

→ FUNDING & SUPPORT FOR
KICK-START
ENVIRONMENTAL CRIMES

OPPORTUNITY OPENS:
SEPTEMBER 2ND 2019

OPPORTUNITY CLOSES:
24TH JANUARY 2020

JOIN OUR WEBINAR
ENVIRONMENTAL CRIMES
OCTOBER 10TH 2019 15:00 (CEST)

Liz Barrow - Liz.Barrow@esa.int



→ **ENVIRONMENTAL CRIMES**
FUNDING UP TO €60K PER ACTIVITY



space solutions

business applications

Environmental Crimes

Welcome to the Environmental Crimes webinar!

Before we start...

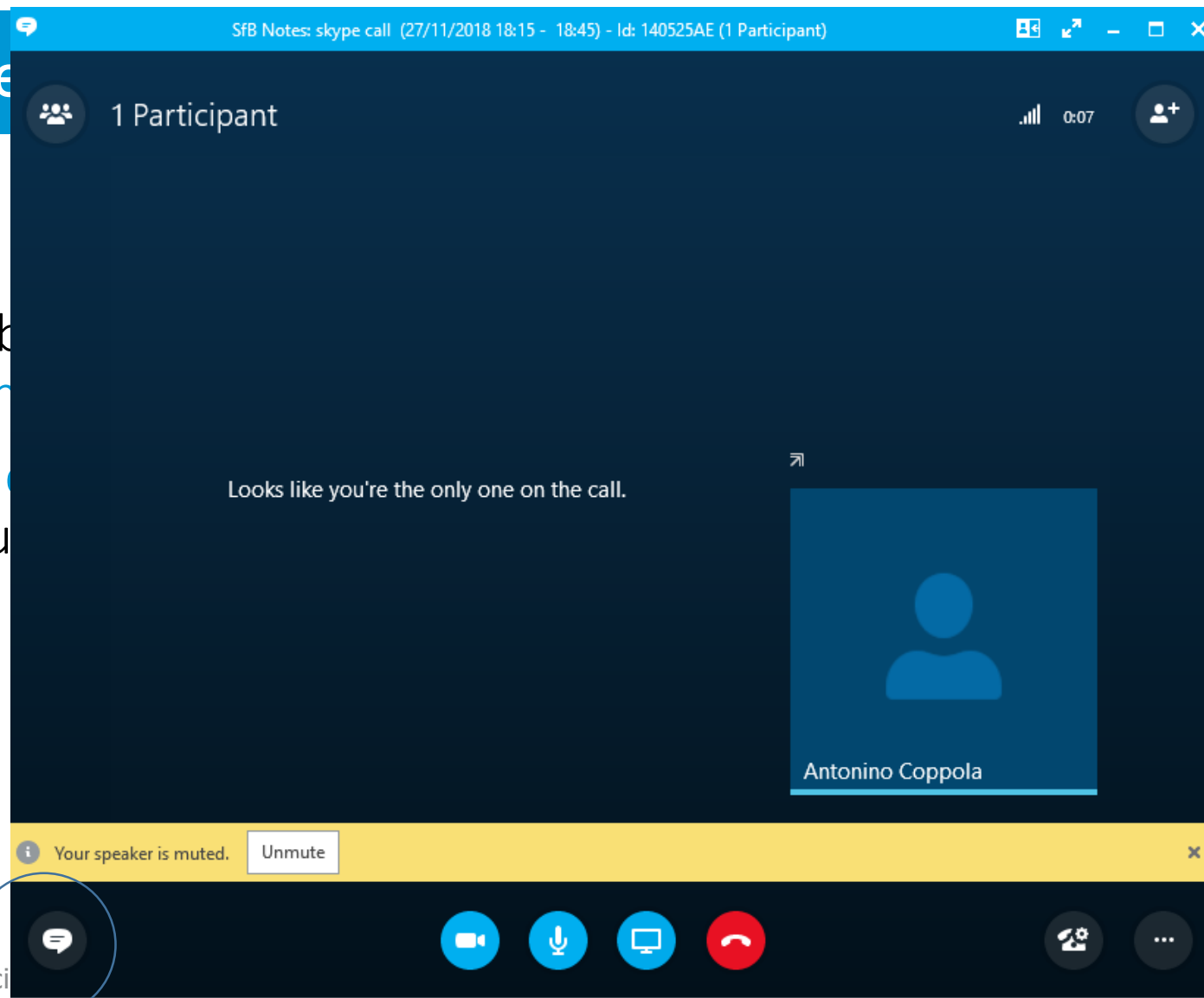
- Due to the number of attendees, **please keep your microphones muted at all times** and **switch off the webcam function**
- You can use the **conversation** function anytime to submit your questions. They will be addressed during the Q&A at the end of the webinar

Environmental Crimes

Welcome to the

Before we start...

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Environmental Crimes

WEBINAR AGENDA

- Introduction
 - What ESA offers
- Space for Environmental Crimes
- INTERPOL: Operation Thunderball
- Kick-start Activity essentials
 - Introduction to a Kick-start Activity
 - How to Apply
- Q&A



FUEL FOR YOUR BUSINESS

Can you leverage Space technology and data for the benefit of life on Earth?



WHAT ESA OFFERS

We'll work together to make your idea commercially viable, with:



Zero-Equity
Funding
(€60k-€2M+)



Tailored Project
Management
Support



Access to
Our Network
& Partners



Use of the
ESA Brand for
Credibility

Environmental Crimes

Opportunity

- The European Space Agency is offering **technical support** and **funding** to companies developing innovative and **commercial services** that use **space technology** to combat **environmental crimes**.
- To find out more:
<https://business.esa.int/funding/invitation-to-tender/enviromental-crimes>

Environmental Crimes

Environmental crime is the fourth largest criminal enterprise in the world and includes:

i) Crimes Impacting Environmental Quality

- Illegal land pollution - illegal waste dumping, waste burning and waste exporting
- Water-related crimes like water fraud, illicit water contamination and water theft
- Manipulation of carbon credits, and illegal emissions of hazardous gases.

ii) Crimes Affecting Wildlife

- Poaching and the unlawful trade of flora and fauna

iii) Crimes Damaging Natural Resources

- Illegal logging and charcoal trafficking
- Illegal, unreported and unregulated (IUU) fishing
- Illegal mining



→ THE POWER OF SPACE TO STOP ENVIRONMENTAL CRIMES



Satellite Navigation

GNSS can geo-tag data e.g. tracking wildlife via collars or tags and tracing goods like lorries carrying legitimate timber or fish stocks across the value chain.

Satellite navigation can track the movements of ships and vehicles to detect if anything illicit is occurring.



Earth Observation

EO satellites can provide images of hot spots where border crossings peak, as well as new roads, tracks and massed vehicles alluding to illicit smuggling or illegal trade.

EO data can monitor air quality and water quality and can detect precise changes on land (deforestation, new activity in a 'closed' mine, illegal waste dumping).

Earth Observation data can support mapping in the forestry sector and could support companies in obtaining certificates and carbon credits.



Satellite Communication

Satcom can provide data, video and voice communications connecting border patrol vehicles. This enables widely scattered forces to share information and images, and to operate as a single unit.

In remote areas, and where terrestrial networks are insufficient e.g. ships, mining sites, forests, satellite communications can provide secure connectivity.

Drones are also active in border patrols and, when flown via satellite by remote operators, they can capture images and videos from the field, effectively extending the reach of border control agencies for thousands of miles.

Drones can also help with mapping forests, land and coastal regions.



→ ENVIRONMENTAL CRIME PROJECTS FROM INTERPOL

INTERPOL Guest Speaker: Ioana Botezatu
I.BOTEZATU@interpol.int

194 MEMBER COUNTRIES CONNECTED THROUGH A SECURE NETWORK



INTERPOL

A GLOBAL STRUCTURE



INTERPOL



INTERPOL



GLOBAL POLICING CAPABILITIES

THREE CRIME PROGRAMMES

INTERPOL'S CRIME PROGRAMMES



We provide a range of policing expertise and capabilities to our member countries, supporting three main crime programmes:

COUNTER-TERRORISM

Assisting member countries to prevent and disrupt terrorist activities through the identification of individuals, networks and affiliates.

ORGANIZED AND EMERGING CRIME

Targeting and disrupting international criminal networks; identifying, analysing and responding to criminal threats.

CYBERCRIME

Making cyberspace safe for all by supporting member countries to prevent and investigate cyberattacks.

OPERATION THUNDERBALL 2019

Tackling illegal wildlife crime



109 countries



582 suspects arrested

1,828 seizures including:



545kg ivory



1.3t pangolin scales



9,777 live tortoises and turtles



604t and 2,551m³ timber



1.7t plants



4,304 live birds



9,820 marine species



1,422 live reptiles



→ ENVIRONMENTAL CRIMES KICKSTART: HOW TO APPLY

Environmental Crimes Kickstart

6 months duration

Up to **€60K ESA funding** (75% ESA co-funding)

Develop **business case** for commercially viable services

- **Customer Engagement**
- **Technical Feasibility Assessment**
- **Commercial Viability Assessment**

Environmental Crimes

Kickstart Timings


There are 3 Environmental Crime Themes.
Each theme has a different proposal submission deadline.

- ~~1. Environmental Quality: 2 Sep – 11 Oct 19~~
2. Poaching and Trafficking: 14 Oct – 30 Nov 19
3. Natural Resources: 2 Dec – 24 Jan 19

WHO CAN APPLY?

- The Thematic Calls for Kick-start Activities are [open to any company or organisation in participating Member States](#) (Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Luxembourg, the Netherlands, Norway, Poland, Portugal, Romania, Sweden, Switzerland and the United Kingdom).
- Kick-start activities resulting from Thematic Calls are funded at [75%](#) by the Agency for a maximum amount of [60,000 Euro](#) per activity.
- The Thematic Calls for Kick-Start Activities follow a [competitive tendering procedure](#). The evaluation criteria are published in the cover letter of the Call for Proposals.
- Germany, Luxembourg, Norway and the United Kingdom have pre-approved funding for this Kick-start theme. Switzerland is not supporting Kick-start Activities.

→ HOW TO APPLY 1/2

1. **Register** by completing online questionnaire on [ESA-STAR Registration](https://esastar-emr.sso.esa.int) (minimum 'light registration') (<https://esastar-emr.sso.esa.int>)
2. **Download** the official tender **documentation** from ESA EMITS from 2nd September 2019. <http://emits.sso.esa.int>
3. **Create** 'Bidder Restricted Area' in ESA-STAR
4. **Write your proposal** and obtain **Letter of Authorization** from your National Delegation. Contact information can be found at: <https://business.esa.int/national-delegations>.
5. **Submit** your proposal via 'Bidder Restricted Area' in [ESA-STAR Tendering](#) before the deadline. 

Any issues with ESA STAR contact esait.service.desk@esa.int.

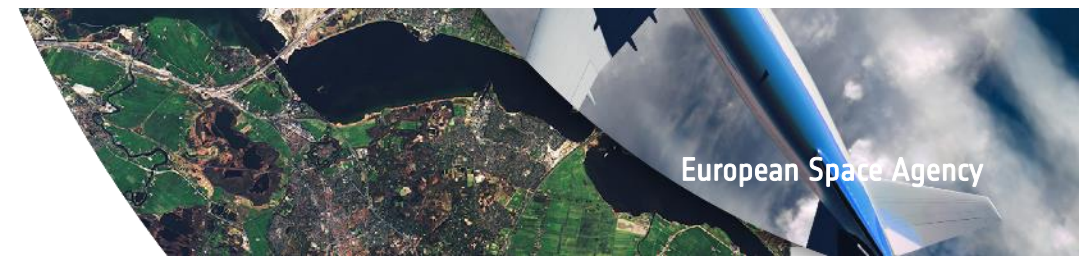


Proposal submission deadlines.

Environmental Quality: 2 Sep – 11 Oct 19

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→ HOW TO APPLY 2/2

The Letter of Invitation to Call for Proposals is issued on EMITS (<http://emits.sso.esa.int/emits/owa/emits.main>) and includes:

- **Cover letter**
- **Appendix 1:**
List of Thematic Calls for Ideas (including the calendar of the Thematic Call for Ideas and specific information on the themes)
- **Appendix 2:**
Draft Contract
- **Appendix 3:**
Tendering Conditions for Express Procurement Procedure - EXPRO/TC
- **Appendix 4:**
Proposal Template



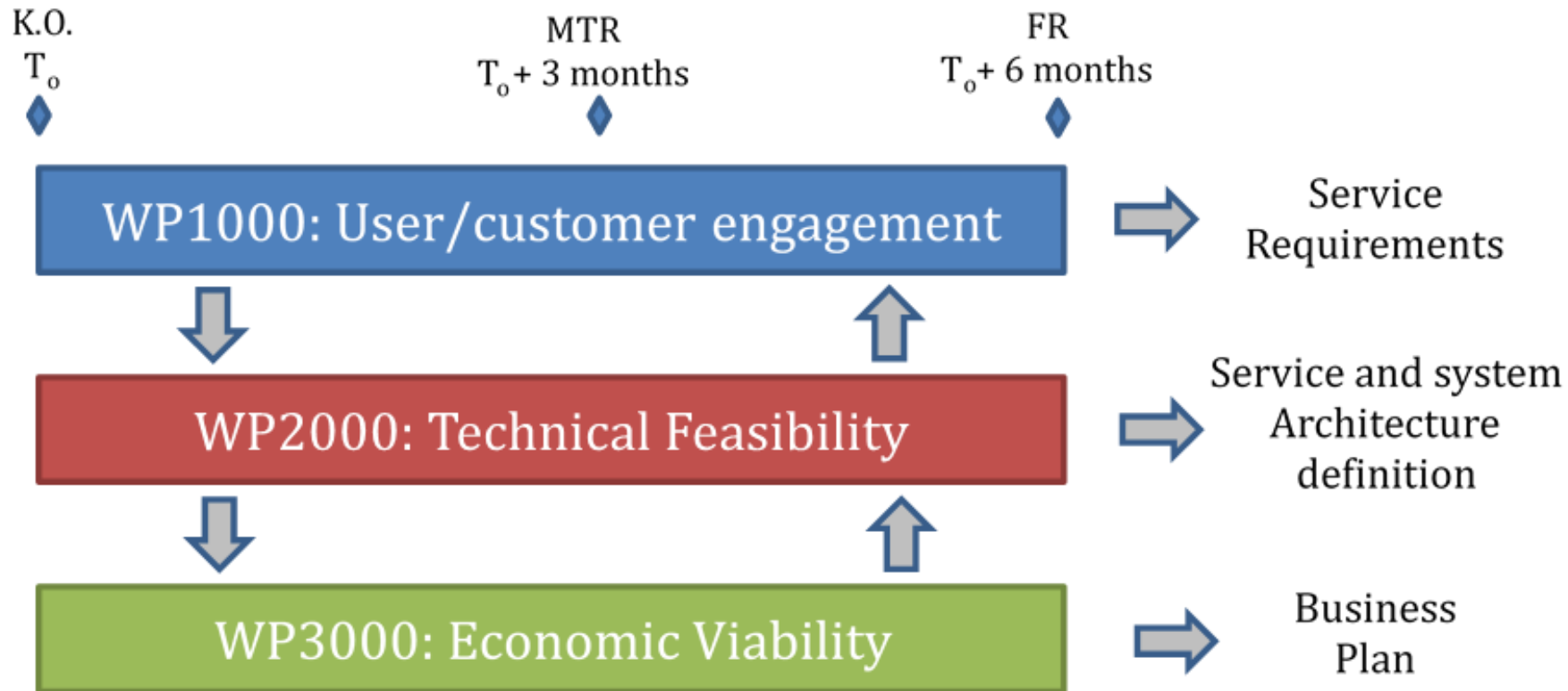
→ THE PROPOSAL TEMPLATE

Your Proposal shall include the following information:

- 1) Executive Summary (max 1 page)
- 2) Business Potential (max 5 pages)
- 3) Technical Concept (max 5 pages)
- 4) Team and Resources (max 3 pages)
- 5) Management (max 4 pages)
- 6) Financials (max 2 pages)

Kick-Start Activity

→ Study Tasks



...And another thing

ESA, UNICRI and Satellite Applications Catapult are organising a workshop

Name

Space-Enabled Applications for the Mining Sector

Organised by

ESA Business Applications, UNICRI, and Satellite Applications Catapult

Date

28 November 2019

Location

ESA's UK site (ECSAT)

Register for free here:

<https://www.eventbrite.com/e/space-enabled-applications-for-the-mining-sector-tickets-73089128551>





A large circular graphic in the center of the slide. It features a central image of the Earth from space. Surrounding the Earth are several semi-circular segments containing various images: a bar chart, a person running, a person in a wheelchair, a coastal landscape, a port with shipping containers, and agricultural fields. The entire graphic is set against a dark background with a starry space pattern.

→ THANK YOU FOR PARTICIPATING