

VIEWS AND INITIATIVES ON GREENER PORTS AND SUSTAINABILITY

Christopher Wooldridge
Science Coordinator, EcoPorts/EcoSLC
&
Hon. Research Fellow, Cardiff
University, UK

Port Environmental Management

	1960s	1970s	1980s	1990s	2000s	2010+
Definition		Conservation	+ Protection + Ecosystems + Habitats	Protection of Environment	Global and local	Sustainability and Climate Change
Awareness	Generally low	—————→	Increasing	Compliance	CSR —————→	
Scope		Quayside —————→		Port area	Port:City	Chain
Response	Slow	Reactive —————→		<i>Sea Empress</i> EcoPorts	ISO 14001 EMAS PERS	Pro-active
Legislation	Health & Safety		Specific provisions	EU Habitats ESPO Code (guidelines)	Increasing European and International	
Practice	Non-existent or <i>ad hoc</i>	Minimum —————→		Compliance	Compliance-plus	Commercial excellence

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

ECO PORTS NETWORK





- ✓ 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

**G
R
E
E
N**

**E
N
E
R
G
Y**

1. Air quality*

2. Garbage/ Port waste

3. Noise*

4. Local community*

5. Energy Consumption*

6. Ship waste

7. Water quality

8. Dust*

9. Land development

10. Water development

Business, Innovation, Environment

Developing and Operating a Green Port

PROBLEMS AND CHALLENGES

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

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*)**

 **Revenue**

 **Financial incentives**

 **Community will**

 **Depopulation**

 **Fuel Poverty**

- Heating
- Transport

 **Skill shortage**

 **Under employment**

 **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

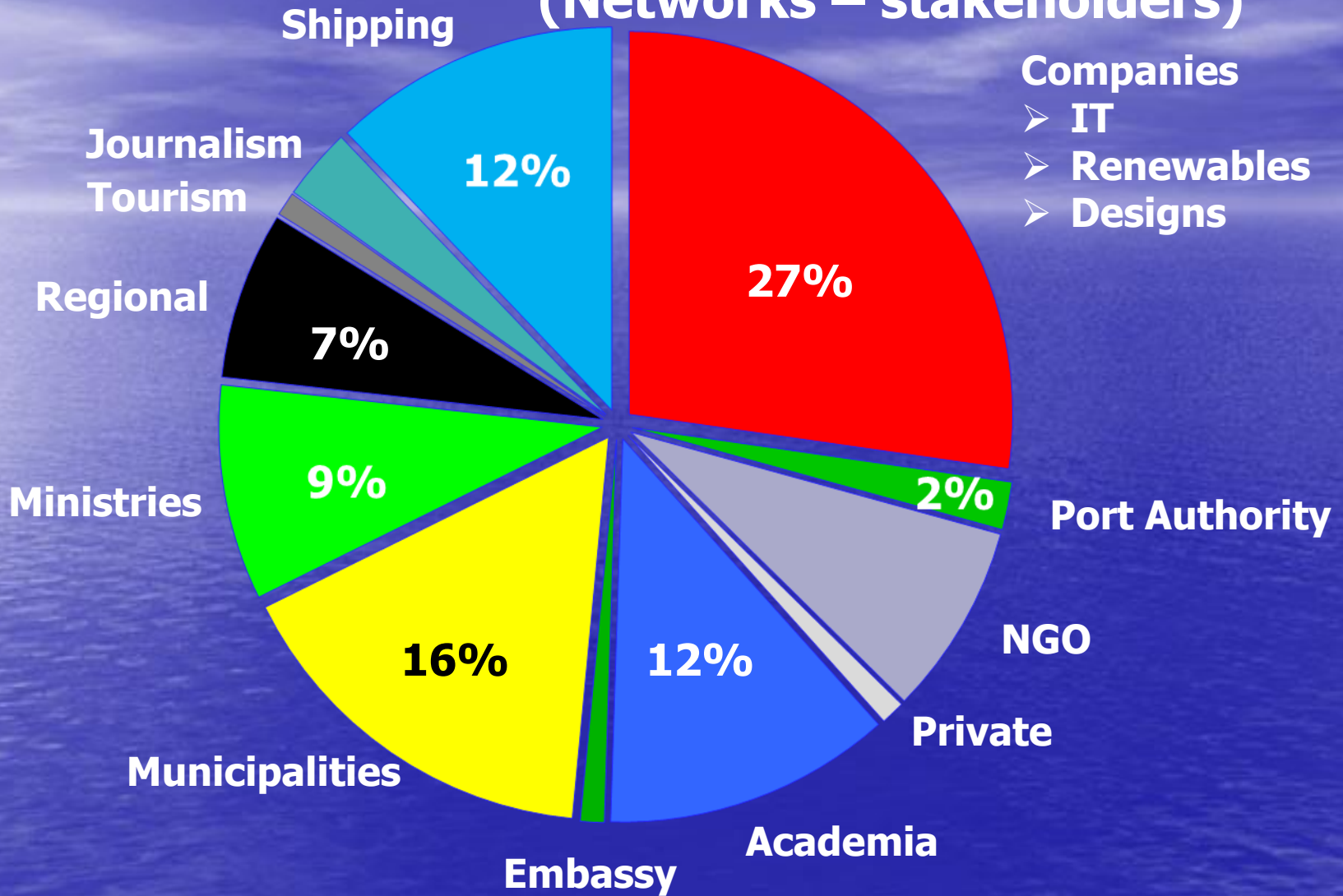
Stakeholder roundtable 7/09/2012



SuPort Final Conference, Rouen, France



CONFERENCE PROFILE (Networks – stakeholders)



4% Finance

4% Journalist

14%
Ministry/
Council/
Officer

6%
Academic

22%
Manager

8%
Advisor

8%
Student

12%
Engineer

18%
CEO/Director
President

P
O
R
T

DELEGATE PROFILE

- Knowledge
- Skills
- Experience

■ CEO

■ Engineer

■ Student

■ Consultant

■ Manager

■ Academic

■ Ministry

■ Journalism

■ Finance

■ Port



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**



**Σας ευχαριστώ
για την
προσοχή σας**

ΖΗΤΩ Η ΕΛΛΑΔΑ!