

SUNSHINE Webinar

The SUNSHINE Project: Leveraging EU Space data and services for disaster resilience



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Agenda



Welcome & Introduction



The **SUNSHINE** project



The **SUNSHINE** trainings

Seminars, Webinars, Bilateral Meetings & Exercises

EWSS Technical Assistance



After the Trainings & Upcoming opportunities



Q&A & Conclusion



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Some rules to consider



- ✳ This webinar is being **recorded**
(recording of the webinar will be available on the SUNSHINE page of the UCPKN website)



- ✳ **Stay muted** when not speaking to avoid disruptions and background noise.



- ✳ Use the “**Raise Hand**” function or the Chat during the Q&A sessions.



- ✳ **Be respectful and concise** when sharing comments or questions.



- ✳ You may activate the option for automatically translated captions by clicking on “**Live Transcript**”.

Meet the Speakers



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GNSS Expert
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Europe in the face of disasters...

- ★ Climate change, natural hazards, safety threats increasing in frequency and intensity.
- ★ Pressing need for stronger civil protection and international cooperation
- ★ The need to be well-prepared to handle disasters is more important than ever.



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Background

- **Request made by the European Parliament & the Member States of the European Union:**
 - *How to better understand the EU space services?*
 - *What is the potential of EU space services to support national civil protection authorities?*

The SUNSHINE Project

Satellites at the service of disaster management

EU Space Programme

- ★ EU is developing and operating space infrastructures with great potential for civil protection community
- ★ Space data and services for observation, monitoring, mapping, public warning...
- ★ Applications for safety and security expanding fast.

How to make best use of space capabilities in times of crisis?

The SUNSHINE Project

What is the SUNSHINE project about?

- ❖ Present and demonstrate the EU space services
- ❖ Help the civil protection community understand what they can do & how to use them
- ❖ Support operational integration in national systems and procedures

The project will strengthen resilience of EU Member States through dedicated trainings and exercises on the use of EU Space services.

The SUNSHINE project consortium



Edelweiss
Resilience

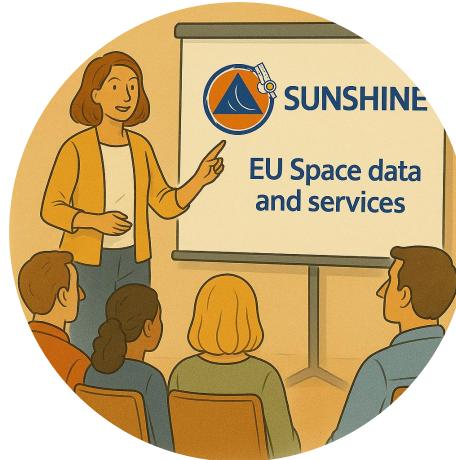


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Seminars



Webinars

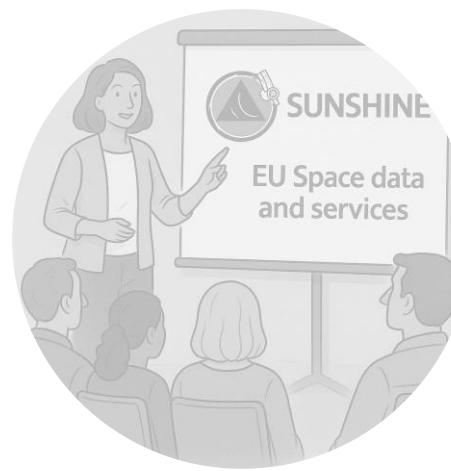


Bilaterals



Exercises

4 Seminars



5 Webinars

2 communication webinars

3 training webinars



2 Exercises

1 Bilateral

per Member State



Who are the SUNSHINE trainings for?

Operational & Strategic Actors

Civil protection authorities, emergency services & first responders, crisis & disaster management team leads, technical emergency teams, ministries responsible for civil protection.

High-Level Technical Knowledge Actors

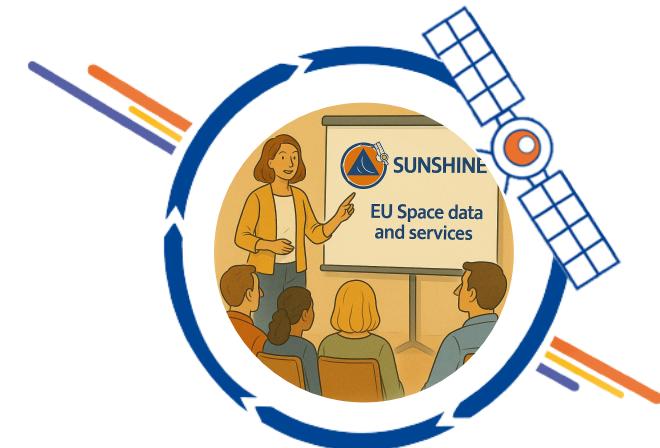
Technical experts, training coordinators, technological institutes, national scientific bodies & research centres, members of the Union Civil Protection Knowledge Network

Political & Coordination Actors

Policymakers on a national and local level, EU institutions, international & European organisations, NGOs, EU Coordination bodies

The seminars

Four days to dive into the EU Space services for crisis management

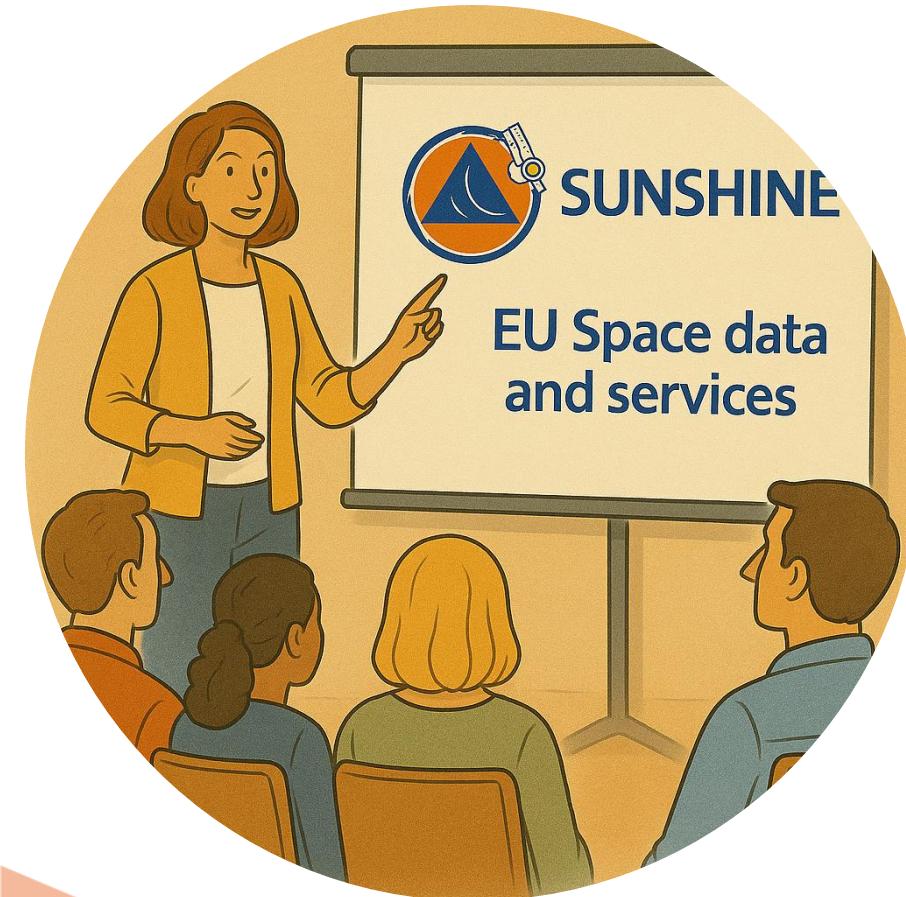


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The SUNSHINE seminars



- ✿ Taking place over 4-days
- ✿ In-depth training on EU Space components and applications for crisis management
- ✿ “Train-the-trainer” approach ensures accuracy, relevance, and replicability
- ✿ Practical demonstrations on the use of EU space data and services



MORNING	BEFORE	Welcome and warm up	Welcome and warm up	Welcome and warm up
		Quiz		
		Space Situational Awareness (SSA)		
		CEMS		
		- European Drought Observatory (EDO) - Global Human Settlement Layer (GHSL) - European Forest Fire Information System (EFFIS)		
		Quiz		
		LUNCH BREAK		
		Quiz		
		Galileo EWSS		
		- Introduction and live demonstration - EWSS operational platform - EWSS technical concepts		
AFTERNOON	DURING	CEMS	Table Top Exercise: CEMS/EWSS synergies	Rotating Workshops
		- European Flood Awareness System (EFAS) - Rapid Mapping (RM)	Quiz	- OSNMA live demo - Play with Galileo EWSS - Play with EFFIS - Play with EFAS
		Quiz	Galileo navigation	Seminar evaluation
		LUNCH BREAK	LUNCH BREAK	Final Speech
		GOVSATCOM and IRIS2	GOVSATCOM and IRIS2	
		CEMS Risk and Recovery Mapping	Quiz	
		CEMS Risk and Recovery Mapping	Pedagogical evaluation	
		Quiz	Close up speech	
		Close up speech	Close up speech	
		Close up speech	Close up speech	

Legend

- Theory and guided trainings
- Practice





**What will you learn during
the seminars?**

What you will learn



Training on the ECHO online platforms

- ✿ Emergency Rescue Coordination Center (ERCC) Portal
- ✿ Union Civil Protection Knowledge Network (UCPKN)
- ✿ The Global Situational System (GSS)
- ✿ ARISTOTLE

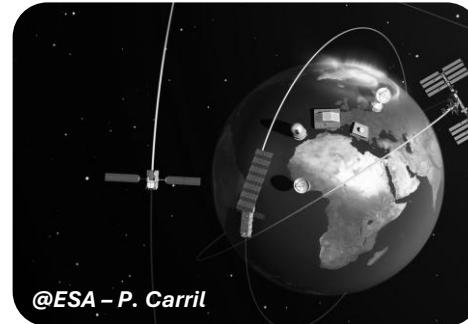
What you will learn



Training on Space Situational Awareness (SSA)

- ★ Main threats from space
- ★ How SSA and sub-systems monitor these threats
- ★ Concrete examples of SSA use cases for civil protection

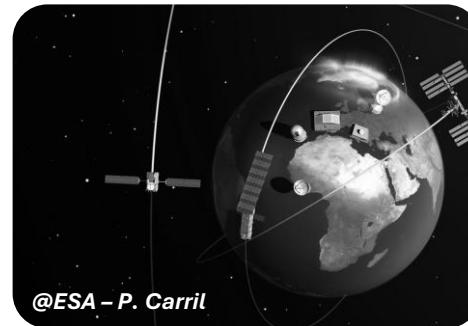
What you will learn



Training on Copernicus Emergency Management Service (CEMS)

- ❖ European Drought Observatory (EDO)
- ❖ Global Human Settlement Layer (GHSL)
- ❖ European Forest Fire Information System (EFFIS)
- ❖ European Flood Awareness System (EFAS)
- ❖ On-Demand Mapping Service

What you will learn



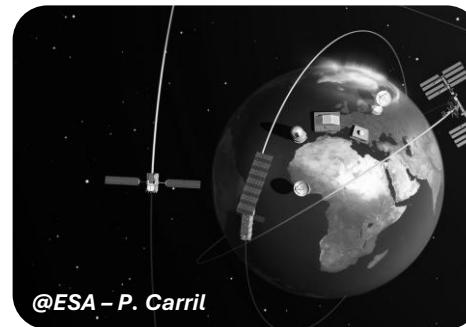
Galileo Emergency Warning Satellite Service (EWSS)

- ★ Galileo EWSS concepts and capabilities
- ★ How to access and use Galileo EWSS

Other Galileo services in support for civil protection

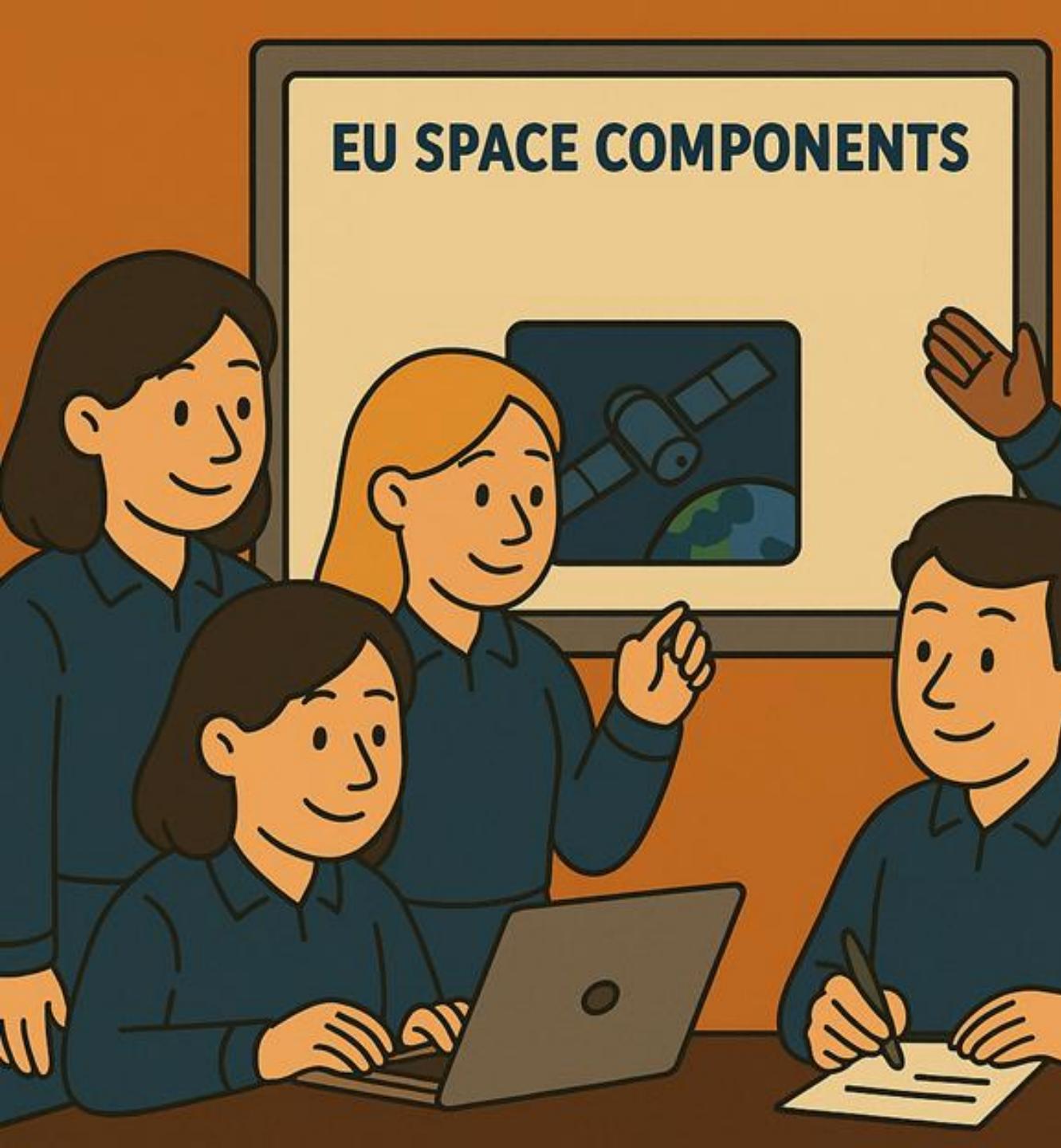
- ★ High Accuracy Service (HAS)
- ★ Open Service Navigation Message Authentication (OSNMA)
- ★ Public Regulated Service (PRS)
- ★ Search And Rescue (SAR)

What you will learn



European Satellite Communication systems

- ❖ What is GOVSATCOM and how to access it
- ❖ A look at the future with IRIS²



**How will you learn during
the seminars?**

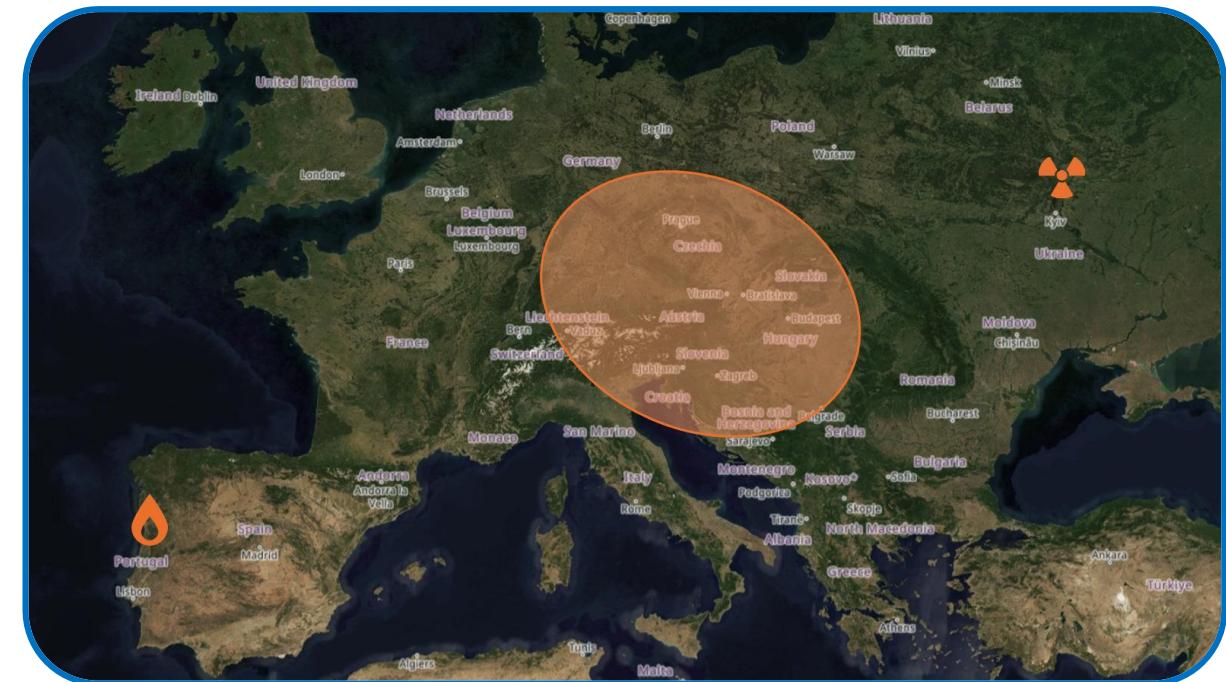
Crisis management oriented

Examples from three reference disasters

- Wildfires in Portugal, 2024
- Floods in Central and Eastern Europe, 2024
- Chernobyl nuclear incident, 1986

Topics presented following crisis phases

- Before the crisis
- During the crisis
- After the crisis

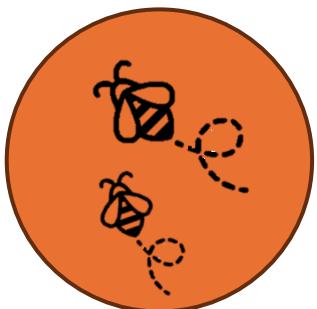


Putting theory into practice



★ Tabletop Exercise: When CEMS meets EWSS

- Use the theory to practice with advanced concepts of Galileo EWSS and Copernicus EMS
- Work with fellow participants to manage a simulated disaster scenario!



★ Rotating workshop: Bee a satellite

- Your chance to test and see the different tools and systems presented during the seminar
- From one component to the next, familiarize yourself with the different systems!



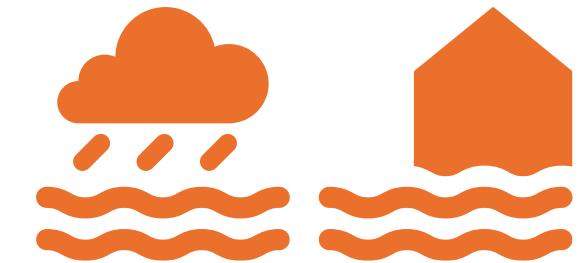
★ Pedagogical evaluation

- Your time to shine! Present your knowledge on an EU space component
- Work together with your team for a comprehensive presentation!

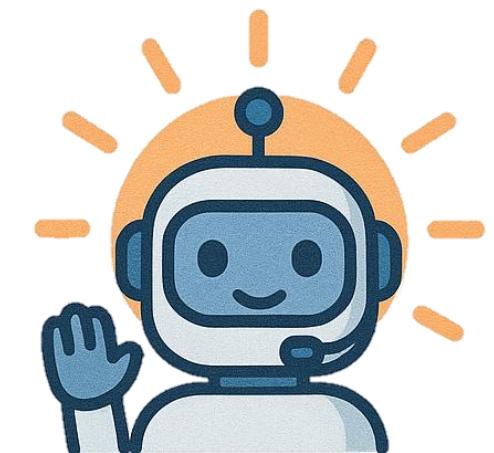
Table-Top Exercise: When CEMS meets EWSS

Uh-oh... Disaster is about to strike!

Ready to test what you've learned?



- ★ Take part in a **role-play session** simulating an impending disaster!
- ★ Based on the **2024 Central-Eastern Europe floods** and involving 2 countries: Slovakia & Hungary
- ★ 3 Teams: Team Slovakia, Team Hungary, Team ERCC
- ★ Team SUNSHINE will be there to support!



Sunny's here to help, too!



What will you learn in the Table-Top Exercise?

- ★ Discover possible synergies between Copernicus EMS and Galileo EWSS
- ★ Practice your understanding of CEMS and EWSS based on the theory you learned
- ★ Test your knowledge in a simulated exercise using real data and EU space services

Rotating Workshop: Bee a Satellite



Buzz, buzz!

Make a *bee-line* to test the EU space component platforms!

- Group up and gather round! It's time to get familiar with the platforms!
- Five interactive workshops to participate in:
 - **EWSS 1 – Discover the alert platform**
 - **EWSS 2 – Practice with TUTs for alert notification**
 - **OSNMA – Demonstration of OSNMA capacity**
 - **EFFIS – Discover the EFFIS Platform**
 - **EFAS – Discover the EFAS Platform.**



Pedagogical Evaluation



Show us what you've learned!

- ★ After the presentations and sessions... How well do you understand the EU space components?
- ★ Work in groups with fellow participants & put your knowledge together!
- ★ Your EU space component: How does it work? What does it do? How does it apply to your operations? Use everything you've learned for your presentation!
- ★ Present your component to the audience!

The webinars

Online sessions for focused
learning on the EU Space services

&

SUNSHINE training opportunities



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The SUNSHINE webinars



2 Communication Webinars

- ★ Online sessions to boost project visibility
- ★ Promote training opportunities

Today you are connected to SUNSHINE's 1st communication webinar!

SUNSHINE Training Webinars: EU space components in focus



3 Training Webinars

- ★ Online sessions focused & targeted learning on specific EU space components
- ★ Presentations by experts of the SUNSHINE consortium
- ★ Detailed sessions on the purpose, functions, use and real-world applications of EU space assets

The bilateral meetings

Tailored discussions with each EU Member State



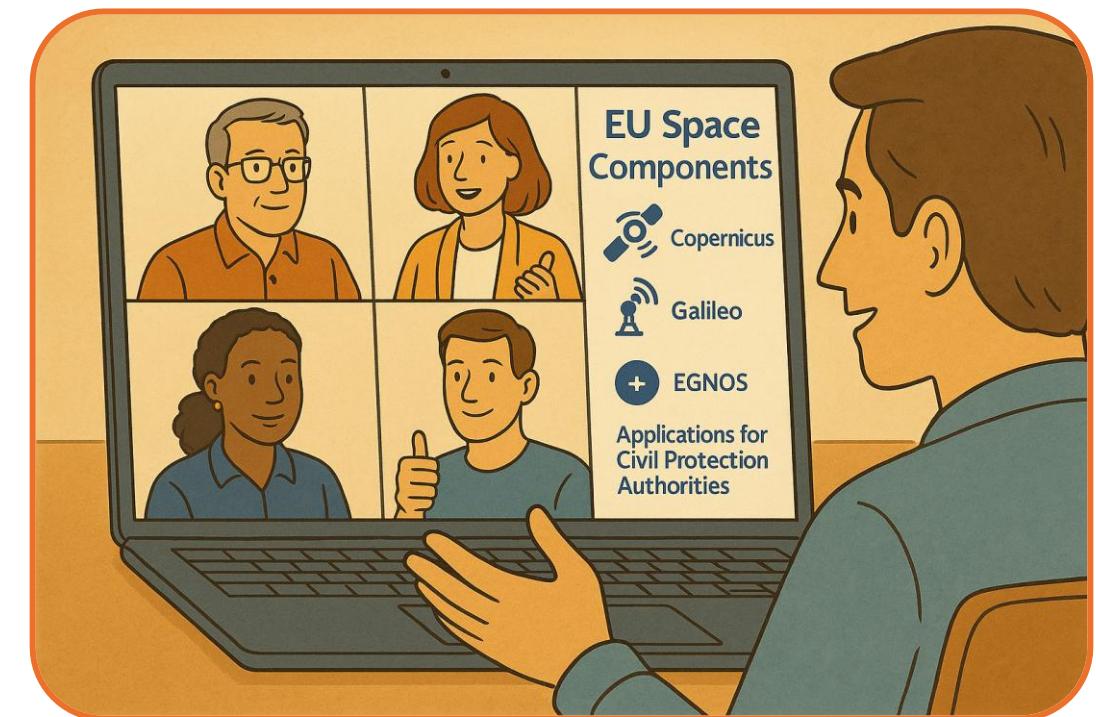
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Tailoring SUNSHINE trainings to national needs

- ❖ Meetings between the SUNSHINE team and each EU Member State
- ❖ Tailored discussions for each Member State, to address national needs and challenges
- ❖ Building on knowledge gained during the seminars and webinars
- ❖ Contact points made during the seminars will help us connect with the target audience:
 - Representatives from Ministries for Civil Protection
 - National Policy-makers
 - Operational leaders from Civil Protection
 - Technical Experts/ Advisors





Book your slot for the Bilateral Meetings

1. Coordinate the main actors of your country
2. Book your date for the meeting
3. Prepare your questions
4. Start the discussion with the SUNSHINE experts!



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Mark your calendar!

Oct 25 Nov 25 Dec 25 Jan 26 Feb 26 Mar 26 Apr 26 May 26 Jun 26 Jul 26 Aug 26 Sep 26

Seminars		 25-28 nov Talinn, Estonia		 3-6 march Strasbourg, France		 May		 June				
Webinars												
Bilaterals						Bilateral Meetings with 27 Member States						
Exercises								 March			 September	

The exercises

Put all theory into practice



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SUNSHINE Exercises

Putting theory into practice again with immersive simulations

★ **Table-top Exercises:**

- **Transform theory into practice** with advanced concepts of all EU space components
- **Collaborate and make decisions** in real time!

★ **What's coming next?**

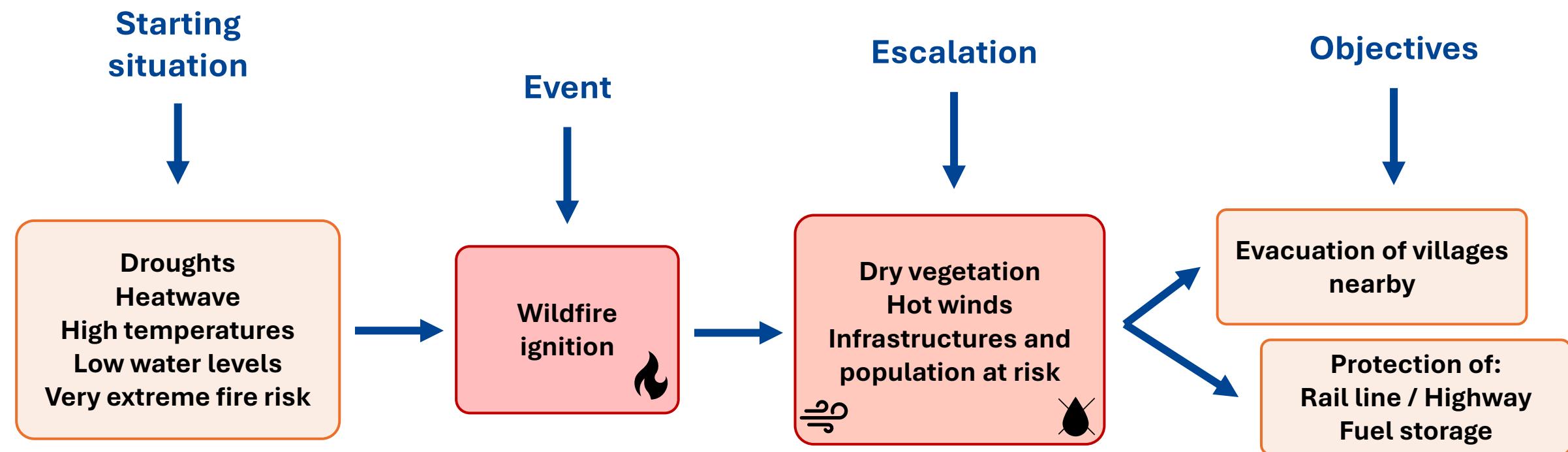
- 2 sessions in 2026: Q1 and Q3 in Brussels
- Pre-requisite: *exercise participants must have attended and completed a seminar before*
- **2-days format** with presentations, ice-breaker, engaging warm-ups and finally **a 6-hours exercise**



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Your mission: manage crises in the fictional EU Member State of Goodlandia

A glimpse of one of the exercise scenario



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Technical assistance

SUNSHINE can support integration of
EWSS into your national warning systems



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Together for EWSS adoption

Relying on you

- ★ Identify relevant **national actors** involved in population alerting
- ★ Facilitate **coordination** among national civil-protection and us
- ★ Provide **feedback** on the foreseen difficulties for proper integration of EWSS into your current systems

How **SUNSHINE** will support you

- ★ Coordinate our collaborations
- ★ **Integrate your feedback** on the foreseen difficulties for proper integration of EWSS into your current systems
- ★ Provide guidelines and **recommendations** for EWSS adoption
- ★ Technical on-site visits & remote assistance



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Who we are looking for

Who are the key **Stakeholders** for a successful EWSS Adoption ?

Alerting Authorities

Civil Protection, Health Authorities, Meteorological Agencies..., anyone who currently has the legal authority to issue alerts — or who may be granted the right to send EWSS alerts in the future.



PWS Owners & Providers

Anyone responsible for the setup, maintenance, and evolution of the Public Warning System — typically an **ICT Agency**, sometimes supported by a **project management team** (for tenders/evolution & budget) and the **PWS provider** (who may be private).

Regulatory & Political Stakeholders

Ensure the **legal compliance** of EWSS adoption with national legislation and provide **political support** to promote and encourage its implementation.

Who we are looking for

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Alerting Authorities

Civil Protection, Meteorological Authorities who currently have the authority to issue alerts may be granted the authority to issue EWSS alerts in the future.



PWS Owners & Providers

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Contact SUNSHINE team if you are interested in our support!

sunshine@telespazio.com



Regulatory & Political Stakeholders

Ensure the **legal compliance** of EWSS adoption with national legislation and provide **political support** to promote and encourage its implementation.



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After the Trainings

Want to revisit a module? Or touch up on your knowledge?

- The SUNSHINE trainings will be available on the Union Civil Protection Knowledge Network (UCPKN) to **download for free**.
- UCPKN will be your **one-stop shop** for your civil protection training needs.
- You can access them at **any time**.
- You can **reuse** them for your own training to your teams.



**SUNSHINE page on
UCPKN platform**

After the Trainings

From SUNSHINE training participants to SUNSHINE ambassadors!

- ★ After successfully completing the seminars, participants will receive a ***certificate of completion***, as a proof of knowledge on EU Space services.
- ★ You become the main point of contact for organising the bilateral meetings for your country:
 - Directing the SUNSHINE team to all relevant contacts to include in the meeting
 - Providing insights into national needs in preparation of the meeting
- ★ **SUNSHINE Ambassadors**: The reference point for your colleagues for information related to EU Space services

What comes next?

Upcoming Training Opportunities

Seminars

- Tallinn, Estonia – 25-28 November 2025
- Strasbourg, France – 3-6 March 2026

Interested to participate? **Scan the QR code** to fill in the Expression of Interest form!



Webinars

Stay tuned for the next Training Webinar!



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Q&A session



***Please use the “Raise Hand” function, or
write your question directly in the Chat***

Want to watch the webinar again?

The **recording** of the webinar will be available on the SUNSHINE page of the Union Civil Protection Knowledge Network platform.

Follow this page for more updates and news from the SUNSHINE project!



SUNSHINE page on
UCPKN platform



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Contacts

Reach out to us for any further questions!

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Thank you for joining!



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