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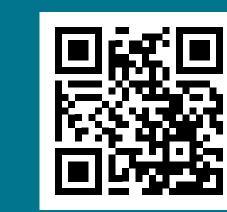
CONSIDERING A PROPOSED NSF INVESTMENT IN A NORTHERN HEMISPHERE EXTREMELY LARGE TELESCOPE

# Welcome

# Scoping Meeting for the Potential National Science Foundation Investment in an Extremely Large Telescope located in the Northern Hemisphere



### For more information, visit https://beta.nsf.gov/tmt





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# Proposed Action and Preliminary Alternatives

#### **PROPOSED ACTION**

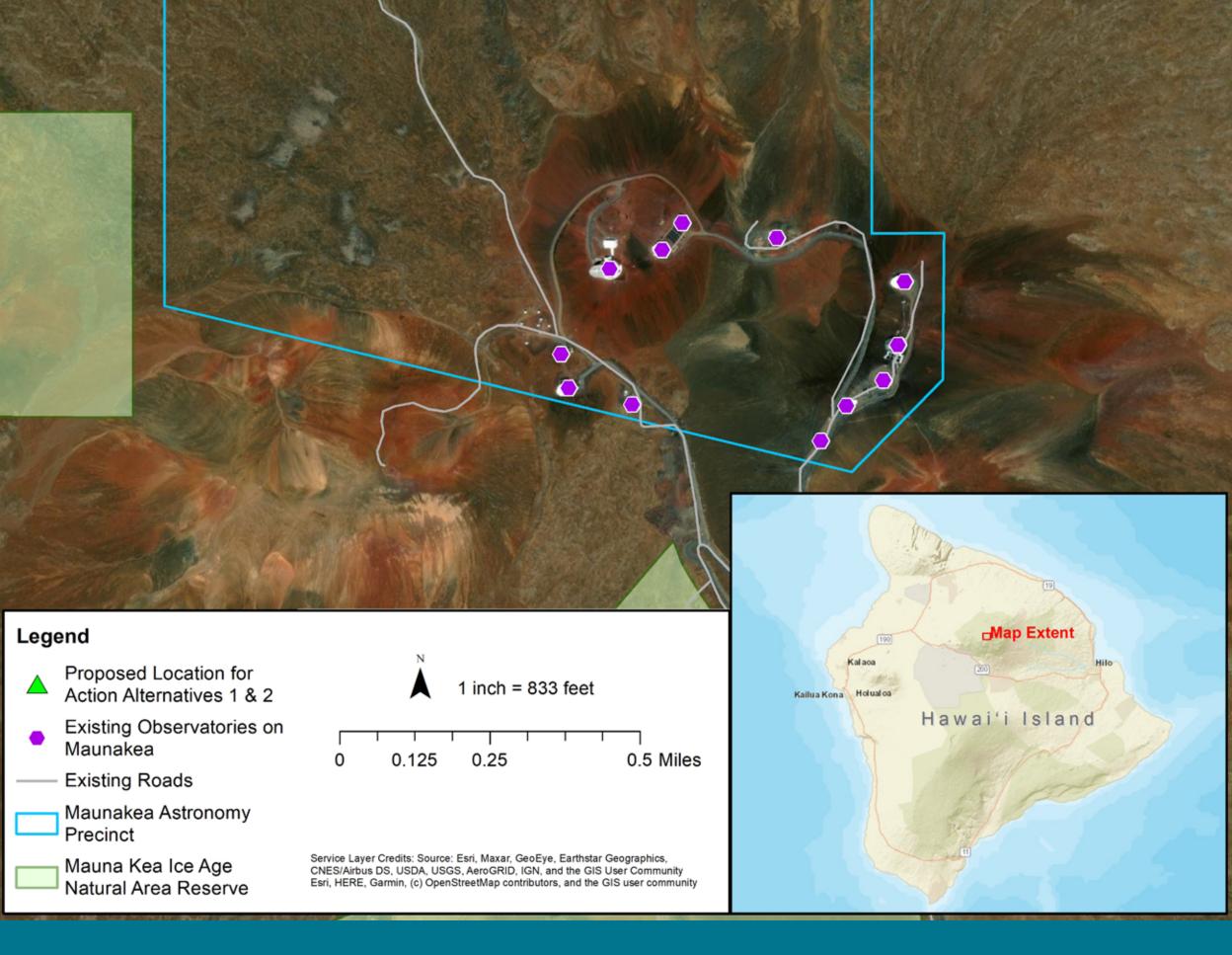
NSF investment in the construction and operations of an Extremely Large Telescope (ELT) located in the Northern Hemisphere, which is a potential future funding action.

#### PRELIMINARY ALTERNATIVES

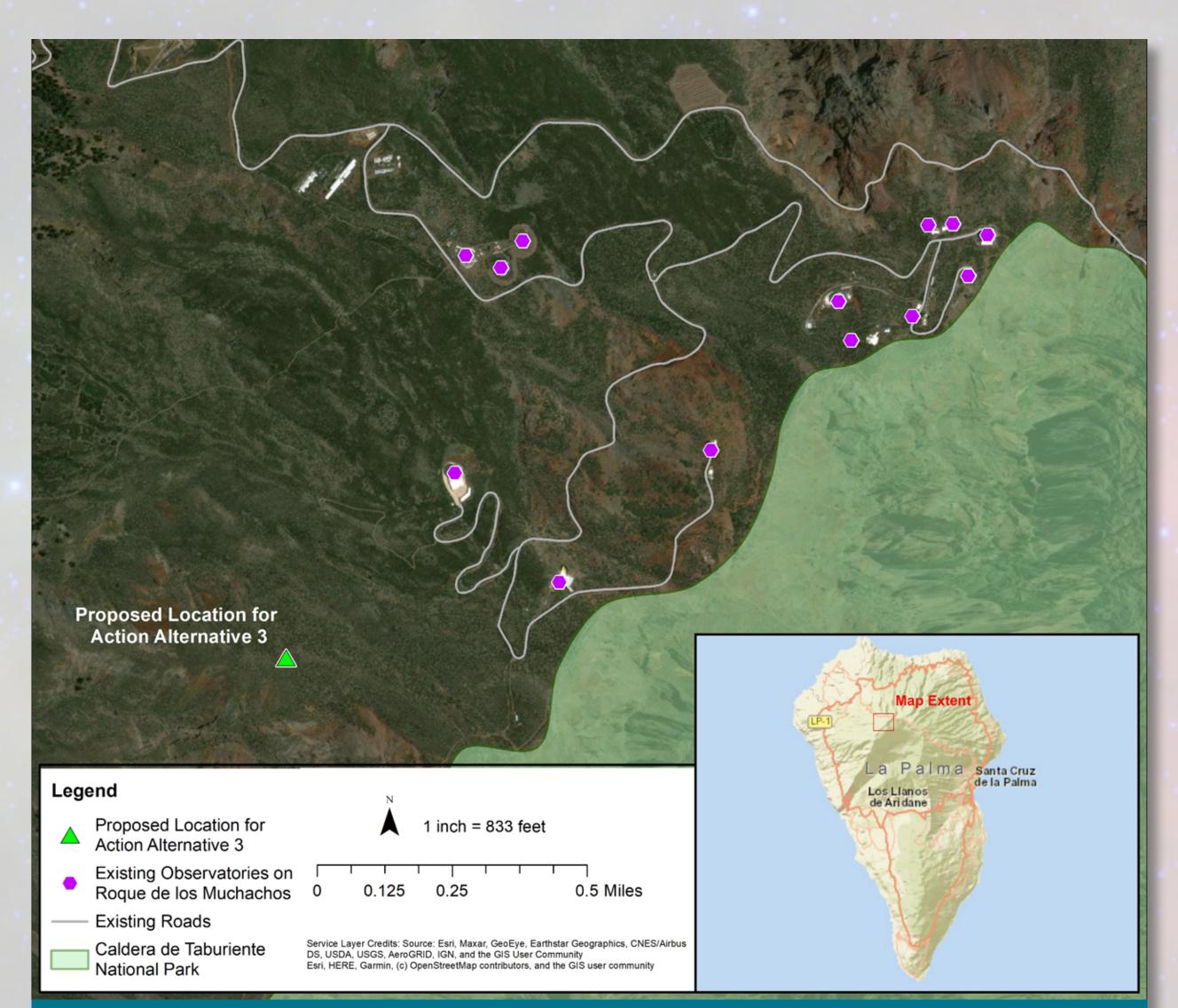
- No Action Alternative: No NSF investment in the construction and operations of an ELT in the Northern Hemisphere
- Action Alternative 1: Investment in the construction and operations of the Thirty Meter Telescope (TMT)
   (as the ELT in the Northern

(as the ELT in the Northern Hemisphere) located on Maunakea, Hawaiʻi Island, Hawaii

- Action Alternative 2: Investment in the construction and operations of TMT (as the ELT in the Northern Hemisphere) located on Maunakea, Hawai'i Island, Hawaii, with an NSF-facilitated plan to define and practice responsible astronomy in Hawaii in partnership with the Mauna Kea Stewardship and Oversight Authority, the Maunakea Observatories, and the affected Hawaiian community
- Action Alternative 3: Investment in the construction and operations of TMT (as the ELT in the Northern Hemisphere) located on Roque de los Muchachos, La Palma, Canary Islands



#### LOCATION OF ALTERNATIVES 1 & 2



#### LOCATION OF ALTERNATIVE 3



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# The NEPA Process

#### WHAT IS THE NATIONAL ENVIRONMENTAL POLICY ACT (NEPA)?

NEPA requires federal agencies to consider the anticipated environmental impacts of proposed federal projects as part of their decision-making process, and to provide for appropriate public involvement.

**NSF intends to prepare an Environmental Impact Statement (EIS)** to evaluate the potential environmental (including cultural) impacts (direct, indirect, and cumulative) resulting from implementation of the Proposed **Action under the No Action and Action** Alternatives.

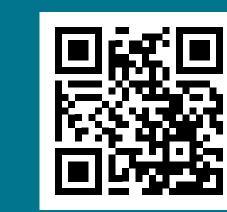
**During the scoping phase, NSF is** soliciting public comments to determine relevant issues that will influence the scope of the environmental analysis, including the identification of viable alternatives and the resources and issues to be analyzed in the EIS.

**Preliminary Resources** Considered for Analysis of Environmental Impacts

- Cultural Resources
- Visual Resources
- Socioeconomics
- Land Use
- Human Health and Safety
- Biological Resources
- Geological Resources
- Water Resources
- Hazardous Materials and Waste
- Traffic and Transportation
- Public Services and Utilities
- Noise
- Air Quality and Climate Change



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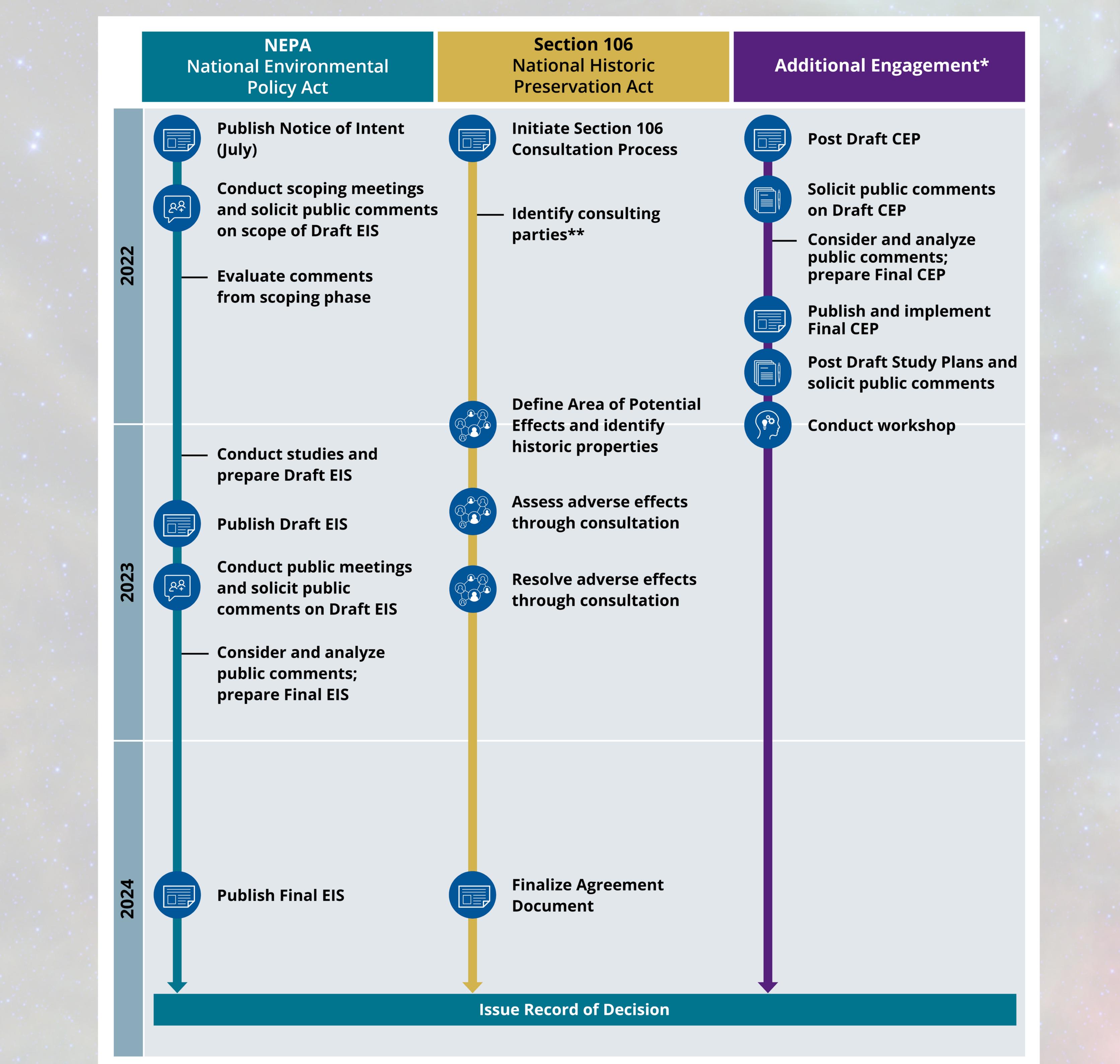




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# NSF's Environmental Review Process



#### LEGEND



Public meetings and comment period

Written comment period

Workshop

Consulting parties meeting

#### Notes

- \* NSF's Informal Outreach Effort began in August 2020 and concluded at the end of November 2021. This informal engagement with people who have a connection to Maunakea provided NSF with invaluable insights into the widely diverse viewpoints about Maunakea and TMT, and informed preparation of the Draft CEP.
- \*\* Parties that have consultative roles in the Section 106 process per 36 *Code of Federal Regulations* 800.2.

#### Acronyms



CEP = Community Engagement Plan EIS = Environmental Impact Statement



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# Providing Your Input During the Scoping Process

NSF welcomes your comments on the preliminary Alternatives, expected environmental impacts, preliminary list of resource areas, and scope of NSF's environmental review.

Ways to submit comments to NSF:



**Complete a paper comment form during this meeting** 





### Submit a comment online via website



### Mail your comments to Ms. Elizabeth Pentecost, RE: ELT National Science Foundation Room W9152 2415 Eisenhower Avenue Alexandria, VA 22314

## COMMENTS CAN BE SUBMITTED TO NSF FROM JULY 19, 2022, THROUGH SEPTEMBER 17, 2022.

For further information regarding the EIS process, please contact Ms. Elizabeth Pentecost at (703) 292-4907 or EIS.106.TMT@nsf.gov.



### For more information, visit https://beta.nsf.gov/tmt





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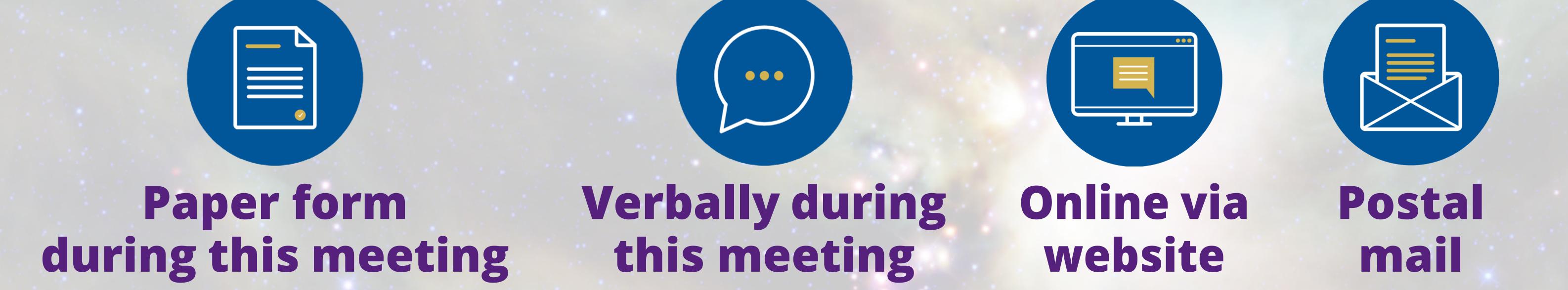
# NSF's Draft Community Engagement Plan



**NSF prepared a Draft Community Engagement Plan (Draft CEP)** to help guide meaningful and effective engagement with the Hawaiian community and other interested members of the public during the environmental review process. NSF welcomes public input on the Draft CEP and will complete the Final CEP in late 2022.

**Comments on the Draft CEP can be** submitted using any of the following methods:

NSF's Informal Outreach Effort began in August 2020 and concluded at the end of November 2021. This informal engagement with people who have a connection to Maunakea provided NSF with invaluable insights into the widely diverse viewpoints about Maunakea and TMT, and informed preparation of the Draft CEP.



The Draft CEP is available for public review at <u>https://beta.nsf.gov/tmt</u> and at the following libraries:

#### **O'AHU**

- James & Abigail Campbell Library, Kapolei
- Hawaii Kai Public Library, Honolulu

#### **KAUA**

- Lihue Public Library, Līhu'e
- Princeville Public Library, Princeville

#### MAUI

• Kihei Public Library, Kīhei

#### **HAWAI**

- Edwin H. Mo'okini Library, Hilo
- Thelma Parker Memorial Public and School Library, Kamuela
- Hilo Public Library, Hilo
- Pahala Public and School Library, Pāhala
- Kailua-Kona Public Library, Kailua-Kona

## COMMENTS CAN BE SUBMITTED TO NSF FROM JULY 19, 2022, THROUGH SEPTEMBER 17, 2022.

For further information regarding the Draft CEP, please contact Ms. Elizabeth Pentecost at (703) 292-4907 or ElS.106.TMT@nsf.gov.



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# The Section 106 Process

NSF will engage in Section 106 consultation in coordination with the Environmental Impact Statement process.

#### WHAT IS SECTION 106?

A process that seeks to accommodate historic preservation concerns with the needs of federal undertakings through consultation, commencing at the early stages of project planning.

#### WHAT IS THE GOAL OF CONSULTATION?

Identify historic properties within the Area of Potential Effects

(APE) that could be affected by the proposed undertaking, assess those effects and seek ways to avoid, minimize and/or mitigate any adverse effects on historic properties.

### WHAT IS A CONSULTING PARTY?

Those with consultative roles in the Section 106 process may include:

- State Historic
  Preservation Officers
- Native Hawaiian organizations
- Representatives of local governments
- Applicants for federal assistance, permits, licenses, and other approvals
- Advisory Council on Historic Preservation
- Other individuals and organizations with a demonstrated interest in the undertaking or the affected historic properties

(36 CFR 800.2)

For further information regarding the Section 106 consultation process, please contact Ms. Elizabeth Pentecost at (703) 292-4907 or ElS.106.TMT@nsf.gov.



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