

**FROM THE ROSETTA LANDER PHILAE TO AN ASTEROID HOPPER:  
LANDER CONCEPTS FOR SMALL BODIES MISSIONS**

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The investigation of small bodies,, comets and asteroids, can contribute substantially to our understanding of the formation and history of the Solar System. In situ observations by Landers play an important role in this field.

The Rosetta Lander – Philae – is currently on its way to comet Churyumov Gerasimenko.

Philae is an example of a ~100 kg landing platform, including a complex and highly integrated payload, consisting of 10 scientific instruments.

Other lander designs, more lightweight and with much smaller payload are currently investigated in the frame of a number of missions to small bodies in the Solar System.

We will address a number of possible concepts, including mobile surface packages.