NANCY GRACE ROMAN SPACE TELESCOPE

Expanding Our View

Roman’s Scientific Scope

The questions driving Roman

How did the universe form into what we see today?

What are dark energy and dark matter?

How do they influence the universe’s evolution?

What are planets beyond our solar system like?

Are we alone?

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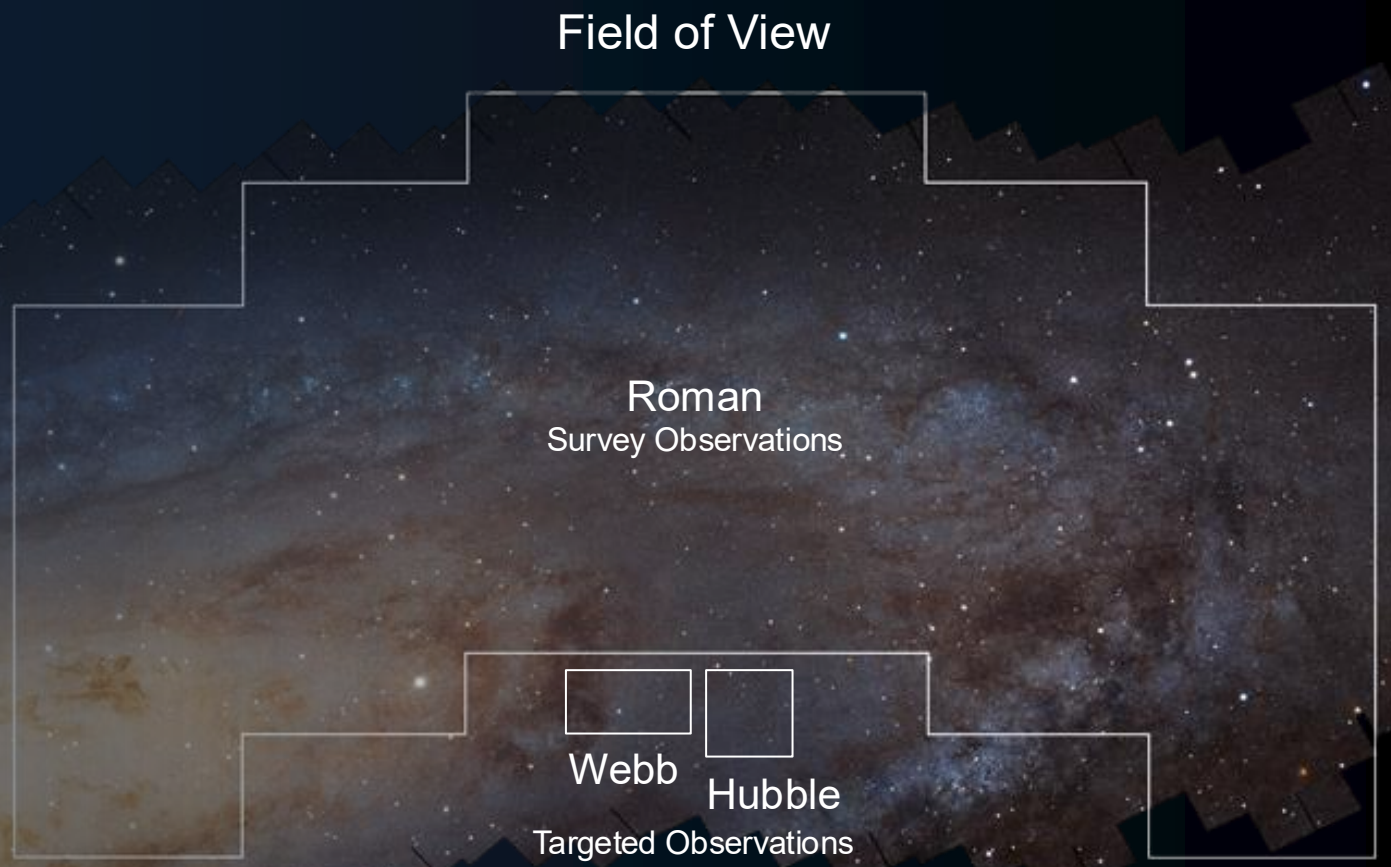
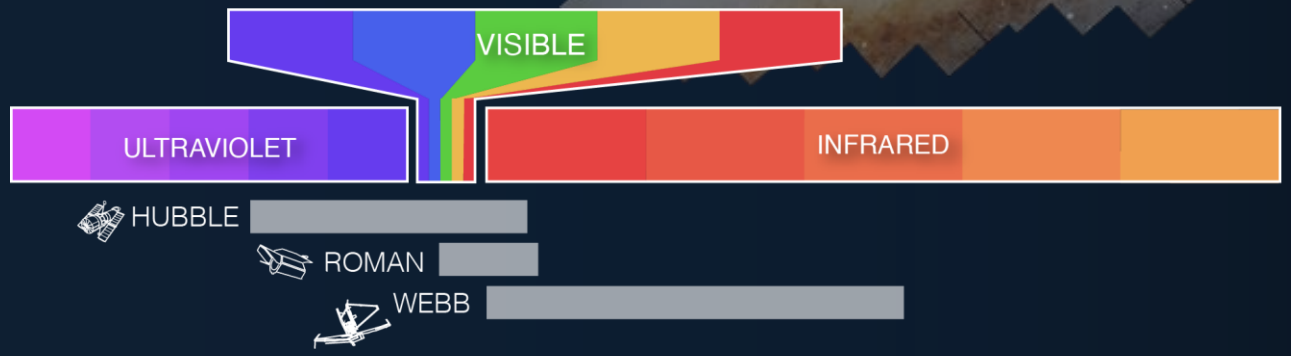
Understanding the Big, Detailed Picture

Scanning more of the sky faster at high resolution





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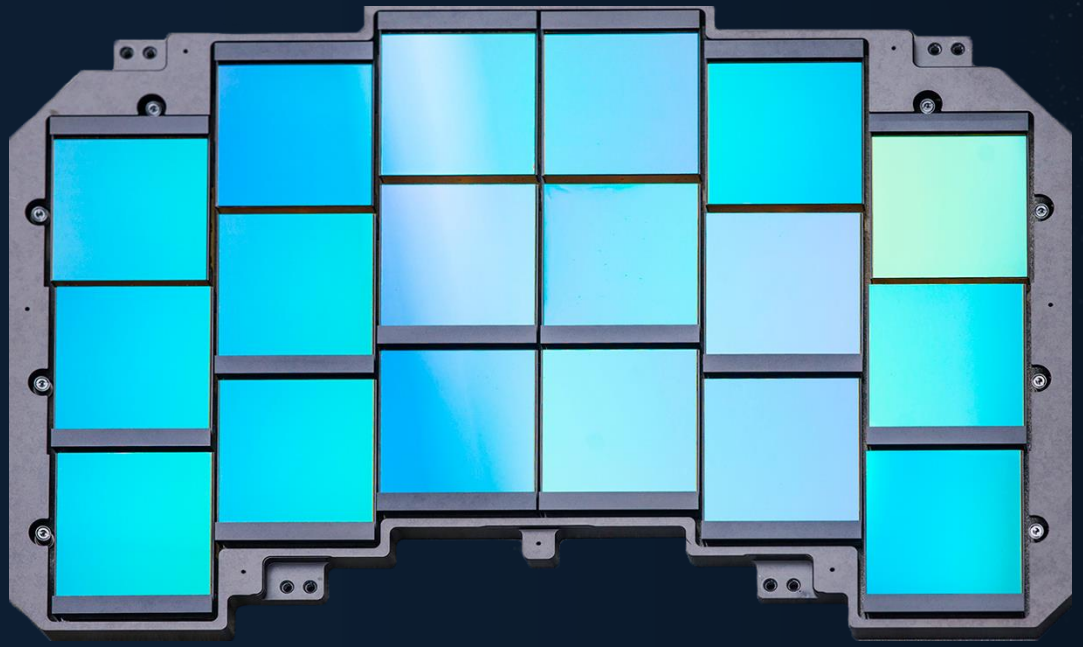
The Roman Spacecraft

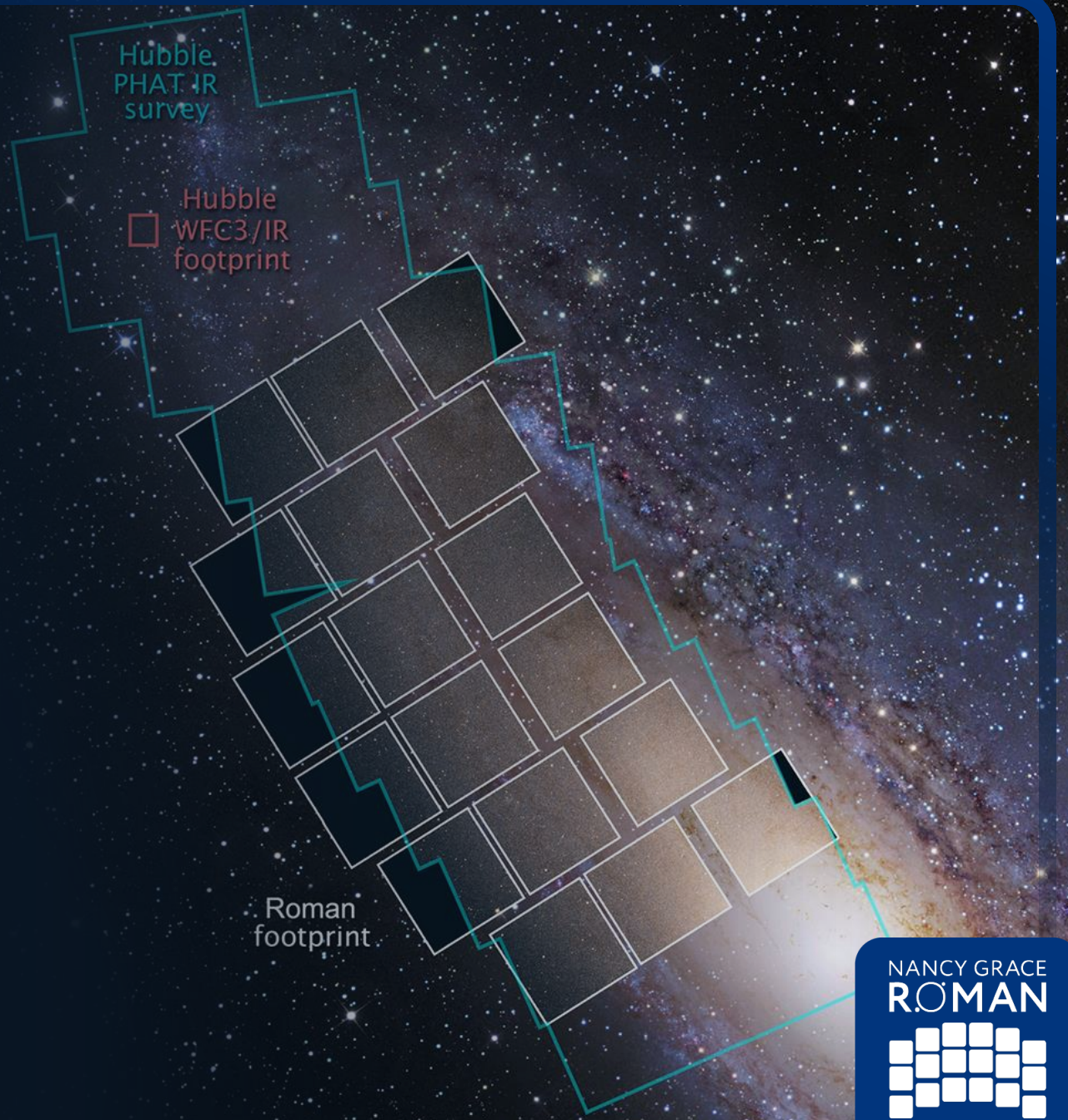
Innovative tools for success

INNOVATIVE TOOLS FOR SUCCESS

The Wide Field Instrument (WFI)

Roman's eyes to the near-infrared universe





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INNOVATIVE TOOLS FOR SUCCESS

The Coronagraph

A planet-imaging tool that will help shape future space-based technology

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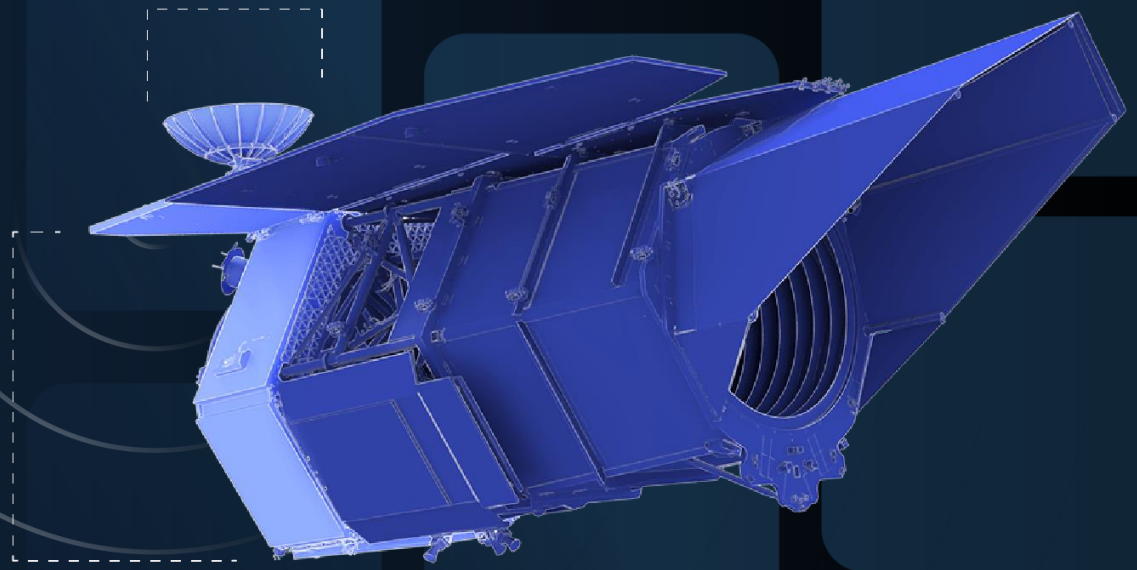
INNOVATIVE TOOLS FOR SUCCESS

High-Gain Antenna & Observatory Support Systems

The foundation that allows Roman to collect and send data to Earth



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Broad Scientific Surveys

Planets by the thousands, stars by the billions, galaxies by the millions

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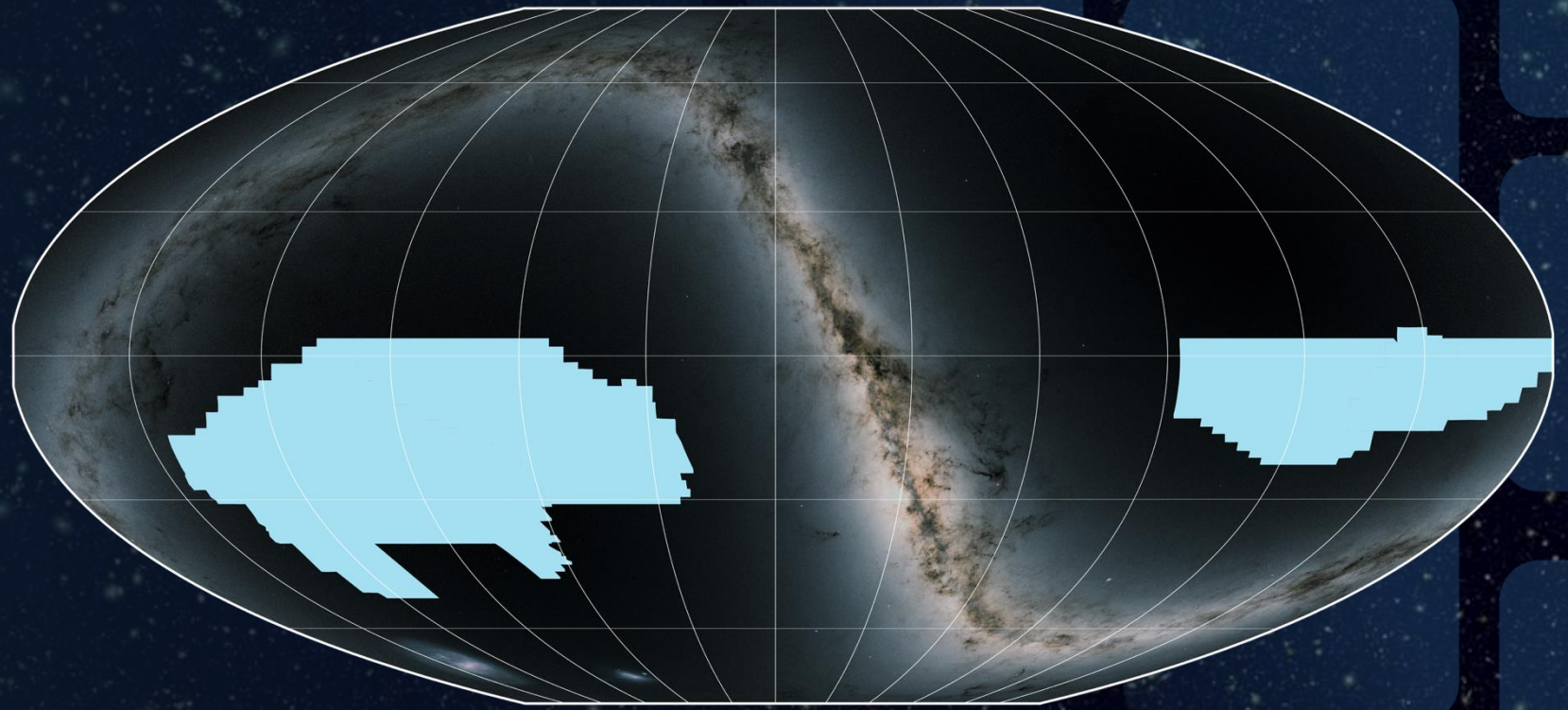
High-Latitude Wide-Area Survey

Mapping the universe in 3D



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Understanding Dark Matter with Imaging

Revealing the hidden universe

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Understanding Dark Energy with Imaging and Spectroscopy

Accelerating our knowledge of the universe's expansion

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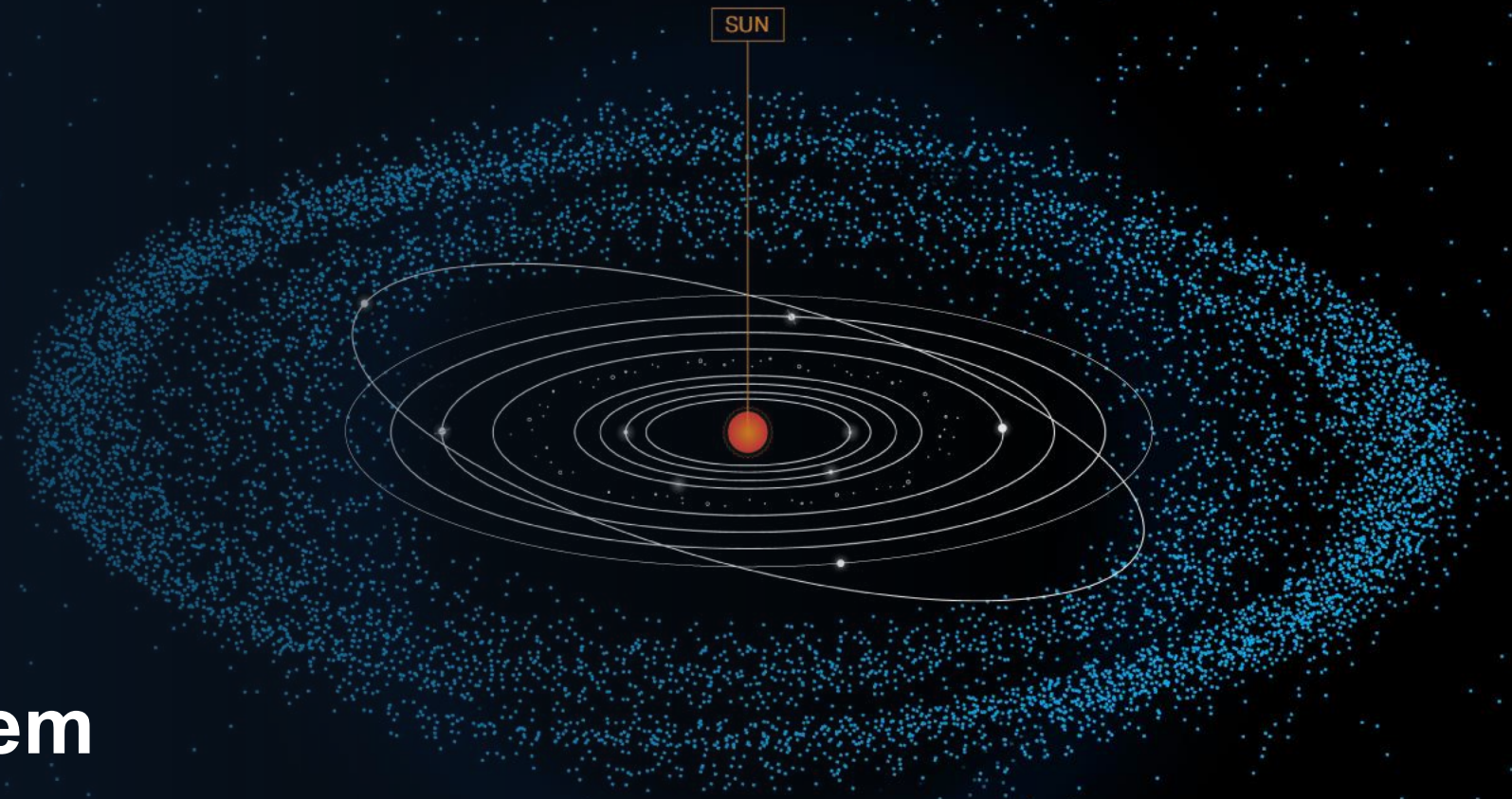

Our Solar System

Conducting science while looking through our planetary system

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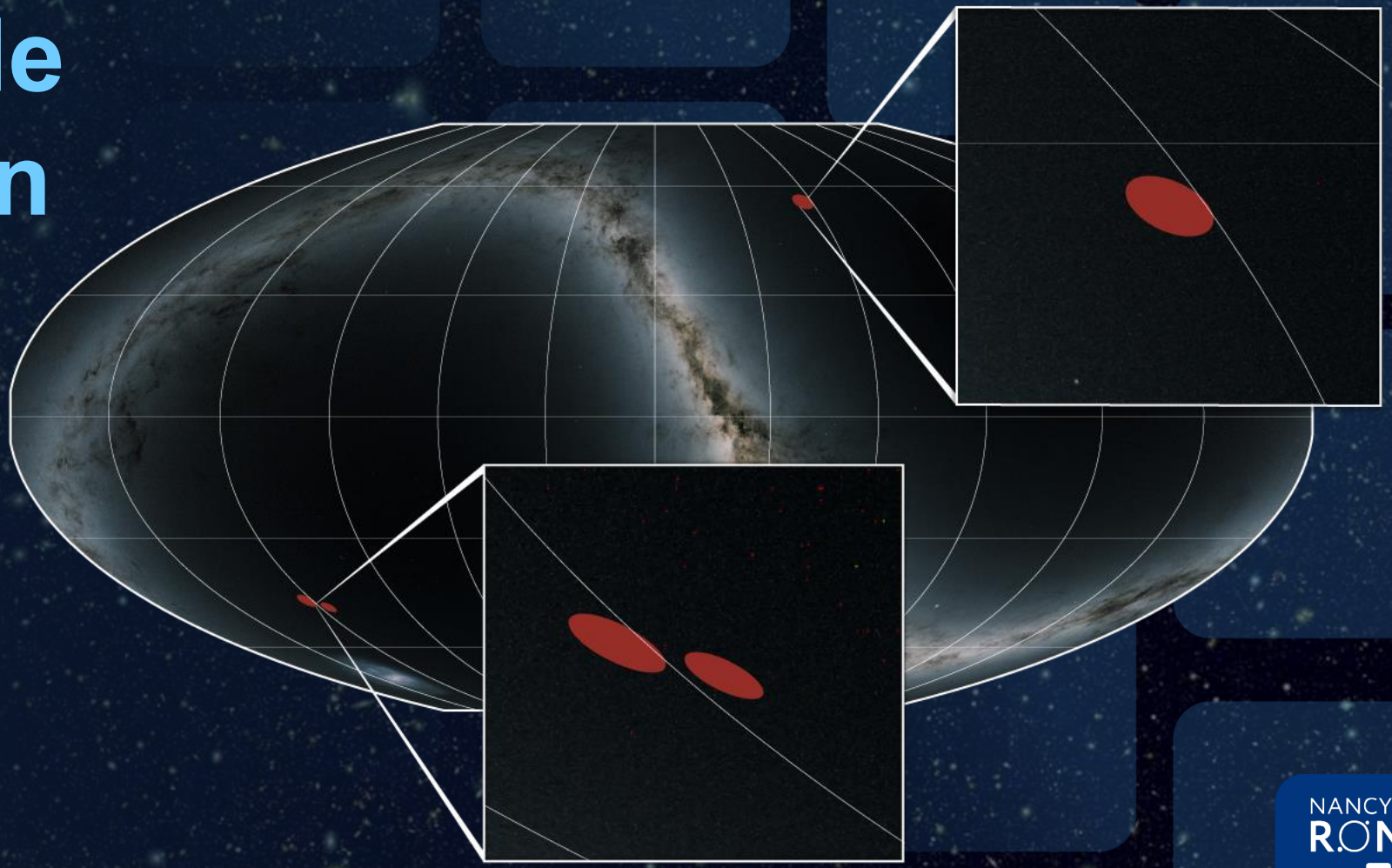
High-Latitude Time-Domain Survey

A front row seat to our changing universe



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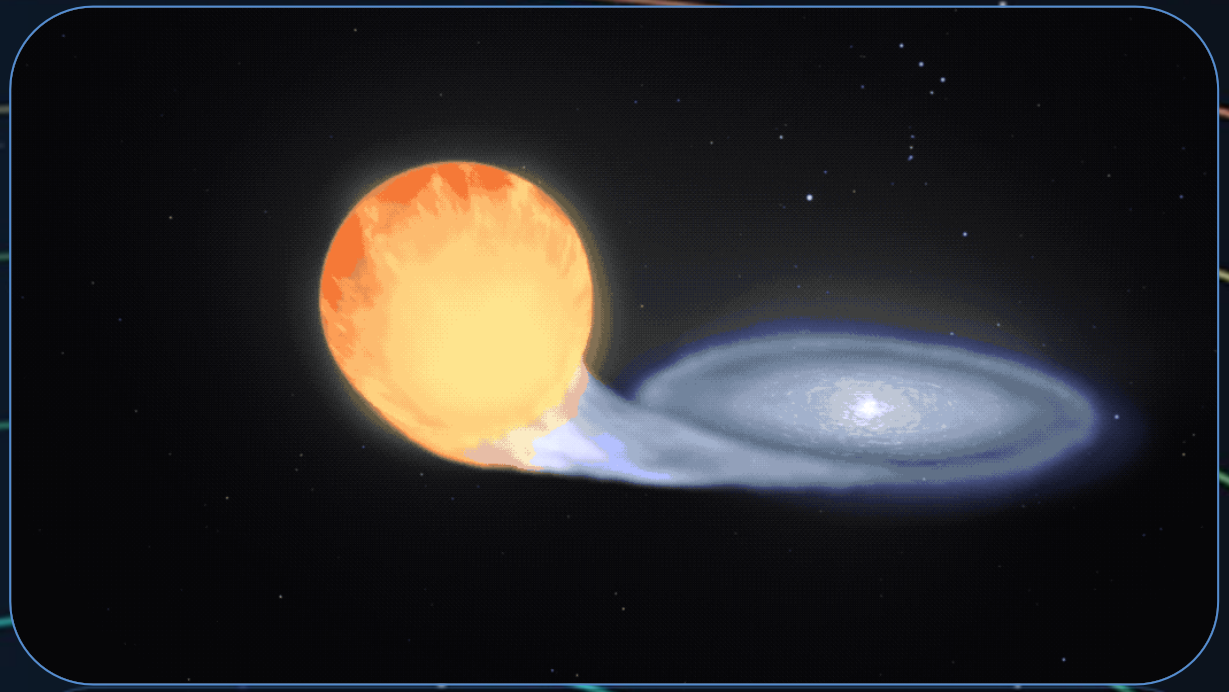
Hunting for Exploding Stars

Tracking supernovae to understand the universe's expansion



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Time-Domain and Transient Events

Seeing change in real time

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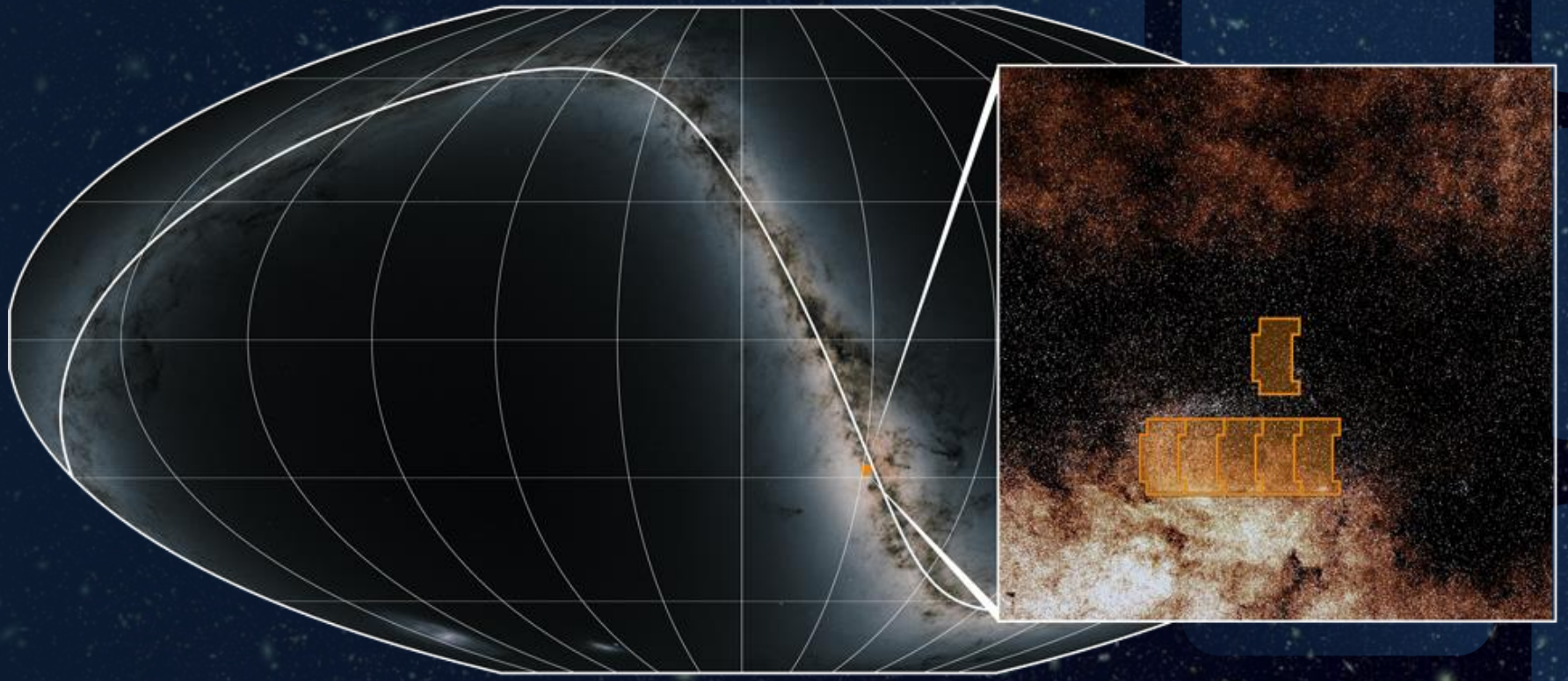
Galactic Bulge Time-Domain Survey

Finding scientific gems within our galaxy's heart



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Exoplanets

Expanding the exoplanet census within our galaxy

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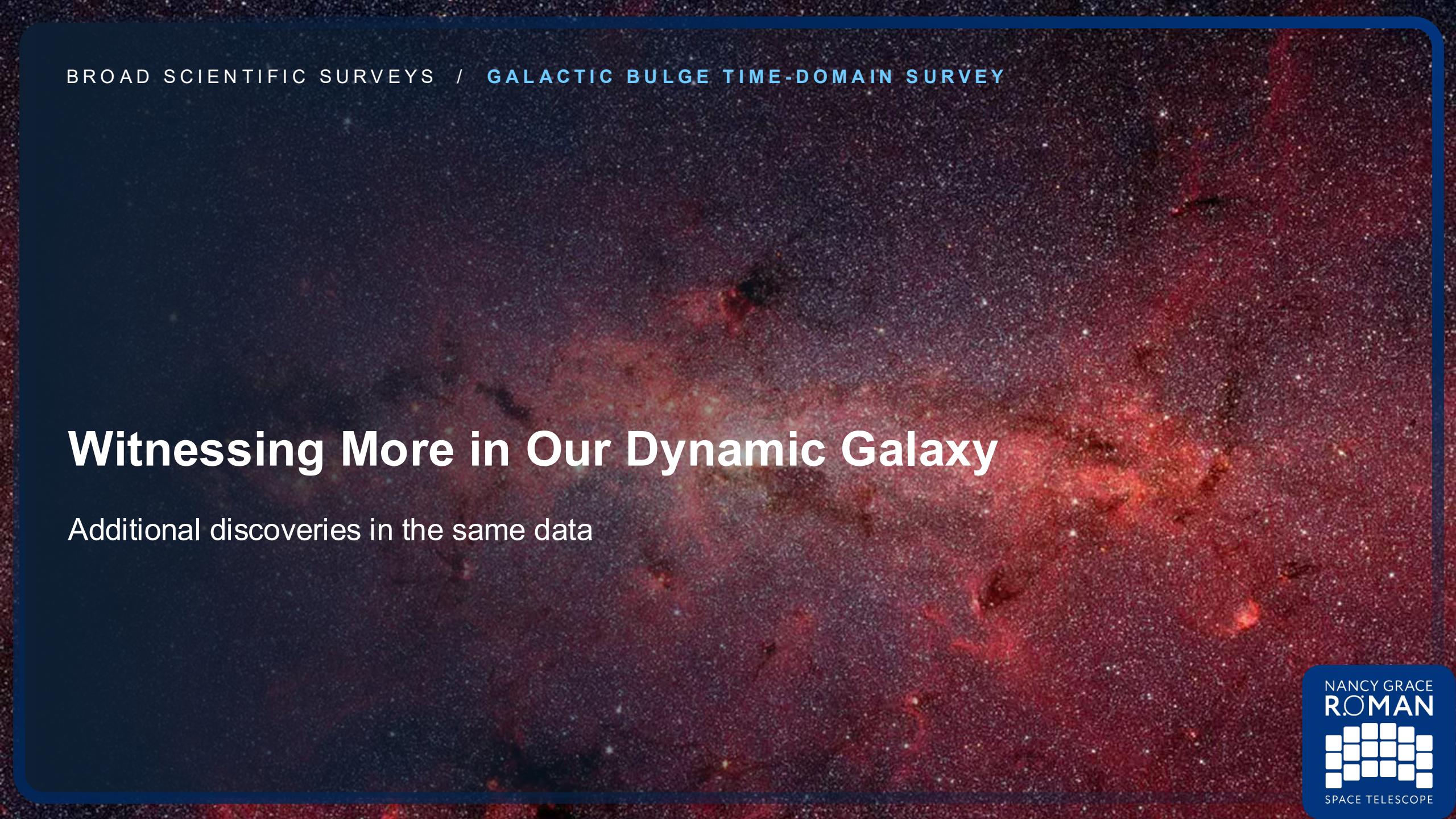
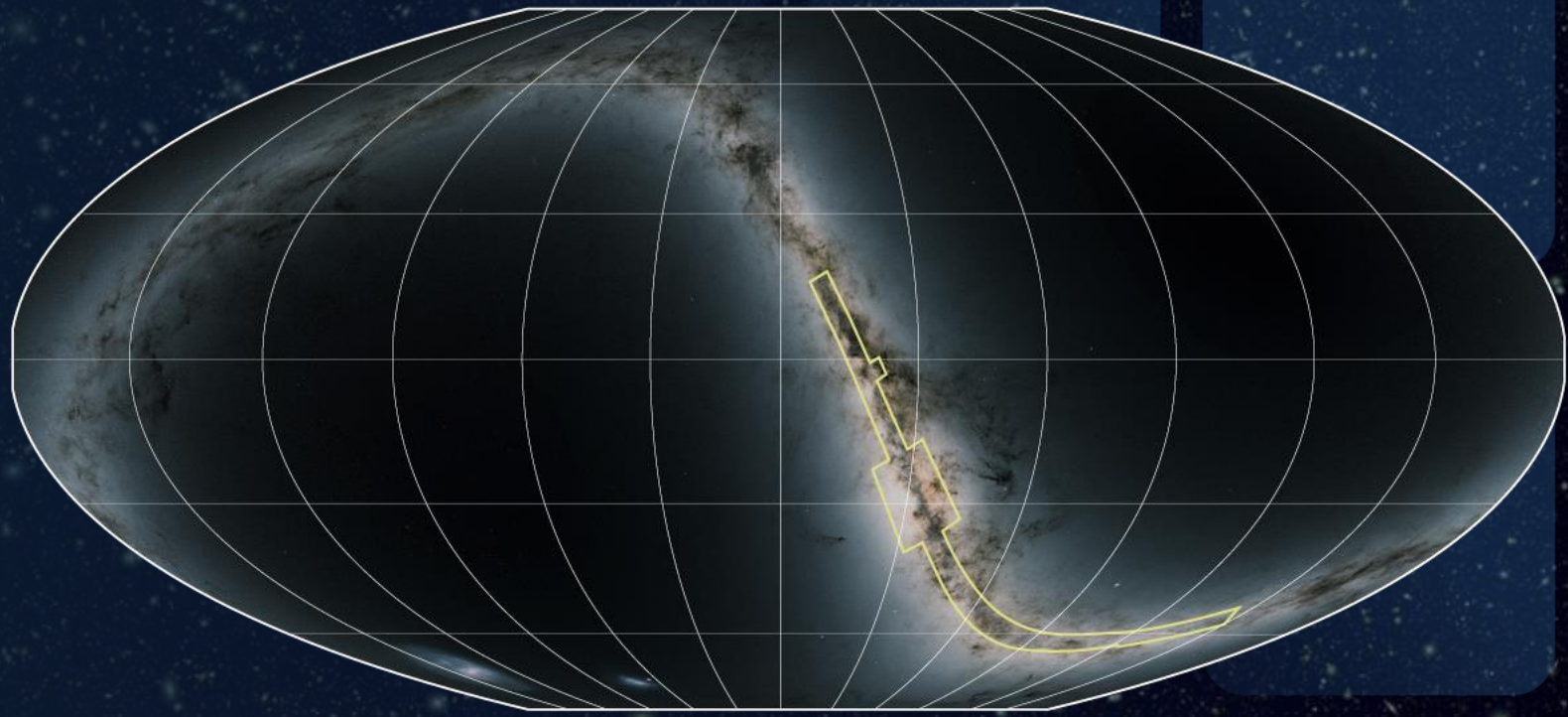
Witnessing More in Our Dynamic Galaxy

Additional discoveries in the same data



Galactic Plane Survey

Understanding our neighborhood



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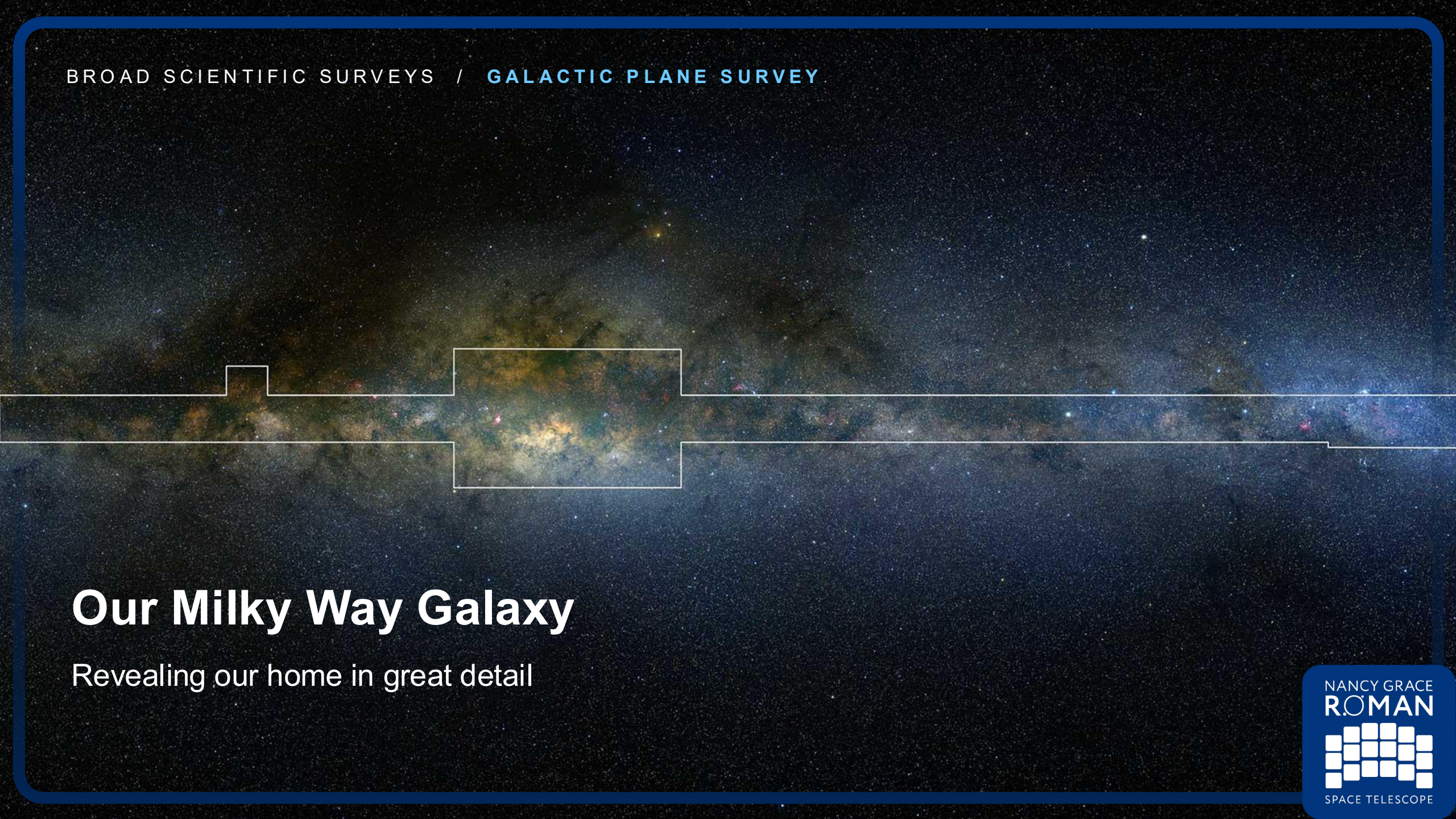

Our Milky Way Galaxy

Revealing our home in great detail

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BIG DATA

Big Data

Information-packed views

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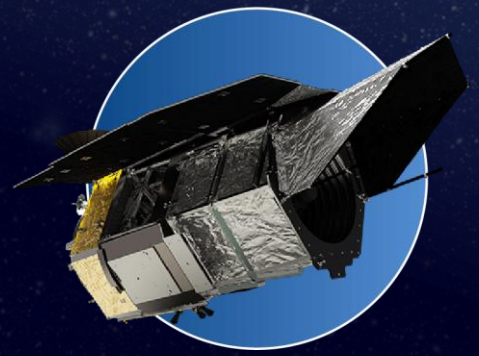
BIG DATA

Data Comparison

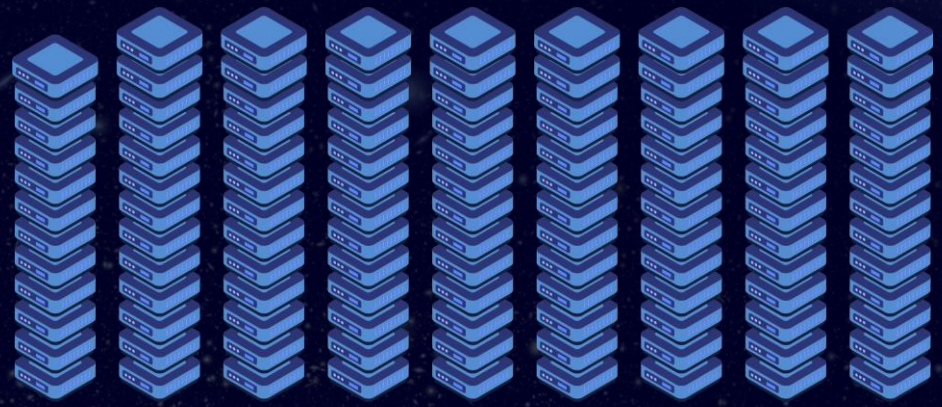
172 TERABYTES

Hubble's Data Archive, First 30 Years
(1990-2020)



20,000 TERABYTES

Roman's Data Archive
Five-year primary mission (projected)



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Roman Research Nexus

A cloud-based meeting space between
Roman data and researchers

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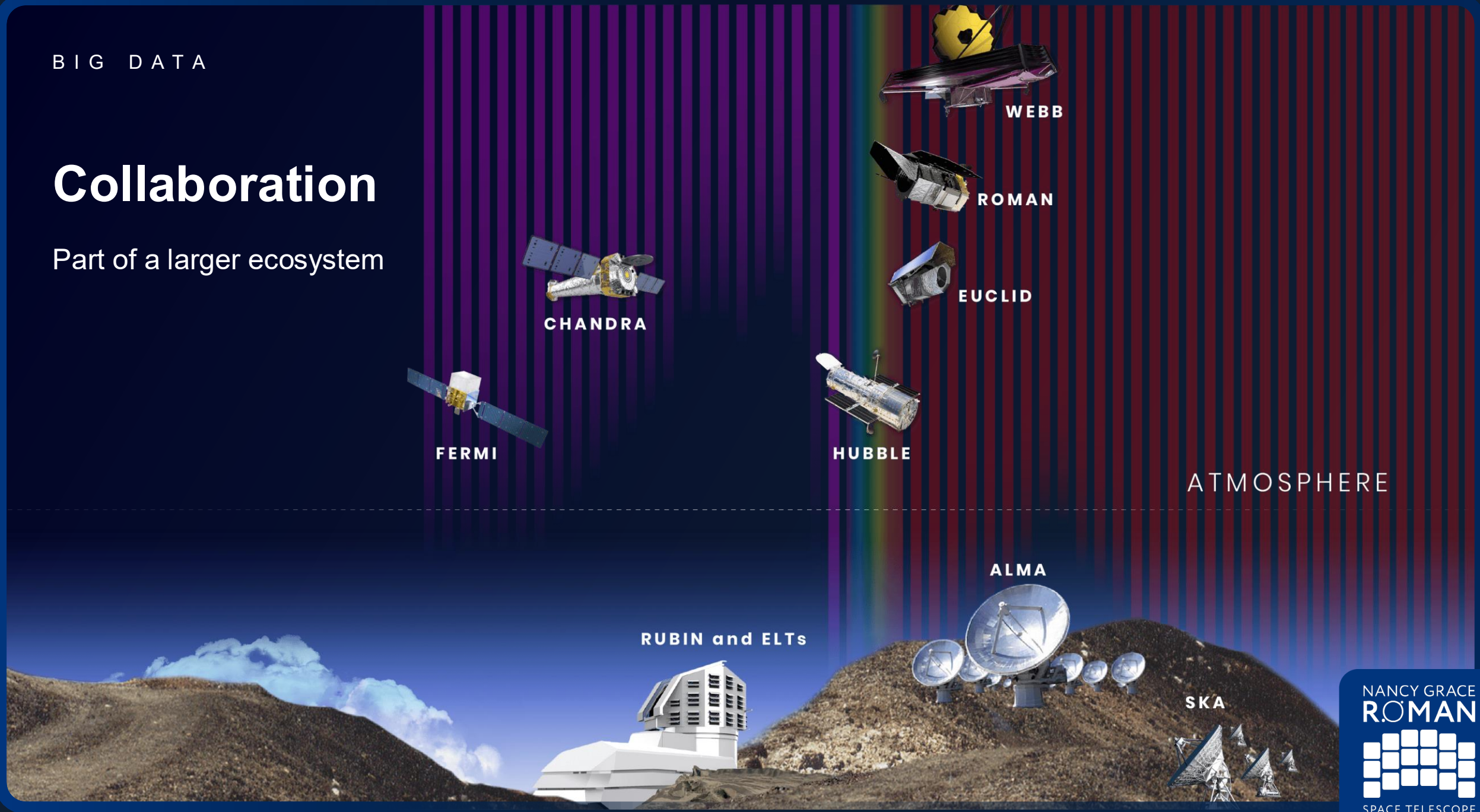
BIG DATA

Collaboration

Part of a larger ecosystem



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Looking Ahead with Roman

Officially slated to launch August 30, 2026

Launch

NASA's Kennedy Space Center in Florida.

Commissioning

Three-month commissioning period during which the telescope and its tools will be tested and calibrated.

First Look Observations

Initial observations will showcase Roman's key capabilities.

Science Operations

Five-year primary mission, with support for an additional five-year extended mission.

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How to Get Involved

Be part of the Roman story

Launch Resources

Share Roman's story and science with your community

Roman Community Events

Get involved and learn about the Roman Space Telescope to host your own Roman-themed event for launch and first images!

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Questions?

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FAQ

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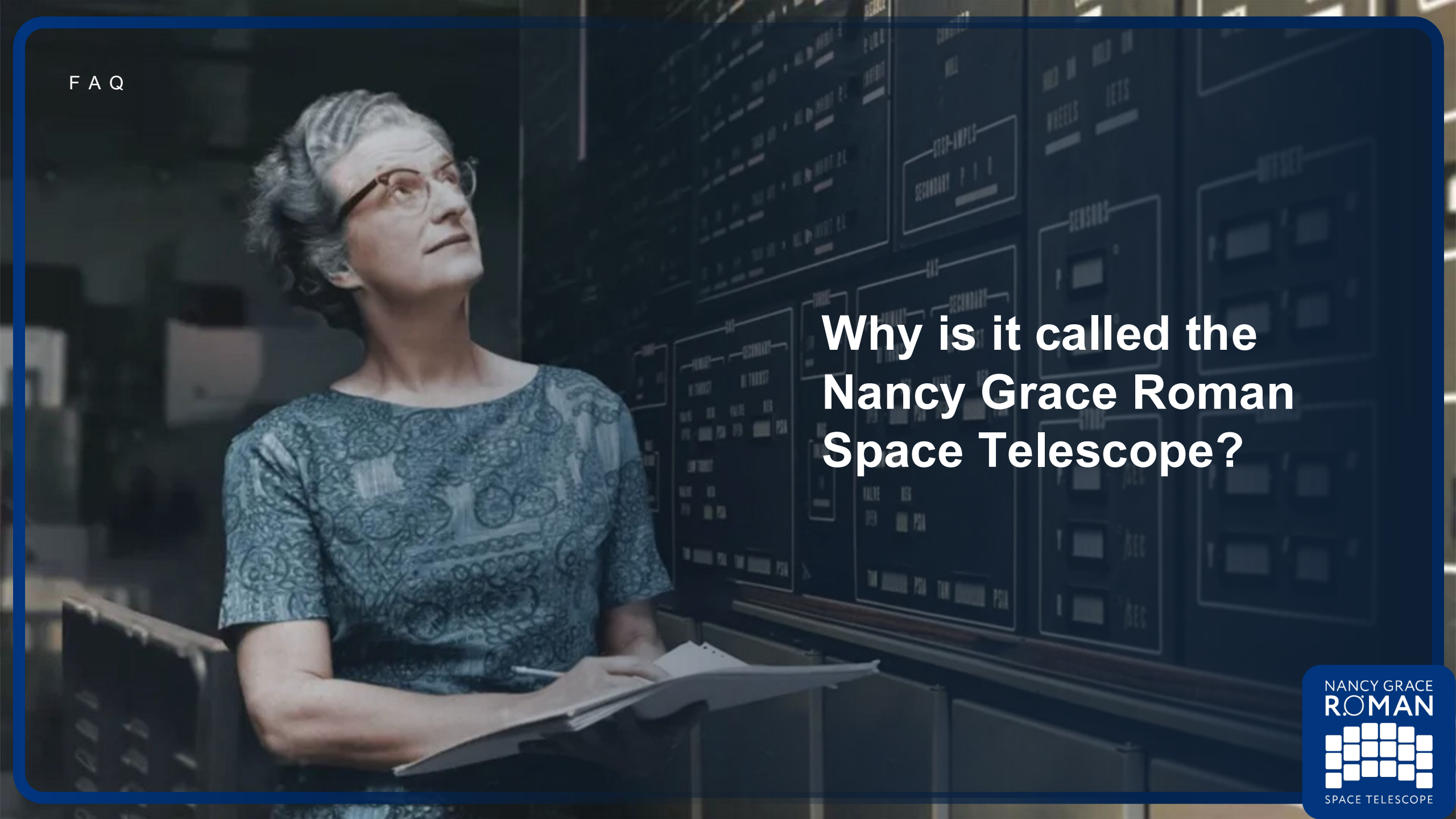
F A Q



Why is it called the Nancy Grace Roman Space Telescope?

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F A Q

What is a survey telescope?

How is it different from Hubble and Webb?

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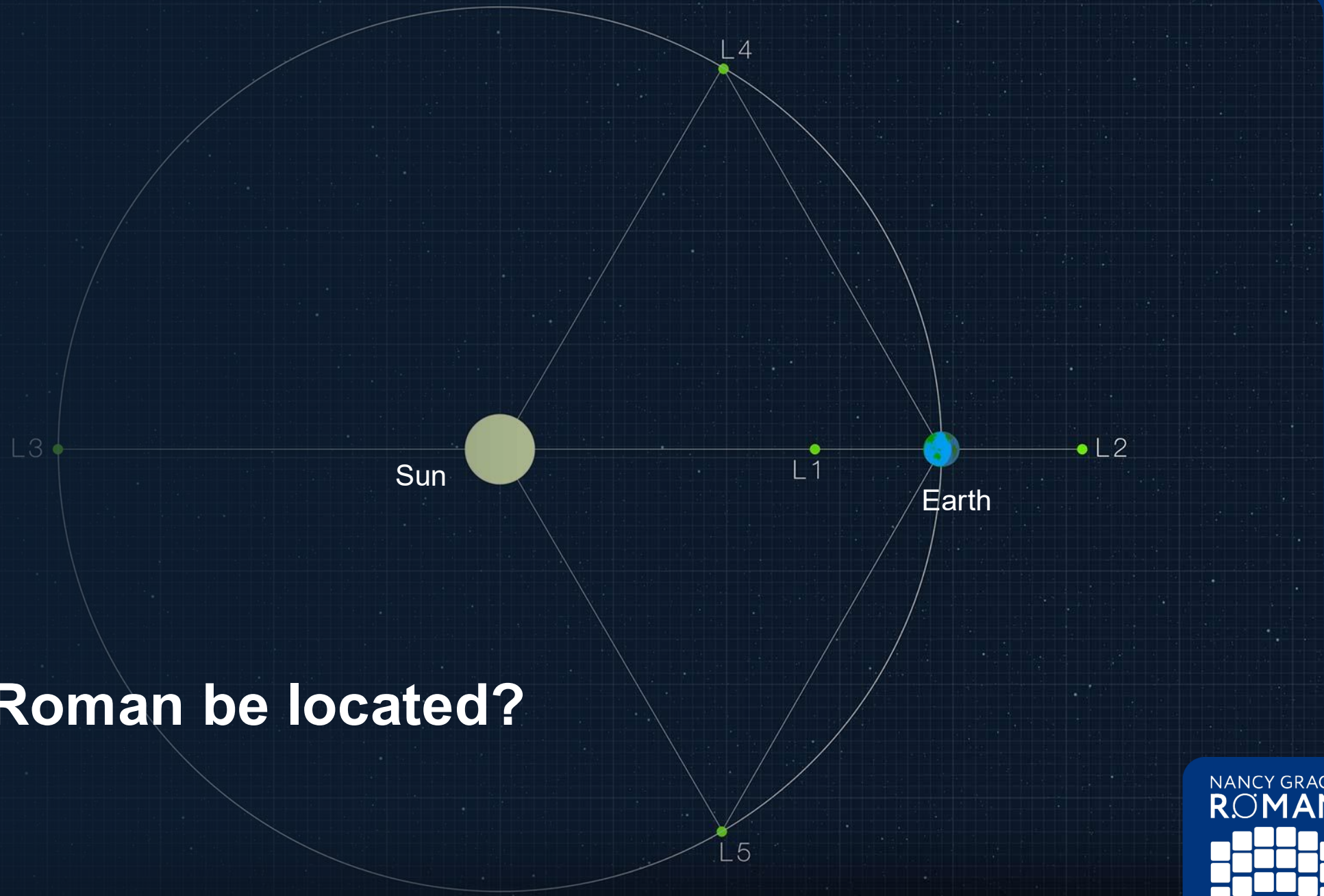
F A Q



Where will Roman be located?

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F A Q

What is dark energy?

What is dark matter?

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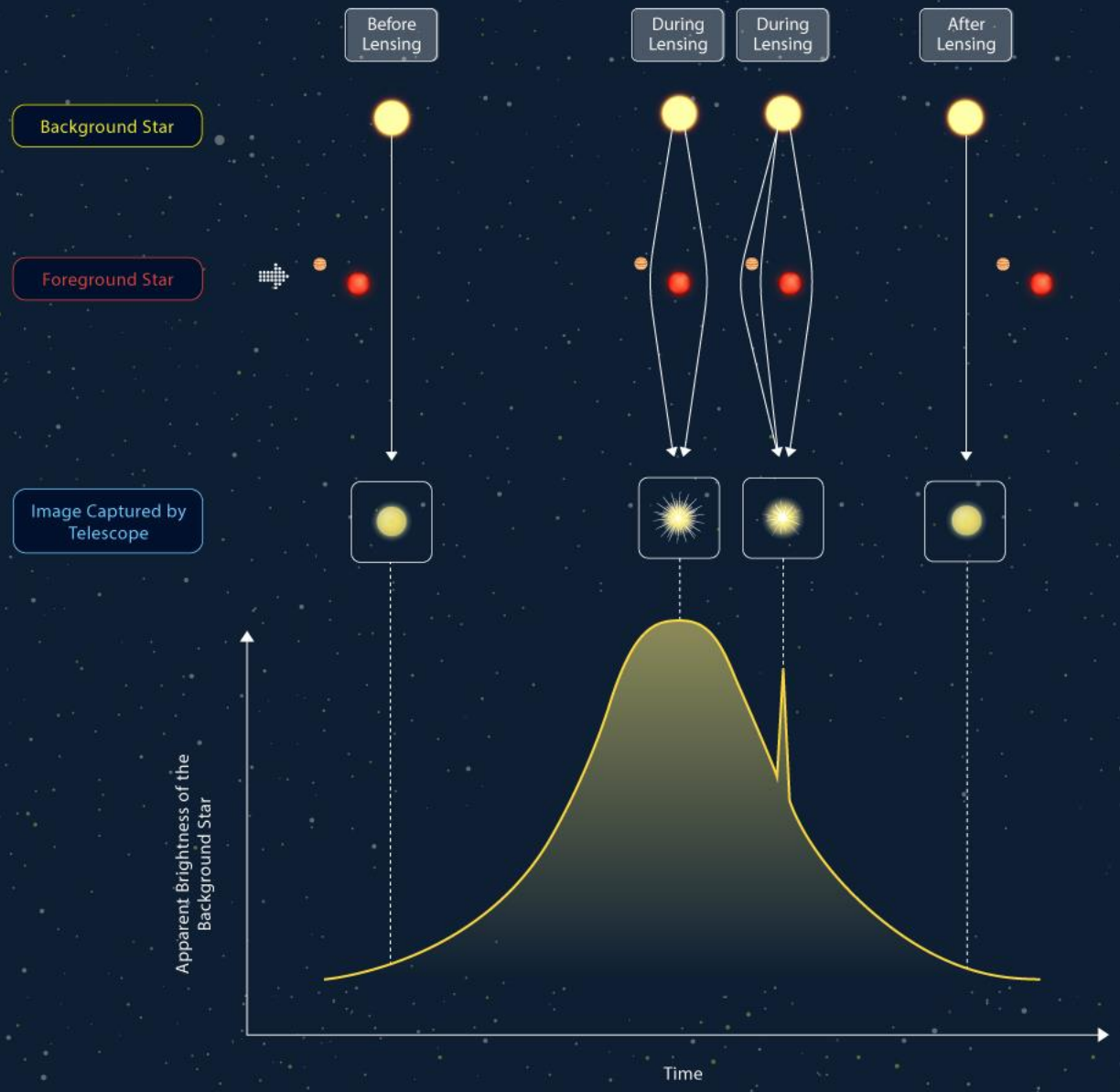
F A Q

What is microlensing?



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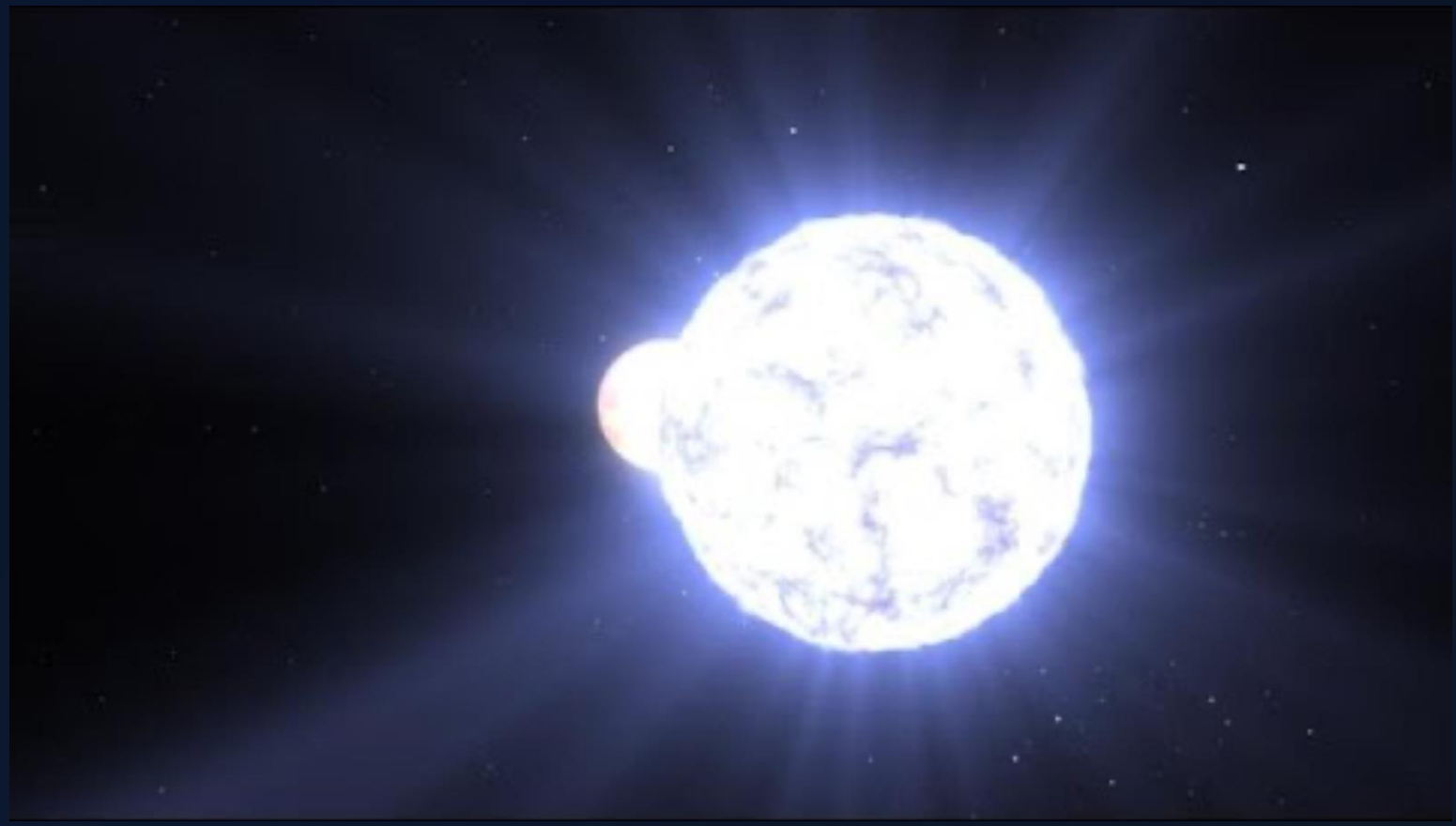
Optional Video Embed Slide



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The Nancy Grace Roman Space Telescope is managed at NASA's Goddard Space Flight Center in Greenbelt, Maryland, with participation by NASA's Jet Propulsion Laboratory in Southern California; Caltech/IPAC in Pasadena, California; the Space Telescope Science Institute in Baltimore; and a science team comprising scientists from various research institutions. The primary industrial partners are BAE Systems Inc. in Boulder, Colorado; L3Harris Technologies in Rochester, New York; and Teledyne Scientific & Imaging in Thousand Oaks, California

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