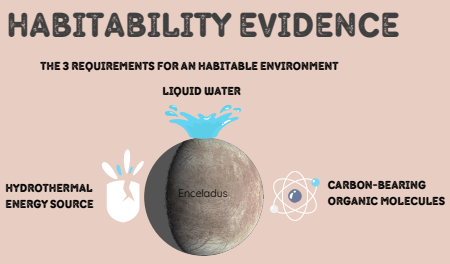
IT'S ALL ABOUT

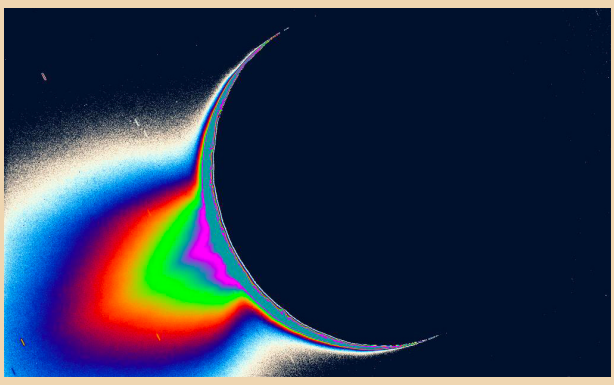
Enceladus' Reconnaissance for Astrobiology (ERA)

A quick infographic summarizing our mission to this far away satellite.



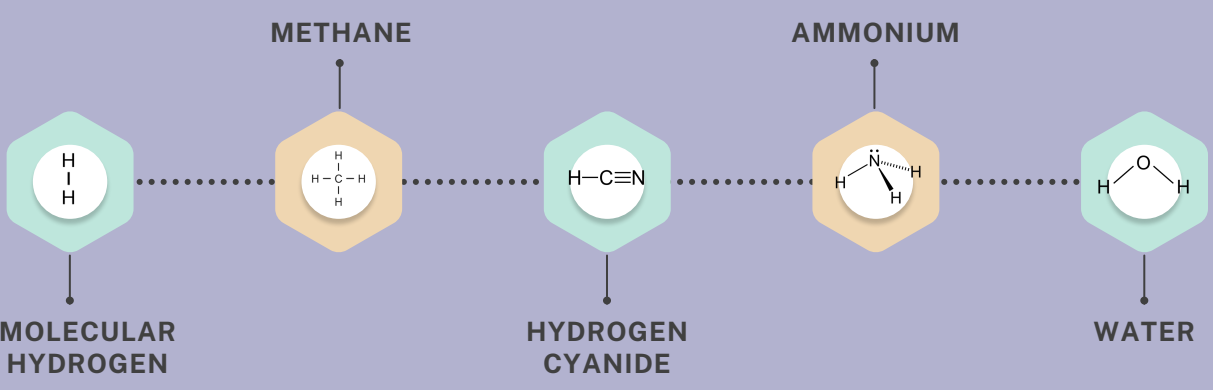
THE KNOWNS

Data from Cassini (est. 2004) open the doors for questions regarding this Icy Moon, however, we are faced with limited data.



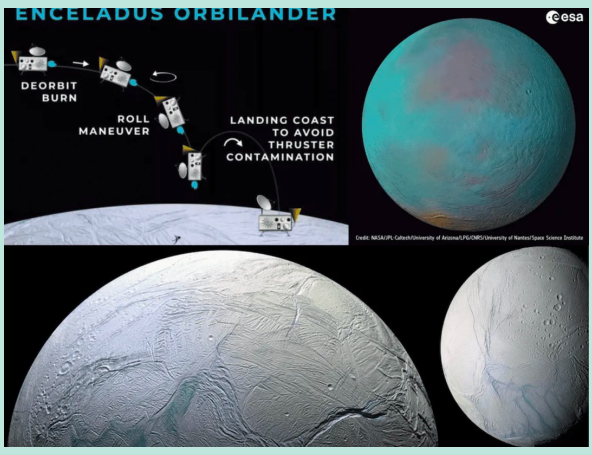
ZONE OF INTEREST

The south pole provides insight into both the rock-water interactions as well as chemical alteration from the ejections to the E-Ring. It is important to characterize chemical alteration due to possible destruction of potential biosignatures



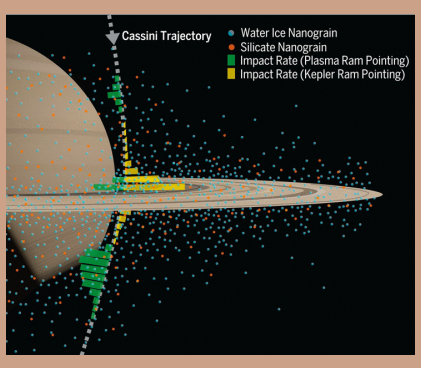
KNOWN COMPOUNDS

Organics present open a big question regarding habitability and proposals for New Frontiers missions after Titan, Europa and Uranus.



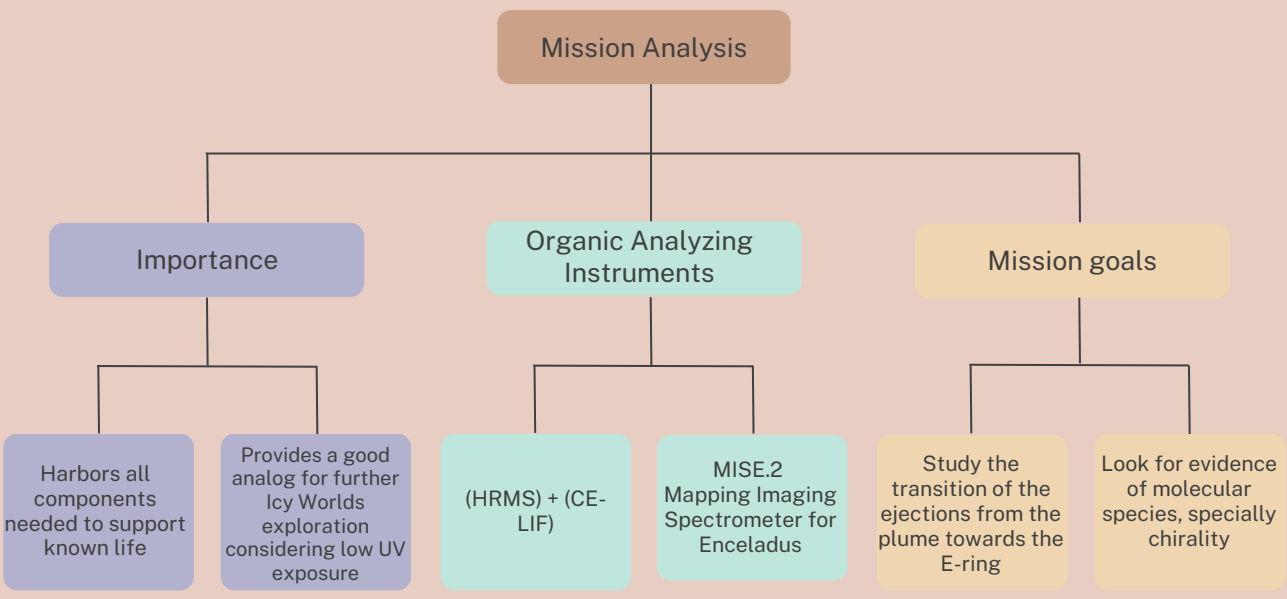
ASSESSMENT

Mission data provides a direct measurement of the system and can analyze the half life of possible biosignatures



E-RING SPOTLIGHT

The ejecta from the plumes form what is know as Saturn's E ring. Contrasting the plume from the surface and E-ring can help determine changes in composition and viability of molecules after the trajectory



MISSION STRUCTURE

The organizational structure determines how the main components of the mission play out to ensure mission success and proper analysis of the planetary system.