

Summary of CCST Activities

- ✧ S&T Policy Fellows begin work
- ✧ Personalized Healthcare initiative
- ✧ California's Energy Future report
- ✧ Cal TAC Symposium
- ✧ Smart Meters report
- ✧ Innovation capacity assessment

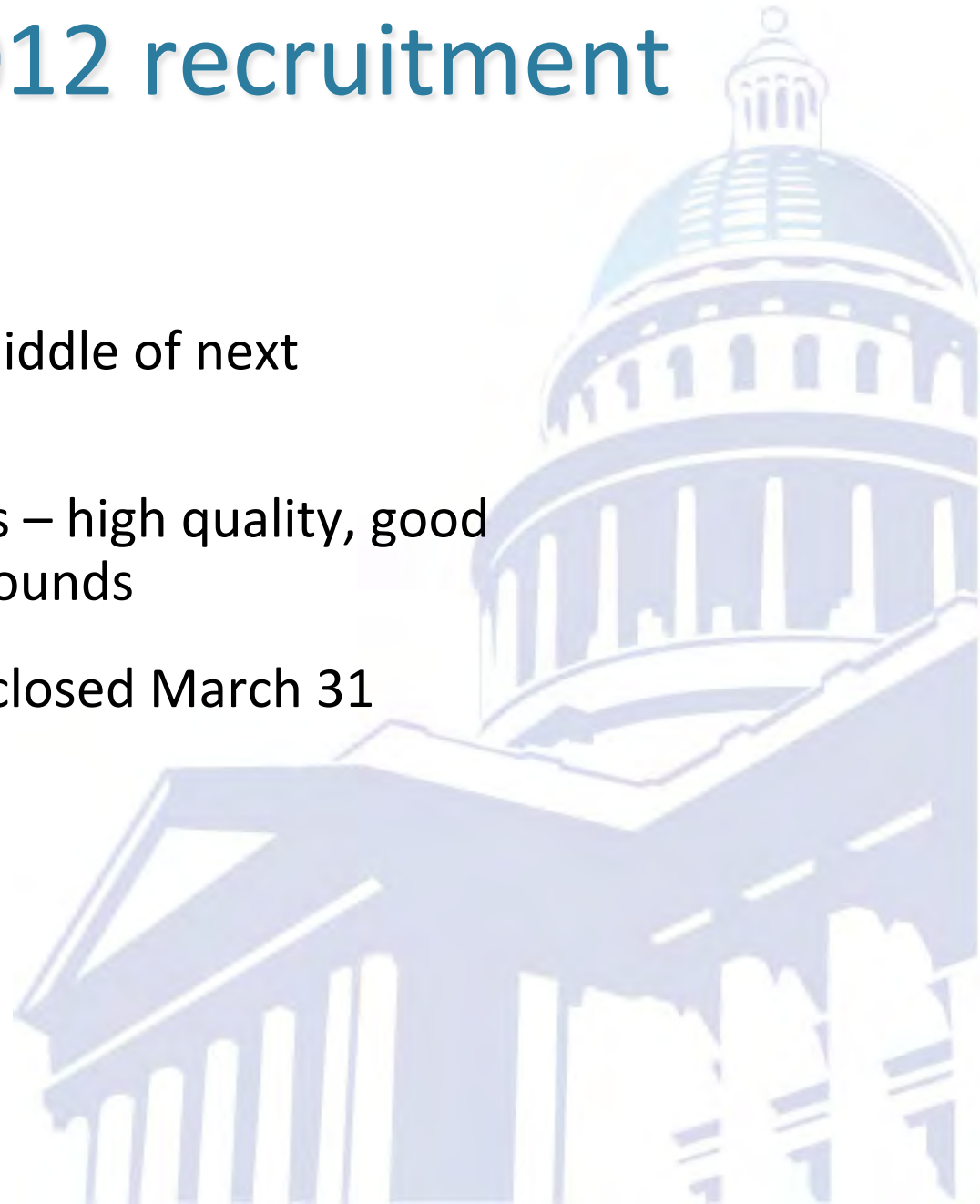
2010-11 FELLOWS

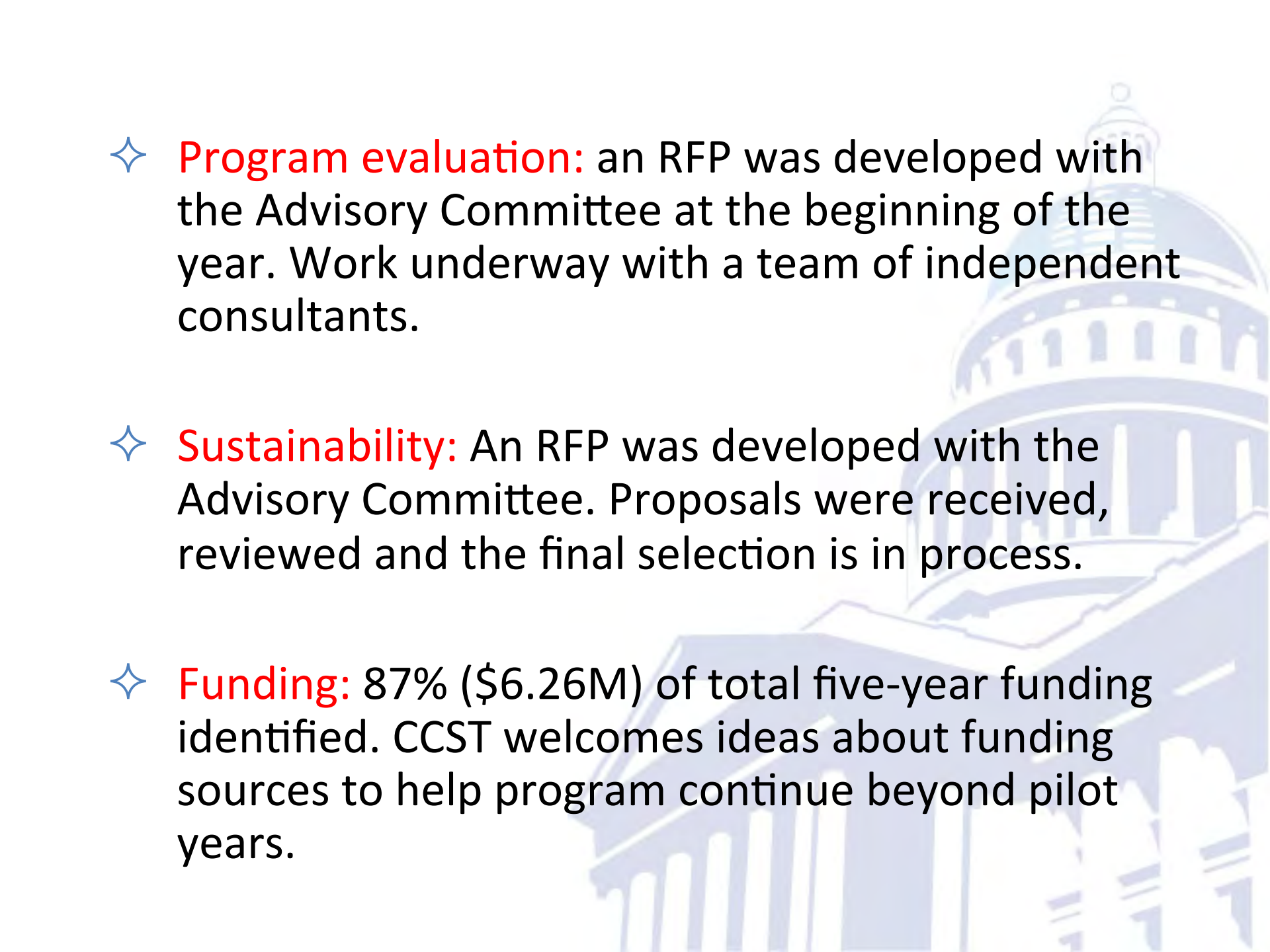


- ✧ Nine members of second class of Fellows placed in their legislative offices in December 2010
- ✧ One recruited by California Strawberry Commission in April 2011; one withdrew for personal/medical reasons
- ✧ Remaining 7 all doing a great job as reported by their mentors

2011-2012 recruitment

- ✧ Currently in the middle of next recruitment cycle
- ✧ 68 total applicants – high quality, good mixture of backgrounds
- ✧ Application cycle closed March 31



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- ✦ **Program evaluation:** an RFP was developed with the Advisory Committee at the beginning of the year. Work underway with a team of independent consultants.
 - ✦ **Sustainability:** An RFP was developed with the Advisory Committee. Proposals were received, reviewed and the final selection is in process.
 - ✦ **Funding:** 87% (\$6.26M) of total five-year funding identified. CCST welcomes ideas about funding sources to help program continue beyond pilot years.

Personalized Healthcare

- ✧ Task Force has completed the goal of designing a new model of an electronic health record system platform
- ✧ Report to be delivered to CalPERS by May 31
- ✧ Also exploring a partnership with Cancer Commons
- ✧ Ontology panel completing structure of ontology supporting the electronic health record system from a clinical perspective
- ✧ Proposal submitted to UC Breast Cancer Research Program to fund Phase II of study; award notification in June



California's Energy Future - The View to 2050

Summary Report

California Council on Science and Technology
May 2011



✧ What California must do in order to meet its aggressive 2050 target of reducing greenhouse gases to 80% below 1990 level



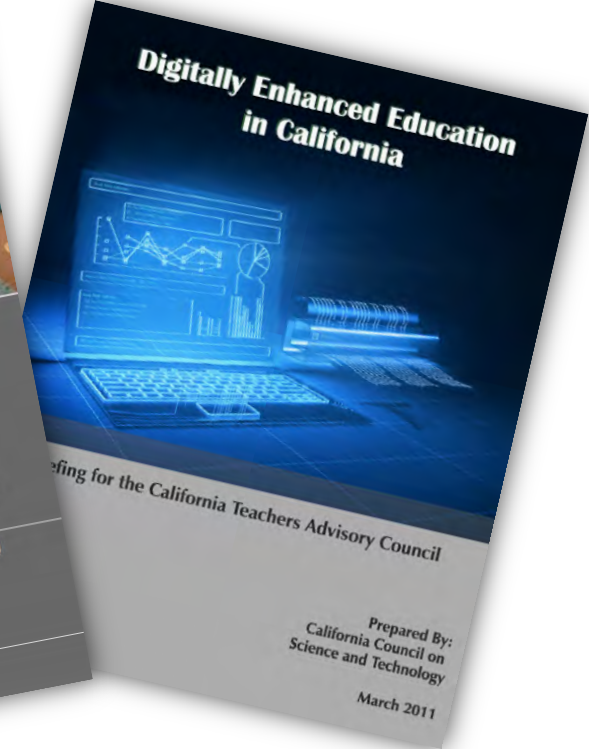
✧ How far can we go with existing technology? What is the technology gap between this and meeting the 2050 target? How can the gap be filled?



✧ It is technically possible to reach the stretch goal of 80% below 1990 levels, but will require concerted policy effort and focused technology innovations.



✧ In particular, the last 20% of emission reductions will require significant technology advances.



- March 25th summit, "Imagining the Future: Digitally Enhanced Education in California", featured current and innovative projects from Cogswell College, HP, Intel, MIND Research Institute, and Minarets HS
- Work informing the Education Action Team working on the Innovate to Innovation report to the State Legislature



Anne Marie Bergen

- ✦ **Anne Marie Bergen** received 2010 Presidential Award for Excellence in Mathematics and Science Teaching
- ✦ **Peg Cagle** named Albert Einstein Distinguished Educator Fellow at DOE
- ✦ **Caleb Cheung** was one of five winners of STEMposium's video contest to celebrate STEM education
- ✦ **Diana Herrington** was named the 2011 State Science Fair Teacher of the Year



- Assembly Members Huffman and Monning requested that CCST assist in determining if there are health safety issues regarding the new SmartMeters being installed by utilities
- Report released on January 11th
- CCST posted reviewed report on website and accepted comments through a web-based form through January 31
- 110 comments received, varying widely in detail
- Nearly 4 out of 5 comments categorically opposed to wireless smart meters



smart meter project

- ✦ Release of report generated significant press coverage, including a reference to the report in the NY Times
- ✦ Press coverage continues to this day
- ✦ Project Team reviewed all public comments received in detail and determined which warranted edits to the report
- ✦ Revised version posted on March 31, to provide additional clarification, along with access to all public comments received



Assessing California's Preparedness to Maintain its Standing as a Leading Innovator

- ✧ CCST received request from 13 members of California Legislature asking CCST to conduct a comprehensive assessment of California's "science and technology innovation ecosystem", recommending actions that should be taken to sustain the state's role as a global leader in science and technology
- ✧ Co-chaired by Charles Kennel and Julie Meier Wright

Recommendations for Phase II



Create an Innovation Action Team to:

BUILD AN INNOVATION ROADMAP

- California Innovation Initiative
- Communities of Innovation

IMPROVE CRITICAL INNOVATION INFRASTRUCTURE

- California Education Innovation Consortium
- Science and Technology Based Water Road Map

i2i Teams

Innovation Action Team

- ✧ Randy Hall, USC (Lead)
- ✧ Bill Miller, Stanford University
- ✧ Bob Sullivan, UCSD
- ✧ Sam Traina, UC Merced
- ✧ Steve Zornetzer, NASA Ames Research Center

Education Action Team

- ✧ Dede Alpert, Former State Senator
- ✧ Ann Marie Bergan, Cal Poly, San Luis Obispo (Co-lead)
- ✧ Mo Qayoumi, CSU, East Bay (Co-lead)
- ✧ Steve Rockwood, SAIC

Water Action Team:

- ✧ Jude Laspa, Bechtel Group, Inc. (Lead)
- ✧ Soroosh Sorooshian, UC Irvine
- ✧ Bob Wilkinson, University of California Santa Barbara
- ✧ David Zoldoske, CSU Fresno

Recommendations from Phase II

California Innovation Action Board

Charged to oversee the development of a comprehensive California Innovation strategy and track its implementation.

California Education Innovation Consortium

To promote digitally enhanced K-16 education comprised of stakeholders from K-16 education, business, government, NGOs, and others to promote digitally enhanced K-16 education.

Water Innovation Road Map

Task CCST to develop a California Water Future (CWF) Innovation Road Map - a 10/25/50-year plan that identifies where science and technology plays an important role and covers a range of future scenarios from surplus to drought.

Risk, Uncertainty, and Trust in Scientific Data and Analyses and what it means for Public Policy



- ✧ Last year, CCST embarked on an exploration of the erosion of public trust in science and ways to address both real and perceived lapses in scientific accountability
- ✧ Two summary documents posted which reflect discussions from October meeting
- ✧ Living with risk always an issue: events in Japan & ensuing discussions on nuclear safety, devastating weather in mid-west, our own experiences with smart meters,
- ✧ How science is used in the policy decision-making process