

CSID - EcoDesign - Welcome

EcoDesign Team

21/09/2021



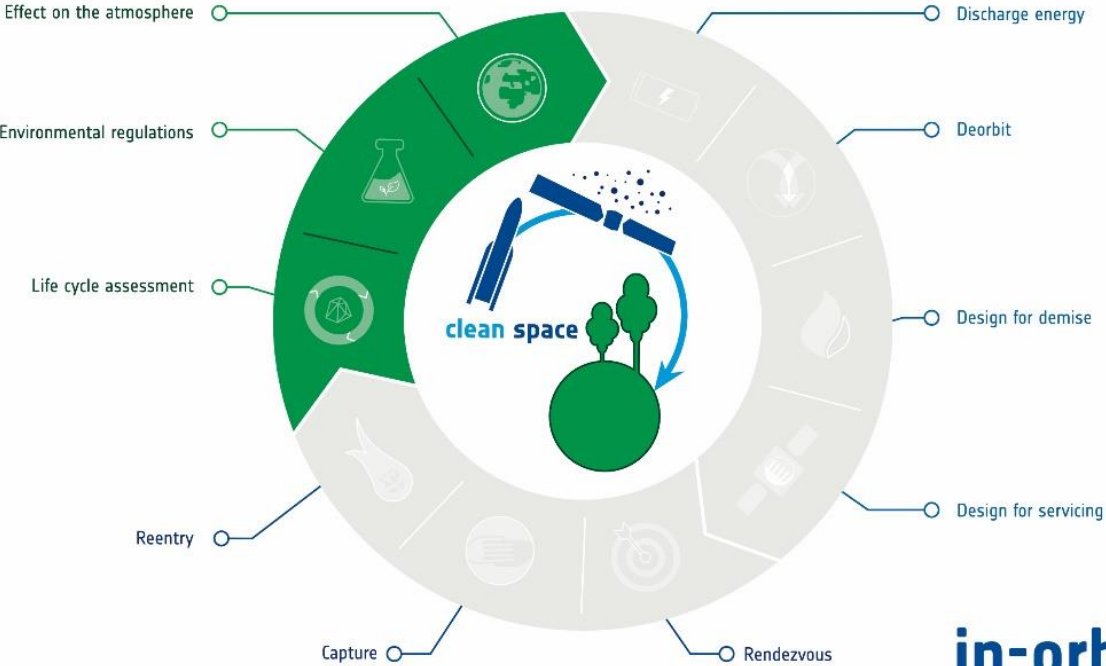
CSID - 2021

ecodesign

→ REDUCING IMPACTS

management of end of life

→ SPACE DEBRIS REDUCTION



in-orbit servicing

→ ACTIVE DEBRIS REMOVAL

Who are we?

Estefania Padilla,
OPS-SC



Systems engineer for
Clean Space

Romane Prouteau,
OPS-SC



Clean Space Trainee

Sara Morales,
TEC-SYE



Systems engineer for
Clean Space

Jessica Delaval,
OPS-SC



Clean Space
Coordinator & CSID
organisation

Schedule - Tuesday 21/09



TIME OF SESSION	SESSION	TIME OF PRESENTATION	TITLE OF PRESENTATION	SPEAKER	ENTITY
9:30 - 11:00	EcoDesign at ESA	9:30 - 9:50	LCA & EcoDesign at ESA	Sara Morales Serrano Micheline Tabache	ESA
		9:50- 11:00	EcoDesign: where does ESA stand?	Sara Morales Serrano Estefania Padilla Romane Prouteau	ESA
11:30 - 12:00	Non financial reporting	11:30-12:00	Impacts of Directive 2014/95/EU on Environmental Impact Reporting by European Space Transportation Industry	Augustin Chanoine	Deloitte Sustainability
14:00 - 15:45	Ecodesign for Space: LCA of Ground Segment	14:00 - 15:00	Life Cycle Assessment of Ground Segment in space sector	Michele De Santis	RINA
		14:00 - 15:00	LCA of Ground Stations	Flavien Colin	Deloitte Sustainability
		15:00 - 15:20	Atmospheric re-entry Assessment (ARA)	Simone Bianchi	TAS-I
		15:20 - 15:45	Atmospheric impacts of atmospheric emissions from s/c re-entry demise	Slimane Bekki	VARUNA
16:00 - 17:00	ESA LCA Databse	16:00 - 16:10	Introduction to the ESA LCA database	EcoDesign Team	ESA
		16:10 - 16:40	ESA LCA Database - a guided tour	Johan Berg Pettersen	Norwegian University of Science and Technology
		16:40 - 17:00	ESA LCA Database	Ionut Grozea	DEIMOS



Schedule - Wednesday 22/09



TIME OF SESSION	SESSION	TIME OF PRESENTATION	TITLE OF PRESENTATION	SPEAKER	ENTITY
9:30 - 11:00	LCA & Ecodesign in projects	9:30 – 10:00	LCA & Ecodesign in ESA projects		ADS, ESA, OHB, TAS
		10:00 – 11:00	Open Discussion	Moderator: Luisa Innocenti	All
11:30 - 12:30	LCA implemented in projects	11:30-12:00	LCA and eco-design of a launch service based on a reusable launcher	Leonard Pineau	Ariane Works, CNES
		12:00- 12:30	Status and opportunities for sustainability and circular economy for clean space industry	Jamila Mendoza	
14:00 - 15:00	ESA LCA Handbook	14:00 - 14:10	Life Cycle Assessment Handbook Intro	EcoDesign team	ESA
		14:10 - 14:30	Update of ESA LCA Guidelines	Augustin Chanoine	Deloitte Sustainability
		14:30 - 15:00	Open discussion	All	All



TIME OF SESSION	SESSION	TIME OF PRESENTATION	TITLE OF PRESENTATION	SPEAKER	ENTITY
9:30 - 11:00	Green Technologies	9:30 – 10:00	Umicore's strategy to increase Germanium resource efficiency for future low-carbon space multijunction solar cell technology	Rufi Kurstjens	Umicore
		10:00 - 10:30	Effective use of Ge	Peter Dold	Fraunhofer ISE
		10:30-11:00	Life Cycle Assessment of Green Electronics for Space	Maarten Cauwe	imec-Cmst
11:30 - 12:30		11:30 - 11:50	Environmentally friendly polyurethane materials for space applications	Tomas Vlcek	TOSEDA s.r.o.
		11:50 – 12:10	Life cycle of propellants: environmental benchmark of current "green" propellants	Johan Berg Pettersen	NTNU (Norwegian University of Science and Technology)
		12:10 – 12:30	LCA of alternative materials for optical payload	Ariane Bouilly	ADS



What about you?