

# **PRIMA Overview**



Jason Glenn, Principal Investigator, GSFC Margaret Meixner, Deputy PI, JPL Matt Bradford, Project Scientist, JPL Klaus Pontoppidan, Deputy PI, JPL Alexandra Pope, Science Lead, UMass Tiffany Kataria, Deputy Science Lead, JPL Betsy Mills, Communication Lead, KU





### **NASA Astrophysics Probes**



The National Academies of SCIENCES • ENGINEERING • MEDICINE

### Pathways to Discovery in Astronomy and Astrophysics for the 2020s



#### Scope

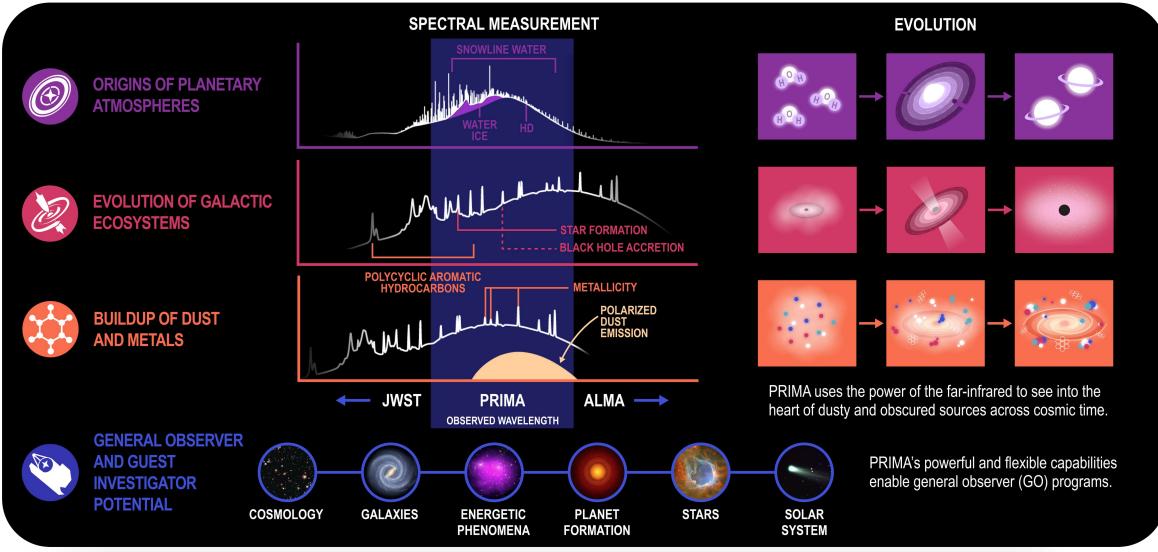
Between MIDEX and Flagship: \$1.5B

**Opportunity** Far-IR or X-ray Probe

### Timeline

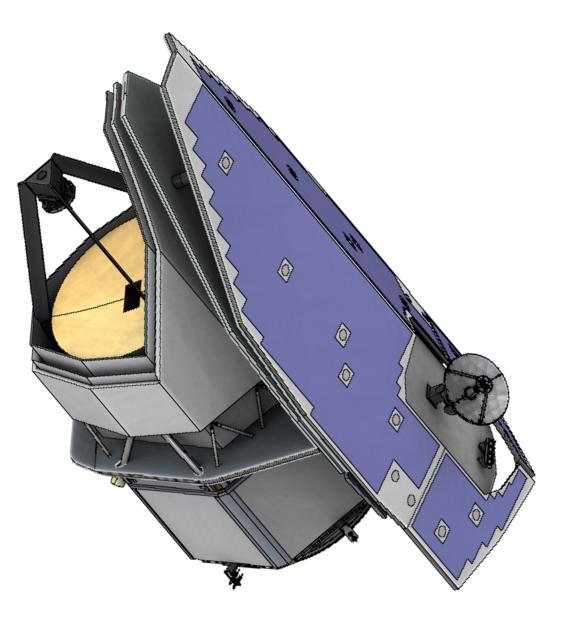
- Step 1 proposals: due 11/23
- Selection for Phase A: Last quarter 2024
- Concept Study reports: Due late 2025
- Selection for implementation: 2026
- Launch: 2032
- Community participation: Ongoing!

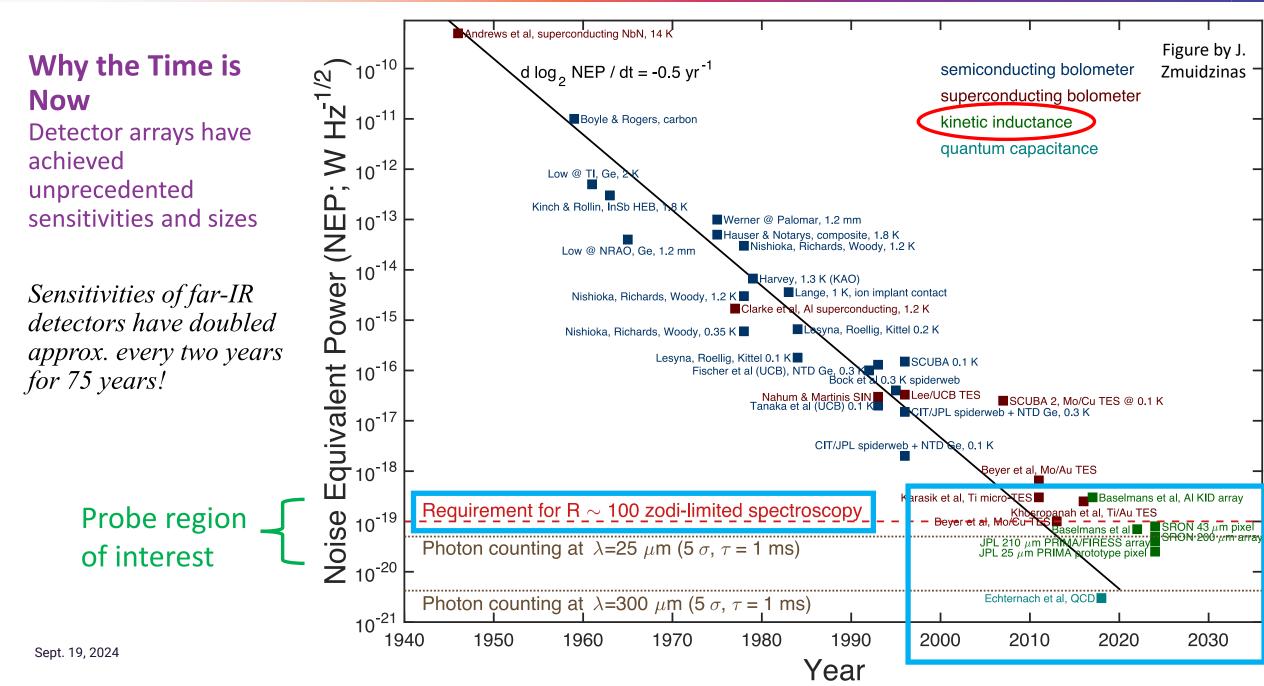
### **PRIMA Science**



### **PRIMA Basic Facts**

Observations	75% GO, 25% PI (→ GI)
Telescope	1.8 m, 4.5 Kelvin
<b>PRIMAger</b> (L. Ciesla)	Hyperspectral imaging 25-80 $\mu$ m, R = 10 Imaging & polarimetry 91-261 $\mu$ m, R = 4
FIRESS (M. Bradford)	Spectroscopy 24-235 μm, R > 85 High-Res mode R = 4,400 x (λ/112μm)
Detectors	Kinetic inductance detectors 11k total
Data	IPAC
Orbit	Earth-Sun L2
Launch	2032







## **Closing Thoughts**

- Contact us if you have questions about sensitivity or observing calculations as you undertake your paper.
- If your science includes needs like dynamic range, include that in your papers so that we can consider them during Phase A.
- Community participation: *Ongoing!* 
  - Talk to your colleagues about the electromagnetic spectrum on how far-infrared observations can enable their science.

Thank you to our JATIS guest editors: Naseem Rangwala and Matt Griffin!