

EcoDeltaV

Bringing life cycle insights into your space
mission design

ECODELTA^V

Launches and satellites
generate increasing
environmental impacts

Can **access to space** be
sustainable?

Today, ESA and CNES
require
environmental impact
assessments

By 2030,
the European Space Act will
mandate
all companies
to perform Life Cycle
Assessments (LCA)

Yet, space SMEs use
large, archaic spreadsheets
with
no dedicated expertise
in-house.

Why?



They have no other
choice.



ECODELTA

Our purpose

To empower capital-intensive sectors with **data-driven environmental assessments**, starting with the **space industry** to tackle the global climate crisis before expanding to adjacent sectors

Our Objectives:

Equip the booming space industry with essential LCA tools

Champion ecodesign principles in space mission planning

Establish EcoDeltaV as Europe's leading developer of space LCA and ecodesign tools by 2030



Our Solution

Assessment and Comparison Tool

ACT

The LCA and ecodesign tool built
by space engineers, for space
engineers

ESA project, completed by experts



EPFL

Space
Center



University of Stuttgart
Institute of Space Systems



PSI



ATELERIS



Institut Supérieur de l'Aéronautique et de l'Espace

SUPAERO



Ways Ahead

Towards Sustainable Actions

ACT

ACT is made for the space sector

	Generic LCA tools	Current space-specific LCA tools	Ad-hoc solutions	Our solution
	  	CNES's 		
Designed for the space sector	✗	✓	✗	✓
Intuitive for LCA practitioners	—	✓	—	✓
Easy integration in design cycles	✗	✓	—	✓
Complete LCA results	✓	✗	—	✓
Space-specific impacts (e.g. launch exhaust or re-entry)	✗	✗	✗	✓

Proven initial traction

12 companies **reached out directly** to EcoDeltaV

5 professional service **proposals** in the pipeline

1st **Beta Tester** started this month

1st **Professional Service** project started

Individual focus, shared ambition

Mathieu Udriot

Co-founder & Lead of Technology Development
(past) LCA & System Engineer at EPFL Space Center

Experienced Project Manager <—



Jan-Steffen Fischer

Co-founder & Lead of Science and Operations
PhD candidate in rocket emissions and LCA

—> Recognised academic expert



Marnix Verkammen

Co-founder & Lead of Business Strategy
(past) LCA Research engineer at EPFL Space Center

Simplified space LCA expert <—



Emmanuelle David

Co-founder & Industry Advisor
(jointly) Executive Director at EPFL Space Center

—> International industry experience



We need you!

Software Engineer Position

Entrepreneurial mindset:
→ early revenue startup

Ready to take ownership of
groundbreaking software.

Have some experience
(preferably full-stack software
engineering)

MSc thesis and semester projects

Space sustainability topics:

- LCA methodologies
- LCA of your space mission using ACT
- Space debris quantification
- Sustainability business development

Business topics:

- New Space + sustainability
- Adjacent opportunities

Software topics:

- ML + space LCA
- LCA software for space

Let's bring life cycle insights
into space mission designs

Thank you for your attention