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To: CapTech Simulation Technologies CNCs, CGEs and CnGEs

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INVITATION TO SIMULATION TECHNOLOGIES FOR SPACE ENGINEERING WORKSHOP, 26 FEBRUARY, RHID

Annex: Guidelines for submission of inputs

EDA is delighted to invite you to attend the **Simulation Technologies for Space Engineering workshop**, scheduled to be held at the **Royal Higher Institute for Defence (RHID), Rue Hobbema 8, 1000 Brussels (Belgium)** on **26 February 2025**, from 09:00 AM to 17:00 PM CET.

This workshop will delve into key trends and technological advancements driving innovation in simulation-based space engineering, with a particular focus on supporting military operational scenarios. It presents a significant opportunity to define the scope for future research and technology (R&T) efforts in utilizing advanced simulation technologies for space engineering in defence applications. The workshop also aims to foster the launch of new partnerships and collaborative projects.

This initiative is organised back-to-back with the 42nd Meeting of CapTech Simulation Technologies. As part of this workshop, we invite your contributions through a **Call for Inputs**, please refer to the guidelines provided in the Annex. Submissions may address various areas of innovation, including but not limited to:

- Use of machine learning algorithms and dynamic simulations for predicting orbital paths and analysing satellite behaviour, positioning, and potential threats;
- Simulation of satellite swarming and constellation dynamics;

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- Simulation of space-based imagery (e.g., multispectral and radar) for training military personnel to enhance battlespace awareness;
- Virtual reality and optical simulations for optimizing human-machine interfaces and sensors;
- Multiphysics simulations for complex space environments;
- Applicability to space engineering of digital modelling and simulation technologies traditionally used in non-space areas.

The workshop is open to members of EDA's CapTechs and military personnel or professionals who are not yet affiliated with any EDA CapTech.

Participation at the workshop is on site only and free of charge.

To participate, please confirm your attendance by registering via this [registration form](#) no later than **31 January 2025**. EDA will confirm registrations until 07 February 2025.

The final agenda will be shared approximately one week prior to the event.

For questions or special requests, please contact veronica.guidetti@eda.europa.eu.

Guidelines for submission of inputs

We welcome submissions of inputs that present case studies (either at research or near-operations stage), innovative use of advanced digital modelling and simulation techniques and technologies addressing the topics outlined above. This is a valuable opportunity to share potential future directions that will drive advancements in modelling and simulation technologies essential for future defence-oriented applications in the areas mentioned above.

Please send your inputs to veronica.guidetti@eda.europa.eu and tobias.tanis@nlr.nl by **03 February 2025 10:00 AM CET**, as follows:

- max 300 words, minimum font size = 11, in .docx or .pdf format
- text abstract with title, authors and affiliations
- please highlight innovation aspects, relevance for defence sector, and expected TRL.

The inputs collected will be reviewed by the workshop organising committee. Possibly all incoming inputs will have a chance to be addressed during the event.

Selected speakers will be notified by **10 February 2025**.

For questions, please contact veronica.guidetti@eda.europa.eu.