

Issue #5 | December, 2025



reusable strAtegic space Launcher  
Technologies & Operations

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# Webinar summaries and research results!



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# Webinar summaries

During this webinar, our consortium partners presented specific technologies and solutions that are an important part of the SALTO project's advancements. If you missed the webinar, you can find a summary of each presentation on our website.

01

## Autonomous Flight Safety System – Software and Hardware Design and testing

Speaker: Eduard Diez, Innovation Manager at GTD

[Read the summary](#)

02

## Eyes in Orbit: The SALTO/Themis Onboard Réaltra Video Camera System

Michael Martin, Engineering Manager at Realtra

[Read the summary](#)

03

## Development of a Bio-TPS

Nadia Silva, Product Development Technician at  
Amorim Cork Solutions

[Read the summary](#)

# SALTO



Webinar was held  
on 28.10.2025



## REALTRA



## AMORIM CORK SOLUTIONS



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# Research results

The SALTO project consortium partners have participated in several international conferences, where they presented key research results from the project. These results have now been published on the SALTO website and in the SALTO Zenodo community, making them accessible to a wider audience.

## Article

### Preliminary Design of Expendable and Reusable Mixed-Staged Launch Vehicles

Authors:

- Pawel Goldyn
- Ansgar Marwege
- Johannes Riehmer
- Josef Klevanski
- Ali Gülhan



[Learn more](#)

## Research article

### Experimental Investigations of Fluid-to-Vehicle Interactions during a Reusable Launcher's Touchdown Impact

Authors:

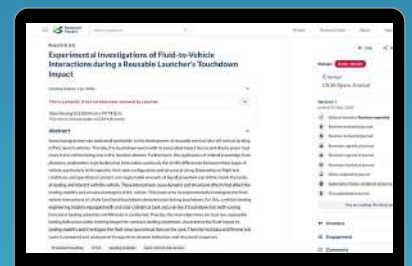
- Caroline Krämer
- Lars Witte



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DOI: 10.2514/1.A36174



DOI: 10.21203/rs.3.rs-4977412/v1



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# Research results

Conference Paper

## Parametric grid fin design study for the T3 vehicle within SALTO

Author:

- Jens Neumann

[Learn more](#)



Conference Paper

## Autonomous Flight Safety System - Embedded Software and Hardware equipment for New Space Ground and On-Board safety

Authors:

- Alejandro Sabán-Fosch
- Eduard Diez-Lledo
- Manel Soria, Universitat Politècnica de Catalunya
- Miquel Sureda, Universitat Politècnica de Catalunya



[Learn more](#)

Article

## End-to-End GNC Solution for Reusable Launch Vehicles

Authors:

- Jacopo Guadagnini
- Pietro Ghignoni
- Gabriele De Zaiacomò
- Afonso Botelho
- Fabio Spada, University of Washington



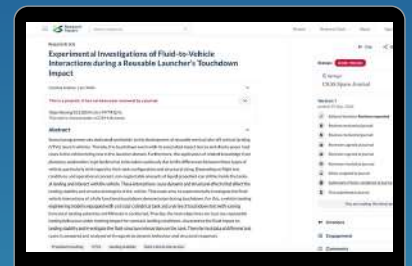
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24th DGLR STAB-Symposium  
13 and 14 November 2024,  
Regensburg, Germany



75th International  
Astronautical Congress (IAC)  
14-18 October 2024, Milan, Italy



DOI:10.3390/aerospace12040339

# Research results

Conference Paper & Presentation

## Building an aerodynamic model of a vertical landing reusable launcher based on CFD and wind tunnel experiments in SALTO and CFD4SALTO

Authors:

- Ansgar Marwege
- Josef Klevanski
- Junnai Zhai
- Ali Gülhan
- Jan Vos, CFS Engineering



[Learn more](#)

Conference Paper & Presentation

## Scalability of aerodynamics from demonstrator to full flight scale of a vertical landing reusable launcher

Authors

- Ansgar Marwege
- Pawel Goldyn
- Josef Klevanski
- Ali Gülhan



[Learn more](#)

# SALTO



The 3rd International Conference on Flight Vehicles, Aerothermodynamics and Re-entry (FAR)  
18 – 22 May, 2025, Arcachon, France

DOI:10.5281/zenodo.17199286



The 3rd International Conference on Flight Vehicles, Aerothermodynamics and Re-entry (FAR)  
18 – 22 May, 2025, Arcachon, France

DOI:10.5281/zenodo.17200016



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# Research results

## Conference Paper & Presentation Flight dynamics evaluation for the T3 suborbital flight test

Authors:

- J. Gutiérrez Briceño
- G. Medicil
- A. Princil
- G. De Zaiacomò



[Learn more](#)

## Conference Paper & Presentation Development and manufacturing of a landing leg system for reusable launchers T(hemis)3 in the SALTO project

Authors

- Christoph Thies
- Peter Ortmann
- Carl S Modén
- Thomas Zenker



[Learn more](#)

## Conference Paper & Presentation Development and Test Results of an additively printed 240N Class Monopropellant Thrusters

Authors:

- Ulrich Gotzig
- Malte Wurdaka
- Nicholas Harmansa
- Michael Funka

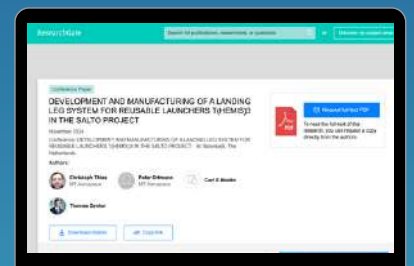


# SALTO



The 3rd International  
Conference on Flight Vehicles,  
Aerothermodynamics and  
Re-entry (FAR)  
18 – 22 May, 2025, Arcachon,  
France

DOI:10.5281/zenodo.17200107



76th International Astronautical  
Congress 2025,  
29 September – 3 October, 2025,  
Sydney, Australia

# Research results

Conference Paper & Presentation

## Aerothermal analysis of Themis T3: influence of nozzle cluster geometry on the base heating and heat loads on the grid fins

Authors:

- M. Laureti
- S. Karl



[Learn more](#)

Conference Paper & Presentation

## Analysis of unsteady pressure loads on the Themis T3 vehicle in unpropelled backward flight

Authors

- Tim Horchler
- Mariasole Laureti



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# SALTO



The 3rd International  
Conference on Flight Vehicles,  
Aerothermodynamics and  
Re-entry (FAR)  
18 – 22 May, 2025, Arcachon,  
France

DOI:10.5281/zenodo.17200335



The 3rd International  
Conference on Flight Vehicles,  
Aerothermodynamics and  
Re-entry (FAR)  
18 – 22 May, 2025, Arcachon,  
France

DOI:10.5281/zenodo.17200246



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*Season's Greetings!*

