



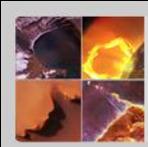
NASA HQ Perspective

Richard Griffiths

PCOS Program Scientist

**PCOS/PhysPAG Town Hall
AAS-HEAD, Monterey**

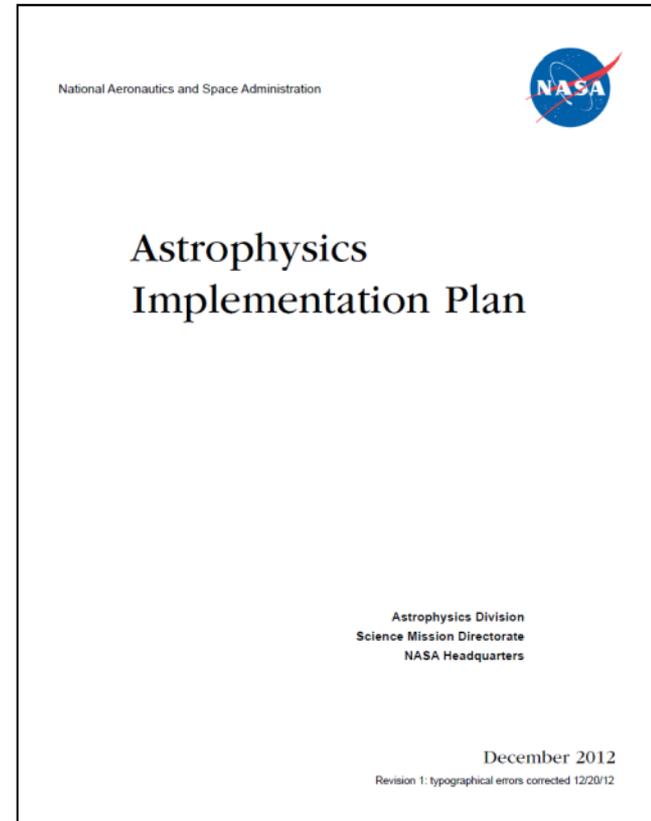
April 9, 2013

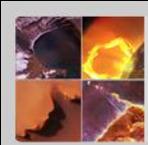


Astrophysics Implementation Plan

- **Astrophysics Implementation Plan**

- White paper developed by Astrophysics Division
 - Describes Astrophysics Division strategy in response to the Decadal Survey recommendations
 - Was discussed with the Committee on Astronomy and Astrophysics (CAA) and the NAC Astrophysics Subcommittee (APS) prior to finalization
 - The Implementation Plan is consistent with the budget as of December 2012 (the notional runout of the President's FY13 budget request). The Plan will evolve with changes in the budget (e.g. FY13 sequestration, FY14 President's budget request).
- The Astrophysics Implementation Plan is available for download at <http://science.nasa.gov/astrophysics/documents/>

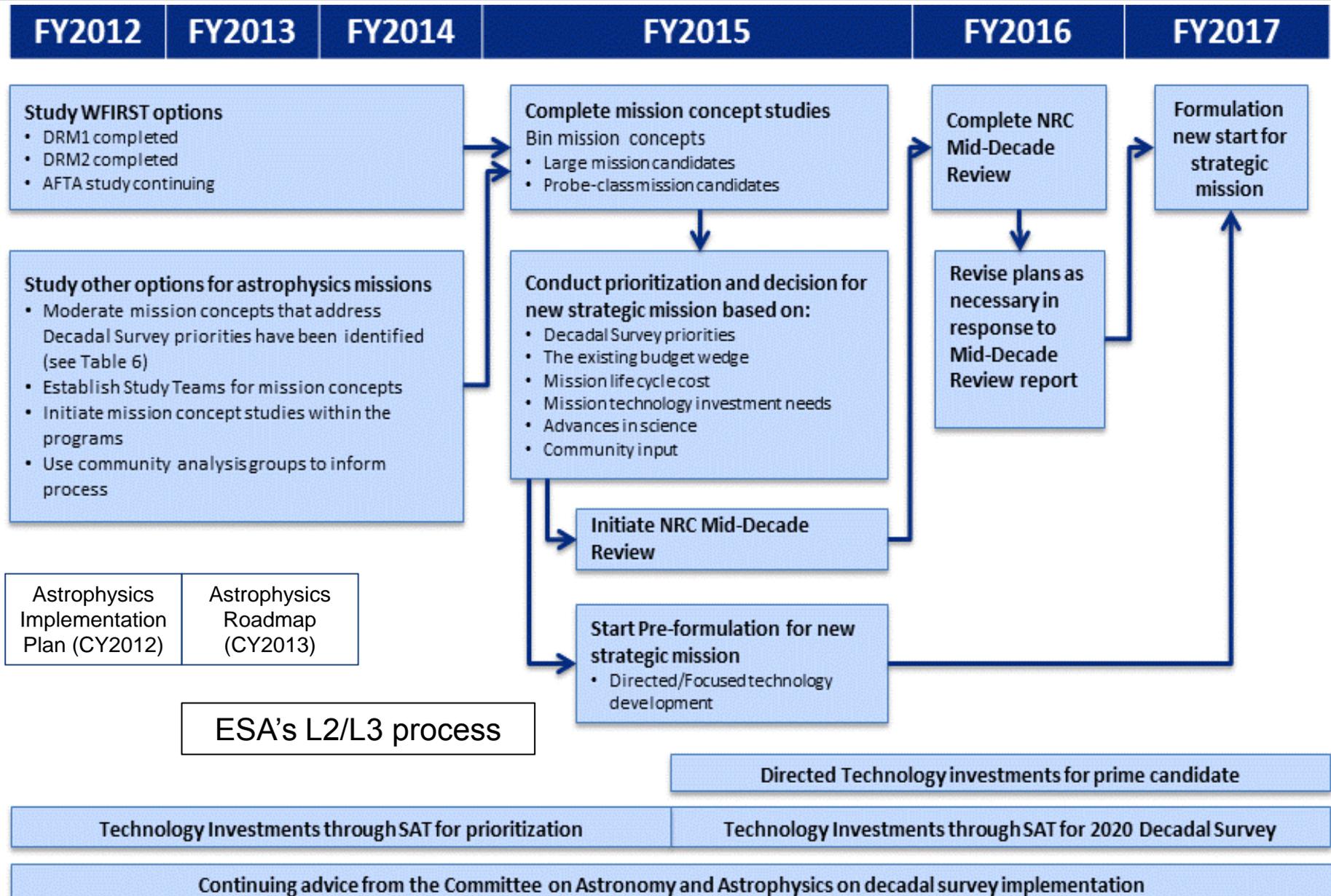


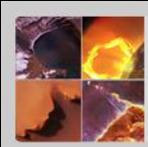


Astrophysics Near-term Goal and Strategy

- **The goal is to be prepared to start a new strategic Astrophysics mission to follow JWST as soon as funding becomes available while continuing to advance the science during the interim.**
 - It cannot be assumed that the authority to start a new large mission (i.e., WFIRST) will be granted in 2017, therefore concepts for moderate cost missions, probes that cost no more than approximately \$1B, must also be considered.
 - Any mission concept studied must derive from the science objectives of the Decadal Survey's prioritized activities.
- **The strategy is to use the science and prioritized activities of the Astro2010 Decadal Survey to guide strategy and inform choices.**
 - In the absence of new missions, progress against decadal priorities is maintained through the core research program, through continued operation of existing missions and their GO programs, through the suborbital programs, and through frequent Explorer opportunities.
- **In order to prepare for a new strategic mission**
 - A near term program of mission concept studies and technology development is being continued
 - These studies will inform a mid-decade decision on which mission will begin formulation starting as early as FY17.

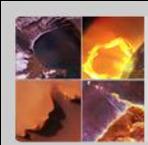
Astrophysics Near-term Strategy





Astrophysics Roadmap Overview

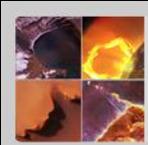
- **An Astrophysics Roadmap will be developed by a task force of the Astrophysics Subcommittee (APS) during 2013**
 - Create a compelling, 30-year vision for astrophysics at NASA
 - Take the recent decadal survey as the starting point and build upon it
 - Multiple paths (science areas) forward
 - Way stations at 10 & 20 years in the future, full vision at 30 years out
 - Call out science and technology challenges
- **Note that the roadmap**
 - is *not* a mini-decadal survey with recommendations and priorities;
 - is *not* an implementation plan;
 - *is* a long-range vision document with options, possibilities and visionary futures.
- **The Roadmap Charter is available at**
<http://science.nasa.gov/science-committee/subcommittees/nac-astrophysics-subcommittee/astrophysics-roadmap/>



Astrophysics Roadmap Overview

- **Excellent team with broad expertise and visionary thinkers**
 - Many early and mid-career scientists on the team

Chryssa Kouveliotou (<i>Chair</i>)	<i>NASA MSFC</i>	Dieter Hartmann	<i>Clemson</i>
Joan Centrella (<i>Exec Sec</i>)	<i>NASA HQ</i>	Jason Kalirai	<i>STScI</i>
Brad Peterson (<i>APS Chair, Ex Officio</i>)	<i>Ohio State</i>	Heather Knutson	<i>Caltech</i>
Eric Agol	<i>Univ. Wash</i>	Michael Niemack	<i>Cornell</i>
Natalie Batalha	<i>NASA Ames</i>	Feryal Ozel	<i>Univ Arizona</i>
Misty Bentz	<i>Georgia State</i>	Chris Reynolds	<i>Univ MD</i>
Neil Cornish	<i>Montana State</i>	Aki Roberge	<i>NASA GSFC</i>
Alan Dressler	<i>Carnegie Obs</i>	Kartik Sheth	<i>NRAO</i>
Enectali Figueroa-Feliciano	<i>MIT</i>	David Weinberg	<i>Ohio State</i>
Scott Gaudi	<i>Ohio State</i>	Jonas Zmuidzinas	<i>JPL/Caltech</i>
Olivier Guyon	<i>Univ Arizona</i>		



Astrophysics Roadmap Process and Schedule

- **Meetings:**

- The team will meet regularly using telecons and video conferencing
- First face-to-face (F2F) meeting March 27 and 28 at GSFC
- Plan an additional F2F meeting around June

- **Community Input:**

- Community submitted abstracts of science and technology challenges
- NOTE: Suggestions or recommendations for specific missions or implementation plans were NOT solicited

- **Reporting**

- APS Chair Brad Peterson is ex officio member of Roadmap team
- Roadmap chair will give regular reports to the APS
- High-level themes ready for approval by APS by August 30, 2013
- Final report ready for approval by APS with public release by Dec.16, 2013



- Formulation
- Implementation
- Primary Ops
- Extended Ops



XMM-Newton (ESA)



Swift



Suzaku (JAXA)



Fermi



Planck (ESA)



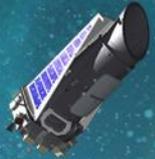
Spitzer



Euclid (ESA)



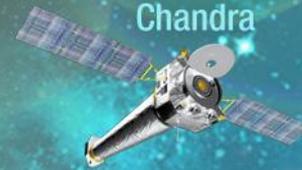
Hubble



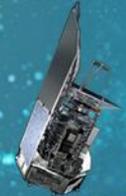
Kepler



Astro-H (JAXA)



Chandra



Herschel (ESA)

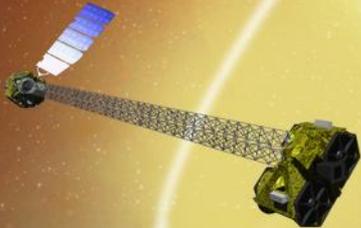


JWST



LISA
Pathfinder (ESA)

NuSTAR



SOFIA