

COSMIC VISION

The New ESA Horizons Programme



Space Science? .

*'We are all in the gutter,
but some of us are looking at the stars....*



Oscar Wilde

Irish poet, playwright and author

Space science looks out at the grand questions....

How did our Earth, our solar system evolve?

Where are we in the Universe?

Where did life come from?

Where are we going?

Are we alone?

Flying already? -- Solar Terrestrial Science



**SOHO/
Cluster**



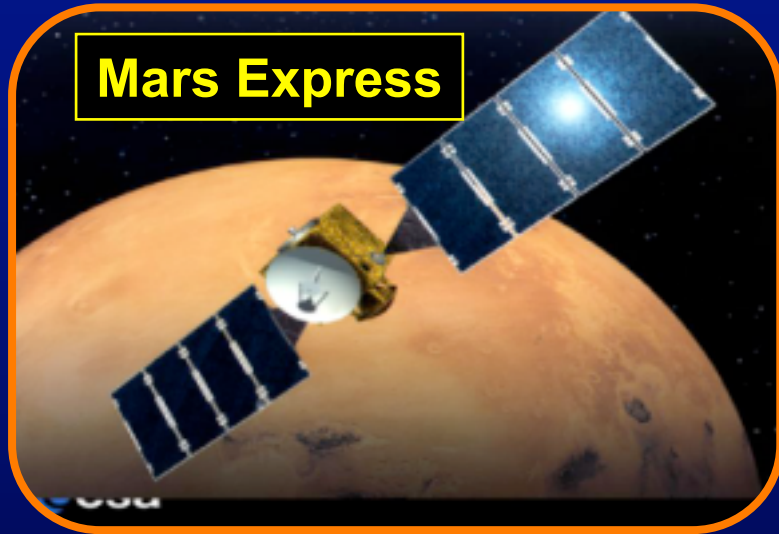
Ulysses



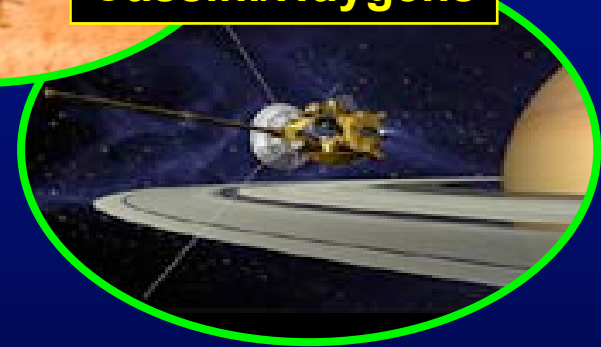
Double Star

Flying already? -- Planetary Science

Mars Express



Cassini/Huygens



Smart 1



Rosetta



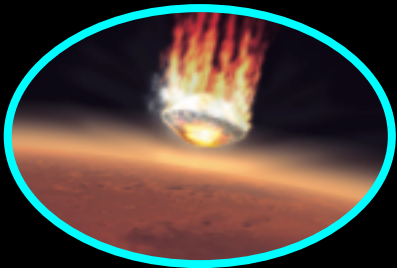
Flying already? Astronomical Observatories



Mars Express launched to Mars



Beagle2 captures public imagination !



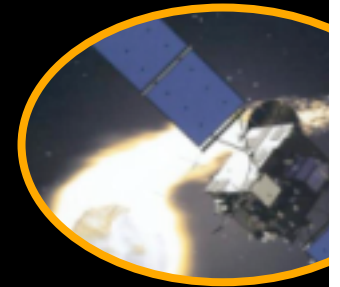
Smart-1 on its way to the Moon !



Double Star 1 & 2 launched with China !



Rosetta launched to a comet!



First Mex results, 3D images, Water on Mars !





Venus
Express



Bepi
Colombo

Cassini/Huygens arrives at Saturn !

Huygens separates from Cassini

Huygens lands successfully at Titan !

Smart-1 completes mission
starts lunar science

Formaldehyde on Mars – organics?!

Frozen sea found on Martian equator !

All Solar System



Herschel



Solar
Orbiter



JWST

Cosmic Vision



GAIA



LISA

Astronomy



Planck

Hubble



15 Years in Orbit

