VIEWS AND INITIATIVES ON GREENER PORTS AND SUSTAINABILITY

Christopher Wooldridge
Science Coordinator, EcoPorts/EcoSLC

&

Hon. Research Fellow, Cardiff University, UK
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Definition</strong></td>
<td></td>
<td></td>
<td>Conservation + Protection + Ecosystems + Habitats</td>
<td>Protection of Environment</td>
<td>Global and local</td>
<td>Sustainability and Climate Change</td>
</tr>
<tr>
<td><strong>Awareness</strong></td>
<td>Generally low</td>
<td></td>
<td>Increasing</td>
<td>Compliance</td>
<td>CSR</td>
<td></td>
</tr>
<tr>
<td><strong>Scope</strong></td>
<td></td>
<td></td>
<td>Quayside</td>
<td>Port area</td>
<td>Port:City</td>
<td>Chain</td>
</tr>
<tr>
<td><strong>Response</strong></td>
<td>Slow</td>
<td>Reactive</td>
<td>Sea Empress EcoPorts</td>
<td>ISO 14001 EMAS PERS</td>
<td>Pro-active</td>
<td></td>
</tr>
<tr>
<td><strong>Legislation</strong></td>
<td>Health &amp; Safety</td>
<td>Specific provisions</td>
<td>EU Habitats ESPO Code (guidelines)</td>
<td>Increasing European and International</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Practice</strong></td>
<td>Non-existent or ad hoc</td>
<td>Minimum</td>
<td>Compliance-plus</td>
<td>Compliance</td>
<td>Commercial excellence</td>
<td></td>
</tr>
</tbody>
</table>
A Green Port practices......

✓ Compliance - plus
✓ Protection
✓ Cost & risk reduction
✓ Sustainable development
✓ Monitoring & reporting
✓ Continuous improvement
✓ Stakeholder expectations
✓ Evidence & EMS Standard
✓ Exemplify - good practice
✓ Enable – infrastructure
✓ Encourage – incentives
✓ Engage – knowledge
✓ Enforce – mechanisms
✓ Change & Challenges
✓ Links: Port – City – Chain
✓ Networked collaboration

....and aims for Sustainable Development and SMART
ESPO, AAPA, World Bank, European Investment Bank, and European Bank for Reconstruction & Development, United Nations Environment Programme, African Ports Association, Arab Sea Ports Federation and Taiwan Ports International Corporation
Priority issues: Small ports

- Air quality*
- Garbage/ Port waste
- Noise*
- Local community*
- Energy Consumption*
- Ship waste
- Water quality
- Dust*
- Land development
- Water development

✓ Ports & shipping
✓ Test-beds for technology
✓ SMART/green technologies
✓ Climate change
✓ Collaboration
✓ Socio-Economic
✓ Ports and stakeholders
✓ Transport options
✓ Pilot projects
✓ Training and capacity building

Business, Innovation, Environment
## Developing and Operating a Green Port

### PROBLEMS AND CHALLENGES

<table>
<thead>
<tr>
<th>RANK</th>
<th>ISSUE</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Finance</td>
<td>79</td>
</tr>
<tr>
<td>2</td>
<td>Multitude of Agencies</td>
<td>66</td>
</tr>
<tr>
<td>3</td>
<td>Legislation</td>
<td>64</td>
</tr>
<tr>
<td>4</td>
<td>EMS and Human Resources*</td>
<td>62</td>
</tr>
<tr>
<td>5</td>
<td>Political influence</td>
<td>57</td>
</tr>
<tr>
<td>6</td>
<td>Resistance to change</td>
<td>40</td>
</tr>
<tr>
<td>7</td>
<td>Shipping implications</td>
<td>38</td>
</tr>
<tr>
<td>8</td>
<td>Business case*</td>
<td>36</td>
</tr>
<tr>
<td>9</td>
<td>Leadership*</td>
<td>32</td>
</tr>
<tr>
<td>10</td>
<td>Stakeholder expectations</td>
<td>30</td>
</tr>
<tr>
<td>11</td>
<td>Priority issues</td>
<td>28</td>
</tr>
<tr>
<td>12</td>
<td>Own port characteristics</td>
<td>23</td>
</tr>
</tbody>
</table>
Finance

X Lack of funds
X Who is going to pay?
X Investment policies – short term
X Expansion/Capacity versus Efficiency and Productivity
X Financial Institutions? – where are they?
Legislation

X Confusing and complex
X Liability, Responsibility, Influence?
X Scope – adequacy – enforcement
X Boundaries
X “Not a level playing-field”*
X Barrier to new business/investment
X Does not discriminate
Some views of port professionals:

- “CEOs should live next to the port/factory”
- “We have always done it like this”
- “We have got climate change fatigue”
- “They think about risks and threats – not opportunities”
- “Too many men in charge – put more women on Board – they are more environmentally aware”
PORT: “A town or city with a harbour or access to navigable water where ships load or unload”
Why are island communities doing this?

www.communityenergyscotland.org.uk

Resource

• Wind (Wave, Tide, Solar)

Skill shortage

• Under employment

Revenue

Financial incentives

Community will

Depopulation

Fuel Poverty

• Heating
• Transport

Resilience

Money

• Independent Community Controlled Fund
• Local Community Development Plans
• Pump priming

Enabling

• Competence/Confidence
• Self Determination
Future objectives and options

1) **Small-Port** sector – chain - retain influence*
2) Sustainable initiatives*
3) Collaboration - avoid ‘re-inventing the wheel’
4) Education and Training (two-way)
5) Practicable outreach*
   a) Port-based community workshops
   b) **Conference Workshop***
   c) Technology-in-Context
   d) **AEGEA-INSPIRED R&D PROGRAM** OF Collaboration*
6) Strategic Plan and coordinated database
7) Streamlined funding pathways
8) Clarity on fees and competition
2. Port of Lagos

Stakeholder roundtable 7/09/2012

SuPort Final Conference, Rouen, France
CONFERENCE PROFILE
(Networks – stakeholders)

- Companies
  - IT
  - Renewables
  - Designs

- Port Authority
- NGOs
- Private
- Academia
- Embassy
- Municipalities
- Ministries
- Regional
- Tourism
- Journalism
- Shipping

27%
12%
16%
12%
9%
7%
2%
4% Finance
4% Journalist

18% CEO/Director President
12% Engineer
8% Student
8% Advisor
22% Manager
6% Academic
14% Ministry/Council/Officer

DELEGATE PROFILE
- Knowledge
- Skills
- Experience
Workshop Objectives

SMART Roadmap
(Specific Measurable Achievable Realistic Timebound)

Assist Small and Island Ports to:
bridge the gap between policy - and practice

1) Retain local influence
2) Enhance collaboration
3) Implement effective EMS
4) Demonstrate improvement
5) Assist Sustainable Development
6) Deal with priority Aspects*
Roadmap components

- Priority issues
- Scope for collaboration
- Existing networks/organisations
- Framework for cooperation
- Demonstration projects
- Delivery route for training and exchange of experience
ΖΗΤΩ Η ΕΛΛΑΔΑ!

Σας ευχαριστώ για την προσοχή σας