

# Kepler's mission to the ISS

Europe's second Automated Transfer Vehicle, named after German astronomer Johannes Kepler, has four objectives: to deliver more fuel, boost the orbit of the International Space station, move the ISS out of the way of potentially dangerous space debris, and take away waste

## ATV-2 (Europe)

Second of five □ 300 million space taxis.  
Length: 9.8m

Solar panels supply 4.8kW

**Zvezda**  
(Russia)

**Zarya**  
(Russia)

## Progress (Russia)

Cargo ship can deliver three tonnes of supplies

**Destiny**  
(U.S.)

**ATV-2:** Will use its four main engines and 28 thrusters to boost ISS from current altitude of 360km to higher orbit of 400km

**Service Module:** 22 tanks of propellant, air, oxygen, nitrogen and drinking water to re-supply ISS

**Cargo Carrier:** Pressurized section carries 7 tonnes of cargo

Packed with waste, ATV-2 will burn up in atmosphere during re-entry