

MKSOA Board Briefing

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Part of a Longer Story...

- Slides shared here stem from a recent set of presentations around Hawai'i Island regarding the "Current State of Maunakea Astronomy"
 - Provides information on the background, history, research, finance, management, and potential future of Maunakea astronomy
 - Material presented today focuses mostly on some of the challenges associated with new MKO lease negotiations
- Lease negotiations will be a complex multilateral, multinational process in a highly time compressed setting



https://www.youtube.com/watch?v=TdzgEi64src

About 5 years ago during a Maunakea Management Board meeting...

Domino Theory

Master Lease Timelines



Case Study in MKO Decommissioning - CSO

- CSO announced their intent their summit facilities in 201
- Current best estimate for proof 2021 (2022?)



Next ~5 Years are Crucial

- Recall previous sli completed by 2023
- # If that slips by ~2each must determi their Notice of Inte
 - Process took CS
 - * CSO will be the decommissioning
- * As each MKO sub remaining MKOs increases for rema
- Eventually a tippin "snow ball effect" fairly rapid success

This scenario is at least plausible

The longer Master Lease renewal takes, the more likely this scenario becomes

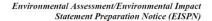
What should we do?

This is why, as an overarching priority, those who are in a position to ensure a future for Maunakea astronomy, must do so by the first half of the next decade

Some Assumptions and Boundary Conditions

- All MKOs are legally bound to complete facility decom and site restoration by 31 December 2033 if new land authorization is not completed
 - ★ This means the operational lifetimes of existing MKOs is ~4 years w/out new land authorization assuming ~5 years to decom, start-to-finish, including all site restoration
 - Existing MKSR General Lease and associated subleases remain in effect until new leases are granted by MKSOA
 - *1 year revocable (sub)lease extensions, effective 2034, are a dubious way to sustain a billion dollar research complex
- * The future of Hawai'i astronomy lies in the hands of our local community
 - ★ Deep, lasting, and authentic community connections will help ensure a future for Hawai'i astronomy, for the benefit of everyone

Master Lease Renewal Efforts Over the Past Decade



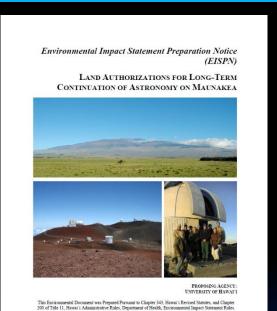
NEW MASTER LEASES FOR MAUNA KEA SCIENCE RESERVE & RELATED FACILITIES & EASEMENTS



PROPOSING AGENCY: UNIVERSITY OF HAWAI'I AT HILO

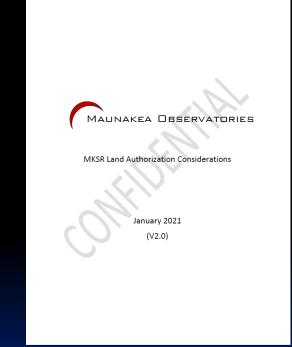
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DECEMBER 2014



FEBRUARY 2018





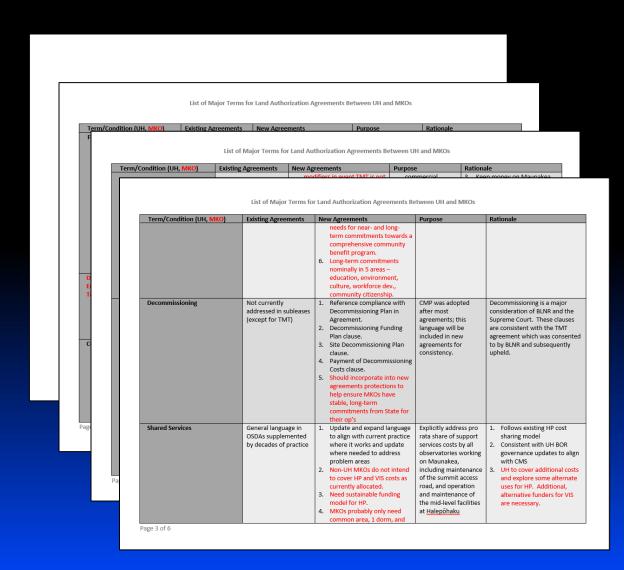






Process Restarts in Early 2021

- Momentum was restarted in MKO discussions about potential new lease terms in early 2021
- In parallel, discussions within UH were occurring too
- *In mid-2021 UH and MKOs launched joint discussions, starting with merging draft term sheets to identify what needed to be discussed and establish a process for discussions...



Some Land Authorization Terms

- * Form of Agreement
- * Access, termination, etc.
- Commitments and Fees.
- Community Benefits
- Decommissioning
- Shared Services

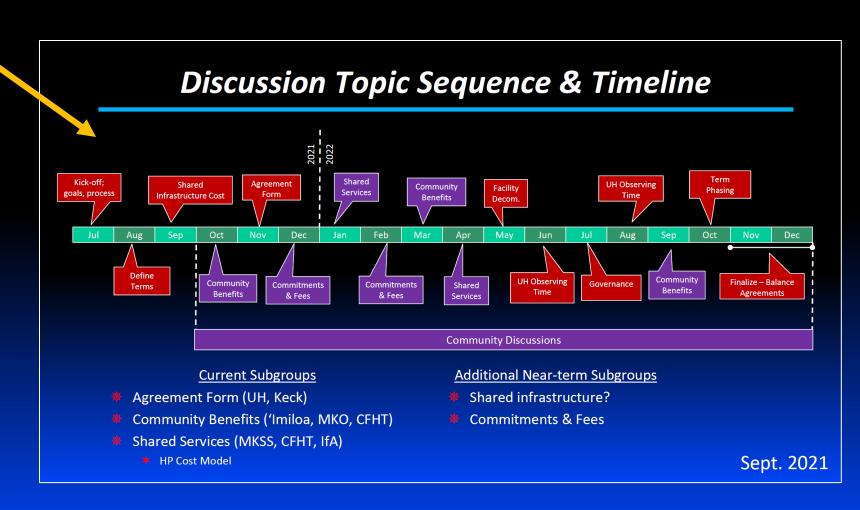
- *Summit-wide Shared Infrastructure
 Removal
- Near/mid-term Infrastructure
- UH Observing Time
- Governance
- Phasing In/Out New/Old Subleases
- Under MKSOA it is likely that most of these same land authorization terms will apply and therefore need to be negotiated
 - * A process that involves many international funding agencies
 - How does MKSOA want to engage this process? Who will be involved?





Lease Terms Negotiated Over ~18 Months

- Slide from MKO lease negotiations back in 2021
- Lease terms laid out over time for sequential monthly meetings involving UH and all MKOs
 - Subgroups, finance rep's, lawyers, etc. involved
- Many lease terms were interconnected and needed repeated discussions
- Key point complex process but we made good progress, to the point of bringing finance agencies into the conversation March 2022





A "Just in Time" Schedule





Funding Agency Involvement

- * Crucially, the negotiation process involves a multitude of international funders that need to agree to lease terms (particularly costs)
- This step adds considerable complexity and time to the process and is easy to overlook





Today - Some Key Schedule Milestones Under the UH → MKSOA Transition

