is expected. (15%)

Attractiveness of Non-Space Market

Attractiveness of Non-Space Market – an estimate of the size of technology's final application/market and its potential value in commercial or societal terms. Credibility of the potential access to market will be assessed. (20%)

Novelty and Intellectual Property *The novelty of the technology in its non-space application and the consequent competitive advantage. The current status of the IPRs and the potential protection of the results. (20%)*

DEMONSTRATOR

- Evaluate

Project Feasibility

An estimate of the likelihood of the Technical Demonstrator achieving its technical objectives in the stated budget and a successful transfer in a reasonable time-frame. Compliance with the time frame proposed in the call. (25%)

The Need for a Technology Demonstrator

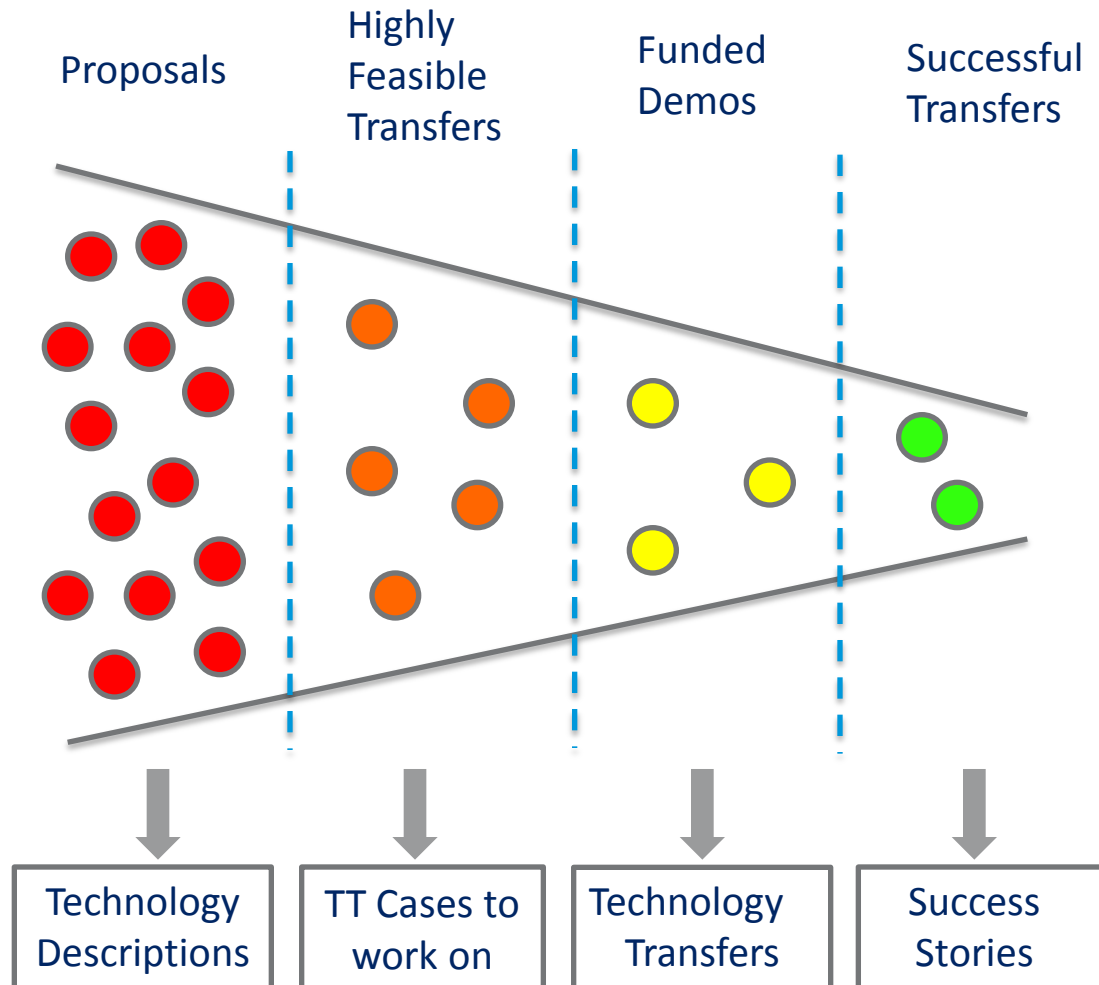
The likelihood and expected timing for the technical demonstrator to lead to the engagement of customers with the expected timing and the need of financial support by the Agency. To ensure that the demonstrator project can result in a technology transfer and commercial application a clear letter of support from a receiver is expected. (20%)

DEMONSTRATOR

*10 feasibility studies are available, for
€10.000 each*

*8 proof of concepts (former demo's)
are available, for €50.000 each*

IMPACT OF THE DEMONSTRATORS CALL



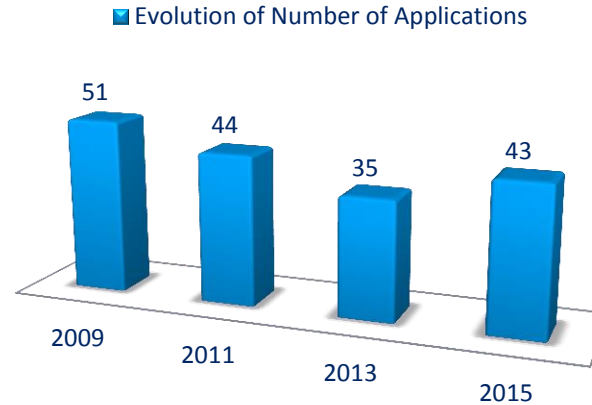
Outputs

DEMONSTRATORS IN NUMBERS

- NUMBER OF GENERAL CALLS: 3 (2009, 2011, 2013, 2015, 2016)

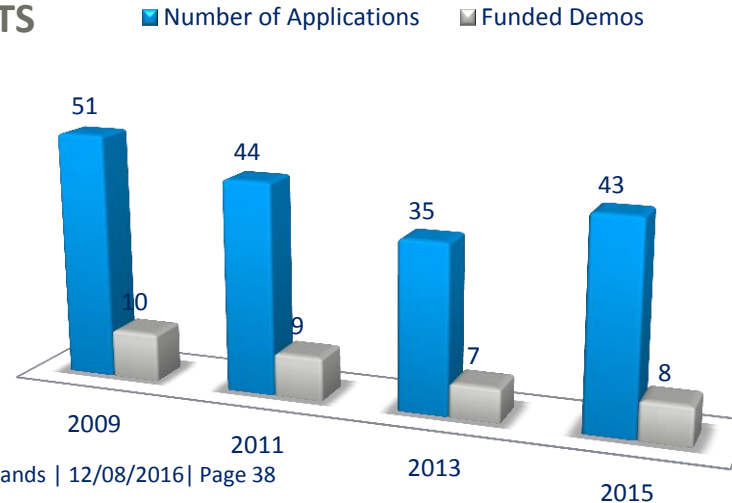
- NUMBER OF APPLICATIONS:

Evolution of Number of Applications



Applications vs Projects Funded

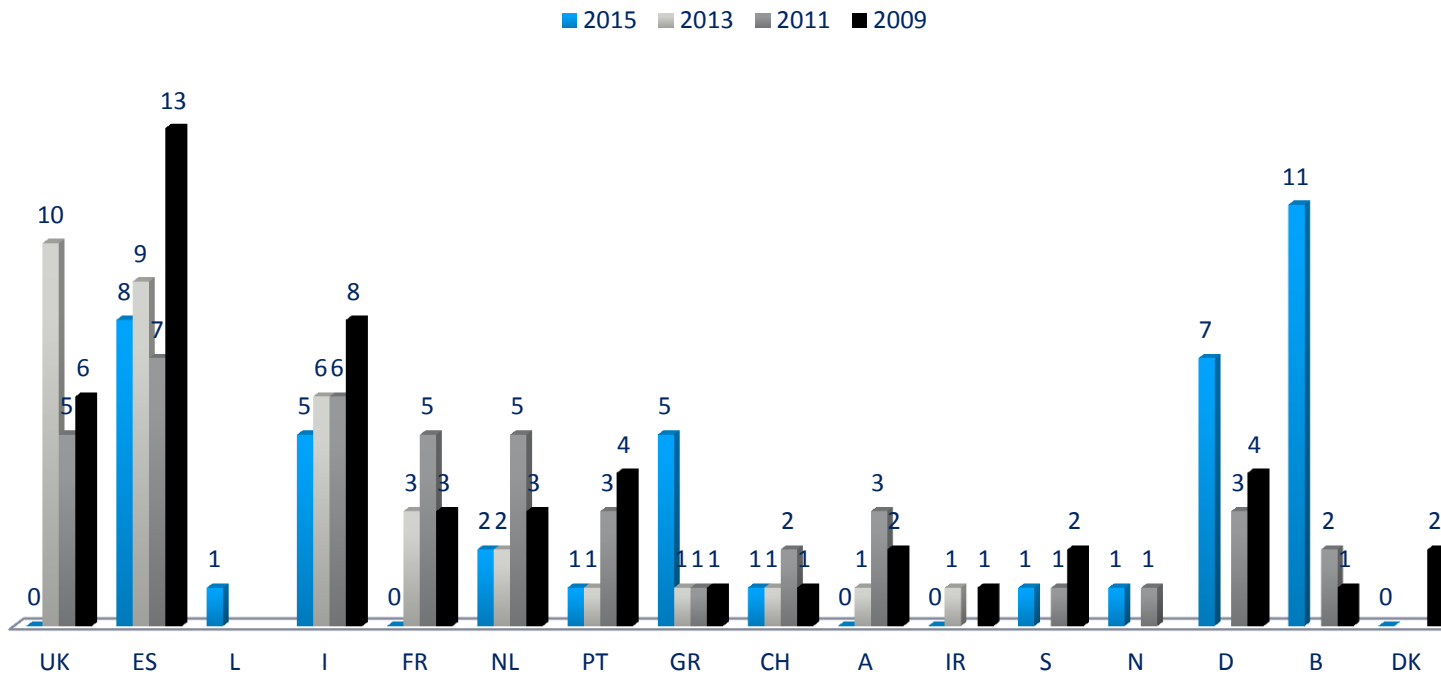
- NUMBER OF GRANTED PROJECTS



DEMONSTRATORS IN NUMBERS

- RESULTS OF THE DEMONSTRATORS CALLS

Applications by Country and Year

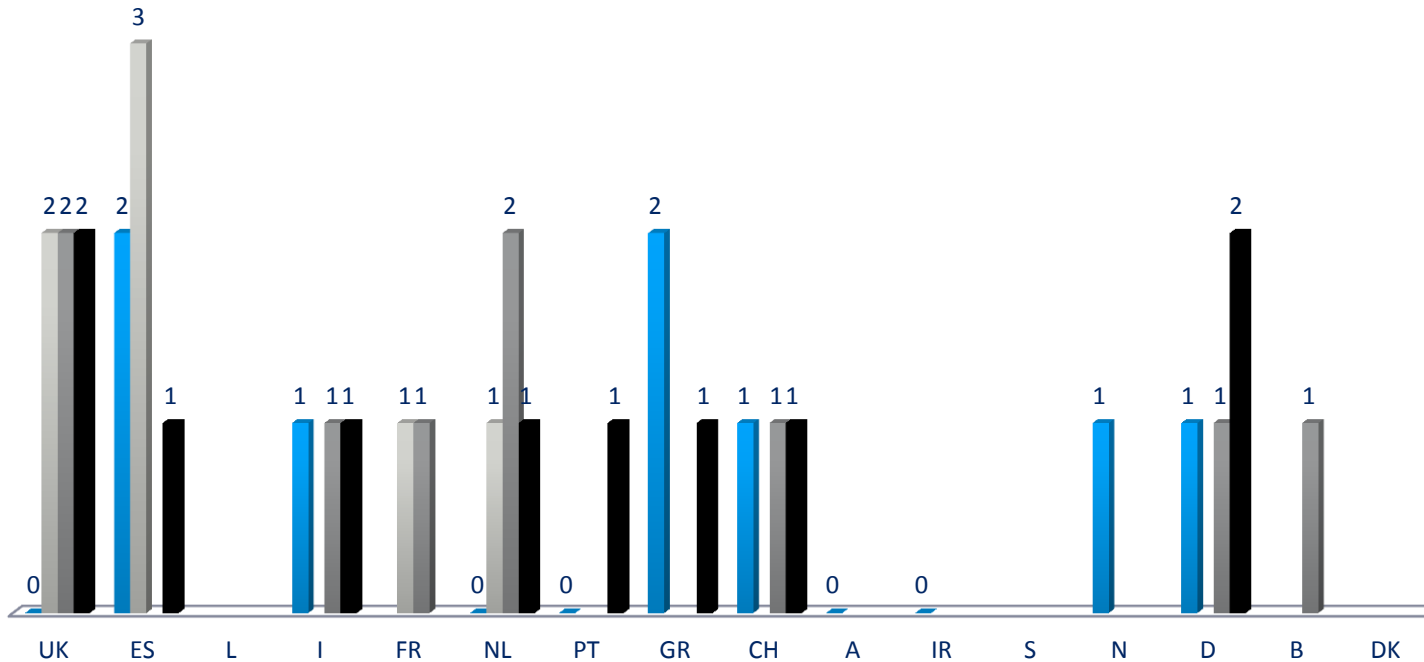


DEMONSTRATORS IN NUMBERS

- RESULTS OF THE DEMONSTRATORS CALLS

Projects Funded by Country and Year

■ 2015 ■ 2013 ■ 2011 ■ 2009



2. MAIN RESULTS – 2009

Company	Country	Title	Transfer Status	Description of the Status
Imperial College London	UK	High performance space science magnetometers adapted for Down-well operation in the Oil and Gas Sector	In process	Not yet a transfer but still in contact and the technology. UK broker supporting company
Sci Sys (UK) Ltd	UK	Drilling Operations Automation Demonstrator	Transferred	Improving oil and gas drilling using space software. Schlumberger utilized the technology.
Omnidea Lda.	PT	Reusable anesthetic liquid containers for medical applications	No	Omnidea informed that the technology was for medical helicopters of Magna. No final product developed because scale-up of the technologies was highly expensive.
cosine Science & Computing BV	NL	Hand-held High-Definition 3D camcorder Demonstrator	Transferred	Product in the market developed and commercialized by cosine
Stam s.r. l. Genova	I	LIGHT-GEAR-innovative gearbox system from space to ultra light sector	Transferred	Used by EUREN Italy in improvements in the production process of variable speed ratio mechanisms.
IMMG S.A.	GR	Multifunctional cellular sandwich panels for car/bus/coach bodies	No	Greek company found out that the solutions was too expensive for the target market
Inasmet	ES	Multifunctional electronic housings for light weight in aeronautic avionics	Transferred	Technology currently being used in a new product developed in the framework of a EU project
FormTech GmbH	D	VETIS- Pressure vessels with complex shape from high-strength an corrosion resistant titanium and steel alloys	No	Shaping a transition from rocket fuel to oil rigs. Product available for the oil and gas industry.
Max-Planck-Institut für extraterrestrische Physik	D	Hand Plasma Dispenser	Transferred	Zapping deadly bacteria using space technology. Used by a company currently incubated in ESA BIC Bavaria
CSEM	CH	PULSEAR-Innovative combination of music listening and heart rate monitoring	In process	Let me hear your heart beat. Technology being used in watches and devices but still evolving.

MAIN RESULTS – EXAMPLES

- **DEMONSTRATOR:** FLEXCOMP - DEVELOPMENT OF A FLEXIBLE MOULD FOR MANUFACTURING OF COMPOSITE MATERIAL COMPONENTS FOR AUTOMOTIVE AND AERONAUTIC FIELDS

- **FROM SPACE TO EARTH:** IN 2006 THE NASA ENGINEERING AND SAFETY CENTRE INVESTIGATED THE FEASIBILITY OF A COMPOSITE CREW MODULE FOR THE CREW EXPLORATION VEHICLE, WITHIN THE CONSTELLATION PROGRAM. DURING THIS RESEARCH, A SPECIAL DISCRETE TOOL WAS DEVELOPED, TO MANUFACTURE COMPONENTS MADE OF COMPOSITE MATERIAL. THE TARGETED MARKET OF THE FLEXCOMP SYSTEM IS THE COMPOSITE COMPONENTS MANUFACTURING, MAINLY FOR THE AUTOMOTIVE AND AERONAUTIC FIELDS, TAKING A SPECIAL DISCRETE TOOL THAT CAN BE RE-SHAPED. THE KEY TECHNOLOGY DEVELOPMENT CONSISTS IN USING FLEXIBLE RECONFIGURABLE MOULD THAT REDUCES DRASTICALLY THE COST AND TIME OF COMPONENTS MANUFACTURING.

- **CONTACT:** MS. STEFANIA AMADIO, STAM SRL, ITALY

- **CURRENT APPLICATION:** COLLABORATION WITH A COMPANY FOR EXPLOTATION IN CONSTRUCTION AND OTHER SECTORS. [ESA LINK](#)



MAIN RESULTS – EXAMPLES

- **DEMONSTRATOR:** PROTHERM - HIGH PERFORMANCE THERMAL PROTECTION SHIELDS OF THIN CORROSION RESISTANT STEEL SHEETS

- **FROM SPACE TO EARTH:** THERMAL PROTECTION (TP) IS CRITICAL FROM BOTH THE DESIGN AND THE MATERIAL POINT OF VIEW. FORMTECH GMBH IS INVOLVED IN THE DESIGN AND BUILD OF TITANIUM-ALLOY SANDWICH PANELS, WHICH CAN EASILY BE REPLACED, EVEN IN ORBIT.

THE TERRESTRIAL APPLICATION REFERS TO HEAT SHIELDS AROUND THE EXHAUST SYSTEM IN CAR ENGINES. THEY GET MORE AND MORE IMPORTANCE WITH INCREASING EXHAUST GAS TEMPERATURE AND THE REDUCTION OF DISTANCE GAPS BETWEEN THE HOT SECTION AND THE SURROUNDING STRUCTURE. METALLIC TP-SHIELDS CAN PROVIDE SIGNIFICANT ADVANTAGES FOR SUCH APPLICATIONS.

- **CONTACT:** MR. WERNER BECK, FORMTECH, GERMANY

- **CURRENT APPLICATION:** AUTOMOTIVE INDUSTRY



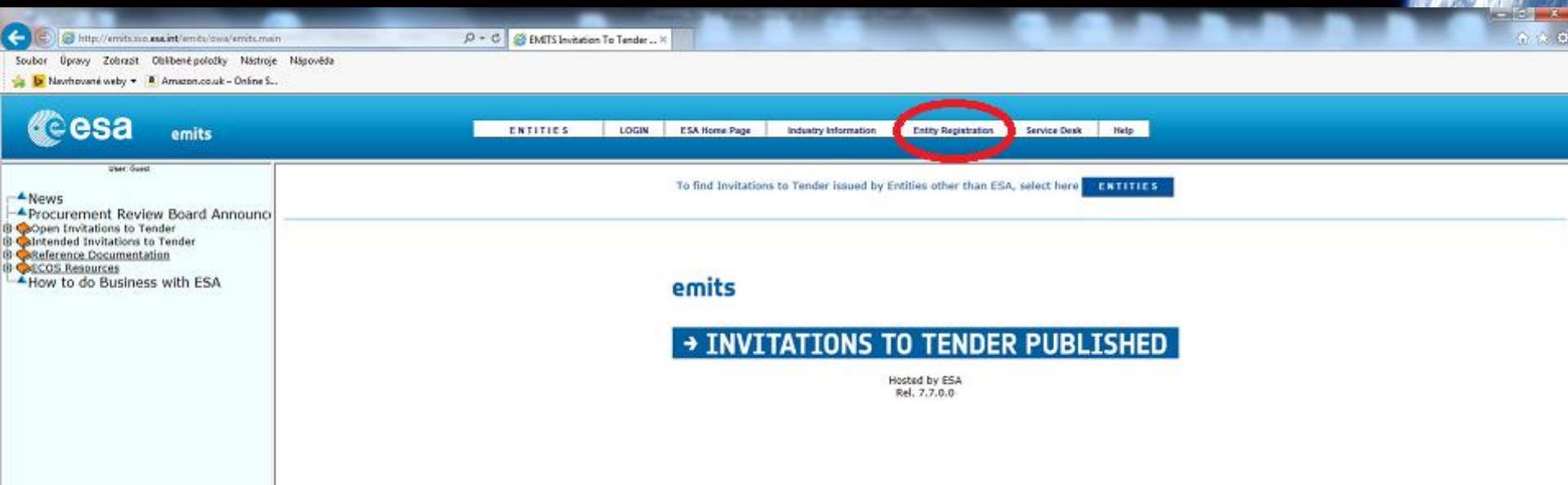
Získejte jako třetí v ČR až 50.000 EUR pro uvedení kosmické technologie do pozemního využití

AGENDA

- ESA Technology Transfer Broker
- ESA BIC Prague
- Speed dating
- Success stories
- Demonstrator Competition 2019
- **ESA EMITS**

ESA EMITS – TENDROVÝ PORTÁL: „ENTITY REGISTRATION“

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