FUTURE SPACE TRANSPORTATION
FLPP AUTUMN SESSION 2025

REACT

EPFL

Location: Switzerland

Founded: 2025

Employees: 2

Mission: Bringing lifecycle insights into your space mission's design

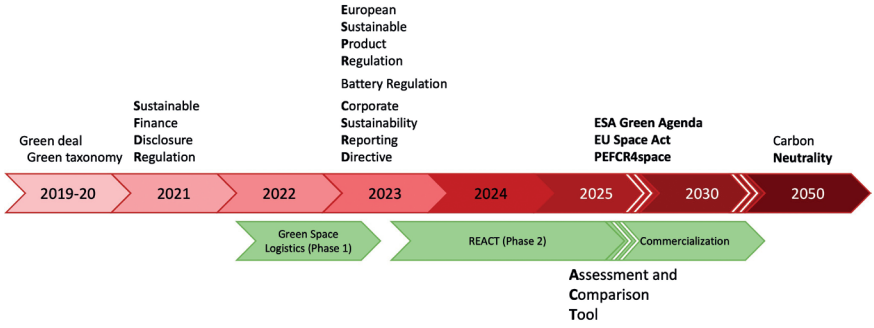
ACTIVITY

Project name: Green space logistics and REACT projects

Objective: Develop a Life Cycle Assessment (LCA) methodology for early design phase, and implement it as a software tool to support decisions

Applications

- LCA, Ecodesign to comply with requirements and regulations (e.g., ESA, EU Space Act, etc.)
- Specific assessment (including launch and reentry emissions)



GET IN TOUCH

Contact: mathieu.udriot@ecodeltav.com or info@ecodeltav.com

Website and Socials:

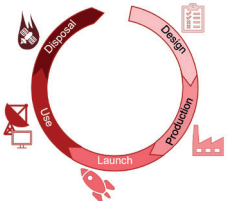
EcoDeltaV: www.ecodeltav.com | www.linkedin.com/company/ecodeltav

EPFL Space Center: www.espace.epfl.ch | www.linkedin.com/company/epfl-space-center-espace

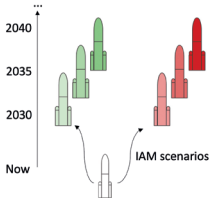
TECHNOLOGY AND INNOVATION

What we developed: The Assessment and Comparison Tool (ACT), a software for simplified, space-specific, prospective LCA

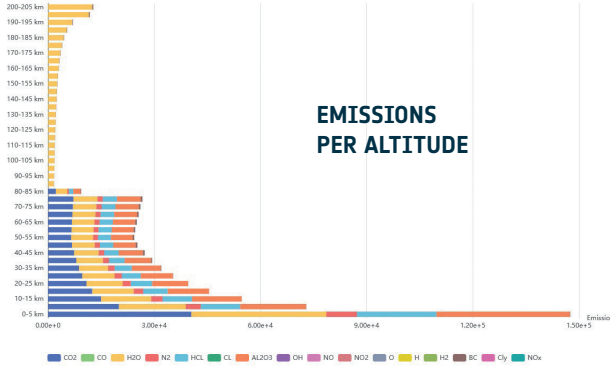
Unique features: state-of-the-art models for space-specific impacts, user guidance from simplified LCA, to full ones, compatible with external tools to add value to the LCI efforts (eg., REACH risks)



LIFE CYCLE ASSESSMENT



PROSPECTIVE LCA



EMISSIONS PER ALTITUDE

NEXT STEPS AND MARKET READINESS

Roadmap

- We climbed the TRLs from an academic project to the market with a successful spinoff process. The next steps are:
  - For the company: offer tool-based consulting service and trainings, maintain and improve the tool, prepare it for licensed distribution
  - For EPFL: contribute to state-of-the-art research to fill scientific gaps

Market readiness:

- Open for projects to support space industries with sustainability requirements and regulations

Target Launch:

- Early 2026 (already submitting project proposals)