



Making STEM Relevant In Underserved Communities

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California State University
SAN MARCOS

Acknowledgements

Charles De Leone Debbie DeRoma
STEM Ambassadors
Vista Unified School District partners



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Calls to Increase The Number And Diversity Of STEM Majors



REPORT TO THE PRESIDENT

PREPARE AND INSPIRE:
K-12 EDUCATION IN SCIENCE,
TECHNOLOGY, ENGINEERING, AND MATH
(STEM) FOR
AMERICA'S FUTURE

Executive Office of the President

President's Council of Advisors on
Science and Technology

SEPTEMBER 2010

PREPUBLICATION VERSION

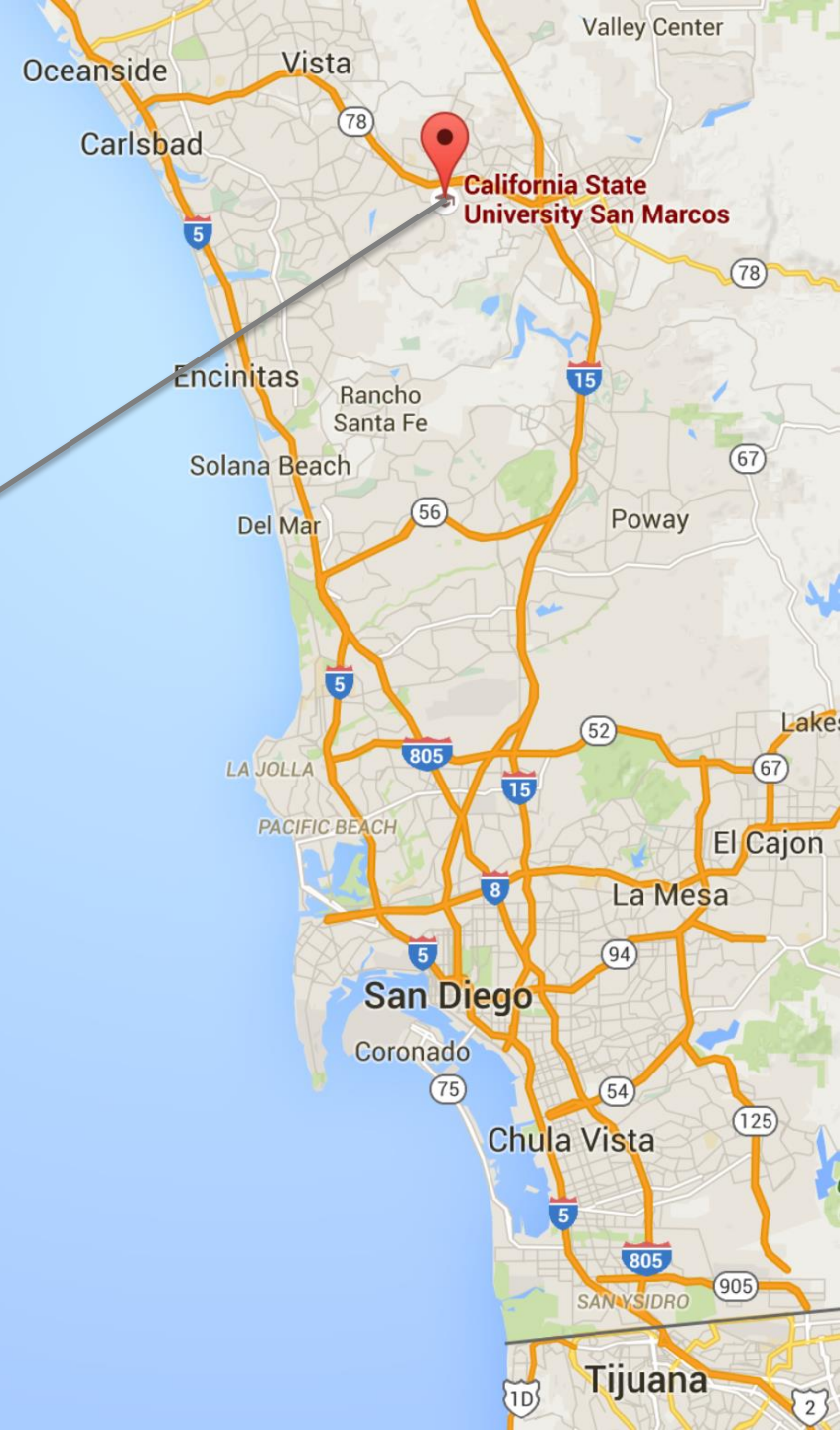


REPORT TO THE PRESIDENT
ENGAGE TO EXCEL: PRODUCING ONE MILLION
ADDITIONAL COLLEGE GRADUATES WITH
DEGREES IN SCIENCE, TECHNOLOGY,
ENGINEERING, AND MATHEMATICS

Executive Office of the President
President's Council of Advisors
on Science and Technology

FEBRUARY 2012





MAKING: STEM Engagement and A Role For Universities



BUILDING A NATION OF MAKERS:
UNIVERSITIES AND COLLEGES PLEDGE
TO EXPAND OPPORTUNITIES TO MAKE

Executive Office of the President

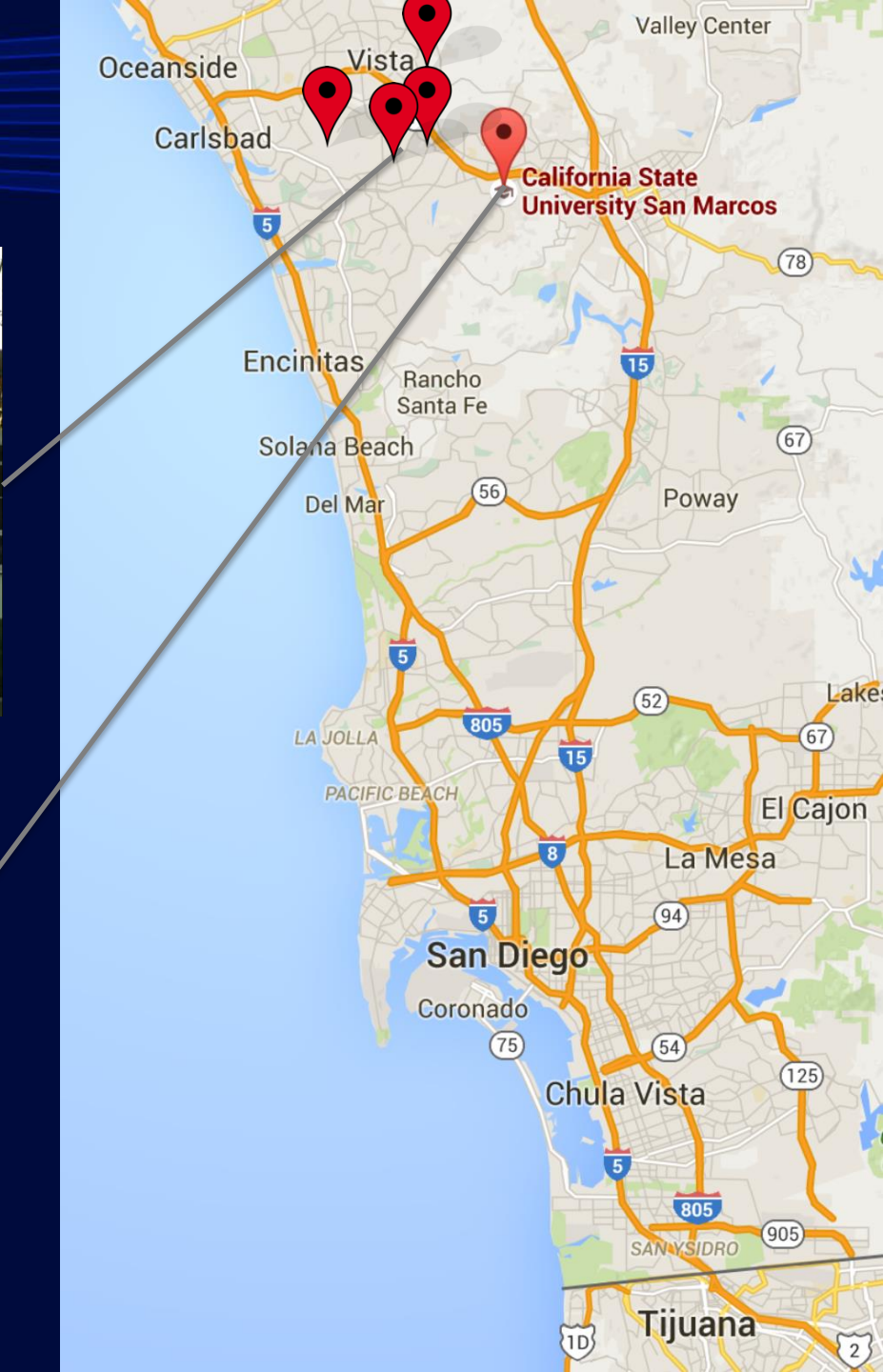
JUNE 2014



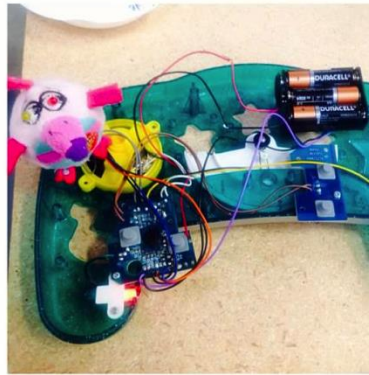
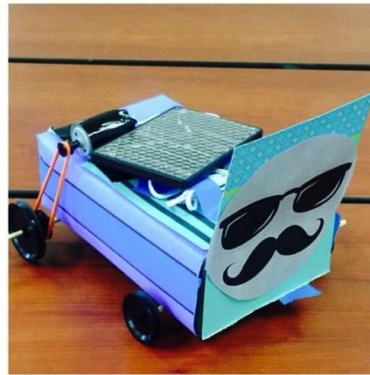
Supporting education, outreach and
service-learning relevant to Making

Participating in regional efforts to
create a vibrant Maker ecosystem





Mobile Making Program



Impacts On Youth Participants

Increases in

- Interest
- Self efficacy
- Perceived relevance

Related to
Making/STEM





Impacts On Undergrad Facilitators

Increased leadership, 21st century, & technical skills



Key Features

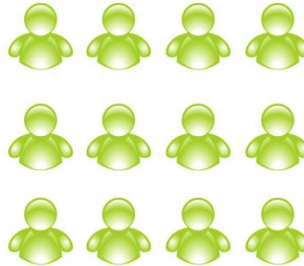
- Aligns with mission of regional comprehensive University - access, community engagement
- University participation in informal setting can support outreach, broader STEM participation
- Convening power & near peer mentors are powerful elements in this effort.

NEXT STEPS: Scalable, Sustainable Program Model

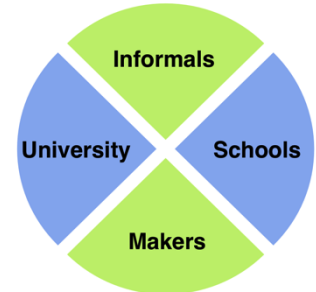
Pilot Afterschool Program



STEM Ambassadors & CSL Facilitators



Community of Practice



CSU The California State University



Regional Afterschool Program

