

Environmental Management Systems (EMS) Framework for Sustainable Environmental Management

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Durban, South Africa



- 2297 km² (1.4% KZN)
- Pop. 3 million (35% KZN)
- Budget/annum R12.3 billion/\$US2 billion (05/06)
- GVA 66.3% KZN/ 9.9%SA
- Open Space 63 115 ha valued at approx R3.1 billion/\$US 0.5 billion/annum
- 4 of SA's 8 biomes
- 97 km coast line
- 4000 km of rivers



Institutional Structure

- Sustainable development vested as a function in the coordinating Geographic Information and Policy Unit.
- Role of Environmental Management Department: Specific sectoral focus on natural resource planning and management.

- Has eThekweni Municipality developed a management system and policy instruments to successfully mainstream environmental sustainability?




- How do we measure success?
- Through the capacity of the natural resource base to supply environmental goods and services to the Municipality over time in Rands billions/year

Policy as Soft Law

- EMS institutionally transformative instrument  strategy and action

EG.

- Environmental servitudes now registered in favour Municipality as condition of dev approval  protecting environmental qualities of site in perpetuity (registered against the title deeds of property)

National Legislation for Local EMS

- Municipal Systems Act 32 of 2000 calls for IDPs, recognising link between environment, development and poverty.
- IDP umbrella Policy for Municipalities in guiding policy review, monitoring, objective setting and implementation
- Following slide shows feedback loops b/w environmental policy instruments and the IDP

ANALYSIS

EMS Feasibility Study
Situation Analysis.

IDP: Analysis
LA21: Community -based Issue Analysis
ISO: Initial Environmental Review

VISION

Long Term Development Framework
Environmental Management Policy

LA21: Community Vision
ISO: Policy

**SUSTAINABILITY
AUDIT AND
STRATEGIC REVIEW**

SOE Report
Internal Sustainability Report

STRATEGIC PLANNING

Integrated Development Plan
Sustainability Indicators

IDP: Strategies

*5 YEAR
CYCLE*

REVIEW

LA21: Evaluation & Feedback
ISO: Management Review

MONITORING

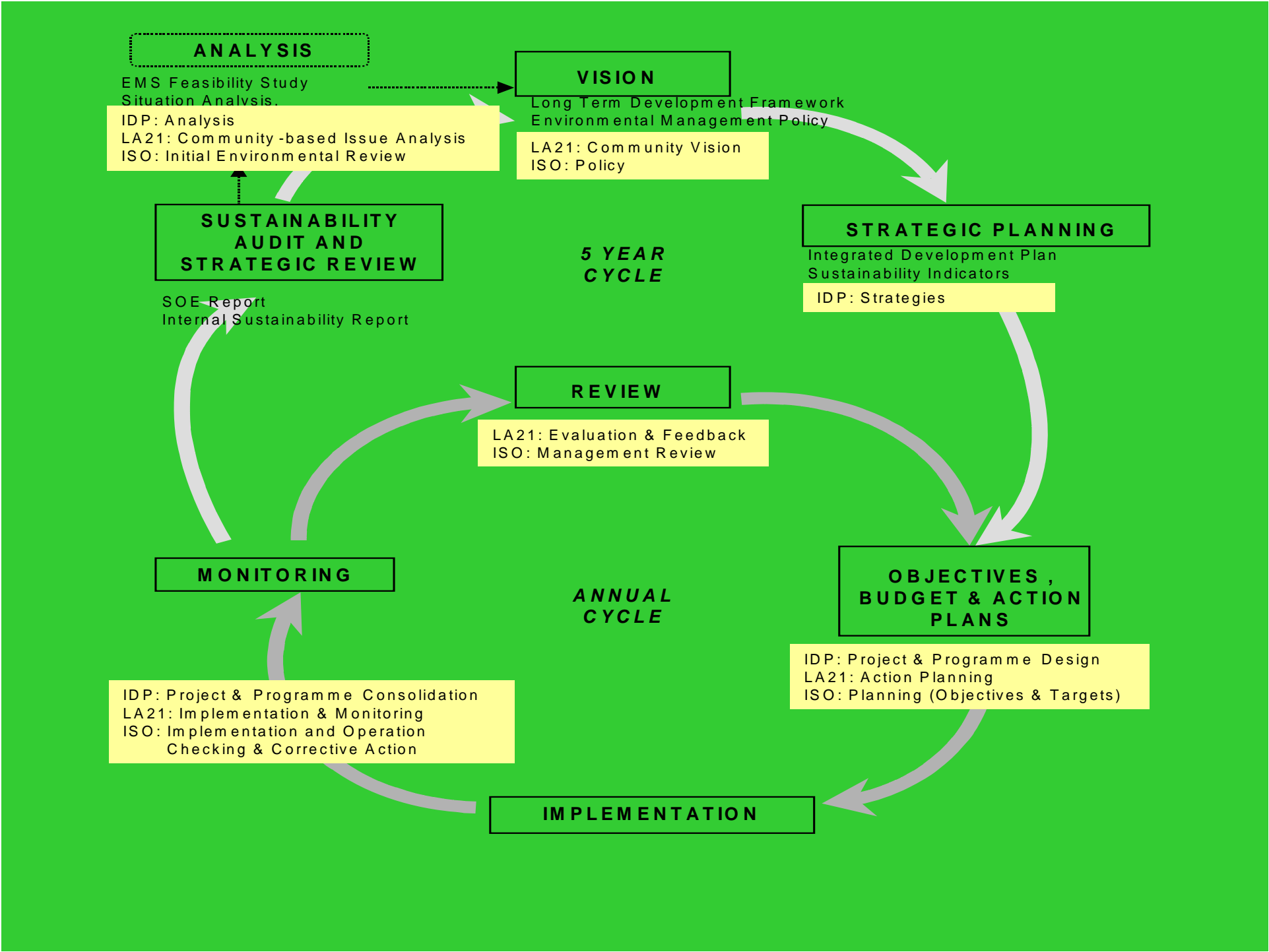
IDP: Project & Programme Consolidation
LA21: Implementation & Monitoring
ISO: Implementation and Operation
Checking & Corrective Action

**OBJECTIVES ,
BUDGET & ACTION
PLANS**

IDP: Project & Programme Design
LA21: Action Planning
ISO: Planning (Objectives & Targets)

*ANNUAL
CYCLE*

IMPLEMENTATION



1998 Environmental Policy Amendment

- Amendment to reflect legislative and institutional change since 1998
- The Municipality's Environmental Management Policy will be reviewed every decade and effect will be given to this policy through sector strategies

Environmental Monitoring

State of Environment Reporting

- 5 year cycle/ annual Headline Indicators
- Overarching instrument to identify key areas for sector strategy development, ecological focus

River Health Monitoring

- Sector intervention to monitor fresh, estuarine and marine health aquatic health as per results of SOER

Best Practice Reporting

- Yearly review of best practice projects undertaken by the Municipality that demonstrate continual improvement towards broad sustainability principles

Environmental Policy Objectives+Implementation+ Review

- IDP Strategy + Vision integrated into policy objectives and implementation strategy of the Environmental Management Department through budget alignment and quarterly audits
- Working Groups (int + ext) provide institutional and community by in, feedback + review of Environmental and IDP Policy
- Links in policy process ensure reflexive relationship from sectoral projects to strategies to objectives to Policy to the IDP and back down again

IN THEORY

Example in Practice 1: Climate Protection

Climate Protection key Municipal IDP Policy



CO₂ rise review of international trends
+ local monitoring Greenhouse Gas
Inventory 2002-2004 (ICLEI CCP)



Climatic Futures Project: determining
Impact of change on future planning in Durban



State of Energy Report
monitors Municipal Response
to Greenhouse Gas emission



Working Groups institutional and
community buy-in, feedback and
review Environmental and IDP
policy



Energy Strategy to develop objectives
pilot projects to implement these objectives

Example in Practice 2: Cities for Climate Protection (ICLEI)

- monitoring **Greenhouse Gas Inventory**
- objective setting **Plan of Action**
- implementation to transform policy **Buildings Energy Efficiency Project.**



- Have We Developed Policy and Management Instruments to Successfully Mainstream Sustainability?

Watch this Space

