

# MAUNA KEA MANAGEMENT

## 2000 – BOR adopts new Master Plan

- UH management policy & planning guide
- Advises Chancellor UH-Hilo
- Established management entity
  - Dedicated to managing UH's leased lands on Mauna Kea
- Objective
  - Preserve, and protect resources
    - Cultural, natural, educational

# Management Structure

## Community based management housed within UHH

- Office of Mauna Kea Management
- Mauna Kea Management Board
  - Community-based members
- Kahu Kū Mauna
  - Native Hawaiian advisory committee
- Volunteers

# **ROLES AND RESPONSIBILITIES**

- **Implement – 2000 Master Plan, Comprehensive Management Plan (CMP) and sub plans**
- **Develop & implement management policies**
- **Review project proposals**
- **Oversight of day-to-day activities - Commercial tours, filming, research ,and outside-the-dome and public activities**
- **MKMB with input from Kahu Kū Mauna recommends to approve/disapprove**

# CMP

- **Need for an integrated approach to management**
- **Two prong approach:**
  - **Cultural Resources Management Plan**
  - **Historic Preservation process (deleted)**
  - **Natural Resources Management Plan**
- **Content:**
  - **Resources**
  - **Uses and activities**
  - **Threats**
  - **Management actions**
- **BLNR Approved – April 9, 2009**

# **Comprehensive Management Plan (CMP)**

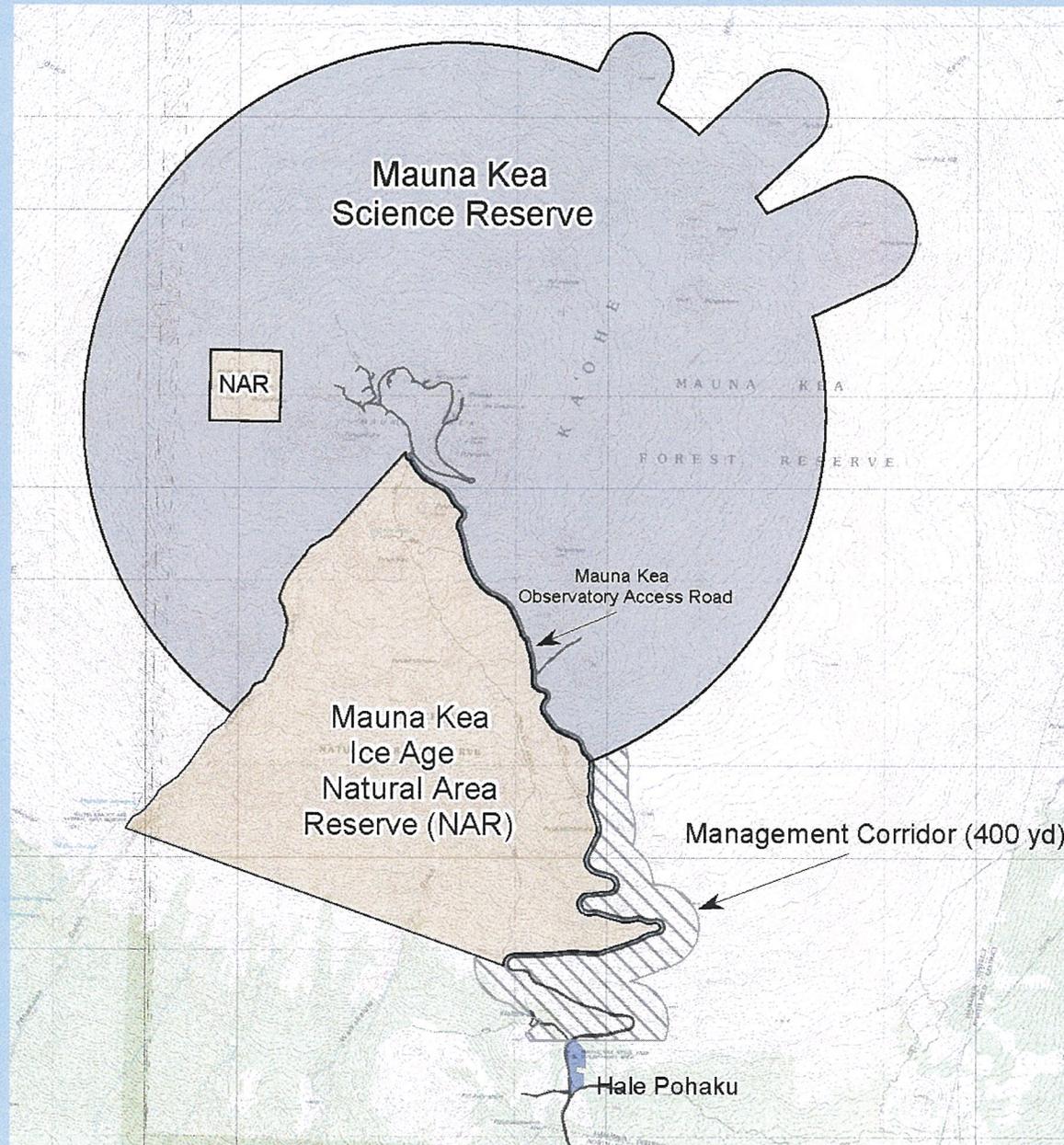
**Integrated planning guide for resource management that:**

- **Ensures protection of Mauna Kea's unique cultural, natural, recreational, and scientific resources**
- **Provides for review and updates**

# **SUB- PLANS**

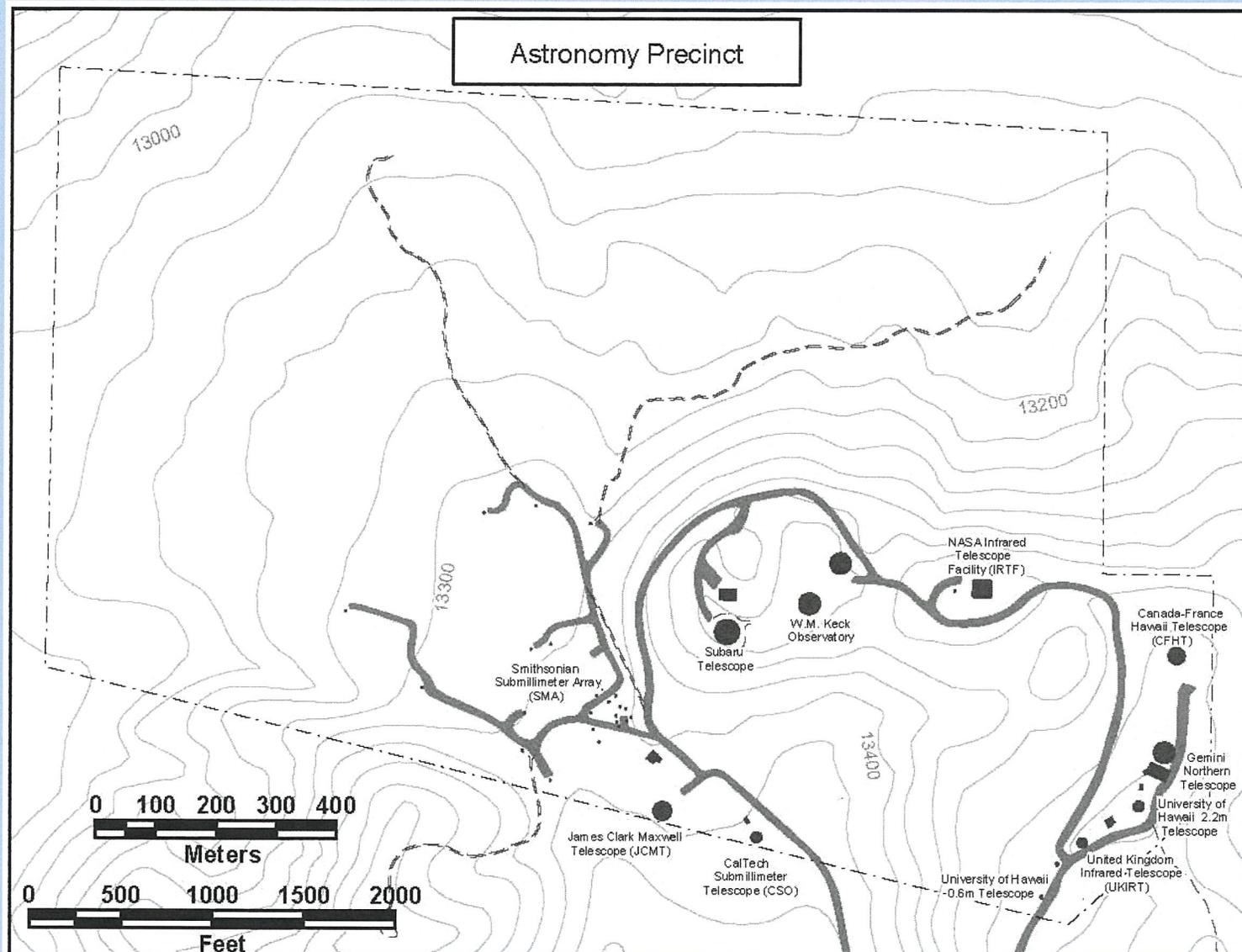
- **Natural Resources Mgt. Plan**
- **Cultural Resources Mgt. Plan**
- **Public Access Plan**
  - **Principals and policies**
  - **Guide development of Administrative rules – public and commercial activities**
- **Decommissioning Plan**
  - **Steps required in decommissioning process**
  - **Funding assurances**
- **Astronomy future development**

# UH MANAGEMENT AREAS





# ASTRONOMY PRECINCT



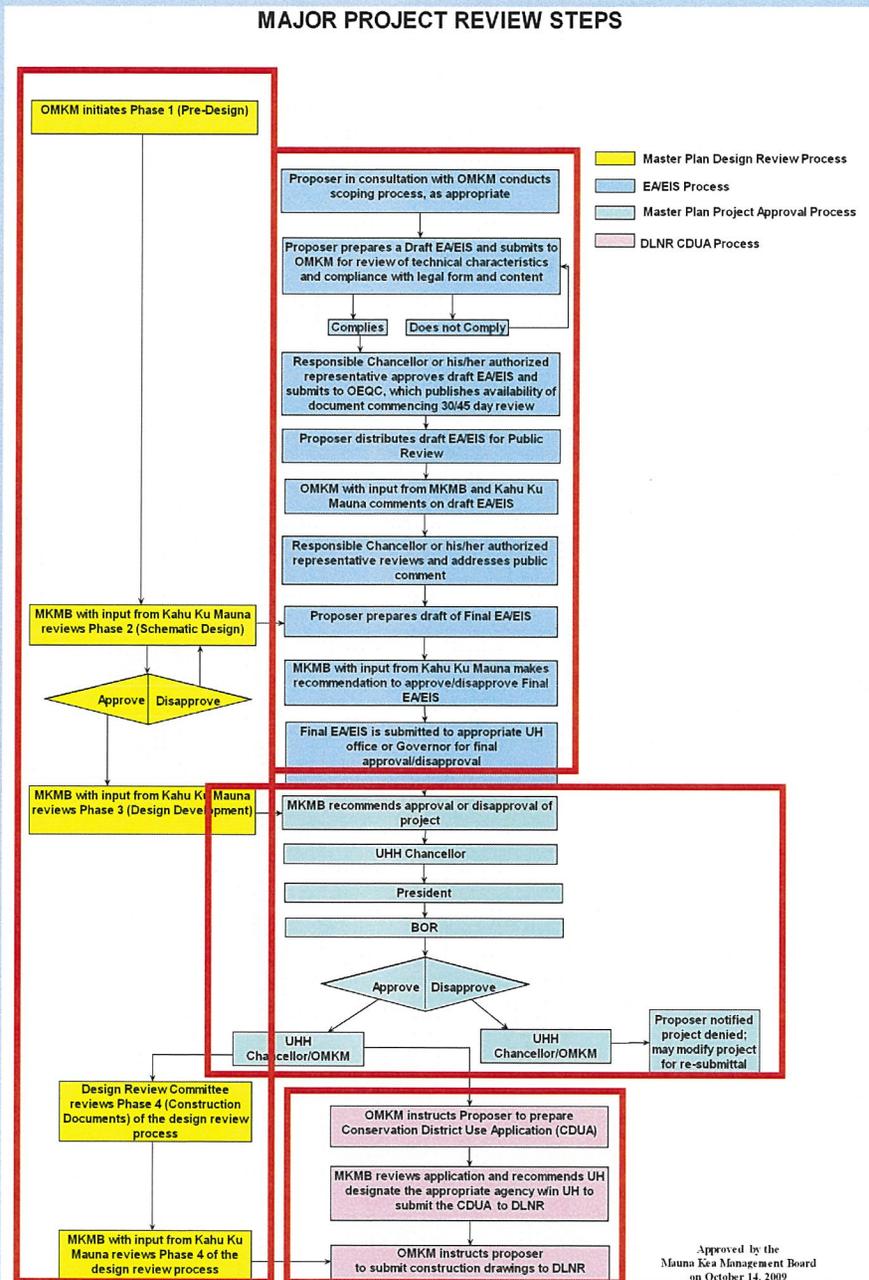
# Master Plan

## Anticipated Astronomy Development

- Redevelopment or expansion
    - Existing observatory sites
  - Next generation large telescope (TMT)
- 
- New conventional optical I/R
  - Optical I/R Interferometer Array

# Major Project Review & Approval Process

- Master Plan Design Review Process
- EIS Process
- UH Review & Approval Process
- DLNR Permitting Process



# Master Plan Design Review

- **Purpose**
  - **Conform - goals and objectives**
  - **Consistent - design guidelines**
  - **Relate – summit environment**
  - **Promotes resource conservation and sustainability**
  - **Not add significantly to cumulative impact**
- **Participants**
  - **MKMB, Kahu Kū Mauna, IfA, developer , and volunteer community experts**

# Master Plan Goals and Objectives

- **Preserve and protect the resources ;  
landscape**
- **Preserve and manage cultural resources for  
future generations**
- **Protect opportunities to engage in cultural  
practices**
- **Define areas for cultural and natural resources  
uses, education and research and recreational  
uses**
- **Allow for sustainable, integrated planning and  
management**
- **Protect and enhance astronomy research**

# Master Plan Project Review Process

- **4 Review Steps**
- **Pre-Design**
- **Schematic Design**
  - **MKMB Reviews**
- **Design Development**
  - **MKMB Reviews**
- **Construction Documents**

# Master Plan Design Guidelines

- **Purpose**
  - Integrates the facility into the summit environment
- **Design Elements**
  - Facility siting
  - Scale, heights and widths
  - Color, roof (dome), and surface textures and materials
  - Roadway and utility development
  - Walls and signage

# Master Plan

## Area E – Next Generation Large Telescope

- Minimal impact on existing facilities
- Minimal impact on wēkiu bug habitat
- Avoidance of archaeological sites
- Minimizes views from Waimea, Honoka'a, Hilo, and summit cultural sites
- Close proximity to roads and existing infrastructure

# Summary of Review and Approval Process

- **Master Plan Design Review Process**
  - MKMB reviewed schematic and design development phases
- **Environmental Impact Statement Process**
  - MKMB reviewed and recommended approval
  - FEIS accepted by the Governor
- **University Review & Approval Process**
  - MKMB reviewed and recommended approval
  - Board of Regents reviewed and approved
- **DLNR permitting process**
  - MKMB reviews and recommends submittal of CDUA

# Board of Land and Natural Resources

- **Retains supervisory and ultimate:**
  - **Management control - UH's managed lands on Mauna Kea**
  - **Control over decisions - Native Hawaiian traditional and customary practices**
- **Approved CMP and sub plans prior to UH implementation**
  - **UH Required to present annual reports on implementation progress**
  - **Retains ultimate authority to enforce compliance**
- **Proposed astronomy related land uses on Conservation District lands require BLNR approval**