

# **TMT Workforce, Education, Public Outreach and Communications**

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TMT / IPAC-ICE

# WEPOC Values

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- Create a WEPOC plan that incorporates all phases of the TMT project
- Create a WEPOC plan that is relevant to all of the partners
- Create a WEPOC plan that leverages what is unique about TMT

# TMT WEPOC Landscape

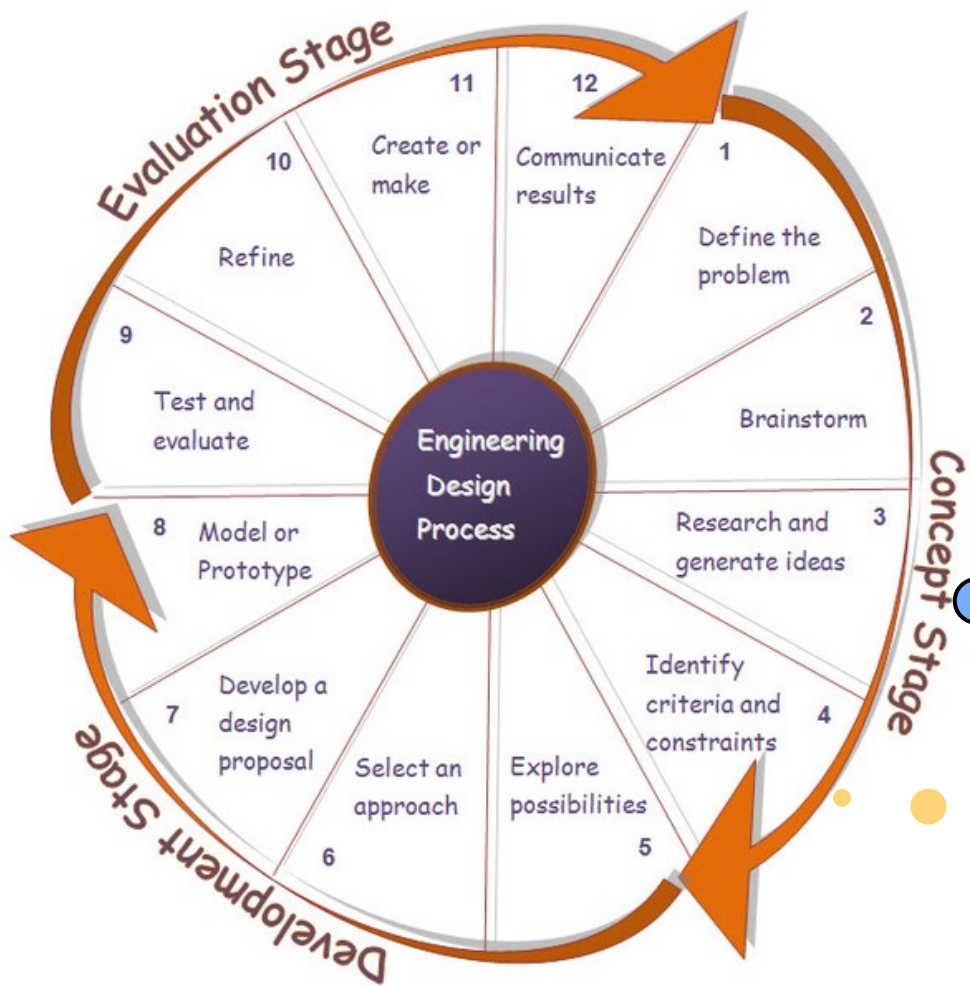
- ◆ Varying levels of WEPOC infrastructure, experience and support among the partners
  - ◇ Even in the U.S., which historically was active and supportive in WEPOC, WEPOC has been ... less actively supported recently
  - ◇ Need to develop plans within each partner, with priorities relevant within each partner, as well as a plan that includes all the partners
  - ◇ Need to develop an infrastructure within the partnership

# WEPOC Advisory Group

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- Representative from all partners + U.S. general community
- Members:
  - Steve Pompea (NOAO, Chair)
  - Wako Aoki (Japan)
  - Mitch Aiken (Caltech)
  - Eric Chisholm (Canada)
  - Claire Max (UC)
  - Durgesh Tripathi (India)
  - Yiping Wang (China)
  - Paul Coleman (UH)
  - Judith Donnelly (Three Rivers Community College)
  - Michelle Hall (Science Education Solutions)
  - Sue Ann Heatherly (NRAO)
  - Derek Pitts (Franklin Institute)

# WEPOC: Planning Process



2013 – 2014

Form international TIO WEPOC advisory group

Survey of peer facility plans, programs, systems, challenges

Survey of TIO partner WEPOC plans, systems, programs, needs, desires, challenges

2014

Define core values, goals of TIO WEPOC Program



# WEPOC Planning: Next Steps

2014 – 2015

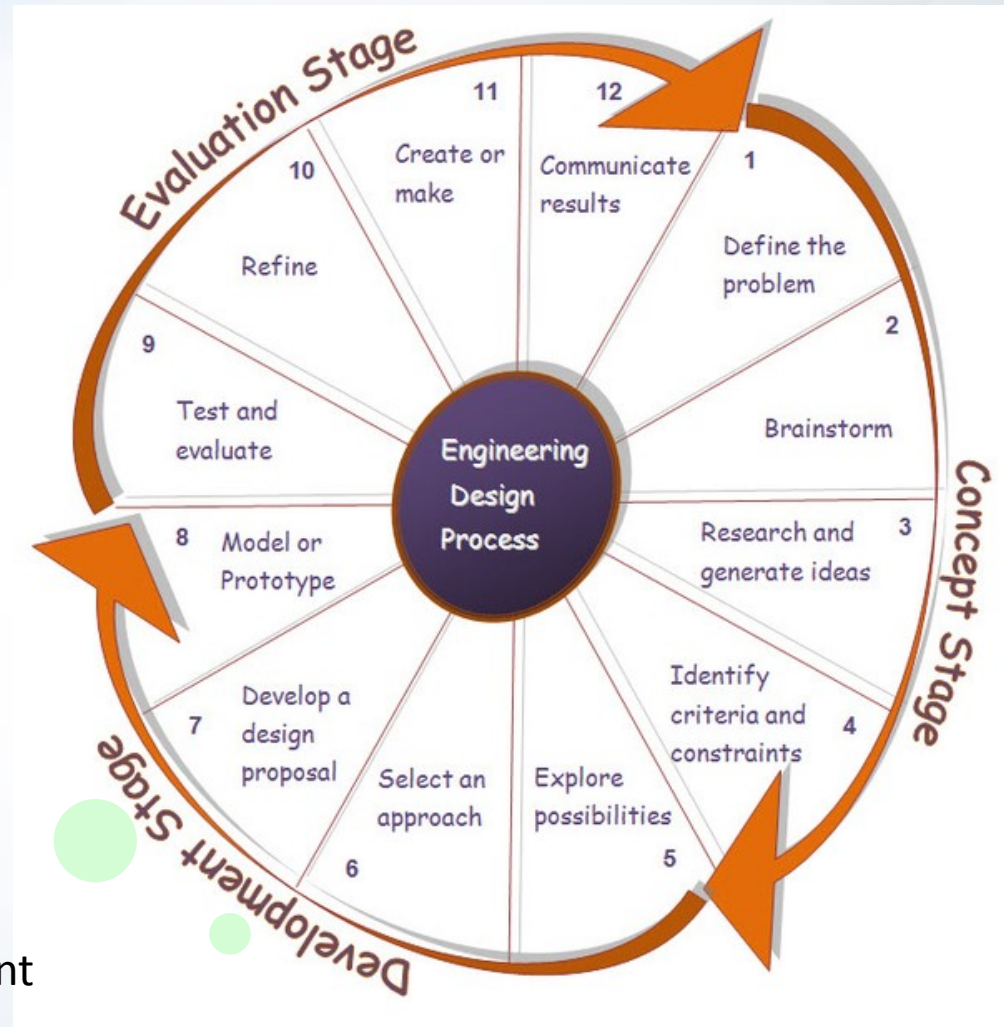
Develop Conceptual designs:

W = international internship program

E = engineering challenge

POC = TMT exhibit/display

These programs are pilots and in alignment with TMT WEPOC values.



# Hawaii

# THINK Fund

- The Hawaii Island New Knowledge (THINK) Fund will begin with the start of construction.
- Will provide \$1 million/year in STEM educational grants and scholarships.
- Implementation:
  - Hawai`i Community Foundation
  - Ke Ali`i Pauahi Foundation



# Hawai'i Workforce Pipeline Development

- Program details in development
- Perhaps \$1M/yr funding available
  - programs in alignment with TMT WEPOC plan
- Comprehensive, proactive, results-oriented program
- In conjunction with UHH, HawCC, DOE, Hawai'i County

# Pacific Astronomy and Engineering Summit

- TMT sponsored
- High schools from Hawaii, Canada, China, India and Japan
- In Hilo 7/2015
- “He Lani Ko Luna, He Honua Ko Lalo: the sky above, the earth (and the sea) below and all that is encompassed therein”
  - Derived from a Hawaiian proverb that speaks about the synergistic relationship among the sky, earth, ocean and all forms of life.





Hawai'i State Robotics  
ROC

First Annual Pacific Astronomy and  
Engineering Education Summit





**FREE**

**Calling all Middle and High School STEM Teachers!**

**YOU'RE INVITED**

# **Astronomy in the Classroom Workshop**

**Friday October 26th and Saturday, October 27th**

**Kealakehe High School**



SPONSORED BY  
UH INSTITUTE FOR ASTRONOMY  
AND THIRTY METER TELESCOPE



**FRIDAY, OCTOBER 26 6:00 PM - 8:00 PM**

## **Faulkes Telescope Project Teacher Training**

Test drive the Faulkes Telescope, a large, research-grade telescope for teachers to use as part of their educational programs. Learn how to obtain and use your own astronomical data!

**Star Gazing For The Entire Family**

**SATURDAY, OCTOBER 27 8:30 AM – 3:30 PM**

## **Teacher Training; Heliophysics in the Classroom**

What makes the Sun a star, the impact of sunspots on Earth and the Earth's defenses against its harmful rays will be explored with demonstrations and activities on electricity and magnetism.

## **Teacher Training; SUPER-M Engaging, Fun Math Activities**

Discussions center on recent Transit of Venus and basic properties of waves and light, the EM spectrum, spectroscopy, and doppler shift.

Childcare and Astronomy activities for teacher's children will be available, including math lessons and The StarLab, Gemini Observatory's mobile planetarium.

Morning continental breakfast and hot lunch will be served .

**RSVP to Laura Aquino**

**326-7820 • [laura@current-events.com](mailto:laura@current-events.com)**

Let Laura know if you are coming Friday night and if you are bringing your children on Saturday.



# Akamai Students





## International Science Fair - Hilo

