



Undergraduate Research Opportunities Program

Office of the Vice Chancellor for Research

Using NSSE Data to Compare Senior Participation in
Faculty-Mentored Research at UHM to Peer Institutions

January 28, 2021



**Undergraduate Research
Opportunities Program**

Office of the Vice Chancellor for Research
University of Hawai'i at Mānoa



NSSE data + MIRO tools = goals

Goals

1. Determine % of UHM undergraduate students who participated in, or planned to participate in, faculty-mentored research
2. Compare to peer institutions





NSSE data + MIRO tools = goals

NSSE Data & MIRO tools

Step 1: Navigate survey. Identify desired data

NSSE survey instrument:

Question:

“Which of the following have you done or do you plan to do before you graduate?”

Answer:

Work with a faculty member on a research project

Data collected:

Freshmen and senior responses from 2004 – 2015, with some gaps

2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015

During the current school year, about how often have you done the following?

Asked questions or contributed to course discussions in other ways

Very often Often Sometimes Never

Prepared two or more drafts of a paper or assignment before turning it in

Very often Often Sometimes Never

Come to class without completing readings or assignments

Very often Often Sometimes Never

Progress: 0%

Example survey question




NSSE data + MIRO tools = goals



NSSE Data & MIRO tools

Select tool



NSSE Data

Engagement Indicators

High-Impact Practices

Time Usage

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University of Hawai'i at Mānoa NSSE Report

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High-Impact Practices (HIP)

[Tutorial Video](#) [PDF Tutorial](#)

NSSE Survey Year

2015

FT/PT

Campus Resident

Campus Building

Cumulative GPA

Semester GPA

--- Any ---

Full-time

Part-time

--- Any ---

Yes

No

--- Any ---

Frear Hall

Gateway House

Hale Aloha Lehua

Hale Aloha Lokelani

Hale Aloha Mokihana

--- Any ---

4.0 (A and A+)

3.7 - 3.99 (A- to A)

3.3 - 3.69 (B+ to A-)

3.0 - 3.29 (B to B+)

2.7 - 2.99 (B- to B)

--- Any ---

4.0 (A and A+)

3.7 - 3.99 (A- to A)

3.3 - 3.69 (B+ to A-)

3.0 - 3.29 (B to B+)

2.7 - 2.99 (B- to B)

UHM Race

UHM Ethnicity

--- Any ---

International

Hispanic/Latino

Black or African American

White

American Indian or Alaska Native

--- Any ---

Japanese

Chinese

Filipino

Korean

Thai

Age From: To:

Leave one blank for open-ended range; endpoints are inclusive.

Geo Origin

Citizenship

Hawai'i Residency

Island

Hawai'i Area

--- Any ---

Hawai'i

US Mainland

--- Any ---

Resident

Non-Resident Exempt

--- Any ---

Resident

Non-Resident Exempt

--- Any ---

O'ahu

Hawai'i

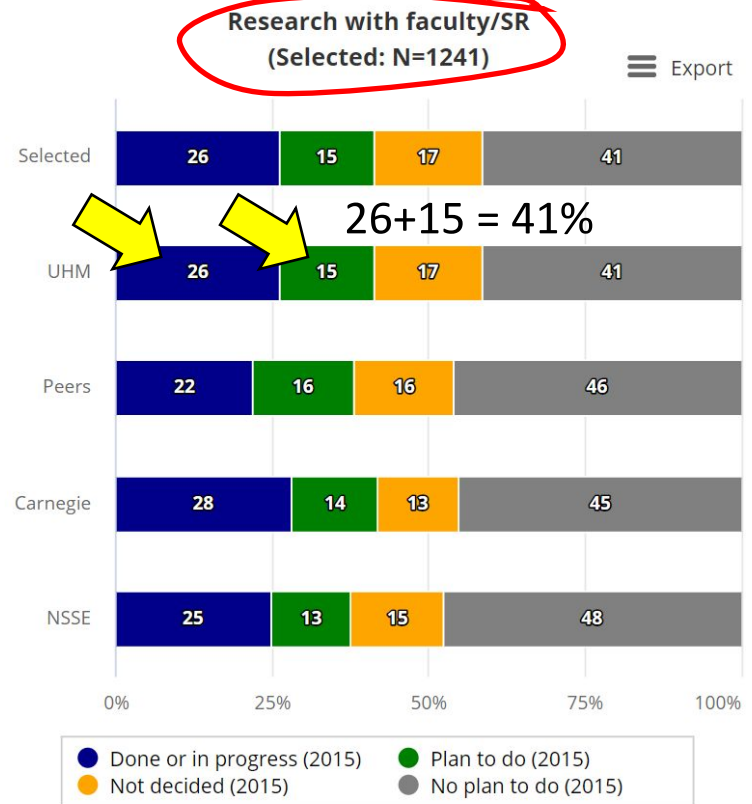
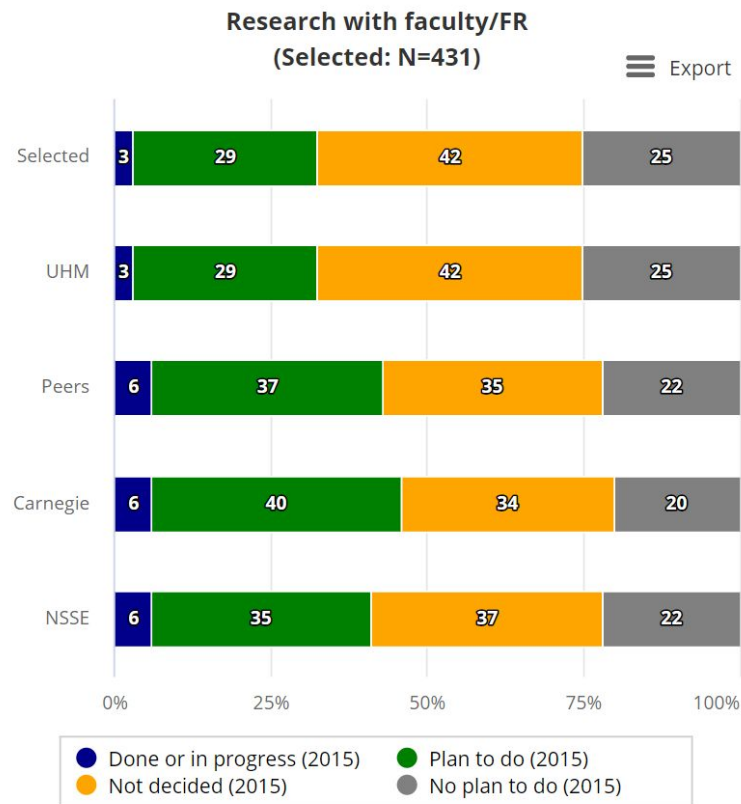


NSSE data + MIRO tools = goals

NSSE Data & MIRO tools

Generate data

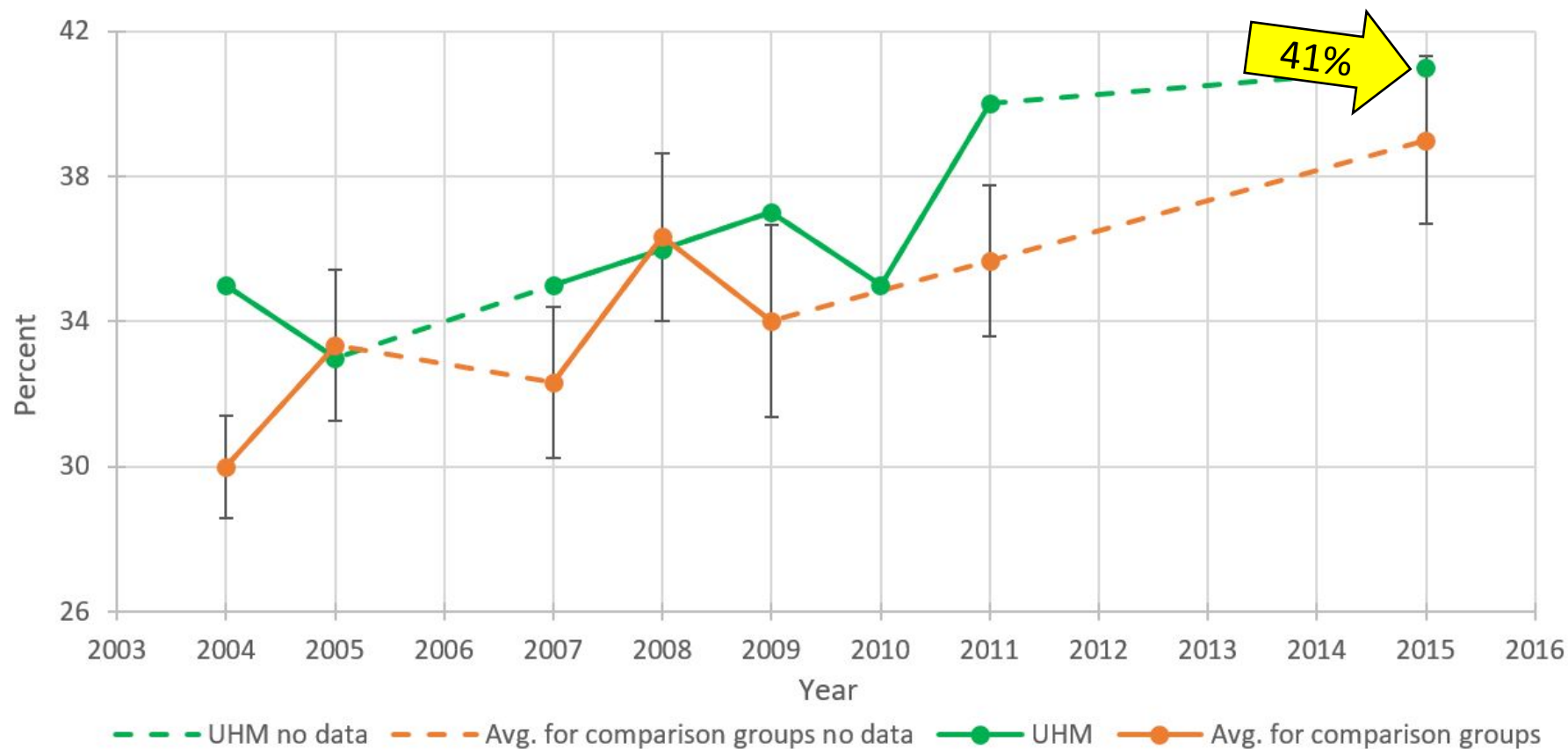
Research with faculty: Work with a faculty member on a research project.





Using the data

Graph C: Total Weighted Percent of UHM senior respondents who are **"done"** or **"plan to do"** faculty-mentored research from 2004-2015, with ± 1 SD bars





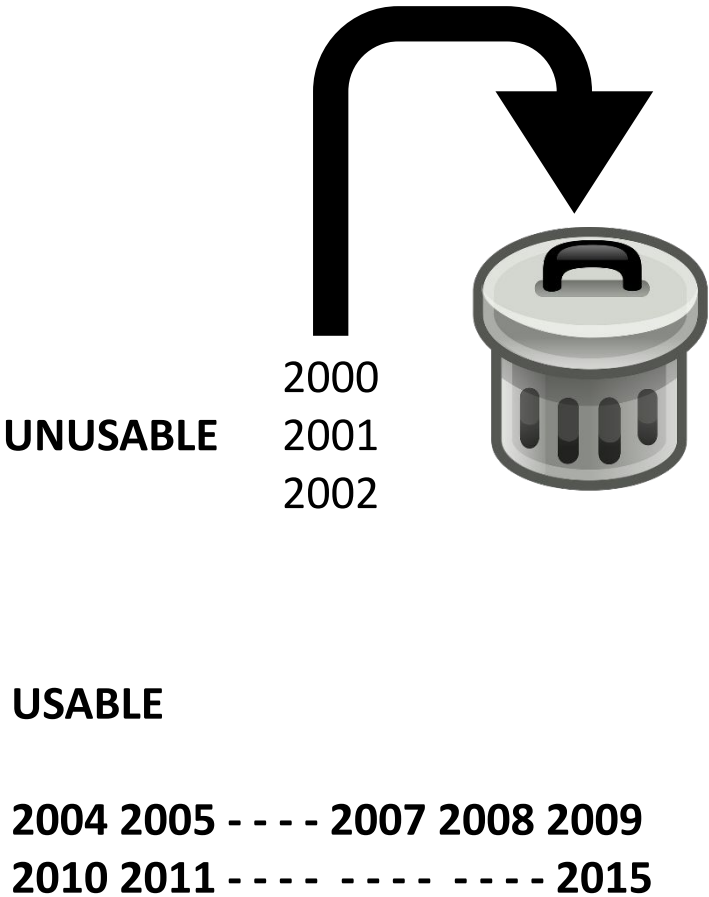
Next steps

- Set benchmarks for research participation
- Promote available research opportunities
- Emphasize impact of research on students, need for institutional support





Caution: Understand limitations



WHY?

Survey instrument
changed year to year

Year	Prompt	Answer choices
2001	Work on a research project with a faculty member outside of course or program requirements	yes, no, undecided
2011	(same as above)	<u>done, plan to do, do not plan to do, have not decided</u>
2015	<u>Work with a faculty member on a research project</u>	done <u>or in progress</u> , plan to do, do not plan to do, have not decided



Mahalo!



Thank you for your time!

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