



# The Cascadia CURE Conference



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## Need for Conference

- ❖ 58% of WA state undergraduate students are enrolled in community colleges.
- ❖ Of these students, 37% of STEM majors identify themselves as belonging to groups underrepresented in STEM.
- ❖ UGR has been shown to be effective to retain underrepresented students in STEM.
- ❖ CUREs are being developed by many faculty in the 34WA CCs.
- ❖ All are implementing Guided Pathways
- ❖ However, no institutional plan for CUREs linked to Guided Pathways.

## Goal for Conference

Convene teams of STEM administrators and faculty from 10 WA State community colleges to create long-term plans to institutionalize the widespread practice of CUREs in a manner tailored to their colleges' assets, employees, students, and cultures consistent with their applications of the Guided Pathways model and aligned with their institution-wide strategic plans.

## Intellectual Merit

Research done by CCURI asks the question:

- 1) How does an institution go from a culture of "no research to a culture of "research is the norm?"
- 2) What factors promote or constrain culture change from "no research" to "research as the norm?"

Research is the norm in institutions where:

Undergraduate research (UR) is aligned with institutional priorities (strategic plan, mission, vision, and system-wide initiatives).

UR activities are connected to internal and external (local, regional, and national) networks.

UR is embedded within course instruction (i.e., CUREs).

UR is supported through faculty professional development plans and opportunities.

UR is multi-departmental/interdisciplinary.

UR is implemented in accordance with a shared vision and strategic plan.

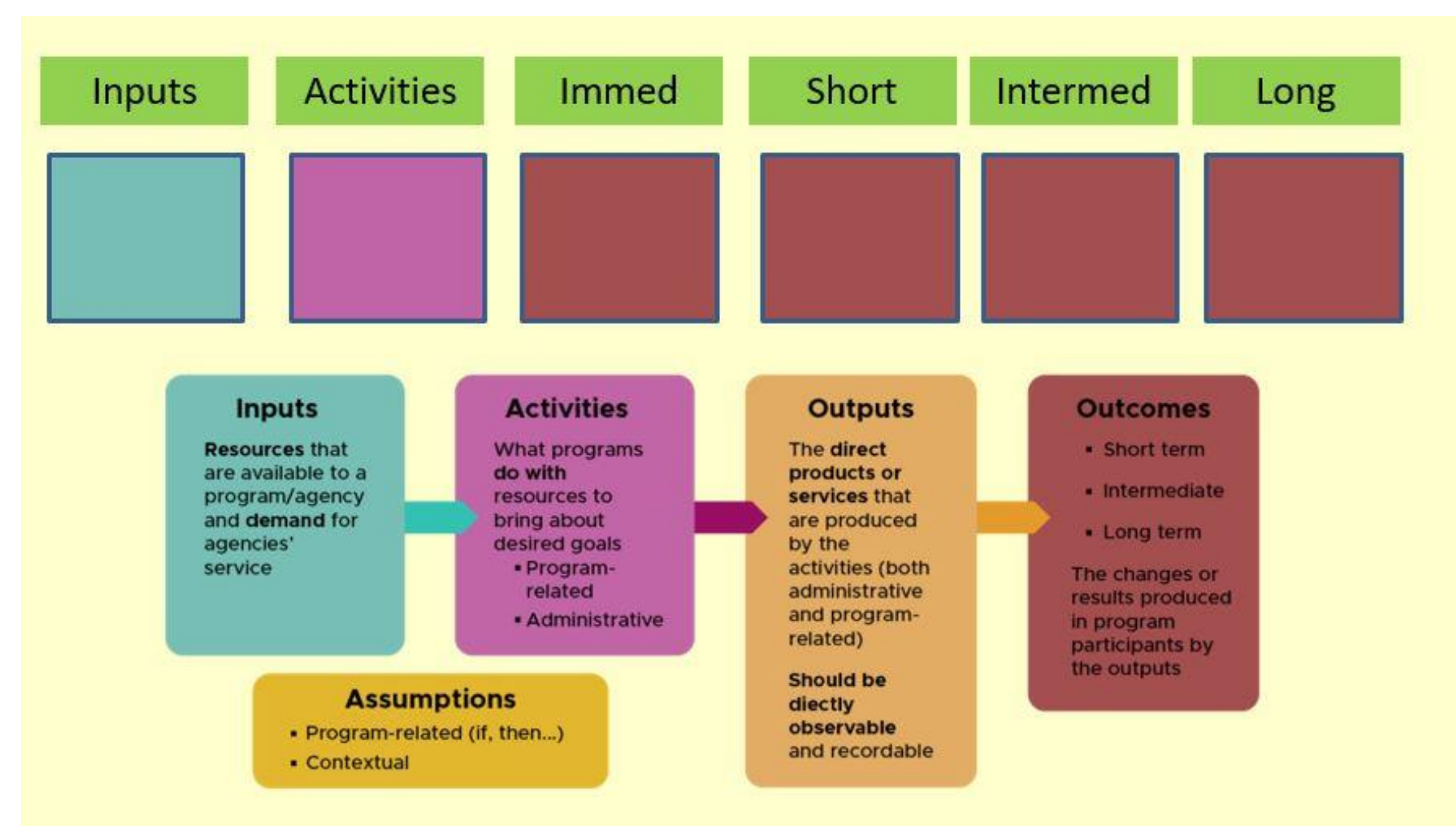
UR activities are scaffolded, and not limited to an isolated course within each program of study.

The strategic plans created in the conference will be influenced by these findings.

QUESTION: How well does CCURI's research facilitate this planning?

What works and what does not (results of a follow-up survey one year later)

## CCURI Logic Model



## Methodology

### Day 1

- 10:30AM-11:30AM: Registration, Introductions, Overview of Conference
- 11:30AM – 12:45PM: Teams create their shared vision (over lunch)
- 12:45PM-1:15PM: Overview of UGR in Washington state (Former PI, WA-CURE Gita Bangera)
- 1:15PM-1:45PM: The WA-CURE project (Katie Bryant, Bellevue College)
- 1:45PM- 2PM : Break
- 2PM-3:30PM: Teamwork: Outcomes for CUREs (Template provided)
- 3:30PM-3:45PM - Break
- 3:45PM – 5PM: Outcomes TO Inputs TO Activities TO products (Template provided)
- 5PM – 5:30PM: Example from Whatcom College – Kaatje Kraft and Jennifer Zovar
- 5:30PM-6PM : CUREs as college culture – Jim Hewlett, Finger Lakes CC
- 6PM – 7PM: Dinner

### Day 2

- 7AM-8AM: Breakfast
- 8AM – 8:30AM: Teams share-out: Inputs, Activities, Products
- 8:30AM-9:30AM: Guided Pathways and CUREs – Valerie Sundby, Director of Transfer Education, WA State Board of Community and Technical Education
- 9:30AM-9:45AM - Break
- 9:45AM-11AM: Teamwork - Task Planning
- 11AM-Noon: Teamwork - Challenges and Solutions
- Noon – 12: 15PM: Institutional support for CUREs – Suzanne Johnson, President, Green River College
- 12:15 – 1PM: Lunch
- 1PM – 1:30PM: Climate Solutions, Irene Shaver, Program Manager, Climate Solutions Program, WA SBCTC.
- 1:30PM-6PM: Team bonding activities
- 6PM - Dinner

## Day 3

- 7AM-8AM: Breakfast
- 8AM-9AM: Building the logic model
- 9AM – 9:30AM: Evaluation
- 9:30AM – 10AM: Refine Plan
- 10AM-Noon: Team share-out of plan
- Noon – Lunch and Conclusion

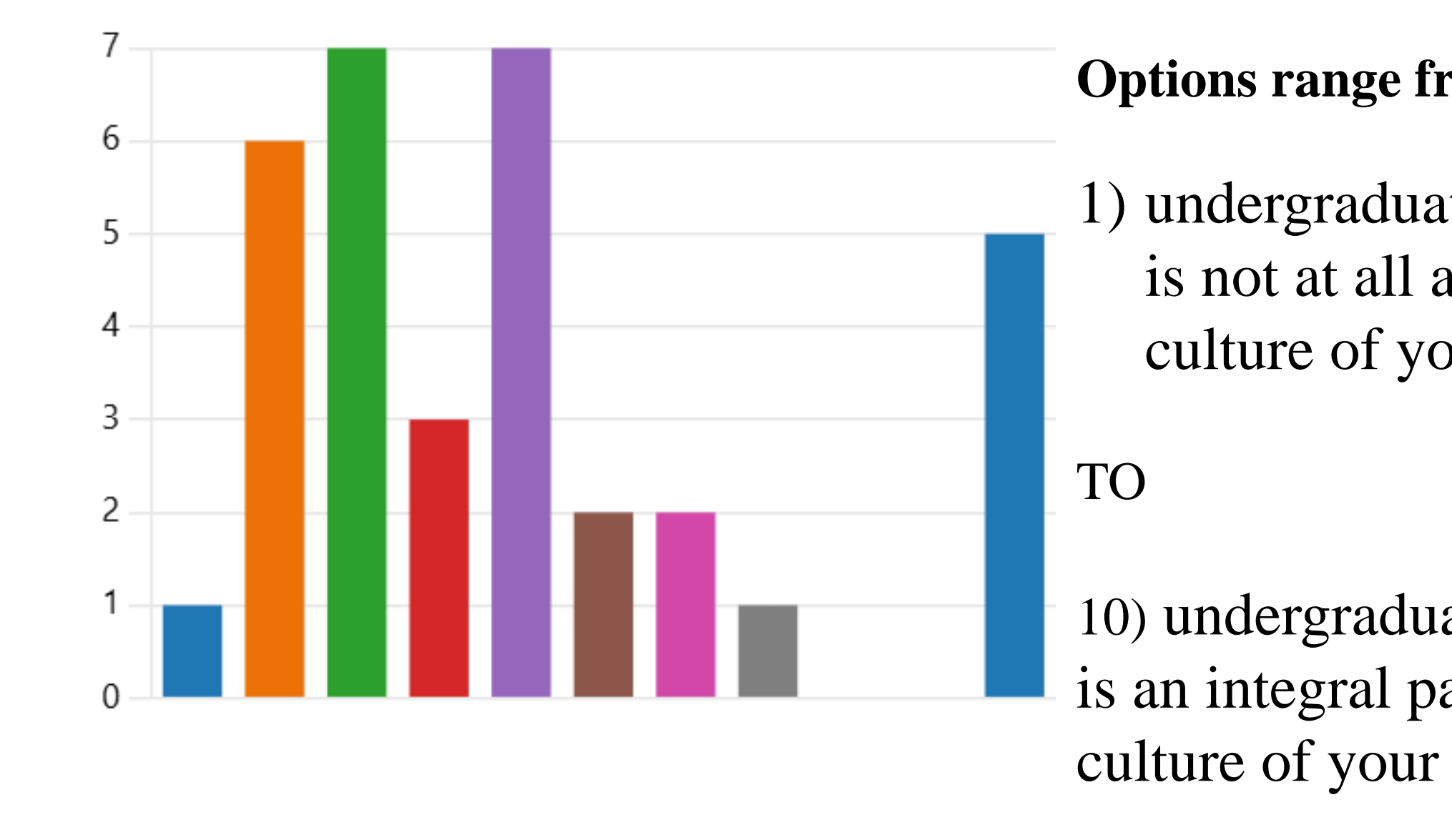
## Broader Impact



- 1) Cascadia College, Bothell, WA
  - 2) Centralia College, Centralia, WA
  - 3) Clark College, Vancouver, WA\*
  - 4) Columbia Basin College, Pasco, WA\*
  - 5) Green River College, Auburn, WA\*
  - 6) Highline College, Des Moines, WA\*
  - 7) Olympic College, Bremerton, WA\*
  - 8) Skagit Valley College\*
  - 9) Walla Walla Community College, Walla Walla, WA\*
- \*predominantly low-income or minority-serving institutions

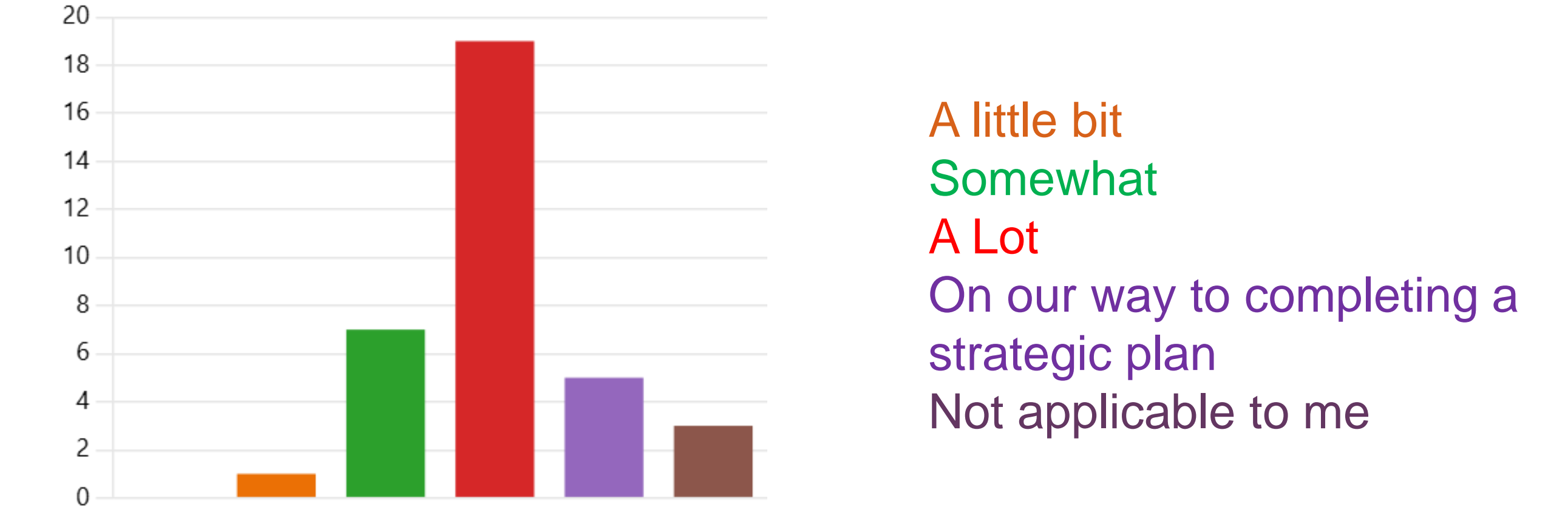
## Conference Kick-Off Survey (34)

Ques: Is ugr a part of the culture of your college?



## Post-Conference Survey

How much did the conference help you in developing a strategic plan for institutionalization of CUREs in your college?

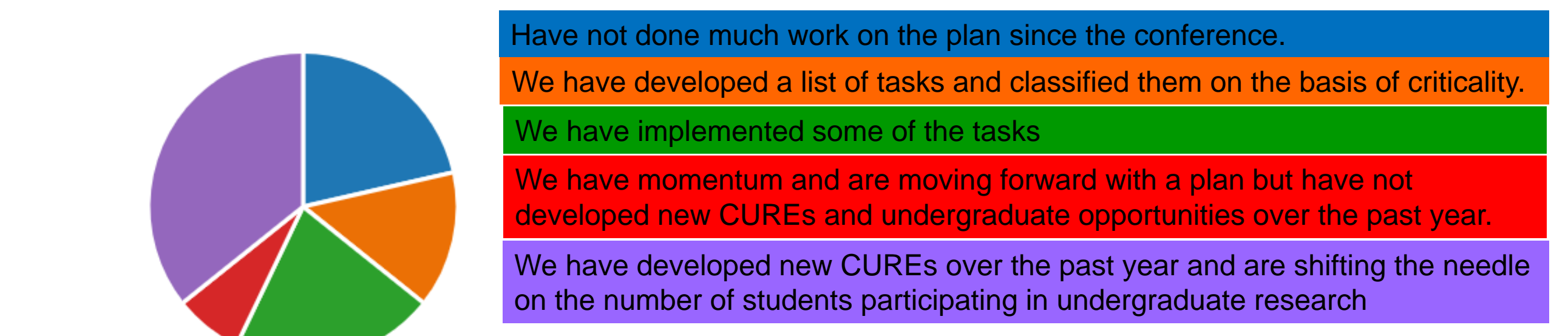


Would you be interested in following up with a retreat next summer to discuss progress in institutionalization?



## One-Year Survey

How far along are you in the development of a strategic plan for undergraduate research at your campus?



## Preliminary Conclusions

- CUREs increase engagement, critical thinking, research skills for all students (equity-based practice)
- Lack of faculty development programs
- Resources – Time, funding, faculty teaching load

## Acknowledgement

James Hewlett, Biology Professor, Finger Lakes Community College, facilitator of the working sessions

## References

- Community College Undergraduate Research Initiative (CCURI) – Creating a culture of change. NSF DUE #1524353
- Washington Community and Technical College Consortium for Undergraduate Research and Equity. (WA-CURE) NSF DUE #2336652