

Missions in Planetary Sciences

The table shows the impressive list of satellite missions related to (exo-)planets, moons, and small bodies, to which institutes in Germany have contributed instruments and/or scientific input (as of September 24, 2025).

Note: It remains challenging to compile a comprehensive overview of mission participations. We therefore kindly ask the community to help us complete the list. Suggestions are welcome at: vorstand@planet-dgp.de

Missions	Agency	Class	Launch	Target	PI or Co-PI in	participating institutes	instruments
Giotto	ESA		1985	Komet	2	MPAe	Kameras; ended 1986
Cluster	ESA		2000	Sonne		Uni Braunschweig	
MarsExpress	ESA		2003	Mars	1	DLR WF, FU Berlin	HRSC camera
Rosetta	ESA		2004	Komet	2	DLR, MPAe	Kameras, Lander, Radiometer; ended 2016
Mars Reconnaissance Orbiter (MRO)	NASA		2005	Mars		TU Berlin	science
Venus Express	ESA		2005	Venus		Univ. Köln	re-use Mars Express & Rosetta EMFS
Lunar Reconnaissance Orbiter (LRO)	NASA		2009	Mond		DLR PF, Uni Münster	science
Mars Science Laboratory (MSL)	NASA		2011	Mars	1	Uni Kiel	„Radiation Assessment Detector“ (RAD)),
Hayabusa2/Hayabusa2#	JAXA		2014	Asteroid	2	DLR PF, RS	DLR Lander mit Kamera und Radiometer
TGO ExoMars	NASA	ESA Exploration	2016	Mars		DLR WF	science
InSight	NASA	Discovery	2018	Mars	1	DLR PF, RS	HP3 thermal probe
BepiColombo	ESA	Cornerstone	2018	Mercury	2	DLR PP, WF, , Uni Münster	imaging spectrometer (PI in Münster, Co-PI PF)
CHEOPS	ESA	S1	2019	exoplanets		DLR WF	focal plane electronics
Chang'e4	China		2019	Mond	1	Uni Kiel	Lunar Neutron and Radiation Dose Detector; LND
Mars2020 rover	NASA		2020	Mars	1	TU Dresden	Radar Imager for Mars Subsurface Experiment (RIMFAX)
JWST	NASA	Flagship	2021	facility, exoplanets		MPIA	
DART	NASA	Exploration	2021	Asteroid		DLR WF	science
LUCY	NASA	NASA Discovery	2021	Asteroid		DLR WF	science
PSYCHE	NASA	NASA Discovery	2023	Asteroid		DLR WF	science
CLPS Nova-C	Intuitive Machines	NASA CLPS	2022	Mond	1	DLR PF; FU Berlin	LRAD radiometer
CLPS BLUE GHOST 1	Firefly Aerospace	NASA CLPS	2022	Mond		DLR WF	science
JUICE	ESA	L1	2023	Jupiter system	2	DLR WF	GALA laser altimeter (PI in PF), JANUS camera (Co-PI in PF)
Euclid	ESA	M2	2023	dark energy, exoplanets			
CLPS Draper	Draper	NASA CLPS	2023	Mond		DLR WF	science
M-42	Astrobotic	Peregrin Mission One	2024	Mond	1	DLR RM	Strahlungssensor
Europa Clipper	NASA	NASA Flagship	2024	Jupiter system		DLR WF	science
HERA	ESA	ESA Exploration	2024	NEO		DLR WF	science
Dragonfly	NASA	New Frontiers	2025	Titan	2	DLR AS, SR, ST	COMARS, ESI Hitzeschildsensorik
Nancy Grace Roman	NASA	New Frontiers	2026	microlensing, exoplanets			
MMX	JAXA		2026	Phobos	2	DLR WF	DLR/CNES rover (IDEX); Radiometer (miniRAD); Raman spectrometer (RAX)
PLATO	ESA	M3	2026	exoplanets	1	DLR WF; MPS; FU Berlin; RIU	Fast camera h/w+DPS
CLPS CP-22	Intuitive Machines	NASA CLPS	2026	Mond		DLR WF	science
ExoMars rover	NASA	Exploration	2028	Mars	2	MPS, DLR WF	Mars Organic Molecule Analyser (MOMA, PI in MPS), Panoramic Camera (PanCam, Co-PI in DLR) und Water Ice and Subsurface Deposit Observation On Mars (WISDOM).
VERITAS	NASA	NASA Discovery	2029	Venus	1	DLR WF	IR imaging spectrometer
CometInterceptor	ESA	F1	2029	Comet	1	DLR WF	camera Co-PI
DESTINY+	JAXA		2029	Venus	1	Univ. Stuttgart, Institut für Raumfahrtssysteme (IRS)	dust analyzer (DDA)
ARIEL	ESA	M4	2029	exoplanets		MPS	
Vigil	ESA	ESA Space Safety Programm	2031	space weather	1	MPS	PMI: Photospheric Magnetic field Imager
EnVision	ESA	M5	2032	Venus	1	DLR WF	IR spectrometer