



SPACE FLIGHT CENTER

NASA Goddard's Outlook Supply Chain 2018 Conference

Chris Scolese, GSFC Director October 23, 2018

Goddard: NASA's first, and oldest, space center



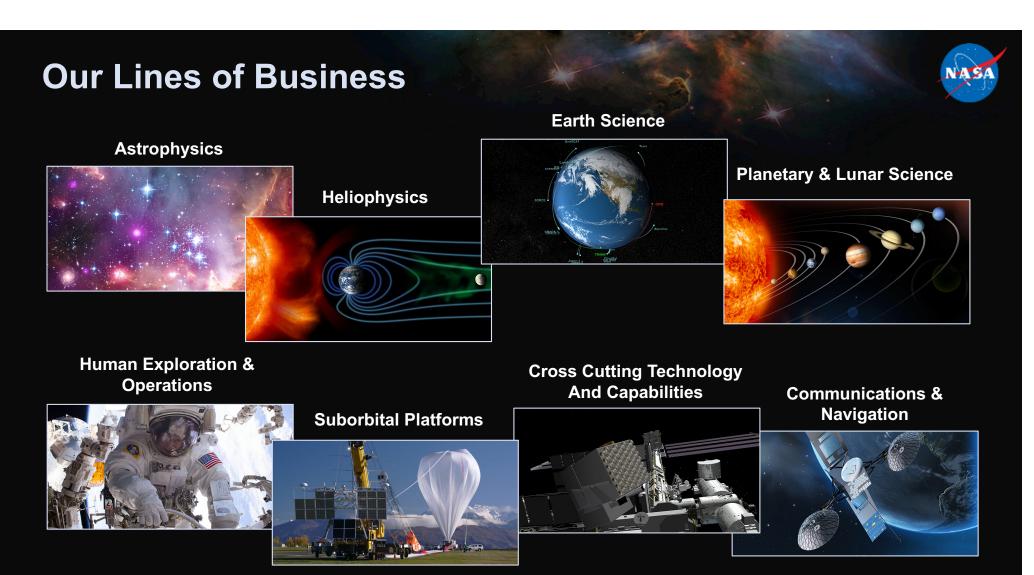
Key Science Themes

Discovering the Secrets of the Universe

Translate the knowledge and technologies derived from these areas of exploration to practical applications today.

Searching for Life Elsewhere

Safeguarding and Improving Life on Earth





GSFC: a Diverse Mission Portfolio



What We're Looking Forward to in 2018

TESS

will **search for planets outside of our solar system** while monitoring the brightness of more than 200,000 stars



will repeatedly sample the near-Sun environment

OSIRIS-REx

will **rendezvous with the asteroid Bennu** in 2018 and return a sample to Earth in 2023



2018

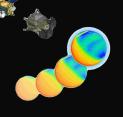


will significantly improve the detection and observation of environmental phenomena



GOLD

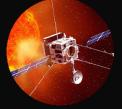
will give **unprecedented insight** into the temperature and composition of **neutral gases in the the thermosphere**



ICESat-2

will provide unprecedented measurement of sea ice thickness and global vegetation biomass

What We're Looking Forward to in 2018 - 2020



SOC

will make in-situ measurements of the solar wind plasma, fields, waves, and energetic particles

JWST

this premier infrared observatory will use innovative technology to study every phase in the history of our Universe and serve thousands of astronomers worldwide

2018

MetOp-C

will provide reliable global environmental measurements of Earth

2019

LCRD

will support the next generation of NASA's space communications network

2020

Goddard Missions to the International Space Station

RAVEN



helps NASA test key elements of a new spacecraft autopilot system

TSIS

provides absolute measurements important for accurate scientific models of climate change and solar variability



RRM-3

will show how future robots could service and refuel satellites in space

2017

NICER



tests for the first time in space technology that uses pulsars as navigation beacons

ISS-CREAM



the first cosmic ray instrument designed to detect higher energy ranges over an extended duration in space

2018 GEDI



will be the first instrument to systematically probe the depths of the forests from space

²⁰²² ISS-TAO



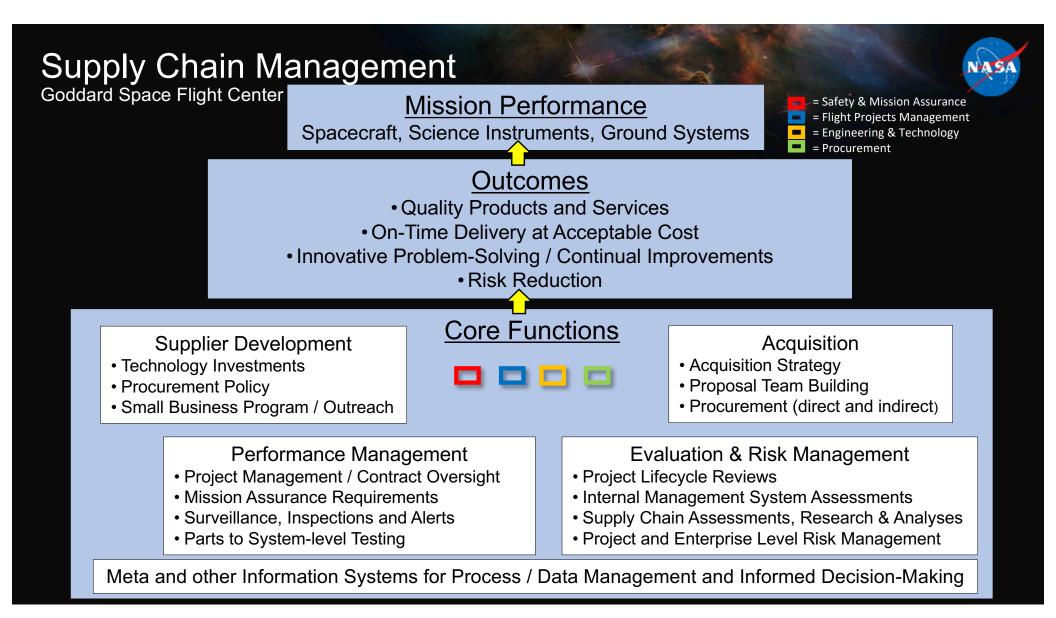
will monitor the sky in search of *transient X-rays* and gamma rays

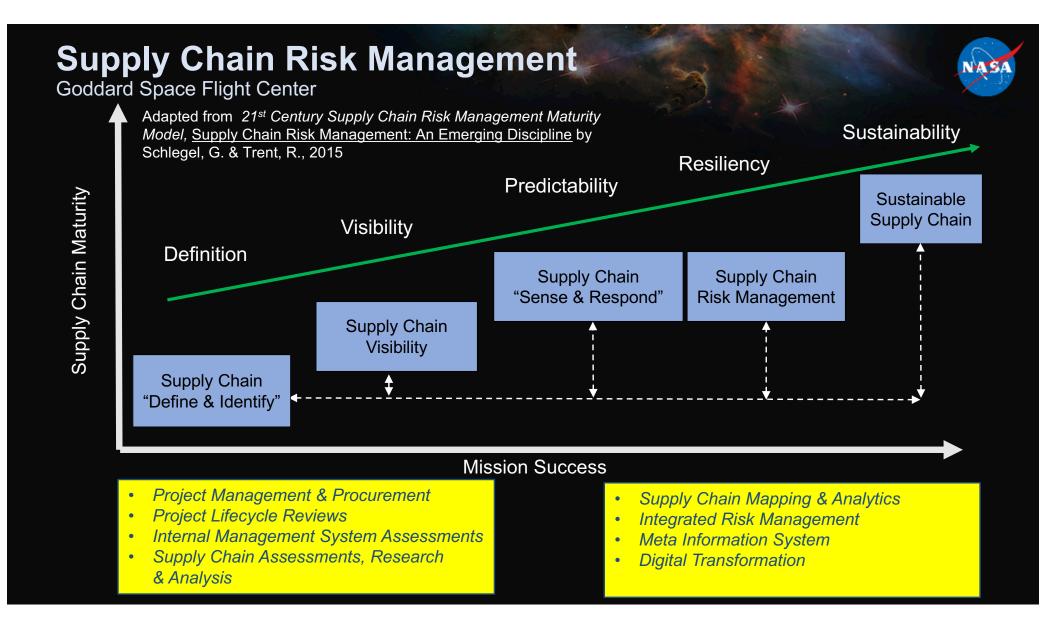
Transiting Exoplanet Survey Satellite (TESS)

Medium Class Explorer

Launched April 18, 2018









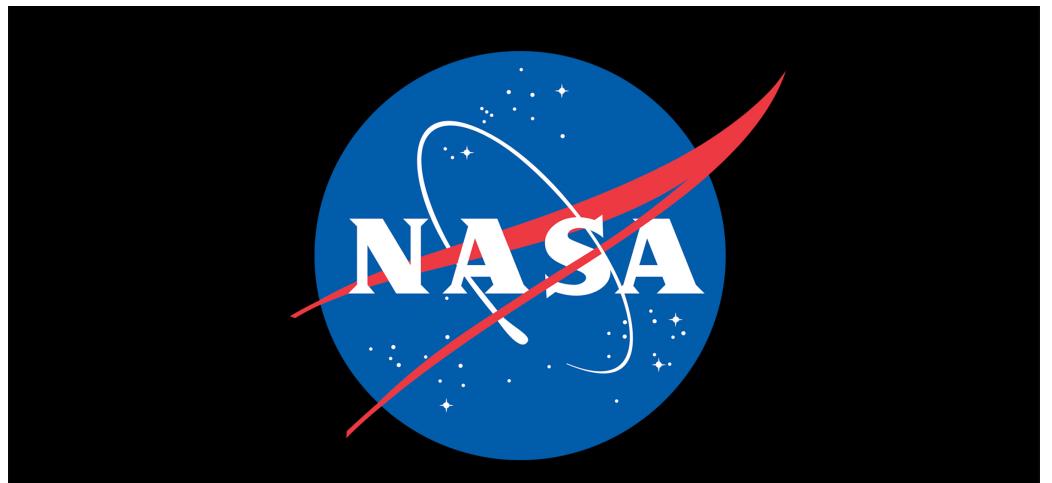
"Building what we've never built before, to discover what we've never known before."

INSPIRING THE NEXT GENERATION

ration

It is difficult to say what is impossible... for the *dream of yesterday* is the *hope of today* And the *reality of Tomorrow*.

- Robert H. Goddard (1882 - 1945)



For more information, please visit our web site: www.nasa.gov/goddard