

Natural Infrastructure 101

California Adaptation Forum
Alex Leumer,
September 7, 2016



Natural Climate Solutions

Reducing
Emissions

Restoring
Carbon



Responding
to Impacts

Multiple Benefit Strategies to Combat Climate Change

Natural Infrastructure in Policy



October 7, 2015

M-16-01

MEMORANDUM FOR EXECUTIVE DEPARTMENTS AND AGENCIES

FROM: Shaun Donovan, Director
Office of Management and Budget
Christina Goldfuss, Managing Director
Council on Environmental Quality
John Holdren, Director
Office of Science and Technology Policy

SUBJECT: Incorporating Ecosystem Services into Federal Decision Making

the WHITE HOUSE PRESIDENT BARACK OBAMA

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Incorporating Natural Infrastructure and Ecosystem Services in Federal Decision-Making

OCTOBER 7, 2015 AT 2:30 PM ET BY TAMARA DICKINSON, TIMOTHY MALE, ALI ZAIDI



Summary: Today, the Administration released a new memorandum directing Federal agencies to factor the value of ecosystem services into Federal planning and decision-making.

Our natural world provides critical contributions that support and protect our communities and economy. For instance, Louisiana's coastal wetlands provide [billions of dollars worth of flood protection](#) and other benefits. [Preserving and restoring forests](#) in the Catskill Mountains enables New York City to access clean water at a cost several times less than the cost of building a new water-filtration plant. And [current efforts to plant trees](#) along Oregon's salmon-rich rivers will improve local water quality - saving costs associated with installing expensive machinery to achieve the same purpose.

Natural Resources Agency
Safeguarding California:
Reducing Climate Risk
An update to the 2009 California Climate Adaptation Strategy

Assembly Bill No. 1482

CHAPTER 603

An act to amend Section 75125 of, and to add Part 3.7 (commencing with Section 71150) to Division 34 of, the Public Resources Code, relating to climate change.

by Governor October 8, 2015. Filed with Secretary of State October 8, 2015.]

LEGISLATIVE COUNSEL'S DIGEST

climate adaptation. the Natural Resources Agency, comprised of services, and commissions responsible for the management of the state's natural and cultural

the Strategic Growth Council in state government certain duties, including providing, funding, and nation to local governments and regional agencies option and planning of sustainable communities. the agency, by July 1, 2017, and every 3 years state's climate adaptation strategy, as provided. e agency, by January 1, 2017, and every 3 years ift climate adaptation strategy, as provided. The ncies to maximize specified objectives, including, he use of the climate adaptation strategy to inform ure that state investments consider climate change mote the use of natural systems and natural when developing physical infrastructure to address

and the duties of the council to include identifying ies and funding programs of all state agencies, agencies that are members of the council, to objectives, including, among others, meeting the e adaptation strategy.

f California do enact as follows:

islature finds and declares all of the following: is changing, posing an escalated threat to public he economy, and public and private property in frequency of extreme weather events, including es, rising sea levels, and changes in hydrology,

1 y 2014

“Natural Infrastructure”

Natural infrastructure is the preservation and/or restoration of ecological systems, or utilization of engineered systems that use ecological processes, to increase resiliency to climate change and/or manage other environmental problems. This may include, but is not limited to, floodplain and wetland restoration or preservation, combining levees with restored ecological systems to reduce flood risk, and urban trees to mitigate high heat days. (SB 379)