stainable Marine Facility Developm Initiatives

Richard Vincent

Environmental Program Manager

PORT OF PORTLAND

Possibility. In every direction.

esentation Overview

rt of Portland is in a leadership role in industry wide
vironmental and sustainability initiatives concerning mari
minal development

tiative descriptions

ext Steps

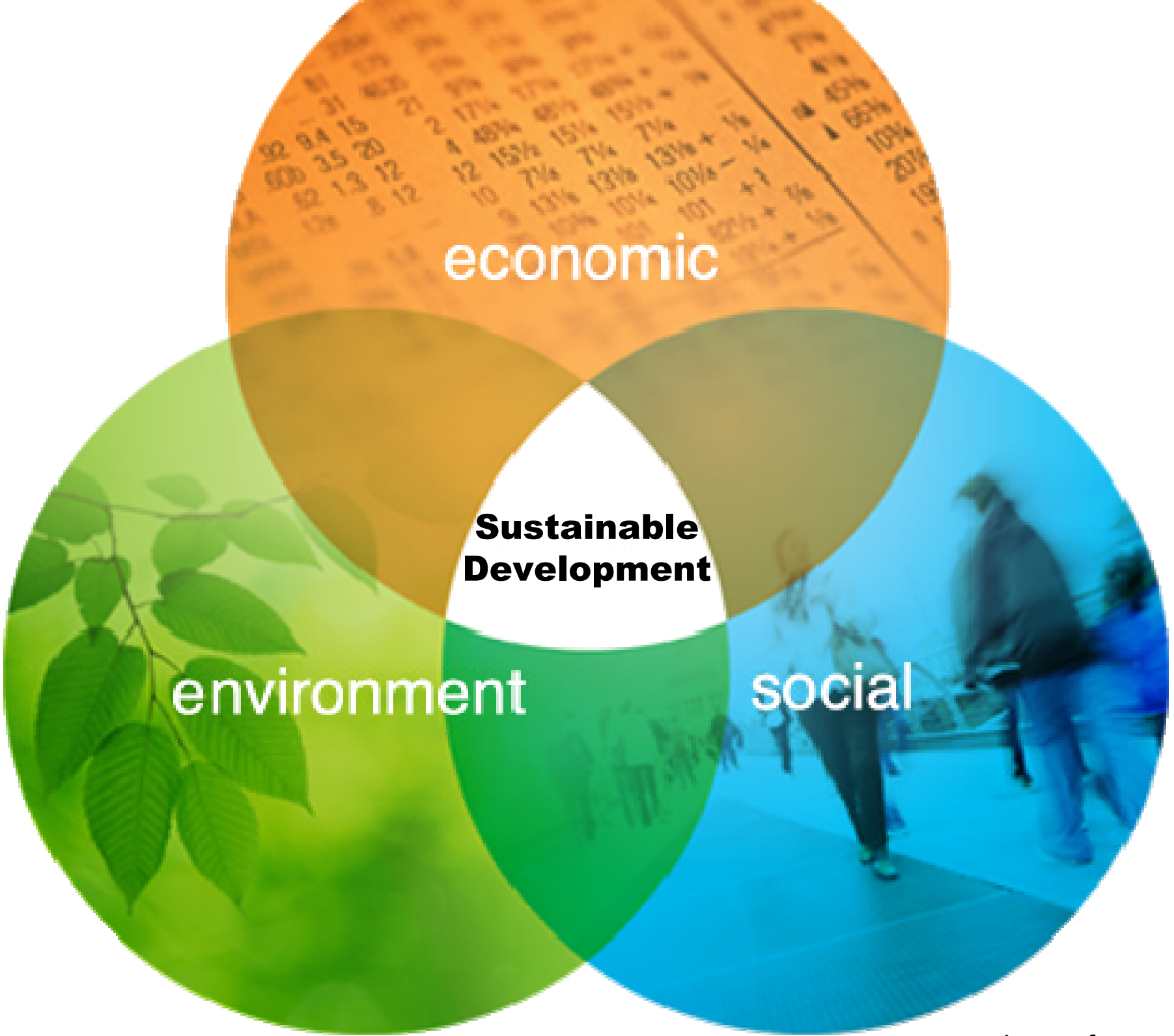
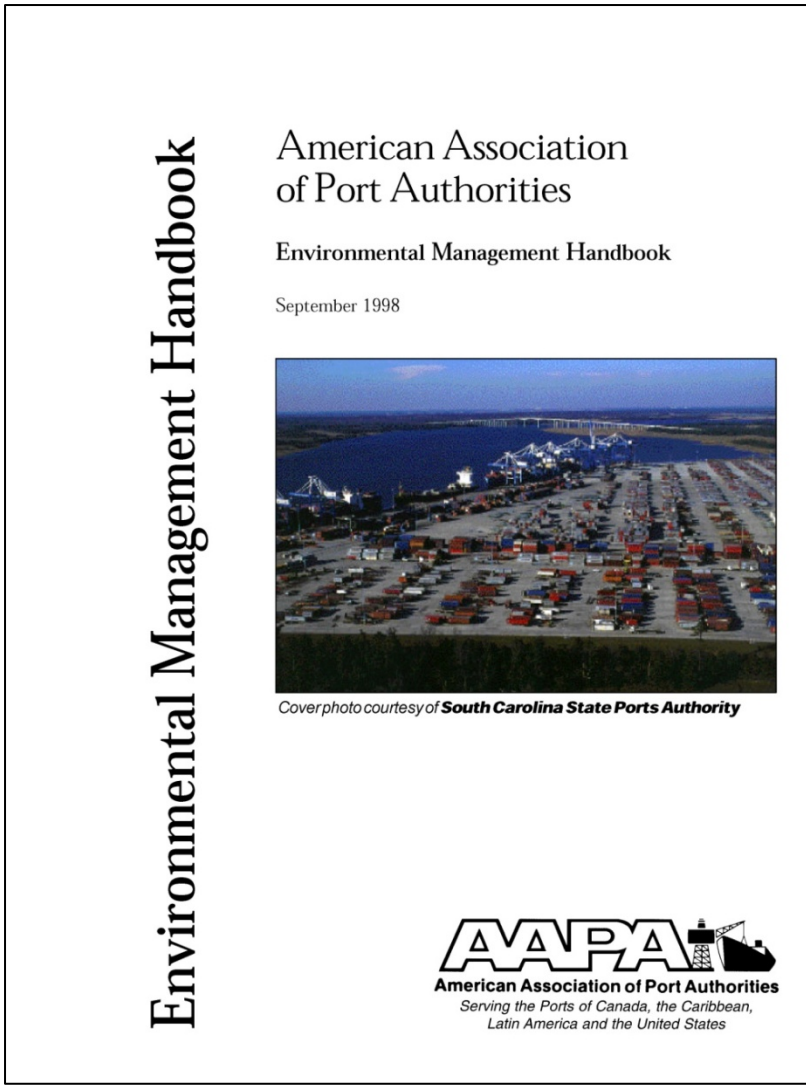


image from www.m

Port of Portland participation in marine development environmental initiatives

PA Environmental
Management Handbook
vironmental Initiatives at
Sea Ports Worldwide
White Paper
nt West Coast Port
Technical Committee



I2S2 International Institute of Sustainable Seaports

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AAPA American Association of Port Au
Alliance of the Ports of Canada, the Caribbean, Latin America a

White Paper

earch Objective

provide stakeholders (internal and external) with a greate
areness and understanding of how seaports are managi
ural resources, adopting new operating methods and
nning for sustainability

provide readers with a better understanding of the
ographic, community, financial and regulatory context tha
to the implementation decisions

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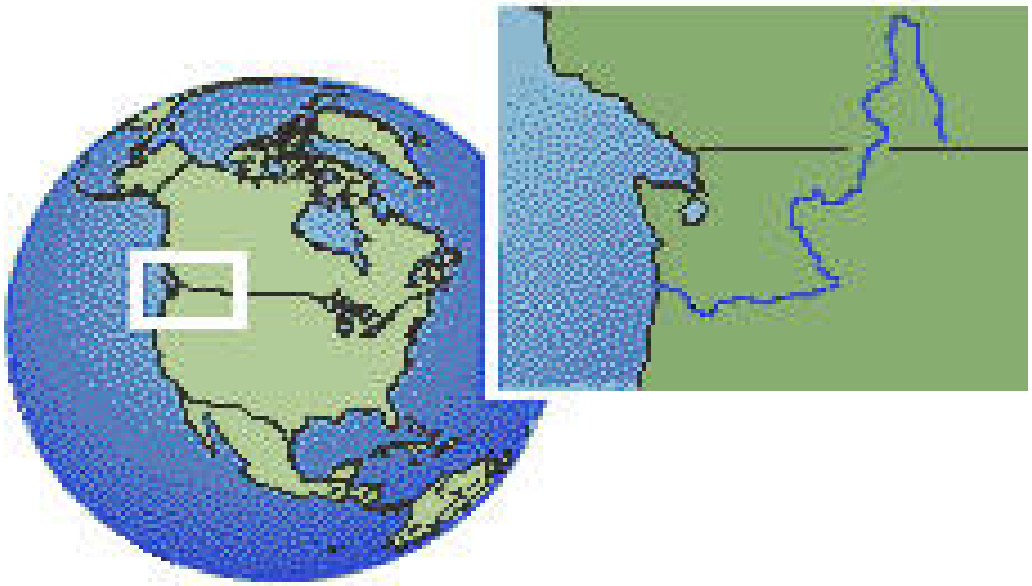
I2S2
International Institute
Sustainable Seaports

White Paper

ginal paper research was completed in Summer/Fall 200

vided a snapshot of BMPs utilized at the time

search included Interviews with North American and ernational port representatives based on a prepared estionnaire and an extensive literature search



White Paper

search Highlights

Air Quality
Water Resources
Recycling
Energy Conservation and
Renewable Energy
Natural Resources Management
Sustainability
Dredging
Climate Change

White Paper

Quality

- place equipment with
  aner more efficient models
- power equipment
- rofit current equipment with
  ssion control devices
- uel equipment with cleaner
  ning fuels
- duce emissions through
  erational changes

White Paper

Quality

re Power

ere it works

cruise industry

arbor craft

ame vessel repeat port calls

llenges

tandard for connections

arying power demands for
ifferent types of ships

xpensive infrastructure

White Paper

Power for
oor Vessels

ership between
f Portland and
er Transportation
any

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HAVER

White Paper

r Quality

water management:

ioswales, infiltration basins

ow impact development

ervious pavement

ervation

andscape irrigation

/ater use restrictions

uilding fixture replacement with more efficient devices

est Management Practices

- Port of Brisbane (efficient fittings, education, usage of n potable water)

ous pavement – Terminal 6

White Paper

re Findings

ach port is different and has individual priority issues

ypes of business lines demand different approaches

xploiting opportunities during new development or development projects provides efficiencies that produce oth environmental and economic benefits

nt West Coast
rt Technical
mmittee

Seattle

PORT of TACOMA U.S.A.

Port of Vancouver USA

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ORT
GELES

Port of LONG BEACH
The Green Port

Unified Port of San Diego

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ocus on Sustainable Design & Construction Guidelines fo
arine facility development

- Address increased growth and expansion at ports
- Consider impacts on surrounding communities
- Need to achieve maximum social, environmental and economic benefits of projects while minimizing impacts the environment and communities
- There is currently no other comprehensive guidance available for sustainable marine terminal development

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jectives:

efine sustainable marine industrial development at the oject level;

uild upon the sharing of best practices, keys to success, a ssons learned for implementation;

ovide a consistent approach to sustainable maritime dustrial development across the enterprise;

stablish a common language that is understood by interna nd external port stakeholders

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ogress to date and path forward

eview/enhance best practices/sustainable criteria for eac
cus area

eview/enhance project specific best practices/sustainable
teria

evelop “operational controls” for Guideline implementatio

lot use of Guidelines for several member port projects

efine, update and publish

ojected Release Date - January 2013

tinued participation in West st Technical Committee

ticipate in pilot tests of tainable Design & struction Guidelines

nplete update to ironmental Initiatives white er;

ptive management of elopment and operational Ps through integration with Port's Environmental nagement System (EMS)