



# COUNTY OF SAN DIEGO

## BOARD OF SUPERVISORS

1600 PACIFIC HIGHWAY, ROOM 335, SAN DIEGO, CALIFORNIA 92101-2470

### AGENDA ITEM

COUNTY OF SAN DIEGO  
2014 APR 10 AM 9 43  
CLERK OF THE BOARD  
OF SUPERVISORS

**DATE:** April 15, 2014  
**TO:** Board of Supervisors  
**SUBJECT:** SUPPORT FOR EXPANDING THE USE OF DATA ANALYTICS TO CONSERVE RESOURCES

#### SUMMARY:

##### Overview

Public agencies and private companies are harnessing the power of data analytics to reduce energy and water consumption at their facilities. On the campus of UCSD, a “smart grid” system delivers energy to facilities from various renewable sources, including photovoltaic panels, fuel cells and generators powered by the gases from a sewage treatment plant.

A UC San Diego researcher, Dr. Natasha Balac, Director of the Predictive Analytics Center of Excellence at the San Diego Supercomputer Center, is determined to expand smart grid technology into San Diego’s metropolitan area and beyond.

In an application to the National Science Foundation, Dr. Balac is requesting federal support for a study that calls for collaboration among researchers, urban planners and policy-makers in the region. She has proposed forming a consortium that includes officials from UCSD, CleanTECH San Diego and SDG&E Co. to spearhead a regional effort to save energy throughout business, governmental and educational facilities.

##### Recommendation(s)

##### **SUPERVISOR DAVE ROBERTS AND SUPERVISOR RON ROBERTS**

1. Direct the Chief Administrative Officer to prepare a letter for the Chairwoman’s signature expressing the County of San Diego’s support for UCSD’s grant application to the National Science Foundation.

##### Fiscal Impact

N/A.

**SUBJECT:** SUPPORT FOR EXPANDING THE USE OF DATA ANALYTICS TO CONSERVE RESOURCES

**Business Impact Statement**

N/A

**Advisory Board Statement**

N/A

**BACKGROUND:**

Public agencies and private companies are harnessing the power of data analytics to reduce energy and water consumption at their facilities. On the campus of UCSD, a “smart grid” system delivers energy to facilities from various renewable sources, including photovoltaic panels, fuel cells and generators powered by the gases from a sewage treatment plant.

A UC San Diego researcher, Dr. Natasha Balac, Director of the Predictive Analytics Center of Excellence at the San Diego Supercomputer Center, is determined to expand smart grid technology into San Diego’s metropolitan area and beyond.

In an application to the National Science Foundation, Dr. Balac is requesting federal support for a study that calls for collaboration among researchers, urban planners and policy-makers. For her research project – Globalizing Urban Sustainability Science – Dr. Balac has proposed forming a consortium that includes officials from UCSD, CleanTECH San Diego and SDG&E Co.

These groups, and others, were well-represented earlier this month at a meeting at the County Operations Center, where our agenda focused on Analytical Real Time Monitoring Systems. The meeting served as a follow-up to related conferences Supervisor Dave Roberts attended recently in Seattle and San Francisco.

Executives from the San Diego County Water Authority attended the meeting at the COC to learn how real-time monitoring systems could improve efficiencies and save money for their agency. Also present were officials from the San Diego Housing Commission, Sempra Utilities, CleanTECH San Diego, Dealy Development, OSISOFT, Microsoft, Qualcomm, Downtown San Diego Partnership, the Port of San Diego and City of San Diego.

Representatives from these groups agree that by working together – and by employing real-time data analytics – government agencies, private companies and individuals can reduce their energy needs.

Accordingly, we are asking for you to join us in support of UCSD’s grant application to the National Science Foundation.

Respectfully submitted,



DAVE ROBERTS  
Supervisor, Third District



RON ROBERTS  
Supervisor, Fourth District

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**AGENDA ITEM INFORMATION SHEET**

**CONCURRENCE(S)**

<b>COUNTY COUNSEL REVIEW</b>	<input checked="" type="checkbox"/> Yes	
Written Disclosure per County Charter Section 1000.1 Required	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
<b>GROUP/AGENCY FINANCE DIRECTOR</b>	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> N/A
<b>CHIEF FINANCIAL OFFICER</b>	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> N/A
Requires Four Votes	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
<b>GROUP/AGENCY INFORMATION TECHNOLOGY DIRECTOR</b>	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> N/A
<b>COUNTY TECHNOLOGY OFFICE</b>	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> N/A
<b>DEPARTMENT OF HUMAN RESOURCES</b>	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> N/A

**Other Concurrence(s):** N/A

**ORIGINATING DEPARTMENT:** Districts 3 and District 4

**CONTACT PERSON(S):**

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**AUTHORIZED REPRESENTATIVE:** \_\_\_\_\_

**SUBJECT:** SUPPORT FOR EXPANDING THE USE OF DATA ANALYTICS TO  
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**AGENDA ITEM INFORMATION SHEET**  
(continued)

**PREVIOUS RELEVANT BOARD ACTIONS:**

N/A

**BOARD POLICIES APPLICABLE:**

N/A

**BOARD POLICY STATEMENTS:**

N/A

**ORACLE AWARD NUMBER(S) AND CONTRACT AND/OR REQUISITION  
NUMBER(S):**

N/A