

Electric Propulsion Track Record

Overview of projects, timeframes, scope and partners

Project	Period	Scope	Partners
IODE	2025	Functional specification and analysis, concept definition and performance	CNES, CNRS
MP ² S	2023–2027	Modular propulsion system for in-orbit maneuvers and servicing (Horizon Europe)	COMAT, CNRS, EnduroSat, PlasmaSolve, IRS
Synchrocube	2022–2024	In-flight demonstration of a modular pulsed propulsion system based on PJP	COMAT, U-SPACE, CNES
PJP 30	2020–2023	Improving the agility of nano/micro-satellite platforms (H2020)	COMAT, CNRS, OHB, PlasmaSolve, Thales
PJP IOD/IOV	2021–2023	In-flight demonstration of PJP30 on a 6U satellite	COMAT, CNES, ISIS
PJP IOD	2019–2021	Collaboration with Harbin Institute of Technology	COMAT, HIT
Plasma Jet Pack 80	2021–2024	Development and in-flight demonstration of the PJP 80W	COMAT, SpaceTy
INPEPSS	2019–2020	Integration of the electric propulsion module on a small satellite platform	COMAT, HEMERIA
Inmpulse	2018–2019	Understanding vacuum arc phenomena	COMAT, CNRS
THRUST	2018–2019	Thrust characterization of the PJP0-30 on ONERA test bench	COMAT, CNES, ONERA
ELISE	2014–2017	Development of the PJP on a nanosatellite platform	COMAT, NEXEYA, STEEL, EREMS
PJP Exp / PJP 0-150	2018	Physical exploration and characterization	COMAT, IRT
SADSCA	2018–2019	Autonomous deorbiting system based on PJP	COMAT
EF PJP 150	2018	State of the art on the vacuum arc thruster	COMAT, IRT