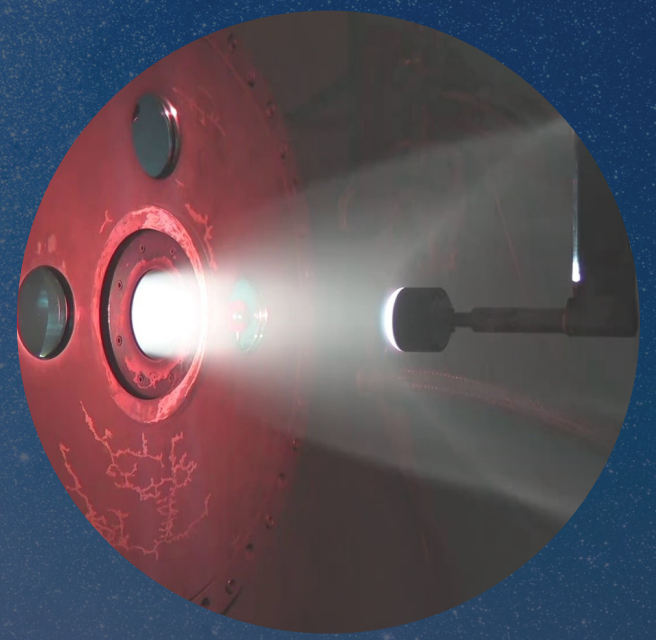


Graphics by SAVIA Craft



European Flexible hEat Shields
advanced TPS design and tests
for future in-Orbit demonstration



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EFESTO WORKSHOP
 Wednesday June 22nd
 KONFERENZ VIER (4)



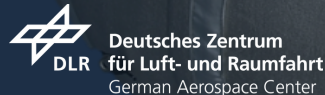
This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 821801

ABOUT THE PROJECT

EFESTO aims at the definition of critical space mission scenarios (Earth and Mars applications) enabled by the use of advanced inflatable Thermal Protection Systems (TPS), the characterization of the operative environment and the validation by tests of both the flexible materials needed for the thermal protection (flexible thermal blanket tested in arcjet facility in both Earth and Martian environments) and the inflatable structure at 1:2 scale (exploring the morphing dynamics and materials response from packed to fully inflated configuration).

The EFESTO end goal is to improve the TRL of Inflatable Heat Shields for re-entry vehicles from 3 to 4/5, and pave the way towards further improvements: TRL 6 with a future In-Orbit Demonstrator

THE CONSORTIUM



WORKSHOP AGENDA

9.10 Workshop Opening

Goals of the workshop
by ESA

9.20 Introduction

Project overview and framework
by EFESTO project coordinator

9.25 Mission and Systems

Systems level overview
by DLR and DEIMOS

10.05 Aerodynamics & Aerothermodynamics

Aerodynamic shape and
aerothermodynamics characterization
by ONERA

10.25 Keynote Speech

Innovative re-entry technologies
by NASA - Alan Cassel

10.50 Coffee Break

WORKSHOP AGENDA

11.10 F-TPS Design and Testing

Technology development and testing (1)
Flexible TPS
by DLR and ONERA

11.30 Inflatable Structures Design and Testing

Technology development and testing (2)
Inflatable Structures
by CIRA and ONERA

11.50 Future applications and Roadmap

Roadmap for technology maturation and
future applications and initiatives
by POLITO and DEIMOS

12.05 Closing Remarks

Perspectives and synergies
by ESA - Ortega & Cohen

12.20 Workshop Closure

by EFESTO project coordinator

12.30 Lunch Break