

ALMA Development Workshop



North American ALMA Development Program Overview

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Overview

- **Goals**

- enhance capabilities of the ALMA array
- foster collaboration between and among interested institutions
- develop capabilities of the NA radio astronomy community
- cultivate community support for the ALMA program

- **Studies; maximum \$200K/Study for FY2014**

- 1 year duration
- total FY2014 Studies budget \$1.0M

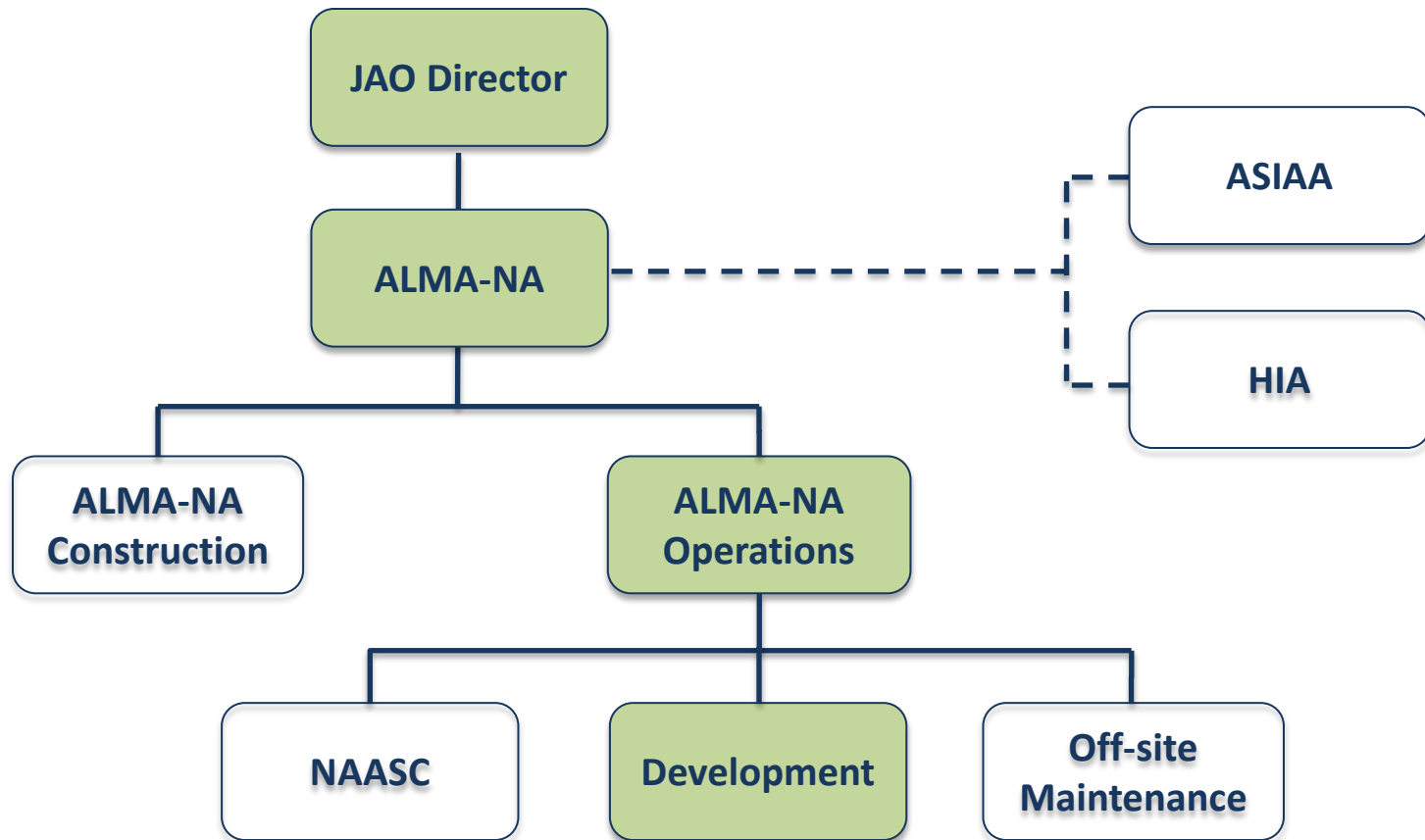
- **Projects; maximum \$1.5M/Project for FY2014**

- two-year duration
- total FY2014 Projects budget \$4.3M

- **Open competition among NA ALMA Partners (ASIAA, HIA, NRAO) and aligned academic institutions.**

FY2014/15 program contingent upon the Federal budget and allocation of funds.

NA ALMA Organizational Structure



ALMA Development initiatives also coordinated with ESO and NAOJ.

Governance

- **Studies**

- NA Executive

- coordinates the local development program with the NA ALMA Science Advisory Committee
- allocates funds for the local development program
- oversees the performance of the local Development Studies Program

Local control of Studies definition, funding and performance.

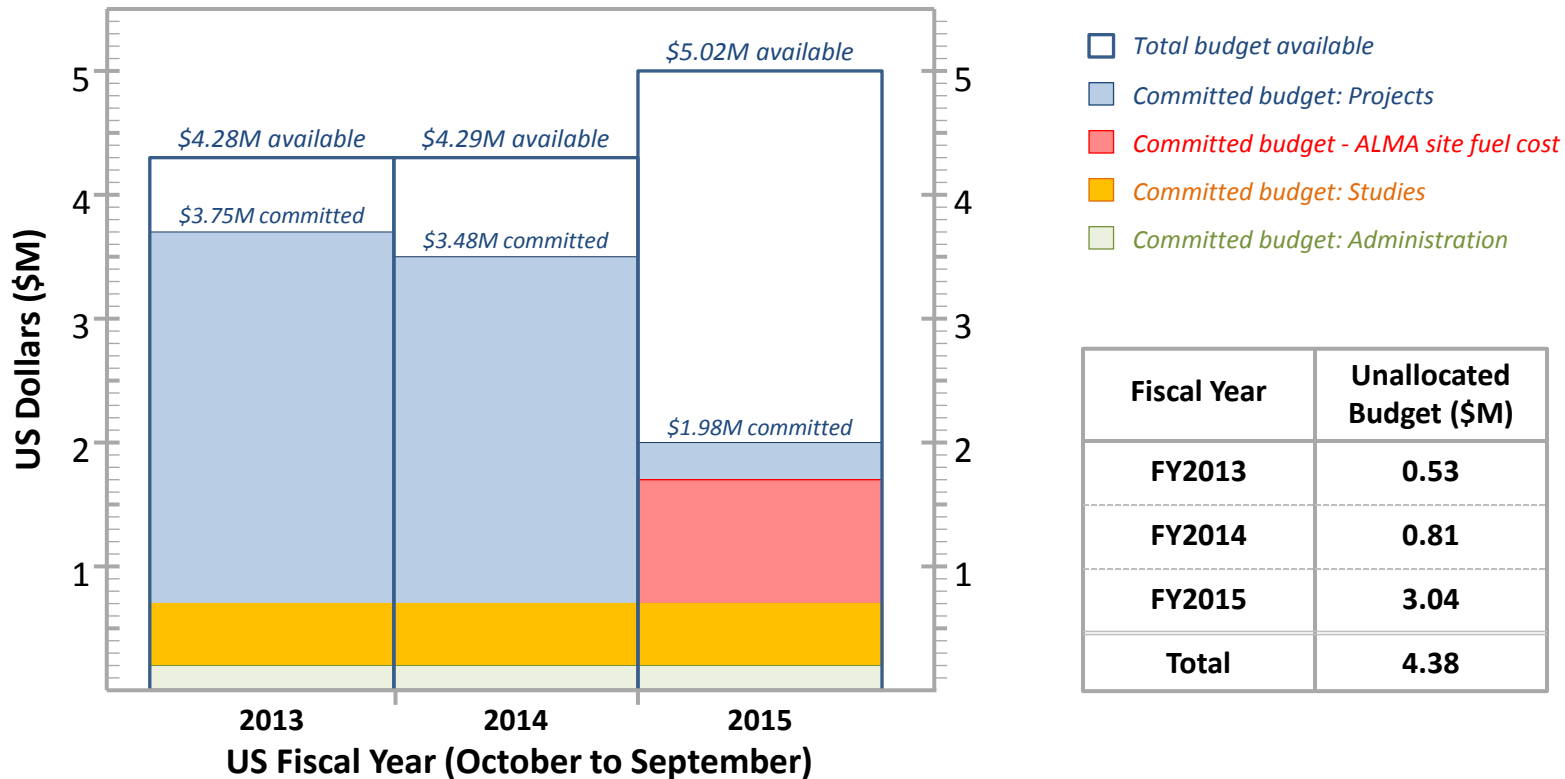
Governance

- **Projects**

- JAO Director
 - oversees/coordinates the development program
 - submits proposals for development projects for prioritization and approval by the ALMA Board
- NA Executive
 - gathers input from community-based discussions and proposals and from the NA ALMA Science Advisory Committee
 - Coordinates input with the ALMA Development Steering Committee
 - presents proposals to the JAO Director
 - contributes to the program according to the NA share in funding of ALMA Operations
 - oversees the performance of the local Development Projects Program

Projects must be reviewed and approved by the ALMA Board of Directors.

Funding Capacity



Fiscal Year	Unallocated Budget (\$M)
FY2013	0.53
FY2014	0.81
FY2015	3.04
Total	4.38

- The FY13 and FY14 Calls for Study and Project proposals are combined (consolidated) in order to synchronize budget and performance periods.

Maximum FY2014 commitments = \$1.00M Studies + \$4.3M Projects = \$5.3M.

Technology Roadmap

- **FY 2012 Development Topics**

- continuous/extended ALMA radio frequency range
- enhanced operating efficiency
- improved data reduction
- higher data rates
- improved noise performance
- improved data visualization

A focused, science-driven technology development program.

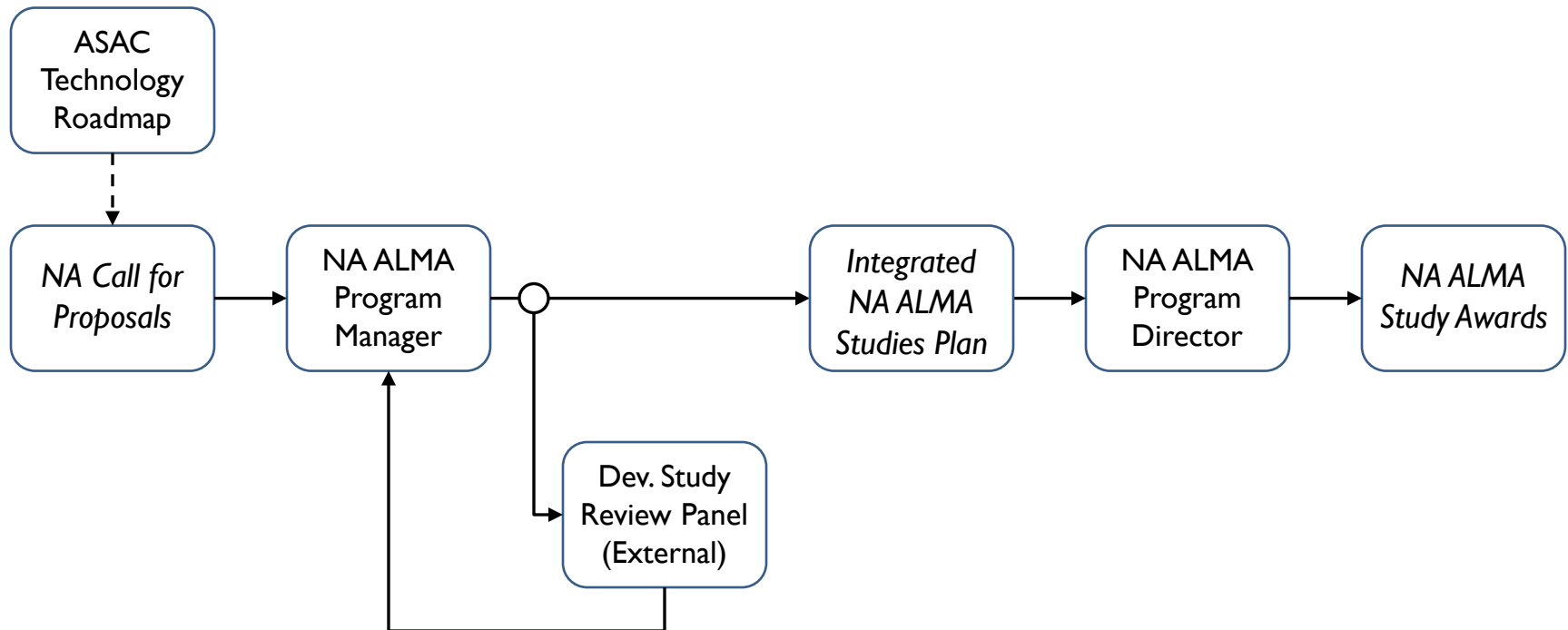
Calendar

Call for Study Proposals		Call for Project Proposals	
Milestone	Date	Milestone	Date
Release of Call for Study Proposals	May 01		
Informational Meeting	May 10	Informational Meeting	May 10
Notice of Intent; due date	May 17		
		Release of Call for Project Proposals	Jun 03
Deadline for Proposer's questions	Jun 14		
		Notice of Intent; due date	Jun 17
		Deadline for Proposer's questions	Jun 28
Closing Date	Jul 12		
		Closing date	Aug 16
Notification of awards	Aug 30		
		Notification of awards	Oct 04

Call for Studies release date is 01 May; Call for Projects release date is 03 June.

Process - Studies

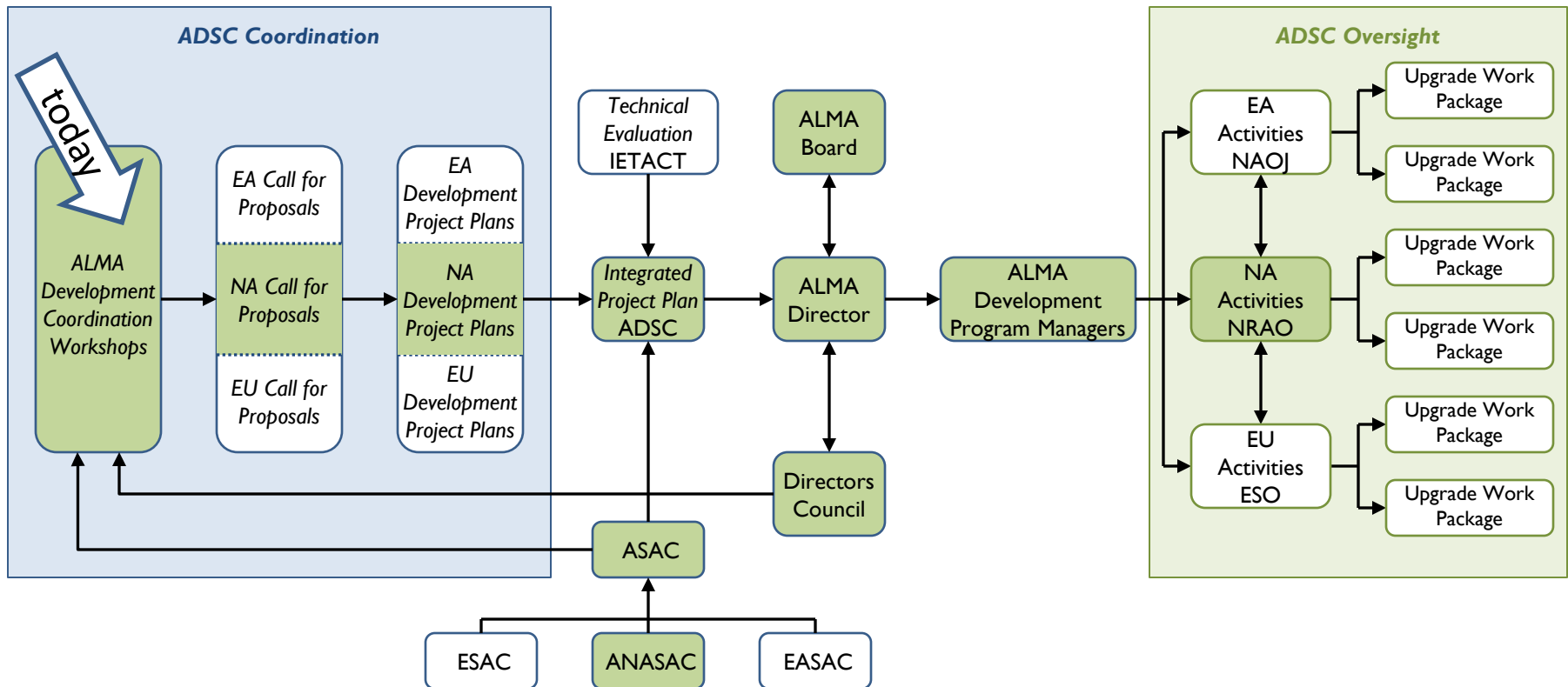
- **NA ALMA Program Office coordination**



FY2015 Studies contingent upon the Federal budget and allocation of funds.

Process - Projects

- Community-wide coordination



FY2015 Projects also depend upon renewal of the NSF/AUI Cooperative Agreement.

Metrics

- **Technology Readiness Levels** – *ensures objective assessment*
- **Opportunity Ranking** – *quantifies positive impact and feasibility*
- **Performance to Specifications** – *quarterly review*
- **Performance to Schedule** – *quarterly review*
- **Performance to Cost** - *quarterly review*

Transparent process and criteria ensure a level playing field.

Summary

- **FY2014 Development Program contingent upon Federal budget and allocation of funds to the NSF**
- **Maximum FY2014 commitments:**
 - *Studies - \$1.0 M*
 - *Projects - \$4.3 M*
- **Maximum FY2015 commitments:**
 - *Studies - \$0.5 M probable*
 - *Projects - TBD*
- **NA ALMA Studies governed by the NA ALMA Directorate**
- **NA ALMA Projects governed by the ALMA Board of Directors**

Thank you for your assistance in guiding the ALMA Development Program.