Área Científica de Sistemas Urbanos e Regionais

Master in Engineering and Management of Innovation and Entrepreneurship Master in Environmental Engineering

Avaliação Ambiental Estratégica / Strategic Environmental Assessment

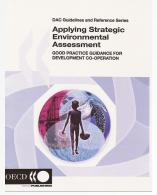
SEA in decision-making Differences between policy, planning and programme International models in SEA

Prof. Doutora Maria do Rosário Partidário

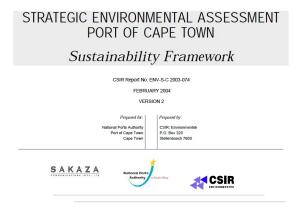


Bibliography











Differences between policy-making, planning and project scale: scale, focus, detail



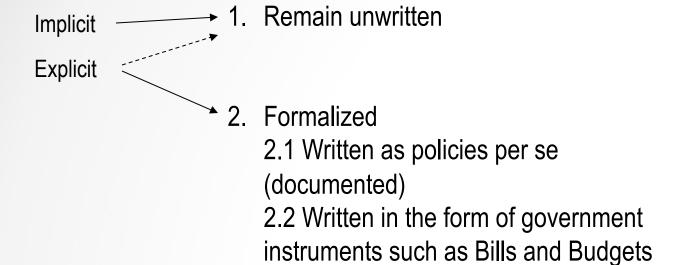
What are the PPP and P?

LEVELS OF DECISION-MAKING IN IMPACT ASSESSMENT

Policy	Road-map with defined objectives, set priorities, rules and mechanisms to implement the objectives – a statement of intent to direct actions
Planning	Priorities, options and measures for resource allocation according to resource suitability and availability, following relevant sectoral and global policies
Programme	Organized agenda with specification of activities and programmes investments, in the framework of relevant policies and plans
Project	Detailed proposal, scheme or design of any development action or activity, involves construction works and implements policy/ planning objectives



Type of policies





What is planning?

To make development objectives and strategies explicit into strategic actions; and/or

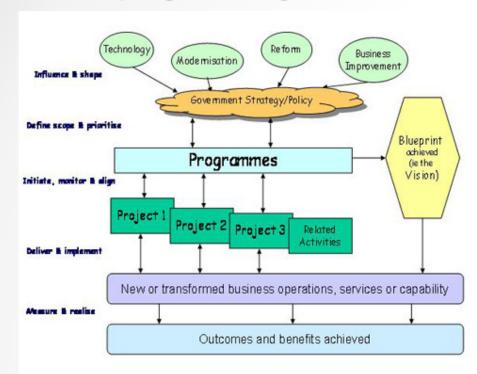
To allocate resources to activities and determine the use of different areas; and/or

To establish rules for development and zoning regulations; and/or

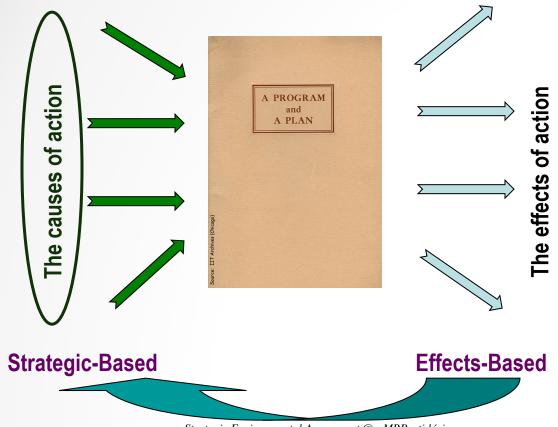
To set up an action programme



What is programming?









How can SEA be used?



1.The territorial area for action is known but not the proposals / sectoral intentions





Strategic Environmental A

2. Proposals / sectoral intentions are known but not the territorial area for action

-Energy policy

-Wind power programme

Energy
Policy Goals
Secure energy
supply

Reduce
environmental
burden of energy supply and use

-Waste rehabilitation, reutilization and recycling programme

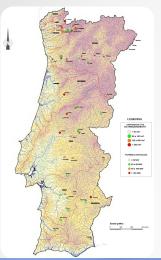
-Etc.





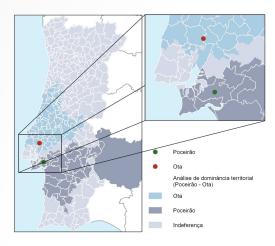
3. The territorial area for action and the proposals / sectoral intentions

are known



Decision on the strategic location of new airport in Lisbon

National hydropower development programme





Investment strategy at Parque Alqueva, Alentejo Strategic Environmental and Social Assessment of Oil and Gas Development in Mauritania



4. Sectoral policy is known but it does not have territorial materialization

- -Health policy (eg. who gets vaccinated for COVID'19)
- -Education policy (e.g. senior education, free education,...)
- -Emigration Policy (e.g who is accepted and in what conditions)
- -etc.



What can trigger an SEA?

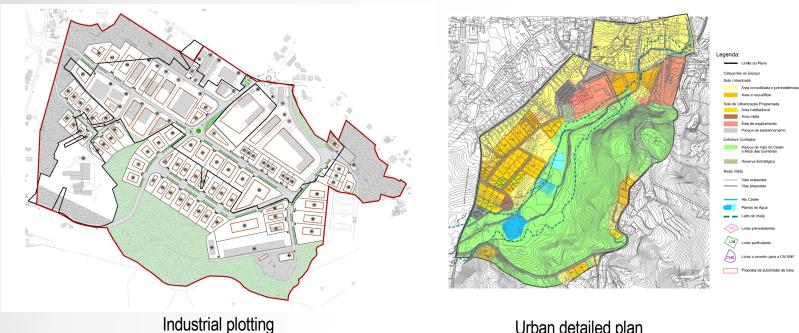
A PPP with or without a strategy (often because it is required by law) (see OECD-DAC entry points)

A strategy (poverty reduction strategy)

A problem that requires a strategy (accelerated loss of given resources, equity problems, etc.)



What can not be an SEA is when there are no strategic options





International systems of SEA



International systems on SEA





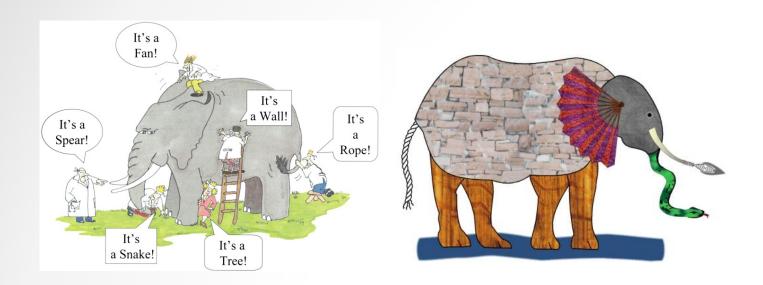
SEA - From "big EIA" to strategic thinking





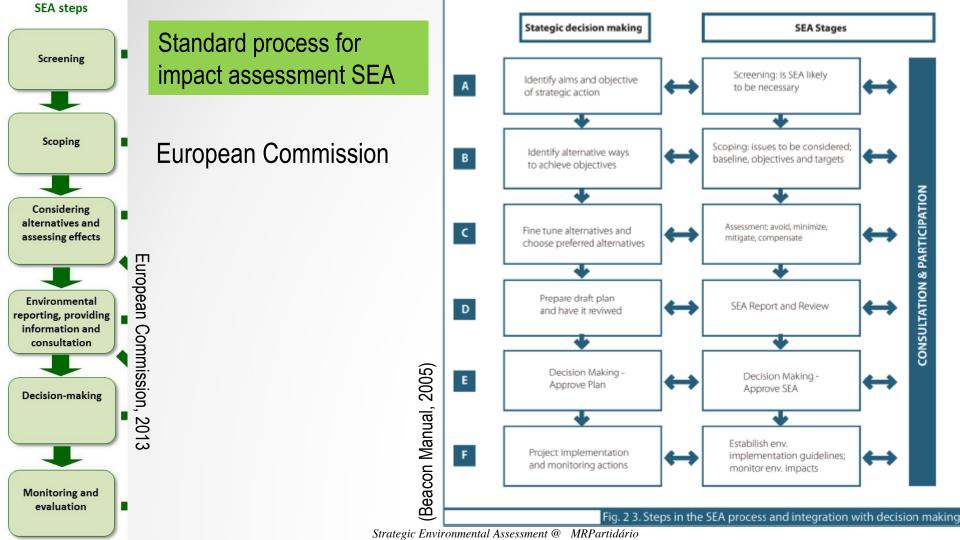
Different interpretations of SEA

How the world see SEA



The elephant metaphor of reality





The Netherlands Commission on Environmental Assessment (NCEA) describe differently the same steps for EIA and SEA

	SEA	EIA
Screening	Mostly decided case by case	Projects requiring EA are often listed
Scoping	Combination of political agenda, stakeholder discussion and expert judgement	Combination of local issues and technical checklists
Public participation	Focus on representative bodies	Often include general public
Assessment	More qualitative (expert judgement)	More quantitative
Quality review	Both quality of information and stakeholder process	Focus on quality of information
Decision making	Comparison of alternatives against policy objectives	Comparison against norms and standards
Monitoring	Focus on plan implementation	Focus on measuring actual impacts

Ifi

Initial Dutch impact assessment model for SEA

Phases in SEA (OECD-DAC, 2006) Establishing the context for SEA

Establish the SEA

context

2.

3.

Screening

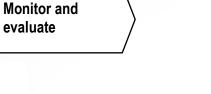
Implement the

SEA

- Setting objectives Identifying stakeholders
- Implementing the SEA
 - Scoping (in dialogue with stakeholders)
- Collecting baseline data
 - Identifying alternatives
 - impacts
- Quality assurance
- Reporting
- Informing decision making

How to enhance opportunities and mitigate negative

- Make recommendations (in dialogue with stakeholders)





OECD-DAC, 2006

http://www.seataskteam.net/gui dance.php)

mostly technical

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Inform, influence,

recommendations/

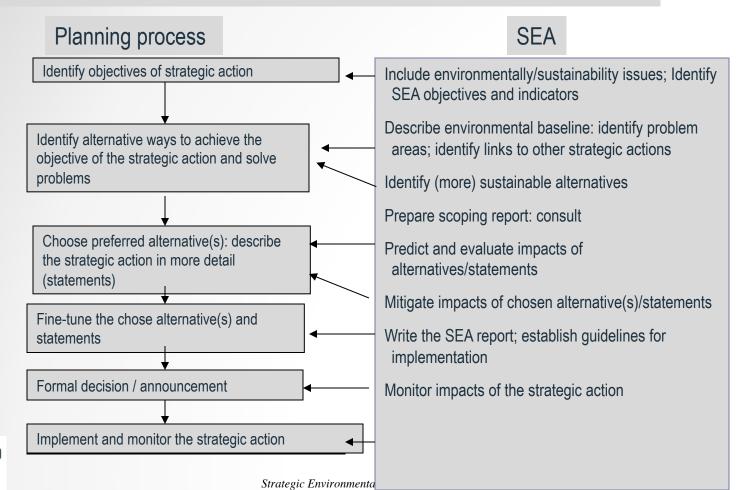
and make

Phases in SEA (OECD-DAC, 2006)

Screening N Screening N Screening Scoping C Scoping C Scoping C Signature B Scoping C Assessment N Jiu Quality review B Signature Decision making Monitoring 1. Establishing the context for SEA Screening Screening Setting objectives Identifying stakeholders Scoping (in dialogue with stakeholders) Collecting baseline data Scoping (in dialogue with stakeholders) Collecting baseline data Identifying alternatives Scoping (in dialogue with stakeholders) Scoping (in dialogue with stakeholders) Collecting baseline data Scoping (in dialogue with stakeholders) Screening Scoping Sco				,	
Screening No Setting objectives Identifying stakeholders Implementing the SEA e Scoping (in dialogue with stakeholders) Public Public Participation For Scoping (in dialogue with stakeholders) Collecting baseline data Identifying alternatives How to enhance opportunities and mitigate negative impacts Collecting baseline data Identifying alternatives Collecting baseline data Reporting alternatives Implementing decision making Make recommendations (in dialogue with stakeholders)		S	1.	Establishing the context for SEA	•
Scoping C Identifying stakeholders Implementing the SEA E C Scoping (in dialogue with stakeholders) Collecting baseline data Identifying alternatives Identifying altern	Screening	H		Screening	-
Public F Collecting baseline data Identifying alternatives How to enhance opportunities and mitigate negative impacts Quality review B S Quality assurance Reporting Decision Making A Monitoring F Make recommendations (in dialogue with stakeholders)	Screening	IV		Setting objectives	
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Public participation - Collecting baseline data - Identifying alternatives - How to enhance opportunities and mitigate negative impacts - Quality review - Quality review - Reporting - Monitoring - Make recommendations (in dialogue with stakeholders)	, 6	S	2. Implementing the SEA		
 Identifying alternatives How to enhance opportunities and mitigate negative impacts Quality review Reporting Reporting Informing decision making Make recommendations (in dialogue with stakeholders) 		е		 Scoping (in dialogue with stakeholders) 	_
Assessment N ju Quality review B s Decision making Monitoring N ju How to enhance opportunities and mitigate negative impacts Quality assurance Reporting Informing decision making Make recommendations (in dialogue with stakeholders)	Public	F		Collecting baseline data	
Assessment N	participation			 Identifying alternatives 	
Quality review B S Reporting Informing decision making Monitoring • Quality assurance • Reporting Informing decision making • Make recommendations (in dialogue with stakeholders)	Assessment	١.		.,	-
Decision C a Informing decision making Monitoring F Reporting Informing decision making Make recommendations (in dialogue with stakeholders)	Ovelity review	1		 Quality assurance 	-
Decision C a Informing decision making Monitoring F	Quality review	1		 Reporting 	
making a Make recommendations (in dialogue with stakeholders) Monitoring F	Decision	-	. 3	Informing decision making	-
wontoring F		-		 Make recommendations (in dialogue with 	
	Monitoring	F		stakeholders)	-
				Monitoring and evaluation	



Riki Therivel suggested methodology for SEA in the UK (2004)



Generic SEA steps in Hong-Kong

- 1. Understanding the needs, nature and objectives of PPP
- 2. Design/select SEA process and methods
- 3. Initial screening and scoping
- 4. Baseline / background studies

INITIAL ASSESSMENT

- 5. Identify and examine strategic environmental issues and linkages
- 6. Identify and evaluate possible options, alternatives means and resulting environmental implications
- 7. Identify and evaluate preferred options

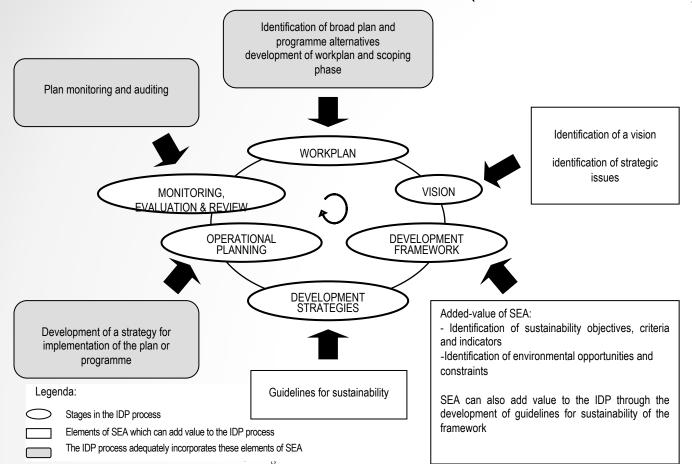
FINAL ASSESSMENT

8. Determine follow-up actions, monitoring requirements

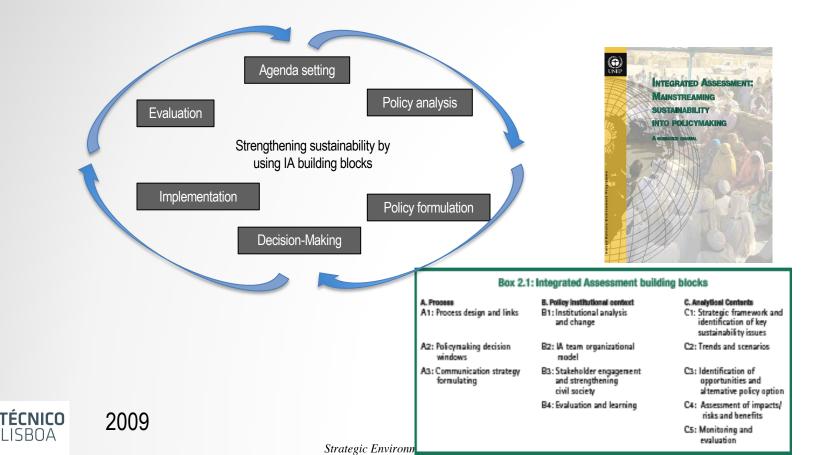


Continuous interaction with public and stakeholders

South Africa - Integrated Development Planning (IDP) Process and elements of SEA (DEAT-CSIR, 2000)



UNEP, 2009 (http://www.unep.ch/etb/publications/index.php)



UNEP (http://www.unep.ch/etb/publications/index.php)

Integrated Assessment: building blocks (UNEP, 2009) Components of an SEA

A. Process

A1: Process design and links

A2: Policymaking decision windows

A3: Communication strategy formulating

B. Policy Institutional Context

B1: Institutional analysis and change

B2: IA team organizational model

B3 Stakeholder engagement and strengthening civil society

B4: Evaluation and learning

C. Analytical contexts

C1: Strategic framework and identification of key sustainability issues

C2: Trends and scenarios

C3: Identification of opportunities and alternative policy options

C4: Assessment of impacts / risks and

benefits

C5: Monitoring and evaluation



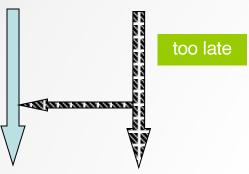
SEA in decision-making



Four models of linking SEA and decision-making

1. One opportunity model

Planning Process SEA Process



3. Integrated model

Planning Process + SEA Process

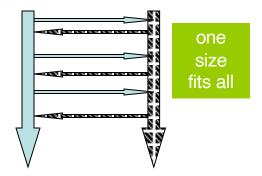
Which model enables more strategic thinking?



what does what?

2. Parallel model

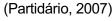
Planning Process SEA Process



4. Decision-centred model

Planning Process







How rational decision-making is made

Define the problem
Diagnose its causes
Design possible solutions
Decide which is best

And then Implement the choice



Three (complementary) models of decision-making



Thinking first: science, planning, programming, the verbal



Seeing first: art, visioning, imagining, the visual, ideas



Doing first: craft, venturing, learning, the visceral, experiences

Henry Mintzberg and Frances Westley, 2001



Discussion

The three models from Mintzberg and Westley 2001

What does it mean for SEA?







SEA of PORT of CAPE TOWN Sustainability Framework, 2004

SEA results from the need to ensure:

- Economic objectives of the Port
- Maximizing the benefits for the surrounding communities
- Minimizing the impacts on the biophysical environment



SEA of PORT of CAPE TOWN Sustainability Framework, 2004

Mechanisms used

- Port planning process
- Corporate social investment programme
- Environmental Management Systems
- Appropriate stakeholders engagement



SEA of PORT of CAPE TOWN Sustainability Framework, 2004

Mechanisms to promote appropriate stakeholders engagement:

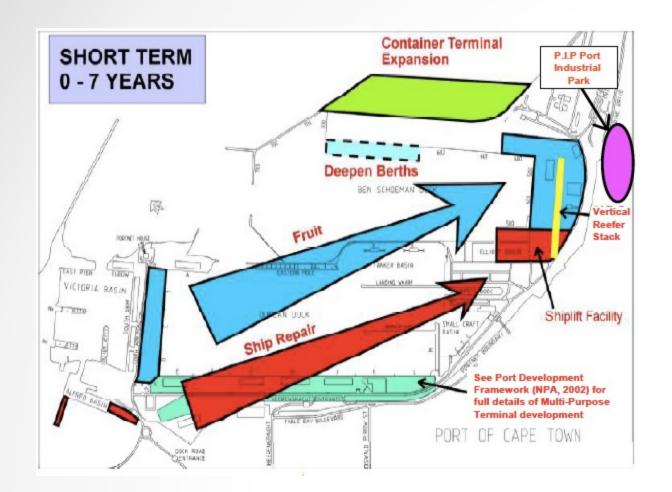
- Port Consultative Committee
- Port-City Forum (public authorities)
- Port-users Forum
- Port-stakeholders Forum (broader forum)



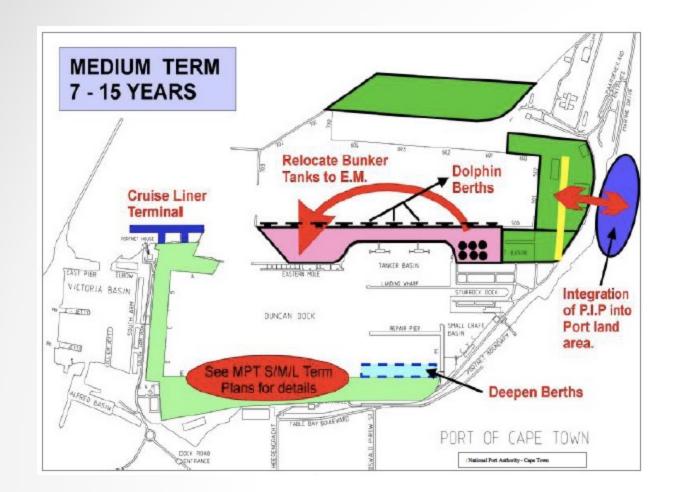
Methodology for SEA

- Defining a vision for the sustainable development of the port
- Defining SEA objectives and process
- Establishing an instituional approach and stakeholders envolvement
- Assessment
- Guidelines















SEA objectives - to improve:

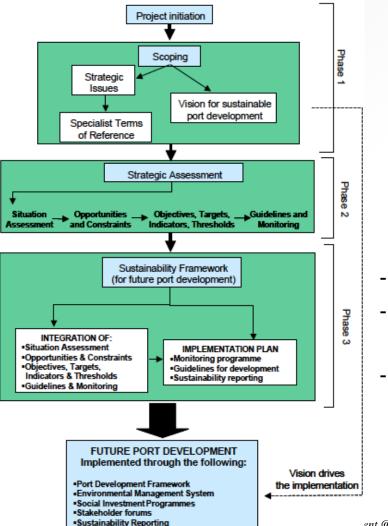
- 1. Port-city relationships and cooperative decision-making
- 2. Relationships between the port authority and stakeholders (including users, NGOs and local communities)
- Understand how the surrounding biophysical environment relates to and may impact on future port development and operation



SEA objectives - to improve:

- 4. Understanding of how the livelihood and quality of life of local communities surrounding the port may be influenced by and impact on future port development and operation
- Understanding of how relevant local, provincial, national and regional economic and other policies and plans will influence the future port development
- 6. Improve the collection of economic, social and biophysical environmental data within the port sphere of influence, so that this information can be proactively used for environmental management, port planning and triple bottom line reporting.





SEA Process

- Phase 1: Scoping
- Phase 2: Strategic Assessment (specialist studies)
- Phase 3: Sustainability framework



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Strategic issues - Scope of SEA

- Marine ecology
- Marine archaeology
- Shoreline stability
- Port accessibility
- Port-city land-use planning
- Socio-economics / Corporate and Social Responsibility
- Economic Impact of the Port



Structure of analysis of strategic issues:

- Issue statement
- SEA objectives
- State of environment and trends
- Objectives, targets and indicators
- Oportunities and constraints for future port sustainable development
- Guidelines for sustainable port development and operation



5. MANAGEMENT FRAMEWORK FOR SUSTAINABLE PORT DEVELOPMENT

Strategic issues are defined as issues, that if not addressed, will prevent the port from achieving its vision for sustainable port development as presented in Section 2.3. In developing a management framework for the strategic issues, each issue has been broadly discussed under the following headings:

Issue statement: Why the issue has been identified as a strategic issue.

SEA Objectives: Which SEA objectives, as presented in Chapter 2, are met by addressing the specific strategic issue.

State of Environment: The existing state of the environment and the trends in this regard that may be obvious. This allows for the identification of sustainability objectives, targets and indicators.

Objectives, targets and indicators: Sustainability objectives, targets and indicators to direct future port planning and development.

Monitoring the indicators will assist with tracking the port's progress towards sustainable development. Monitored data can also assist decision-makers in identifying the consequences of earlier

decisions, assisting them with continual improvement of future decisions.

Opportunities and constraints: Opportunities for and constraints to future port development and operation that fall within the bounds of the identified objectives and targets.

Guidelines for future port development and planning: Guidelines for port planners, environmental managers, human resource managers and others to exploit opportunities and overcome constraints, thereby achieving the objectives and targets and facilitating sustainable port development. The guidelines may include specific guidelines and/or monitoring guidelines.

To ensure effective implementation, each guideline is identified with a specific department within the National Ports Authority's management structure. Some of the guidelines, however, relate to both the port and the City of Cape Town, and effective management therefore requires close collaboration between and joint decision-making by both parties. The implementation framework for recommended guidelines and monitoring programmes is contained in Chapter 6.

The information contained in this Chapter is primarily sourced from the specialist studies as shown in Table 2.1, Section 2.2.2.



Sustainability Framework

- guidelines prepared for:
- Research / baseline studies
- Considerations for port planning
- Considerations for port operations and management
- Monitoring
- Stakeholders engagement
- Sustainability reporting and data collection, storage, analysis and presentation



Lessons learned

+

Excellent example of private use of SEA for a major project strategic discussion SEA was extremely iterative throughout the process Excellent example of stakeholders involvement Focus on 7 main relevant integrated themes that structure the assessment Provides guidelines for planning, management and monitoring, with strong implementation mechanisms

Does not include options discussion in a formal way, even though people involved say it was informally addressed

Does not look much into the wider context in the long-term – what will the expansion of the port mean for the region?

Not much on public policy discussion either, particularly in the long-term, missing a governance dimension

