

PRAGMA Wide Student Mentoring Group

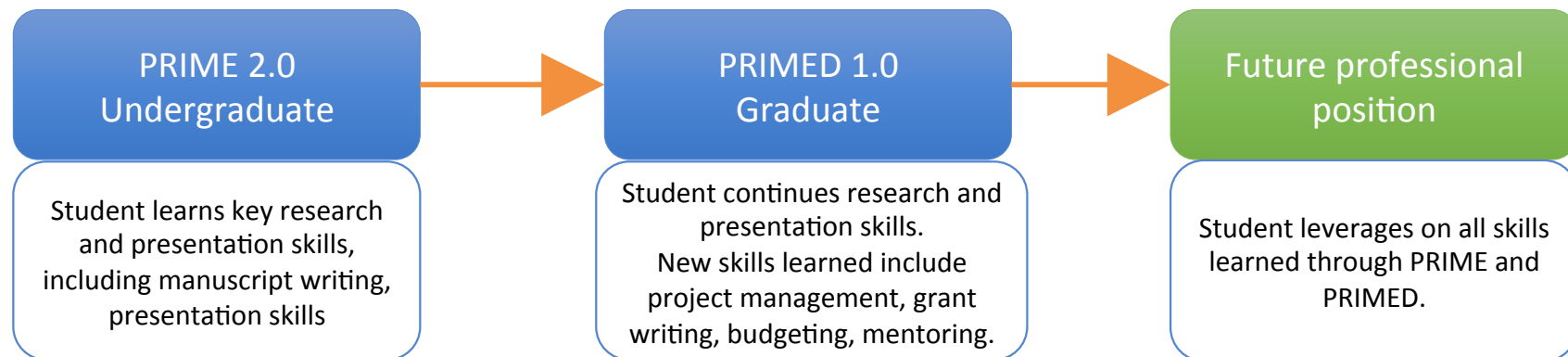
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PRAGMA Wide Student Mentoring Group

- Leveraging on our longstanding PRAGMA **community and experience** with students, how can we collectively:
 - Enhance the PRAGMA student experience through individual or joint programs for students and add to student experiential learning
 - Networking
 - Professional opportunities
 - Leadership challenges
 - Research mobility
- The **goals** of this group are:
 - Transform the career potential for students involved PRAGMA
 - Change/create more opportunities at participating institutions
 - Create a mentor network to teach/support skills to host mentors
 - Facilitate the development of leaders in interdisciplinary research

PRAGMA – Training Future Professionals

- Scenario: An undergraduate student joined PRIME and became very interested in the project. The student continued to work with mentors in PRAGMA through graduate school and beyond.
 - What would the student gain?
 - What is the benefit to the mentors/institutions?



Students: New Ideas, Energy, and Strengthening of PRAGMA

Students infuse PRAGMA with new ideas and energy, improve organizational practice, create/sustain collaborations

Enhance and accelerate the development of talent: technically strong, culturally aware, globally engaged

PRIME: Undergrad

- Created/tested Model for Experiential Learning
 - 6 month program for research, cultural, and professional development
 - Students are from single institution (UCSD)
- Research and Professional Accomplishments
 - 12 years, 200 students, 47% female; still in contact
 - Of 103 respondents to recent PRIME survey, 81 have or are gaining higher degrees
 - 28 research publications, 6 software components, 5 experiential papers - by students
- Strengthened, broaden collaborations in PRAGMA

PRAGMA Students: Grad

- Modified PRAGMA's Practices
 - Currently, no formal program, but continuous engagement of students to organize poster sessions, lightning talks, workshops
 - Communicated with Steering Committee Members to accomplish activities or self-started by students
 - Students are from multiple institutions
- Research and Professional Accomplishments
 - 5 years, (?) students
 - Leadership (how many have gone on to leadership positions or higher degrees?)
 - 35 publications
 - 6 short-term research visits
- Experiments by, with and for students: Hackathons

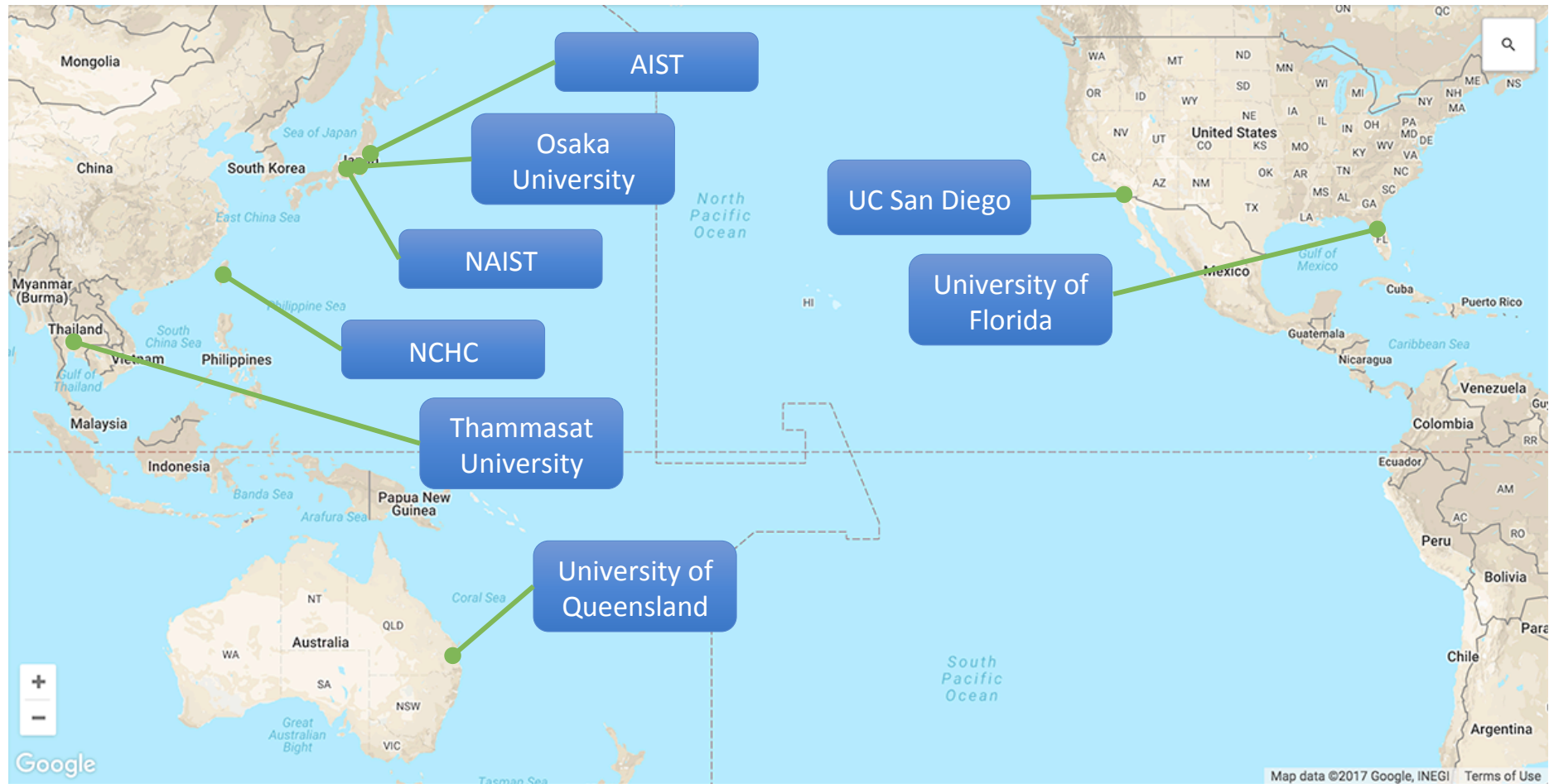
- Expand/enhance the PRIME program
 - Focus on PRAGMA projects
 - Lengthen term of projects
 - Involve multiple US sites (teams)
 - Add Professional Components
 - Formalize process of presenting research results upon return (e.g. publication writing, poster creation, presentation skills, etc.)
 - Provide support/framework for PRIME students to mentor next cohort
 - Expand alumni engagement e.g. alumni from 5 years ago return to speak about PRIME impact on career

- Create a formal graduate PRIME program (PRIMED)
 - Continue practices that engage students
 - Amplify exchanges by aligning project with dissertation research
 - Formalize process of research exchanges
 - Add Professional Components
 - Provide training for project management skills (e.g. budgets, managing staff, grant writing, overall project goals, etc.)
 - Develop and implement framework for PRIMED students to mentor undergraduates in PRIME
 - Engage postdoctoral fellow to provide support for PRIMED students (e.g. mentoring the mentors)
 - Prepare students to be leaders in interdisciplinary research

Current Program

Future Program

Current Partners (Evolving Map)



PRAGMA Wide Student Mentoring Group

- Short-term objective(s)
 - Create inventory of exchange opportunities
 - Consider / develop common (joint) approach to
 - engaging (and support) students in PRAGMA
 - identifying ways to align PRAGMA activities and thesis directions
 - looking for opportunities to serve on cross-institutional thesis committees
 - mentoring students in PRAGMA and learn/share mentoring practices
 - conveying to students several professional development skills, such as communications, presentation, poster development, proposal writing, mentoring
 - creating mobility opportunities for students such as international research rotations or jobs
 - Consider joint funding opportunities and assist PRAGMA members to develop programs
- Long-term objective(s)
 - Create a shift in thinking of training for graduate students
 - Rethink graduate education boundaries