



# COMPASS-1

Hands-on experience for the space engineers of tomorrow

## *The Vision*

The importance of future-oriented training and motivation of prospective space engineers is acknowledged in the CubeSat project at the FH Aachen, providing an ideal opportunity for students in research and scientific application.

## *The Mission*

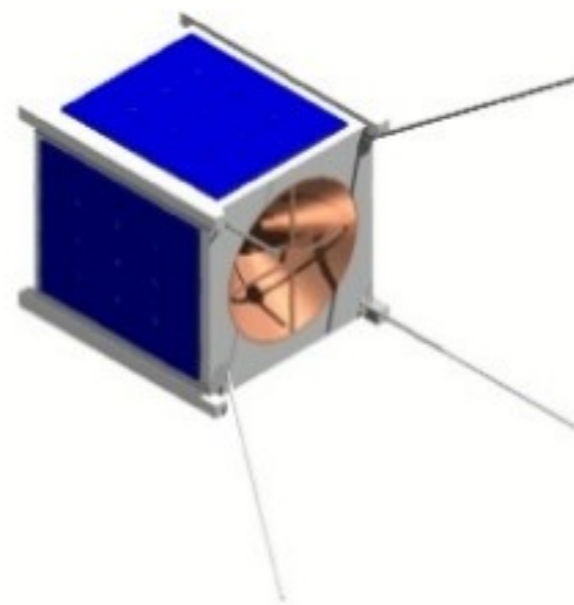
### *earth observation*

An optical sensor points constantly towards earth, capturing pictures on request from ground. The data will be available to the scientific community for evaluation, in particular for disaster management (flooding).

### *technology demonstration*

The other payload is a Ka-band antenna that relays data towards other satellites. Knowing the parameters and content of the transmission, the satellite link can be evaluated for reliability and future applications.

## *The Spacecraft*



10x10x10 cm cube  
1 kg of total mass  
1,5 Watt Power  
3-axis stabilized  
L-band communication

[www.raumfahrt.fh-aachen.de/projects/compass-1](http://www.raumfahrt.fh-aachen.de/projects/compass-1)