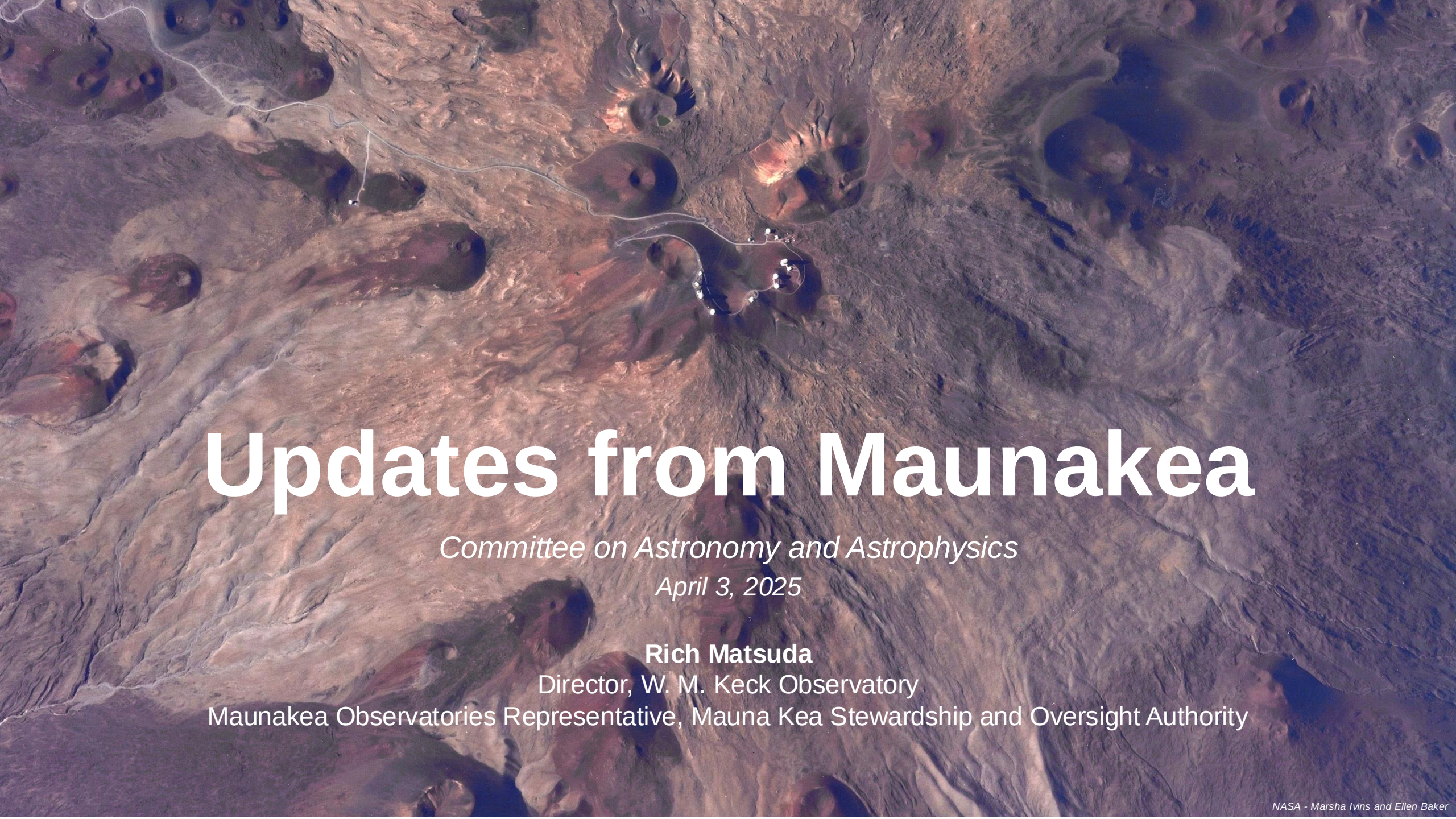


An aerial photograph of the Maunakea mountain range, showing the rugged, brownish-grey terrain. Several large, circular observatory sites are visible, some with white structures and others with dark, flat surfaces. The lighting creates deep shadows in the valleys and highlights the ridges.

# Updates from Maunakea

*Committee on Astronomy and Astrophysics*

*April 3, 2025*

**Rich Matsuda**

Director, W. M. Keck Observatory

Maunakea Observatories Representative, Mauna Kea Stewardship and Oversight Authority





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**Canada France Hawai'i Telescope**

---

**Caltech Submillimeter Observatory** (decomm'd 2024)

---

**Gemini-N**

---

**Hōkū Ke'a** (decomm'd 2024)

---

**NASA Infra Red Telescope Facility**

---

**James Clerk Maxwell Telescope** (operated by EAO)

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**W. M. Keck Observatory, Keck I and II**

---

**Subaru Telescope**

---

**Sub Millimeter Array**

---

**University of Hawai'i 88-inch**

---

**United Kingdom Infra Red Telescope**

---

**Very Long Baseline Array**



Maunakea hosts the highest scientific impact concentration of telescopes in the world.





2019 TMT Protest





Hawi

Kukuihaele

Honokaa

Kawaihae

Waimea

Paauilo

Laupahoehoe

Waikoloa  
Village

Hakalau

Maunakea

Pepeekeo

Papaikou

Kaiminani

Hilo

Kailua-Kona

Hawaiian  
Paradise Park

Captain Cook

Hawai'i  
Volcanoes  
National Park

Pāhoa

Volcano

Milolii

*Ka'u Forest  
Reserve*

Pahala

Ocean View

Naalehu

Google

Data LDEO-Columbia, NSF, NOAA

Data SIO, NOAA, U.S. Navy, NGA, GEBCO

Landsat / Copernicus

Data MBARI



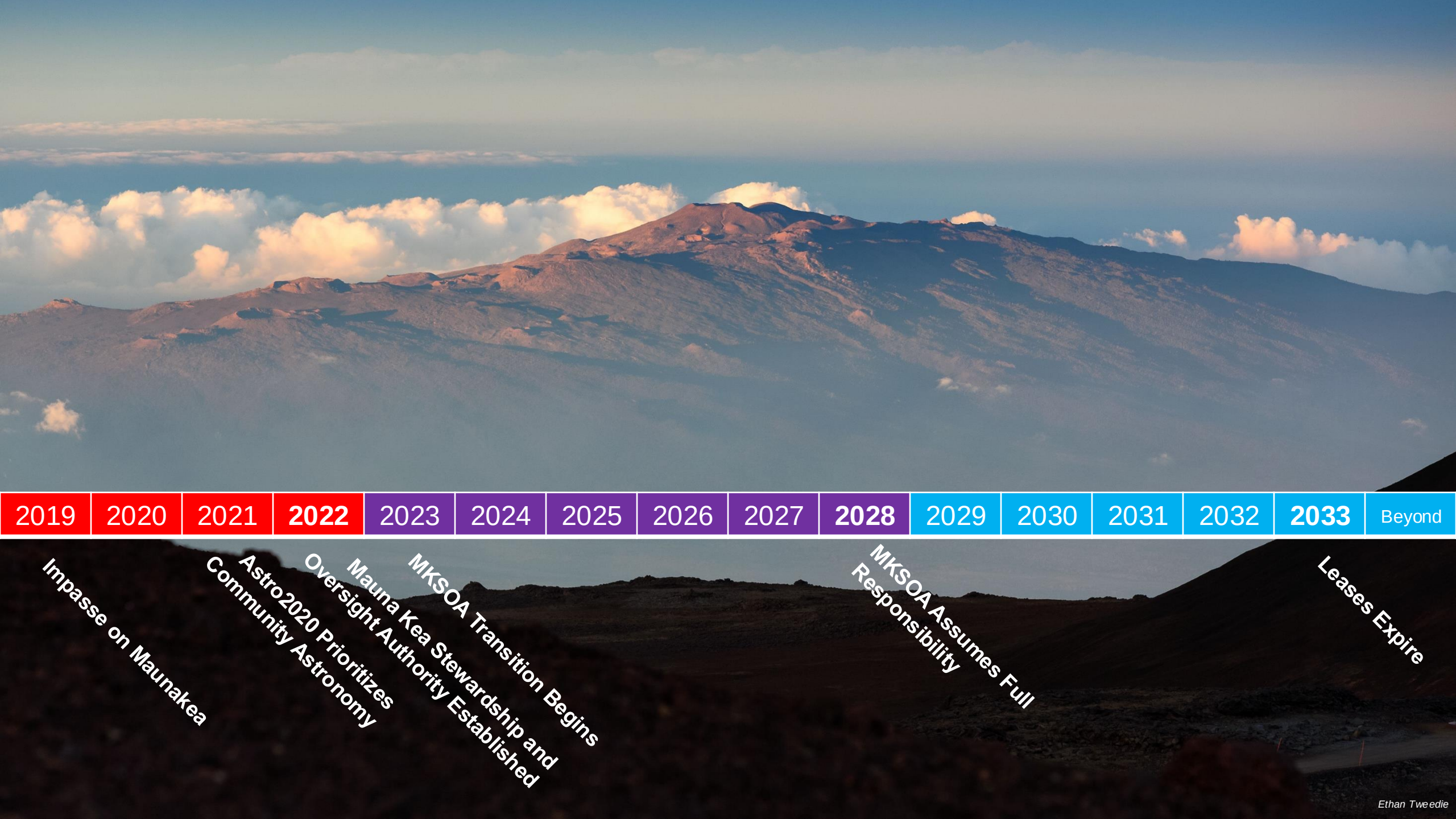
Recognizing the need for active, up-front, and sustained engagement with local and Indigenous communities, the survey committee recommends the implementation of a **Community Astronomy model** of engagement... The goal for such an approach is to advance scientific research while also respecting, empowering, and benefitting local communities.

– *Astro2020, 1.5.2 Foundational Activities*



A reformation of the **stewardship of Mauna Kea**  
is an issue of the highest priority in the State.

- *Hawai'i Revised Statutes §195H-1*



|      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |        |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | Beyond |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------|

|                     |                                           |                                                           |                         |  |  |  |  |  |                                   |  |  |  |  |               |  |
|---------------------|-------------------------------------------|-----------------------------------------------------------|-------------------------|--|--|--|--|--|-----------------------------------|--|--|--|--|---------------|--|
| Impasse on Maunakea | Astro2020 Prioritizes Community Astronomy | Mauna Kea Stewardship and Oversight Authority Established | MKSOA Transition Begins |  |  |  |  |  | MKSOA Assumes Full Responsibility |  |  |  |  | Leases Expire |  |
|---------------------|-------------------------------------------|-----------------------------------------------------------|-------------------------|--|--|--|--|--|-----------------------------------|--|--|--|--|---------------|--|



It is declared that the **support of astronomy... is a policy of the State.**

- *Hawai'i Revised Statutes §195H-8(a)*





# Mauna Kea Stewardship & Oversight Authority Board



**John Komeiji**  
Business/Finance  
*Chair*



**Dr. Noe Noe Wong-Wilson**  
House Appt  
*1<sup>st</sup> Vice Chair*



**Rich Matsuda**  
Maunakea Observatories  
*2<sup>nd</sup> Vice Chair*



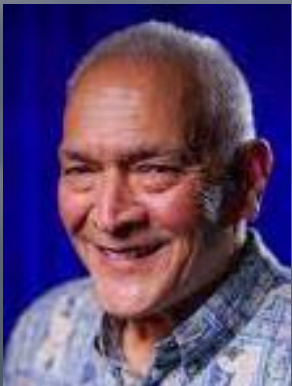
**Mayor Kimo Alameda**  
Mayor  
County of Hawai'i



**Pomai Bertelmann**  
Lineal Descendant



**Neil Hannahs**  
Land Management



**Paul Homer**  
Senate Appt



**Dr. Bonnie Irwin**  
Chancellor, UH Hilo  
(non-voting)



**Ryan Kanaka'ole**  
Dept. of Land &  
Natural Resources



**Kalehua Krug**  
Educator



**Benjamin Kudo**  
Former UH Regent



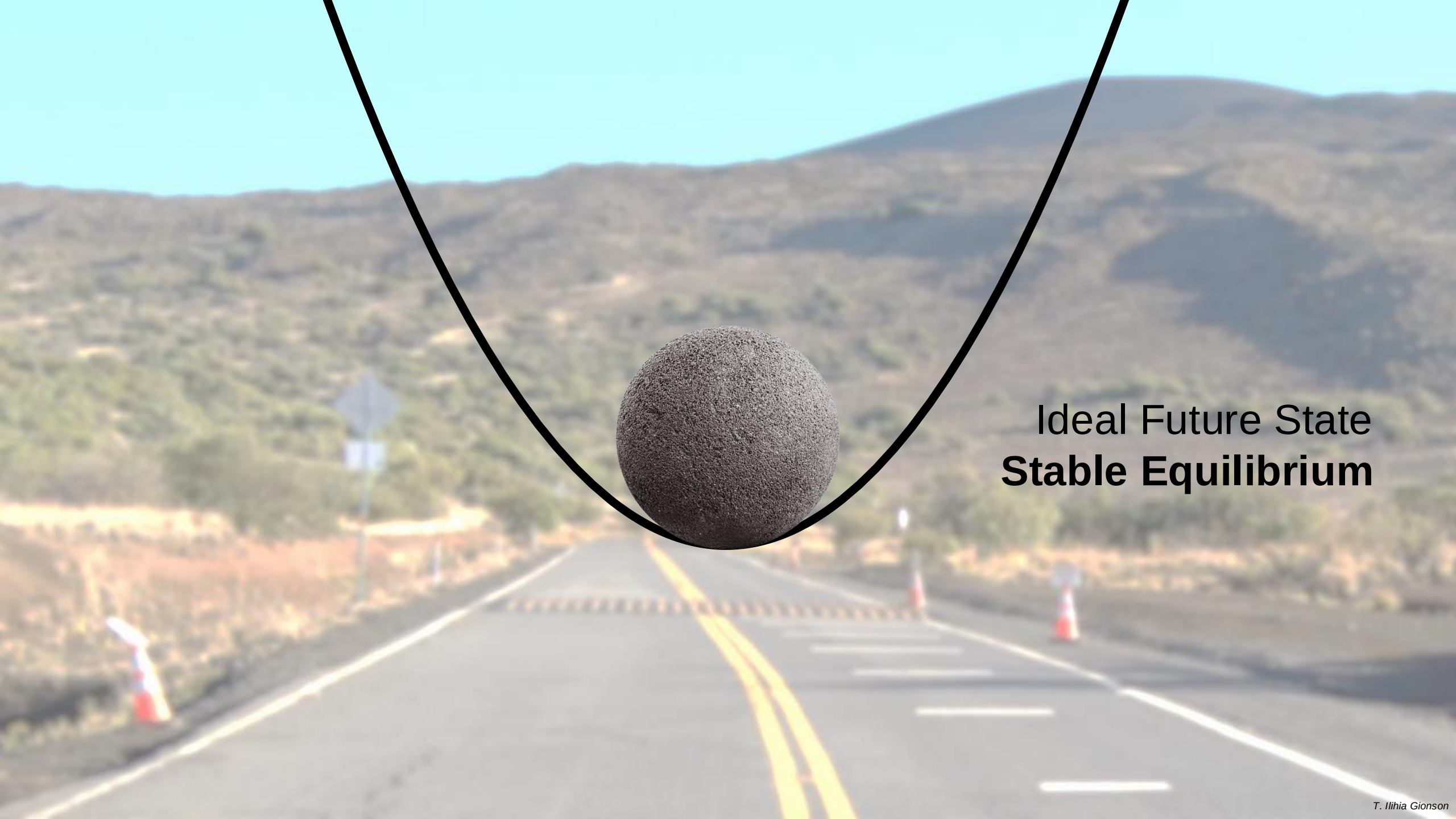
**Lanakila Mangaui**  
Cultural Practitioner



Current State  
**Unstable Equilibrium**



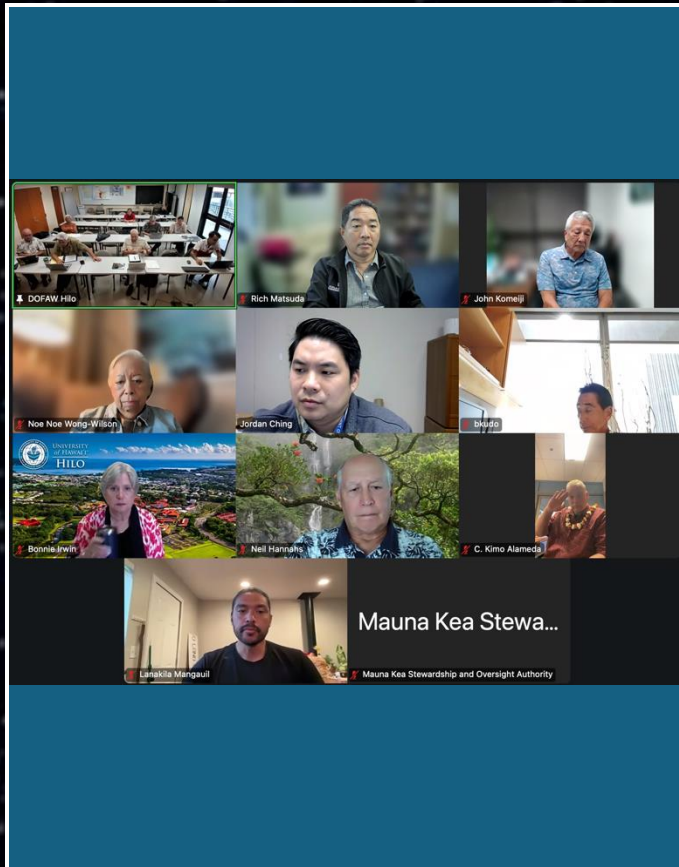




Ideal Future State  
**Stable Equilibrium**



# Advancing Astro2020 Community Astronomy Principles



Listen And  
Empower



Aim To Do  
Good For All



Invest In The  
Future Together



**Conclusion:** NSF, NASA, DOE, facility managing organizations, project consortia, individual institutions, and other stakeholders can work to build partnerships with Indigenous and local communities that are more functional and sustained through a Community Astronomy approach, and by increasing the modes of engagement and funding for: (i) meaningful, mutually beneficial partnerships with Indigenous and local communities, (ii) culturally supported pathways for the inclusion of Indigenous members within the profession, and (iii) true sustainability, preservation, and restoration of sites.

- *Astro2020, 3.4.1 The Model of Community Based Science*



