



# NERT PMU Presentation

gobodo  
systems consulting

PROCESSES. SYSTEMS. INFORMATION.  
OPTIMISED

The logo for E.ON Consulting, featuring the word "eon" in a bold, lowercase sans-serif font with a blue swoosh above the "n", and the word "CONSULTING" in a smaller, uppercase sans-serif font below it.

eon  
CONSULTING

# Background to NERT

- The National Electricity Response Team (NERT), under the leadership of the Department of Minerals and Energy (DME) was set up to coordinate and facilitate all the implementation activities taking place as part of the response to the shortage of electricity supply
- The aim was to prevent load shedding and to put South Africa on a more sustainable path by ensuring permanent changes of all participants of the country with respect to a more efficient use of energy
- NERT is a technical committee established to provide technical solutions and recommendations to NSACE

# Drivers for NERT

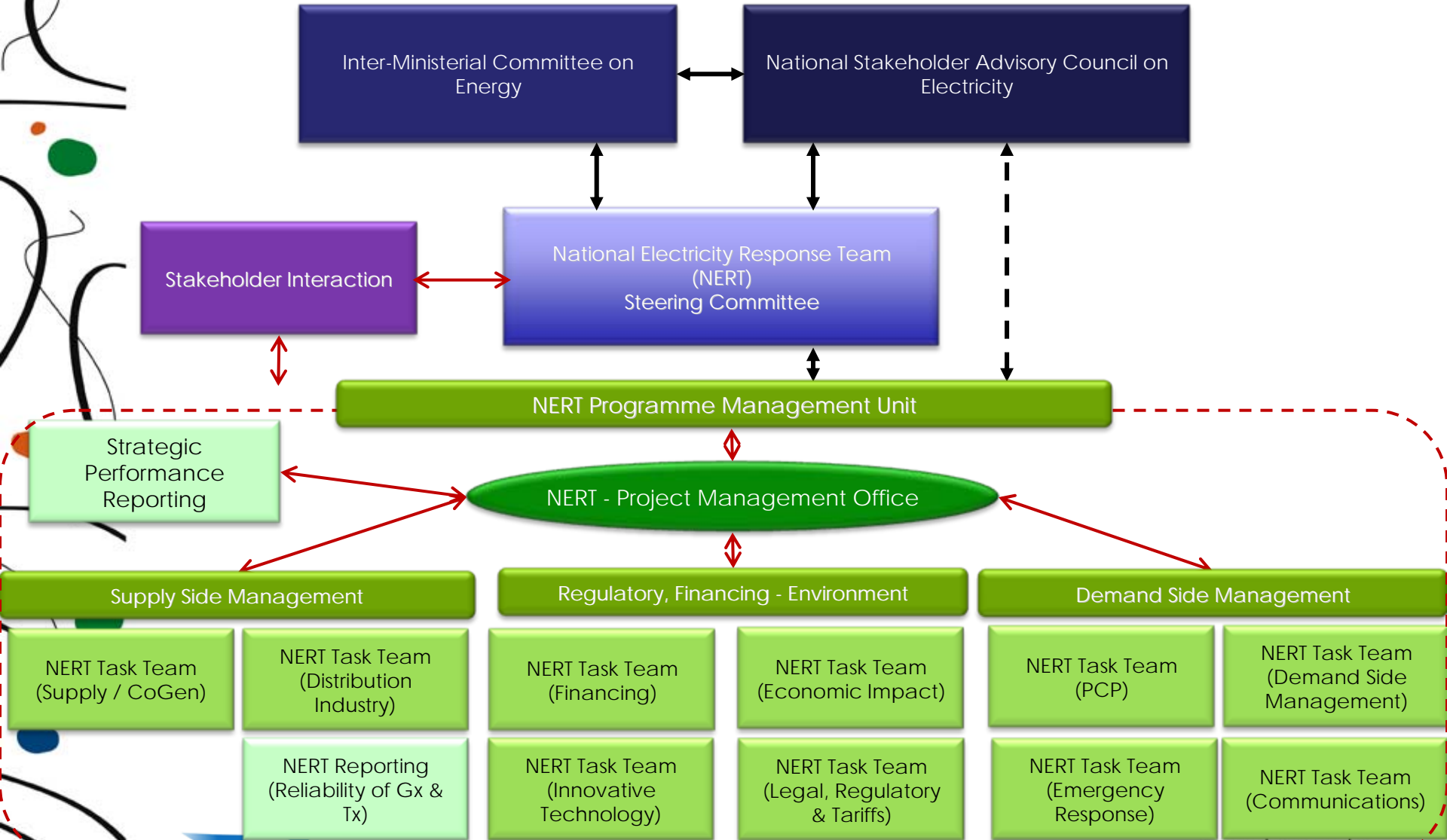
- Short and medium term
  - Readiness to address the emergency
  - Improving reserve margin
  - Ensuring optimal value for allocated funding
  - Create stakeholder awareness and ownership
  - Optimal alignment between stakeholder efforts
- Long term
  - Optimal energy consumption culture and reduce energy intensity of country
  - Ensuring sufficient supply capacity to support economic growth



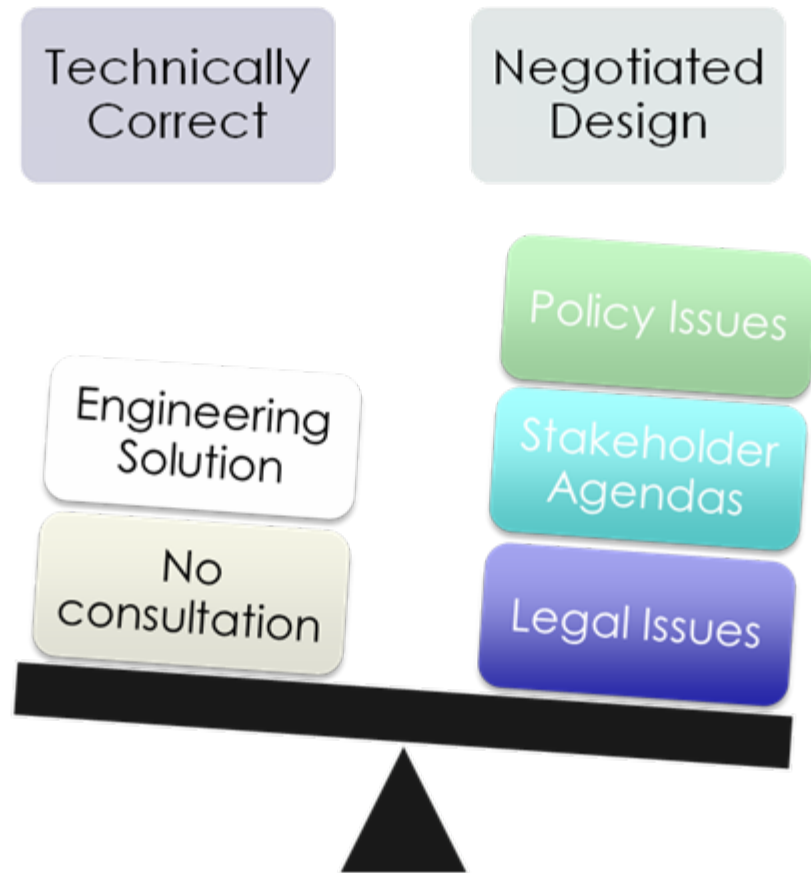
# The Context

- Problems have become complex due to inter-connectedness
- Multi Stakeholder Impacts
- There are resourcing, skills and capacity constraints
- Lack of fulltime oversight and execution

# NERT PMU and PMO – Operating Framework



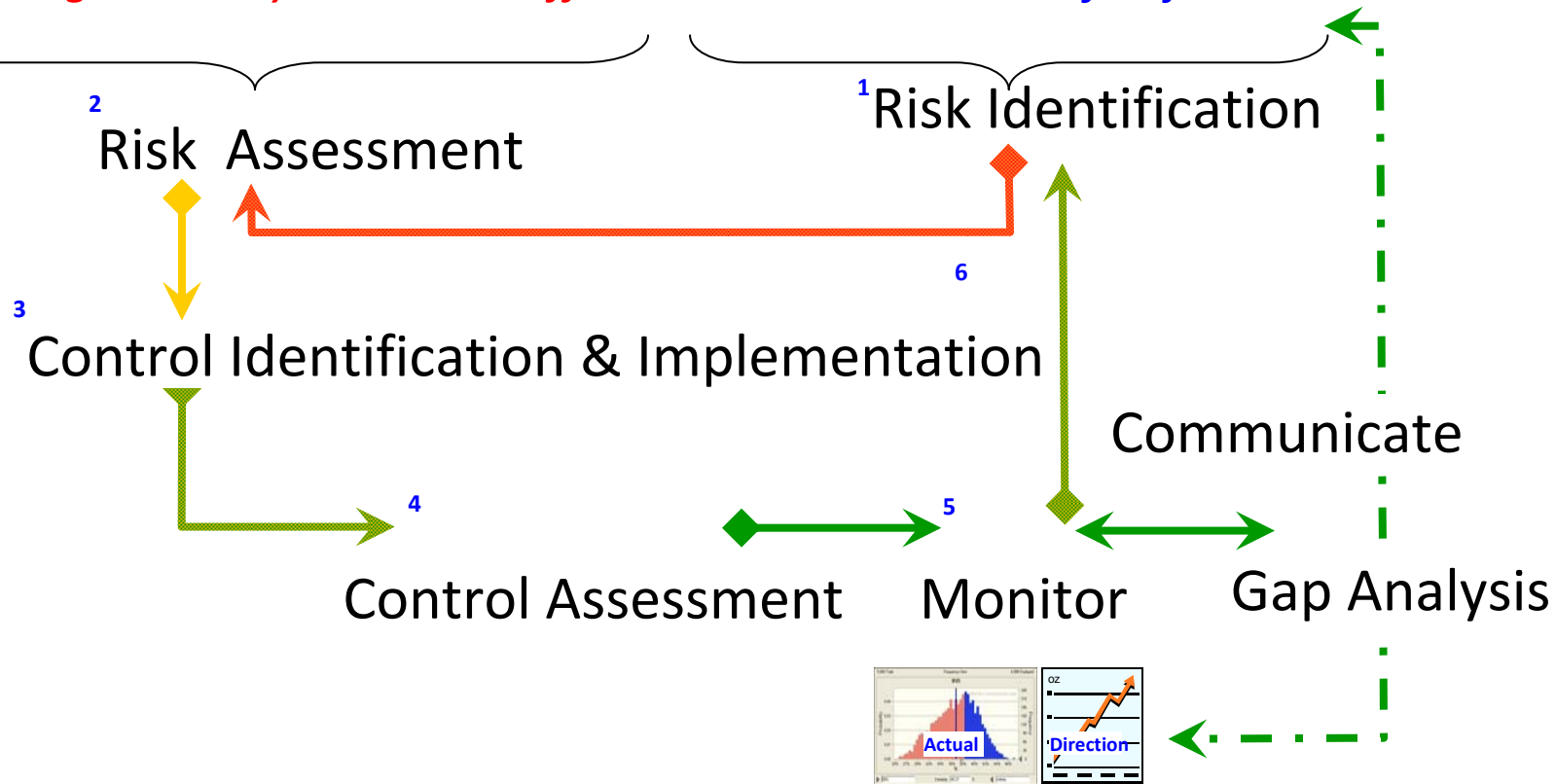
# Managing the Balance



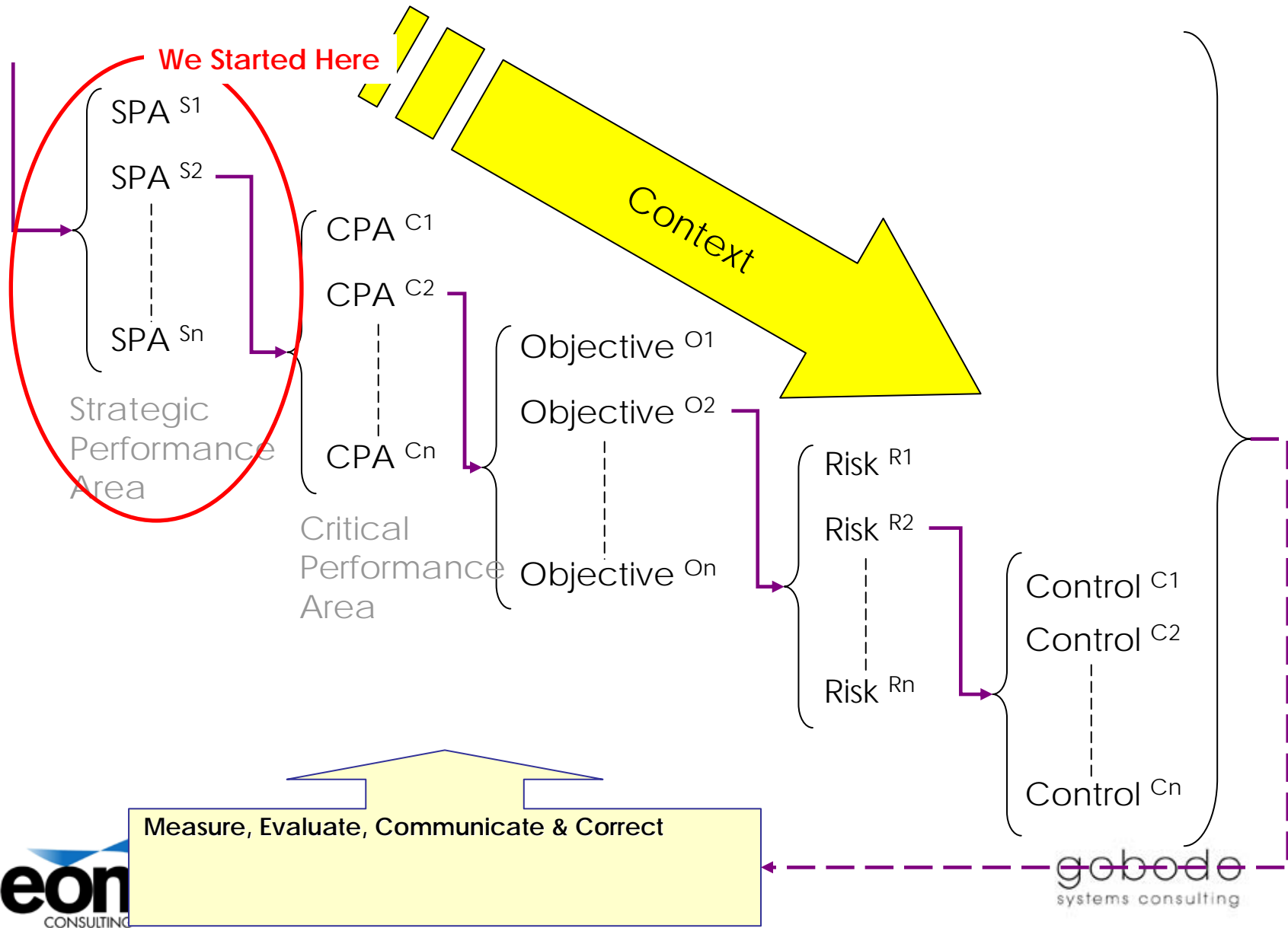
# A Risk Based Approach

"A Risk" – ISO/IEC 73 Definition

*"Something that may occur and affect the achievement of objectives"*



# Its all About Goals and Objectives



# Strategic Objectives

Level 1: Overall Objective

Energy Crisis in SA  
Obtain 15%  
reserve Margin

What we want

Level 2: Strategic Objectives

Increase Supply

Manage Demand

Level 3: Key Objectives

New Build & RTS  
(SPA10, SPA11,  
SPA12)

Reliability of  
Generation  
(SPA1, SPA12 &  
SPA10)

Load Shedding  
(SPA5)

Demand Market  
Participation  
(SPA5, SPA10,  
SPA12, SPA13)

CoGen/IPP/MTPP  
(SPA9, SPA10,  
SPA12, SPA13)

Reliability of  
Transmission(SPA2  
, SPA10, SPA12)

Demand Side  
Management  
(SPA5, SPA10,  
SPA12, SPA13)

Power  
Conservation  
Plan

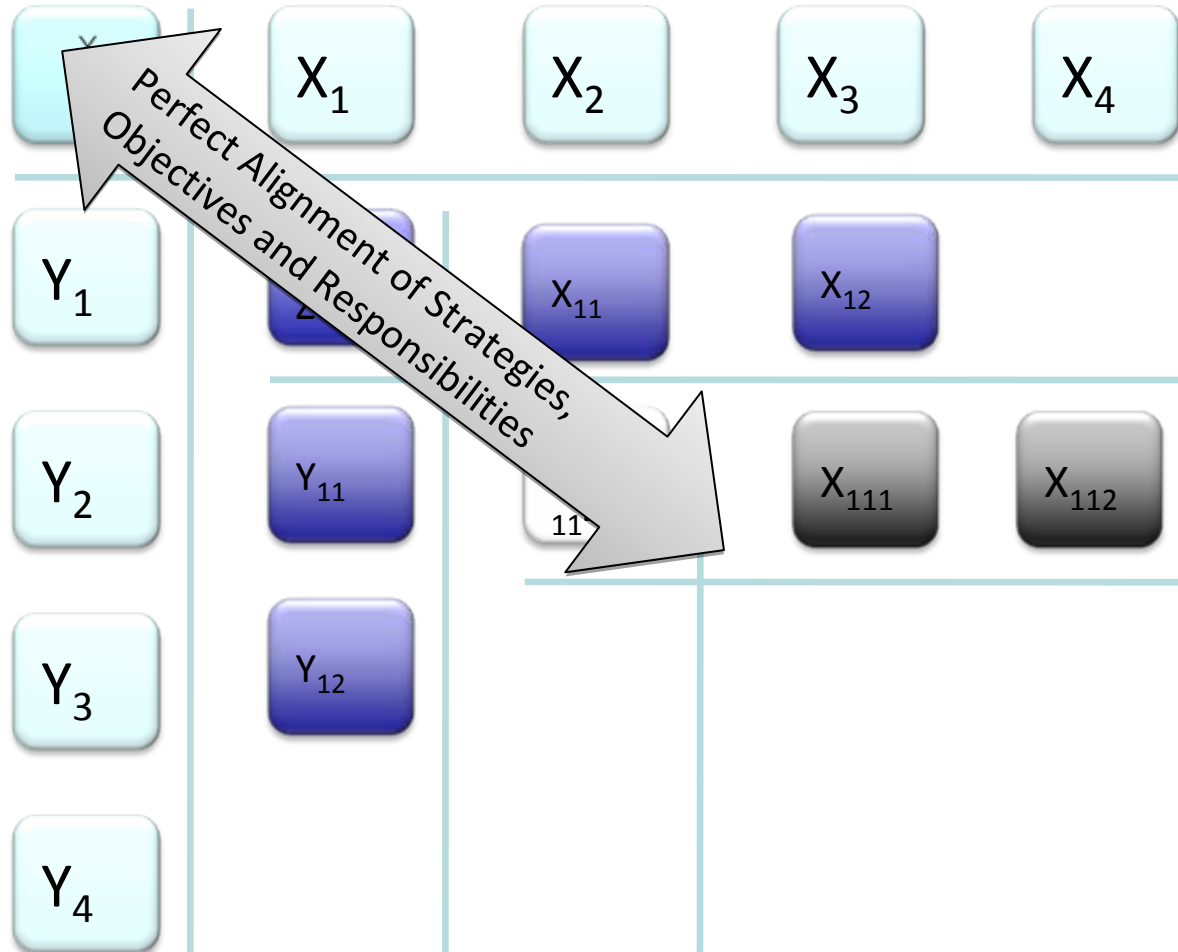
Primary Energy  
(SPA4, SPA12,  
SPA10)

Reliability of  
Distribution(SPA3,  
SPA10, SPA12)

Energy  
Conservation  
Scheme (SPA5,  
SPA13)

Energy Growth  
Management  
(SPA7, SPA8,  
SPA13)

# The Matrix Concept



# Drive contribution to the Goal

The image displays a series of overlapping screenshots from a web portal, illustrating a hierarchical structure of information. The top-level screenshot shows the 'NERT: National Energy Response Team' homepage with a navigation menu (HOME, STRATEGY MATRIX, PROGRAM STRUCTURE, INITIATIVE FUNNELS, OBJECTIVES, PERFORMANCE, RISKS, CONTROLS) and a grid of strategic goals. A red dashed line highlights a path from the 'Achieve a 15% reserve margin of electricity supply' goal to the 'Cogeneration & IPP's' category. The middle screenshot shows the 'Cogeneration & IPP's' page, which includes a definition of cogeneration and a grid of programs (CoGen, Eskom, DoE, Municipalities, NERT Cogen Ws). An orange dashed line highlights a path from the 'Eskom CoGeneration Programs' box to the 'Eskom' program page. The bottom screenshot shows the 'Eskom [ Cogeneration & IPP's, NERT: National Energy Response Team ]' page, which details the 'PNCP (Pilot National Cogeneration Program)' and lists key milestones and documents.

**NERT: National Energy Response Team**

HOME | STRATEGY MATRIX | PROGRAM STRUCTURE | INITIATIVE FUNNELS | OBJECTIVES | PERFORMANCE | RISKS | CONTROLS

**NERT: National Energy Response Team**

**Cogeneration & IPP's [ NERT: National Energy Response Team ]**

CoGen: Increase Electricity Supply | CoGeneration | Independent Power Producers | Municipalities

**Eskom [ Cogeneration & IPP's, NERT: National Energy Response Team ]**

HOME | STRATEGY MATRIX | PROGRAM STRUCTURE | INITIATIVE FUNNELS | OBJECTIVES | PERFORMANCE | RISKS | CONTROLS

**PNCP**

PNCP (Pilot National Cogeneration Program) is an Eskom Program to source cogeneration capacity from the market. Cogeneration involves the use of unused waste heat, power, or resources by private companies to generate electricity. For example, Ethanol is a fuel that consists of cuttings left over after harvesting sugar cane or other agricultural waste. It can be burned in boilers to create steam to drive turbines and thus... [Read More](#)

**MTPPP (Medium Term Power Purchasing Programme)**

MTPPP (Medium Term Power Purchasing Programme). This program focuses on potential power generators that we... [Read More](#)

**Cogeneration & IPP's**

Cogeneration includes generation as a product of an underlying industrial process; generation through renewable energy sources and through all other independent power producers for own use or for sale. In other words, it refers to all prospects for generation outside of Eskom and household grids. The Cogeneration mandate is to ensure additional electricity capacity is generated and added to the national grid to improve the reserve margin, to provide options and recommendations with credible motivation to relevant stakeholders to create a sustainable enabling environment. To facilitate and provide strategic advice in the development of government policies and regulations to encourage participation in cogeneration by the private sector.

**PNCP**

PNCP (Pilot National Cogeneration Program) is an Eskom Program to source cogeneration capacity from the market. Cogeneration involves the use of unused waste heat, power, or resources by private companies to generate electricity. For example, Ethanol is a fuel that consists of cuttings left over after harvesting sugar cane or other agricultural waste. It can be burned in boilers to create steam to drive turbines and thus... [Read More](#)

**MTPPP (Medium Term Power Purchasing Programme)**

MTPPP (Medium Term Power Purchasing Programme). This program focuses on potential power generators that we... [Read More](#)

**Disputed Documents**

- PNCP Bid Document
- PNCP Call for Expression of Interest Document
- KICB PNCP Bid
- Call for the PNCP Tender

# Track & report progress

**NERT** National Energy Response Team

HOME | STRATEGY MATRIX | PROGRAM STRUCTURE | INITIATIVE FUNNELS | OBJECTIVES | PERFORMANCE | RISKS | CONTROLS

My Home | Portals | Environment | Language | Logout

**EsKOM: Increase Electricity Supply & Reliability - ESKOM [NERT: National Energy Response Team]**

Change period: Mar | Current Period: Mar 2009 | Print | Fullscreen | View in B&W | General Indicators | Define Measurement Data

Critical Objectives	Type	Year to date						Full Year			Comments
		CurrYr	Target	%	PrYear	%	PrYear	EXT	Target		
<b>Improved Gx Reliability</b>										Change Status	
EsKOM: PCLF (MTD) ?	%	12.92	9.70	33.20	0.00	N/A	0.00	12.92	9.70		
EsKOM: PCLF (YTD) ?	%	9.57	9.70	-1.34	0.00	N/A	0.00	9.57	9.70		
EsKOM: PCLF (12MM) ?	%	9.57	9.70	-1.34	0						
EsKOM: UCLF (MTD) ?	%	5.19	5.00	3.80	0						
EsKOM: UCLF (YTD) ?	%	4.35	5.00	-13.00	0						
EsKOM: UCLF (12MM) ?	%	4.35	5.00	-13.00	0						
EsKOM: OCLF (MTD) ?	%	0.87	1.00	-13.00	0						

**EsKOM: PCLF (YTD) [Current Period: Mar FY2009]**



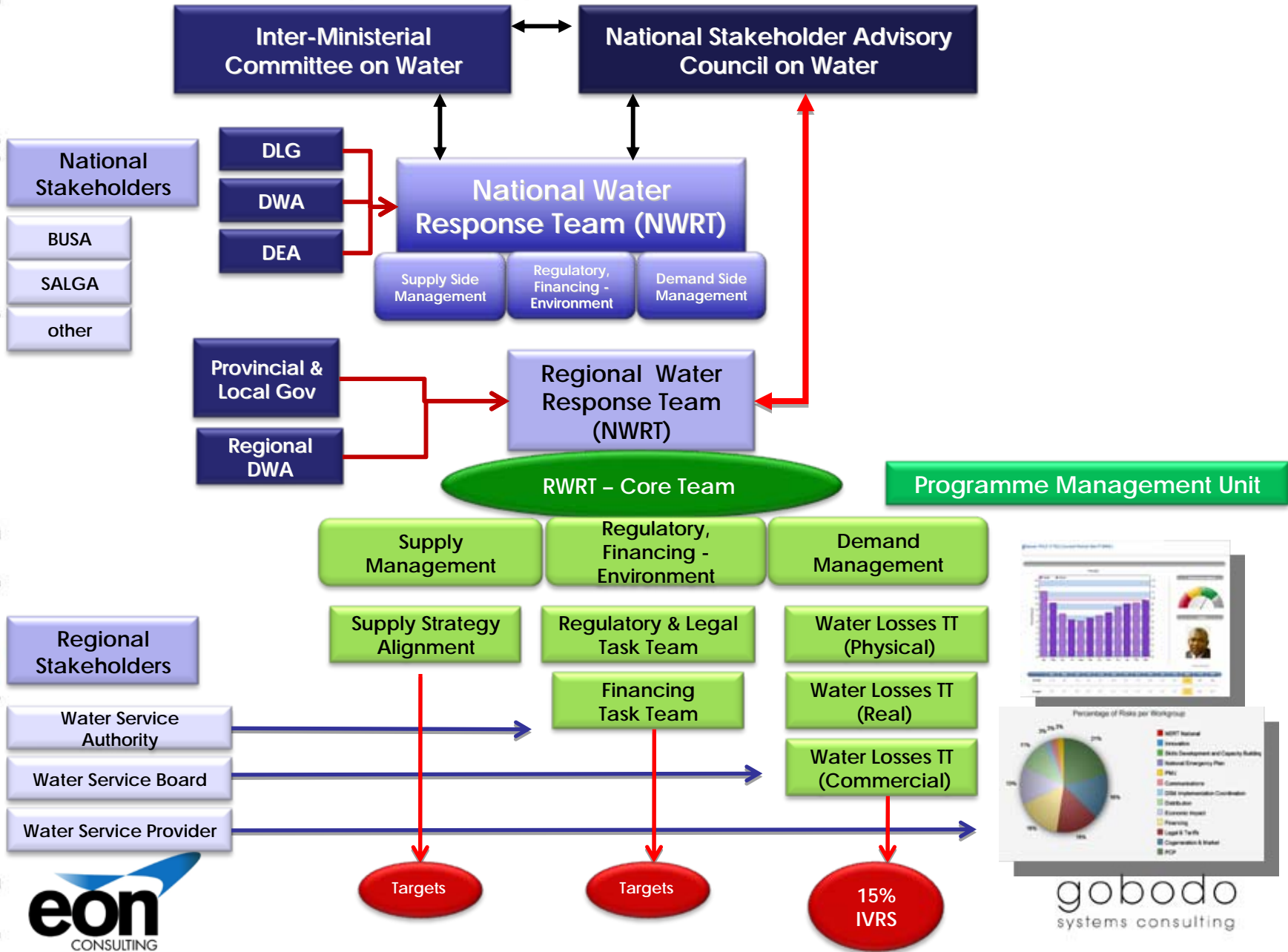
**NERT** National Energy Response Team

HOME | STRATEGY MATRIX | PROGRAM STRUCTURE | INITIATIVE FUNNELS | OBJECTIVES | PERFORMANCE | RISKS | CONTROLS

**Initiative Funnel: ESKOM [NERT: National Energy Response Team]**

- Initiative Initiated**
- Initiative Approved**
  - EsKOM Initiative 1
  - EsKOM Initiative 2
  - EsKOM Initiative 3
- Initiative Policies & Regulations in place**
  - MTPPP
- Initiative Funding secured**
  - EsKOM Initiative 2
- Initiative Implementation in progress**
  - PHCP

# "NERT" superimposed on Water



# Conclusion & Key Lessons

- National Issues require nationally coordinated responses
- Credible plans means better funding
- Full time unit to coordinate and integrate efforts
- Develop an integrated planning and monitoring process
- Management of stakeholder input is crucial to ensure rapid adoption
- Need to have a system which allows everyone to understand what they need to contribute and when