National Treasury Workshop

Application workshop (Day 1)

Standard for Infrastructure Procurement and Delivery Management (SIPDM)

Office of the Chief Procurement Officer

Provincial and Local Government Infrastructure, Intergovernmental Relations



national treasury

Department: National Treasury REPUBLIC OF SOUTH AFRICA



Consulting Engineers South Africa

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SIPDM Application Workshop (Day 1) outline

	Procurement basic processes and systems
• • • •	 Group discussion on what are the perceived current shortcomings in the procurement and delivery of infrastructure
Session 1	• The scope, coverage and location of the SIPDM within the legislative framework
	Generic procurement systems
	Differences between procurement of infrastructure and other categories
	Governance / quality management oversight arrangements
Session 2	Governance and quality management concepts
36351011 2	Control framework for the delivery of infrastructure
	Control framework for infrastructure procurement
	Procurement and delivery management
	Delivery management
	Delivery management strategy
Session 3	Framework agreements
	Procurement routes
	Procurement strategy
	Linkages with value for money

Change in thinking re procurement

WORLD BANK GROUP

Under the new procurement framework, there are four key innovations to help businesses and country clients:

1. Needs and risks of a project are analysed through a Project Procurement Strategy for Development (PPSD). This analysis enables the borrower to have a strategy on how best to engage with bidder. The analysis will ensure that procurement processes are fit for purpose, allow choice, and are appropriate to the size, value, and risk of the project.

2. Value for Money has been introduced as a core procurement principle in all procurements financed by the World Bank. This means a shift in focus from the lowest evaluated compliant bid to bids that provide the best overall value for money, taking into account quality, cost, and other factors as needed.

3. The approach to **resolving procurement-related complaints has been significantly improved** with capacity to promptly respond to any concerns during the procurement process. A standstill period has been introduced - a pause between identifying who should win the contract and actually awarding them the contract so that other bidders can voice any concerns before a contract is actually legally formed and awarded.

4. The World Bank will be more involved in contract management of procurements with high value and high risk to ensure the best possible outcomes and that problems are resolved quickly.

Introduction

New Procurement Framework and Regulations for Projects After July 1, 2016

Core procurement principles:

- 1. Value for money
- 2. Economy
- 3. Integrity
- 4. Fit for purpose
- 5. Efficiency
- 6. Transparency
- 7. Fairness

Governance:

- 1. Accountability
- 2. Conflict of interest
- 3. Eligibility
- 4. Complaints and contract related communications
- 5. Non-compliance

Change in thinking re procurement

The National Planning Commission's National Development Plan 2030: *Our future – make it work* suggests that the design of a procurement system that is better able to **deliver value for money, while minimising the scope for corruption** needs:

- differentiate between the different types of procurement which pose different challenges and require different skills sets
- adopt a strategic approach to procurement above the project level to balance competing objectives and priorities rather than viewing each project in isolation
- build relationships of trust and understanding with the private sector
- develop professional supply chain management capacity through training and accreditation
- incorporate oversight functions to assess value for money

NPC identified a number of shortcomings in the SCM system, namely:

- the "emphasis on compliance by box-ticking makes the system costly, burdensome, ineffective and prone to fraud", and
- "procurement systems tend to focus on procedural compliance rather than value for money, and place an excessive burden on weak support functions."

When the winds of change blow, some people build walls and others build windmills. -Chinese proverb Group discussion on what are the perceived current shortcomings in the procurement and delivery of infrastructure?

Sometimes, in the winds of change, we find our true direction.





Standard for Infrastructure Procurement and Delivery Management (SIPDM)– key definitions

infrastructure delivery: the combination of all planning, technical, administrative and managerial actions associated with the **construction**, supply, **refurbishment**, **rehabilitation**, **alteration**, **maintenance**, **operation** or disposal of **infrastructure**

infrastructure procurement: the procurement of goods or services including any combination thereof associated with the acquisition, **refurbishment**, **rehabilitation**, **alteration**, **maintenance**, **operation** or disposal of **infrastructure**

Procurement: the process which creates, manages and fulfils contracts

infrastructure:

- immoveable assets which are acquired, constructed or which results from construction operations; or
- moveable assets which cannot function independently from purpose built immoveable assets

alteration: changing, extending or modifying the character or condition of infrastructure

construction: everything that is constructed or results from construction operations

maintenance: the <u>combination of all technical</u> and <u>associated</u> administrative actions during an item's <u>service life to retain it</u> in a state in which it can satisfactorily perform its required function

operation: combination of all technical, administrative and managerial actions, other than maintenance actions, that results in the item being in use

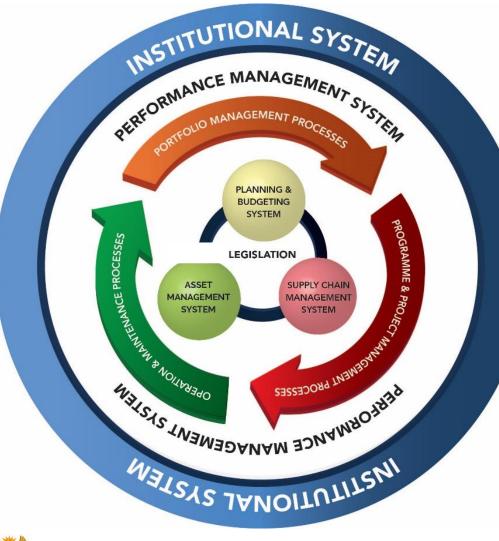
refurbishment: modification and improvements to existing infrastructure in order to bring it up to an acceptable condition

rehabilitation: extensive work to bring infrastructure back to acceptable functional conditions, often involving improvements

What is the SIPDM's coverage?

The planning, design and construction, supply, refurbishment, rehabilitation, alteration, maintenance, operation or demolition of infrastructure, including the procurement of goods and services necessary for a new facility, as delivered, to be occupied and used as a functional entity. This cover the SCM for Infrastructure.

Government's Infrastructure Delivery Management System (IDMS)





IDMS comprises three core systems:

 a planning and budgeting system

Infrastructure procurement and delivery management

4.1

- a supply chain management a system
- an asset management system

These core systems:

- have forward and backward linkages
- are located within portfolio, programme and project management and operation and maintenance processes

Collectively these processes and systems, together with a performance management system, establish the institutional system for infrastructure delivery

Standard for Infrastructure Procurement and Delivery Management (SIPDM) – scope

The scope, coverage and location of the SIPDM within the legislative framework

This standard prescribes:

- a control framework for the planning, design and execution of infrastructure projects, the tracking of such projects and the monitoring of performance
- a control framework for infrastructure procurement
- requirements for the following matters as applied to infrastructure procurement and delivery management:
 - o institutional arrangements;
 - o demand management;
 - o acquisition management;
 - o contract management;
 - logistics management;
 - o disposal management;
 - reporting of supply chain management information;
 - o regular assessment of supply chain management performance; and
 - risk management and internal control
- minimum requirements for infrastructure procurement

Standard does not apply to

- the storage of goods and equipment following their delivery to an organ of state which are stored and issued to contractors or to employees of that organ of state
- the disposal or letting of land
- the conclusion of any form of land availability agreement;
- the leasing or rental of moveable assets
- public private partnerships; and
- the provision of municipal services by means of external mechanisms referred to in Chapter 8 of the Municipal Systems Act.

Standard <u>includes the</u> <u>procurement of</u> <u>goods and services</u> <u>necessary for a new</u> <u>facility</u> as delivered to be occupied and used as a functional entity

Infrastructure procurement is defined in the SIPDM as the procurement of goods or services including any combination thereof associated with the acquisition, refurbishment, rehabilitation, alteration, maintenance, operation or disposal of infrastructure

What precisely does the Standard for Infrastructure Procurement and Delivery Management regulate?

The SIPDM regulates the following:

- making • the decision process associated with procurement the and planning, design and execution of infrastructure projects through control frameworks and policies associated with the assigning of responsibilities for approving or accepting deliverable associated with a gate (control point) or the authorising of a procurement process or procedure;
- aspects of delivery management
- procurement processes, methods and procedures; and
- procurement documents.

Aspect regulated	Instrument used to regulate delivery management					
Control framework	Gateway reviews					
Institutional arrangements	A suitable infrastructure procurement and delivery supply chain management policy to implement the standard					
	An agency agreement between organs of state which includes a service level agreement					
Demand management	Service life plans and infrastructure plans, link to a Control budgets					
Acquisition management	<u>Implementation plans for new infrastructure</u> or the rehabilitation, refurbishment or alteration of existing infrastructure					
•	<u>Annual procurement plans</u> for work other than for new infrastructure or the rehabilitation, refurbishment or alteration of existing infrastructure					
Contract management	Reporting on information obtained from administering a contract in accordance with the provisions of the contract					
Logistics management	Suitable arrangements for the free issue of material					
Disposal management	Establishment of disposal committees to decide on how best to demolish, dismantle or dispose of unwanted, redundant or surplus materials, plant and equipment.					
Reporting of supply chain management information	Reporting to the relevant treasury on high value procurements, awards of contracts other than those recommended by a committee and annual reports					
Regular assessment of	Annual performance report					
the SCM performance	Risk registers					
Risk management and internal controls	Use of gates to authorise activities or commencing with next process, confirm compliance with requirements and, if necessary, to take corrective action					

Standard for Infrastructure Procurement and Delivery Management (SIPDM)

Constitution of the Republic of South Africa

217. Procurement.-(1) When an organ of state in the national, provincial or local sphere of government, or any other institution identified in national legislation, contracts for goods or services, it must do so in accordance <u>with a system which is</u> <u>fair, equitable, transparent. competitive and cost-</u>

<u>effective</u>.

Public Finance Management Act

38 (1)(a) The accounting officer for a department, trading entity or constitutional institution / 51(1)(a) An accounting authority for a public entity must ensure that

(iii) an appropriate *procurement and provisioning system* which is fair, equitable, transparent, competitive and cost-effective;

(iv) a system for properly evaluating all major capital projects prior to a final decision on the project;

SCM Regulations (Chapter 16A)

Issued as an instruction in terms of Section 76(4)(c) of the PFMA and is applicable to:

- a national or provincial department as defined in the PFMA
- a constitutional institution entity as listed in schedule 1 of the PFMA
- a public entity as listed in schedules 2 and 3 of the PFMA
- any organ of state which implements infrastructure delivery projects on behalf of another organ of state

Implementation date - 1 July 2016 or before

SIPDM does not require any change in Regulations to be implemented

Municipal Finance Management Act

112. (1) The supply chain management policy of a municipality or municipal entity must be fair, equitable, transparent, competitive and cost-effective and comply with a prescribed regulatory framework for municipal supply chain management, which must cover at least the following . .

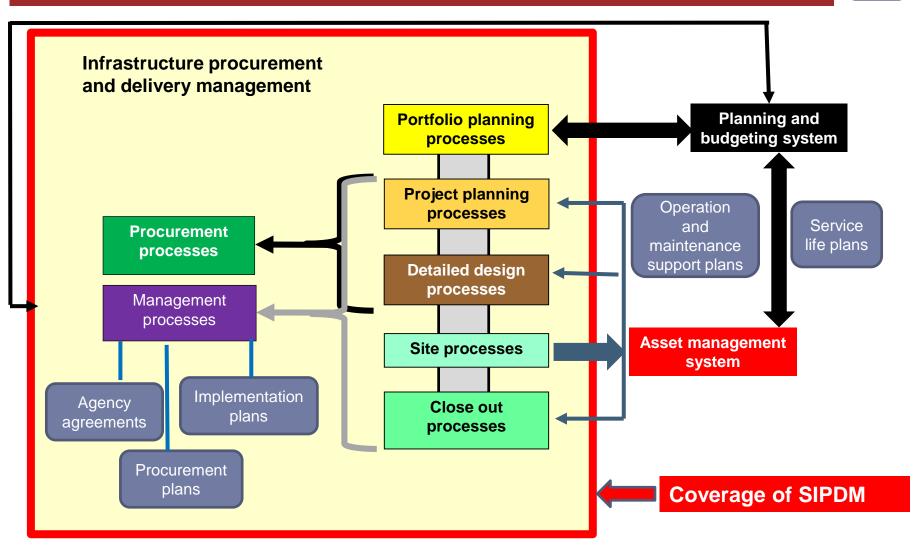
SCM Regulations 3(2)

The accounting officer may for purposes of subregulation (I)(a) make use of any Treasury guidelines determining standards for municipal supply chain management policies..... The accounting officer must report any deviation from the guideline standard to the National Treasury and the relevant provincial treasury.

Standard also forms an integral part of the Model SCM Policy for Infrastructure Delivery Management which has been issued as a Treasury guideline determining a standard for municipal supply chain management policies in terms of Section 168 of the MFMA in support of Regulation 3(2) of the MFMA Supply Chain Management Regulations Applies to an municipality or a municipal entity whose council or board of directors adopts the guideline standard for SCM policies

Implementation by 1 July 2017

Coverage of SIPDM



Asset management and planning and budgeting are covered by other pieces of legislation

Constitution of the Republic of South Africa

217. **Procurement**.-(1) When an organ of state in the national, provincial or local sphere of government, or any other institution identified in national legislation, contracts for goods or services, it must do so in accordance with a **system** which is fair, equitable, transparent. competitive and cost-effective.

A system is an established <u>way of doing things and</u> <u>provides order</u> and a platform for the methodical planning of a way of proceeding. Systems are underpinned by:

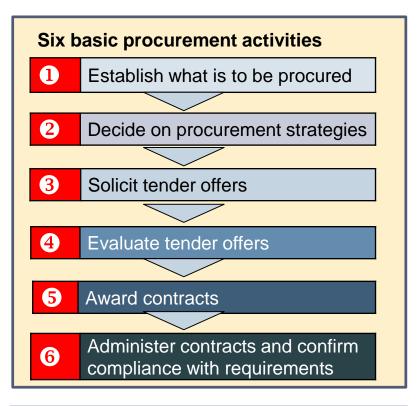
- processes a succession of logically related actions occurring or performed in a definite manner which culminates in the completion of a major deliverable or the attainment of a milestone;
- **procedures** the formal steps to be taken in the performance of a specific task, which may be evoked in the course of a process; and
- **methods** a documented, systematically-ordered collection of rules or approaches

Procurement is the process which creates, manages and fulfils contracts. Procurement commences once a need for goods and services of any combination thereof has been identified and it ends when the goods are received and the services are completed. There **are three phases** to the procurement process, namely:

- a planning phase during which decisions are made as to what, where and when goods and services are required, which procurement route is to be pursued and what is the number, type, nature and timing of the required contracts;
- an **acquisition phase** during which contracts are entered into following the execution of a selection procedure; and
- a **contract management** phase during which compliance with requirements, changes in requirements and risk events which manifest during the execution of contracts are managed.

Procurement activities and system requirements

Generic procurement systems



SIPDM requires that <u>procurement be</u> <u>undertaken in accordance with all</u> <u>applicable legislation and the relevant</u> <u>requirements of SANS 10845 parts 1 to 4</u> These 6 basic activities are generic to all types and categories of procurement.

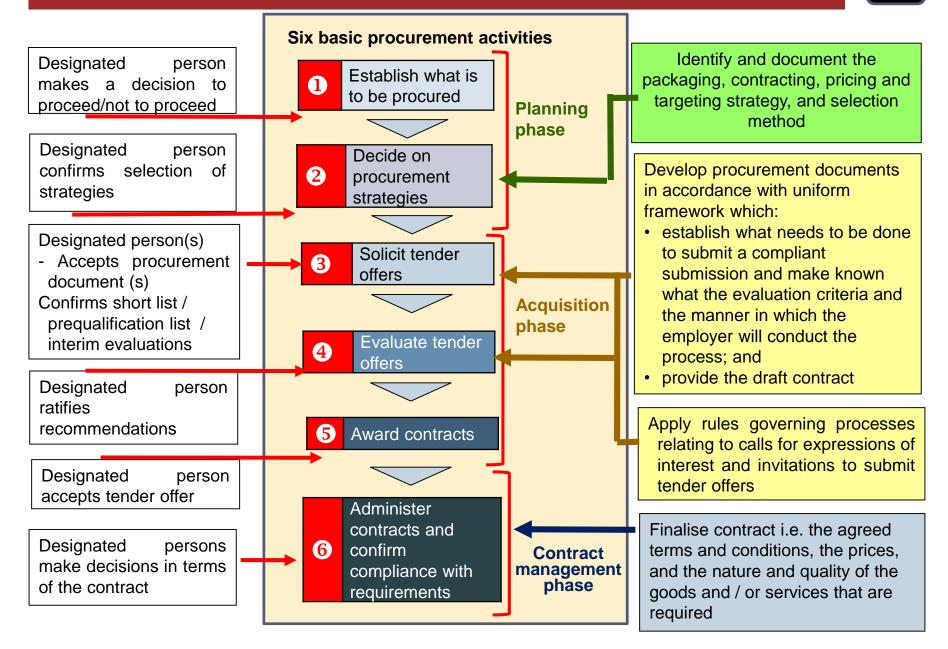
Procedures and methods used in conjunction with policies guiding the selection of options and the application thereof are required to implement these procurement processes.

Procurement documents are needed to:

- communicate to tenderers a procuring entity's procedures and requirements up to the award of a contract
- establish the basis for the contract that is entered into with the successful tenderer.

Governanceorqualityoversightarrangements linked to the milestones need tobeputinplacetomanageandcontrolprocurement processes.

Procurement activities and system requirements



SANS 10845 Parts 1 to 4

SANS 10845 standardizes

- Procurement processes, methods and procedures
- Procurement documents
- Procurement policy (aspects)

The CIDB Standard for Uniformity in Construction Procurement had similar coverage

Note: SANS 10845 is an adoption of ISO 10845 which is based on the CIDBSFU. The CIDB SFU (May 2010) was fully aligned with ISO 10845. Changes introduced via CIDB SFU (July 2015) not supported The objective of the SANS / ISO 10845 series of construction procurement standards (Parts 1 to 4) is to provide a generic and standard set of processes, procedures and methods for a procurement system that is fair, equitable, transparent, competitive and cost effective and which may, promote objectives additional to those associated with the immediate objective of the procurement itself.

SANS 10845-1 describes generic procurement processes around which an organisation can develop a procurement system and establishes generic methods and procedures that are used in **soliciting tender offers and awarding contracts**.

Procurement documents communicate a procuring entity's procedures and requirements relating to procurement processes up to the award of a contract and establish the basis for the contract that is entered into with the successful tenderer.

SANS 10845-2 establishes a uniform format for the compilation of calls for expressions of interest, tender and contract documents, and the general principles for compiling procurement documents for supply, services and engineering and construction works contracts, at both main and subcontract levels.

SANS 10845-4 establishes what is required for a respondent to submit a compliant submission, makes the evaluation criteria known to respondents, and establishes the manner in which the procuring entity conducts the process of calling for expressions of interest.

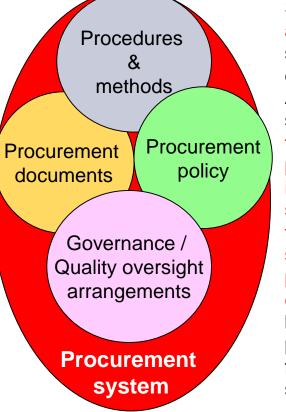
SANS 10845-3 establishes what a tenderer is required to do to submit a compliant tender, makes the evaluation criteria known to tenderers, establishes the manner in which the employer conducts the process of offer and acceptance, and provides the necessary feedback to tenderers on the outcomes of the process.

SANS 10845-2 enables SANS 10845-3 and SANS 10845-4 and standard forms of contract to be readily referenced in procurement documents.

Elements of a generic procurement system

A procurement system comprises:

- rules and guidelines governing procedures and methods
- procurement documents which include terms and conditions
- governance / quality oversight arrangements to manage and control procurement
- organisational policies e.g.
 - the usage and application of particular procurement procedures
 - procedures for dealing with specific procurement related issues
 - secondary procurement goals and procedures
 - the assignment of responsibilities for the performance of activities



SANS 10845 parts 1 to 4 are applicable to all types of contracts i.e. supply, services and engineering and construction works contracts. Although the title of the SANS 10845 series of standards suggest that apply standards only these to procurement within the construction these standard industry, are sufficiently generic to be applied to procurement of goods the and services in other categories of sectors of procurement and an economy. Methods and procedures best suited to particular categories of procurement need to be identified the from generic procurement system.

Although the methods and procedures **are generic to different categories of procurement** there are very different characteristics between different categories of procurement.

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Differences between procurement of infrastructure and other categories

Characteristic	General goods and services	Infrastructure
/consideration Satisfying the business need	for consumption The business need is commonly achieved through the production of a specification, which then forms a requisition for the procurement of goods or services	The business need is frequently satisfied though multiple contracts which need to be procured and managed in such a way that the anticipated benefits are progressively realised
Demand management	The demand is determined and managed through inventory / bin levels or the frequency of the required service	 Demand is determined and managed during the planning phase through: service life plans which are based on an assessment of current performance against desired levels of service or functionality, which reflect cost estimates of life cycle activities, and infrastructure plans which provide a credible forecast of current demand and net demand for services or requirements for functionality over a period of time. Demand is proactively managed through the planning, acquisition and contract management phases through the setting and monitoring of control budgets Projects are delivered against established norms and standards which are designed to yield value for money

Characteristic /consideration	General goods and services for consumption	Infrastructure
Risks	Risks are relatively low as they are typically linked to the ability of the supplier / contractor to timeously supply the required goods or to provide the required service to the standard demanded by the purchaser or employer within the tendered amount.	Risks are high due to uncertainties at the start of a contract which include economic circumstances, human behaviour, natural events, weather, inherent site conditions, political circumstances, community unrest, technology and technical issues, management activities and controls and individual activity. Risks can also manifest in commercial and legal relationships and weak clients as well as in the difference between estimated quantities at tender stage and final quantities at the completion of the works and the manner in which contractors are compensated for risk events for which they are not responsible for.

Risk (ISO Guide 73) is the "effect of uncertainty on objectives."

A more expansive definition of risk is the deviation, positive or negative, from the expected on an organisation's objectives arising from the deficiency of information relating to the understanding of an event, its consequence or likelihood.

Contractors need to assess two types of impacts of changes in production information, namely:

- direct impacts (material, labour, equipment etc);
- secondary impacts (disruption, cumulative impact, productivity loss, knock-on impact or ripple affect)

Dealing with risk in infrastructure related contracts

Risk taking is necessary in infrastructure projects. Risk management is all about identifying the salient risks, **assessing their likelihood and deciding on how best to manage the project in the light of this information.** Good practice is to assign risk to the party best able to manage it or enter into collaborative arrangements which enable risk to be proactively managed by both parties. The parties to a contract face choices on how to deal with the inherent project risks. Risks can be transferred or accepted. In some instances, insurances can be taken out to cover risks.

Risk allowance

Cost of change to original production information and assumptions

Profit

Company overheads

Site overheads and charges

Materials, plant, equipment and labour costs, based on the original production information

Subcontract amounts based on original production information

Option 1: risks transferred to the contractor

Risk allowance

Cost of change to original production information and assumptions

Profit

Company overheads

Site overheads and charges

Materials, plant, equipment and labour costs, based on the original production information

Subcontract amounts based on original production information

Option 2: risks shared between the client and the contractor

Total of prices at the completion of the contract

Client savings due to risks which were not priced by the contractor failing to materialise

The focus in the distribution of risk is on the payment and responsibility for the cost of the event, should it materialise. The contractor tries to limit liability in contracts to a foreseeable figure. The client needs to bear in mind that increasing the risk borne by the contractor inevitably increases the price of the contract.

Characteristic /consideration	General goods and services for consumption	Infrastructure
Final contract price of contract	Final contract price typically equates to the quantum of goods or services which are consumed multiplied by the agreed rate	The final contract price in works contracts equates to the sum of the initial contract price for work which is known, the cost of changes in scope of contract (variations) to enhance quality performance or to address shortcomings which can impair performance, the amount of contract price adjustment for inflation
		provided for in the contract and the cost of risk events that materialise in the execution of a contract for which the contractor is not responsible.
Budget, contract price and purchase order value	Contract price is commonly adjusted to fit budget or the budget reduced to the contract amount when it is known. The purchase order amount typically equals the contract price which in turn equals the budget.	The budget needs to include contingences to fund changes in the scope of contract (variations) to enhance quality performance, or to address shortcomings which can impair performance, and risk events for which the contractor is not responsible. The purchase order amount may need to be adjusted to enable contingencies to be accessed. The budget, the amount due in terms of the contract and the purchase order amount are rarely the same.

Final contract price of infrastructure contract

initial contract price for work which is known + changes in scope of contract (variations) to enhance quality, performance or to or address shortcomings which can impair performance + contract price adjustment for inflation in terms of the contract + the cost of risk events that materialise in the execution of a contract

Characteristic	General goods and	Infrastructure
/consideration	services for consumption	
Conditions of	Conditions of contract	Conditions of contract provide terms that collectively
contract	describe the rights and	describe the rights and obligations of contracting parties
	obligations of the parties and	and the agreed procedures for the administration of their
	commonly lack agreed	contract.
	procedures for the administration or management of the contract.	A standard form of contract or standard contract is used. Such contracts provide fixed terms and conditions which are not varied. This is necessary to allocate risks to the
	Frequently a contract or a	parties and to provide the methodology by which
	service level agreement is	adjustment to both the prices and the time for completion
	negotiated after the	can be made for changes in the scope of work and for
	evaluation of tenders, based	risk events for which the contractor is not at risk. This
	on the tender submission.	enables:
	Variations to in or modification of the terms of the contract can only be made except by written	 tenderers to take into account the allocation of risks and how the contract will be administered in their tender submissions,
	amendment signed by the parties concerned.	 enables tenders to be evaluated on a comparative basis,
		 reduces risk pricing and
		 compensates contractors for the occurrence of risk events for which they are not at risk without amending the contract.

Characteristic	General goods and	Infrastructure			
consideration services for consumption					
Interdependencies	Interdependencies and	There are several interfaces and interdependencies			
and interfaces	interfaces between contracts	between contracts as works (products) are developed			
between contracts	are rare as the procurement	or maintained on a site. A supply chain frequently			
	commonly involves off the	needs to be contracted and mobilized to provide the			
	shelf products or readily	necessary professional services, manufacture and / or			
	available commodities or	supply materials, products, components and			
	standard, well defined and	assemblies, provide the necessary equipment and			
	scoped services	labour to provide the works and to manage the			
		implementation of the project.			



Sol Plaatje University (Kimberley (SIPS 14))– 2014,2015 and 2016 intakes

Summary of contracts:

- 23 professional service framework contracts
- 5 construction framework contracts
- 5 supply framework contracts
- Plus several non-framework agreements

Interconnected contracts with dependencies

Characteristic /consideration	General goods and services for consumption	Infrastructure
Procurement	The acquisition of goods or services	The process which creates manages and fulfils contracts
Value for money (cost effectiveness)	Reducing the cost of resources used for an activity or increasing output for a given input or minimising input for a given output while maintaining quality and achieving the intended outcomes from the output	The optimal use of resources to achieve intended outcomes

Focus

- on optimising resources within an activity to improve outcomes
- choice of goods and productivity of service for a particular transaction

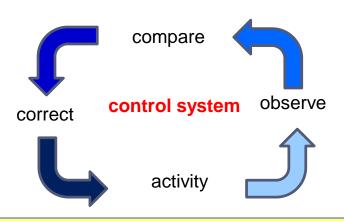
Focus:

- on optimising resources across the entire supply chain from inception to completion to improve outcomes
- Integration of timing and outputs of the delivery team
- management of risk throughout the whole supply chain
- trade offs between options to achieve project outcomes

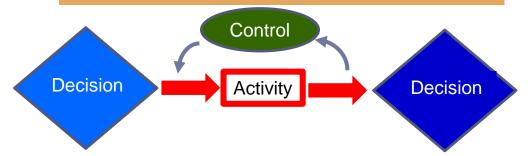
Control system

Focus needs to be on the realisation of client objectives

For a project to progress meaningfully, its objectives and their achievements must be closely allied to its decision structure



Governance and quality management concepts



The purpose of **a control system** is to regulate work in relation to its changing context

The control system involves the comparing of progress against objectives and taking some corrective action where necessary:

- taking steps to change the performance of the activity to bring it closer to what was planned; or
- changing the plan so that it more closely reflects the changed situation brought about by the departure from the plan

Hierarchy of decisions

Policy decisions are the major constraints on any project and determine the framework within which the project takes place. They set the objectives for the projects

Strategic decisions deal with matters impinging on the project and are concerned with implementing the client's policy within the regulated framework for projects

Tactical decisions are concerned with the deployment of resources and the management of the project on a day to day basis.

Operational decisions relate to decisions made within a components of an activity

Control frameworks -concepts

detected or other

undesirable potential

situation

Auditing

A gate is a point in the infrastructure life Stage n cycle where a **decision** is required before proceeding from one stage to another Decisions need to be based on Activity information that is provided A gate provides assurance that an Activity infrastructure project Remains within agreed mandates Aligns with the purpose for which it was Activity conceived Can progress successfully from one Activity Quality phase to the next management Major deliverable A gate is a decision point but also risk / quality oversight control and audit point Requirement - need or expectation that Concepts relating to is stated, generally implied or obligatory conformity based on **ISO 9000** Nonconformity - non-**Preventative action** – action to fulfilment of a requirement eliminate the cause of potential nonconformity or other undesirable potential situation **Deviation permit Corrective action** – action Correction -- permission to to eliminate the cause of a action to

eliminate a

detected

nonconformity

Release permission to proceed to the next stage of a process

Conformity –

fulfilment of a

requirement

depart from the

originally specified

requirements

Stage n+1

GATE

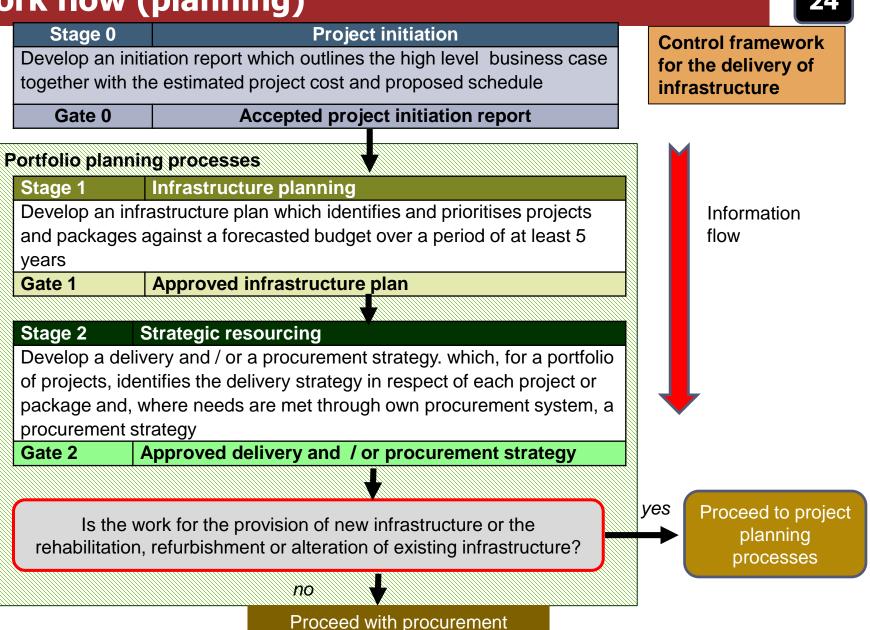
Infrastructure

Procurement

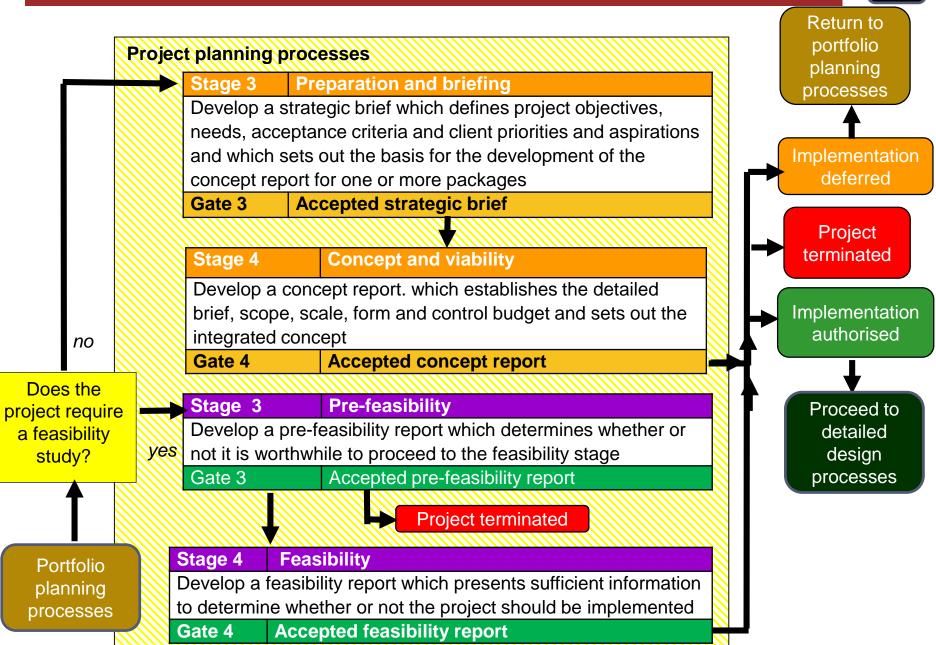
and Delivery

Management

Work flow (planning)



Work flow (planning)



Work flow (implementation)

Implementation authorised Detailed design processes					production	n ir	information nformation which provides , the efinition, specification, sizing	
Stage 5	Design development	Þ		•	•		tems and components enabling e the constructor is able to	
Develop	a design development	<u> </u>		build directly	y from the i	nfc	ormation prepared) or the	
report wł	nich develops in detail	\square	Store	production of	of manufact	turi	ing and installation information	
the appro	oved concept to		Stage 6:Design	for construc	tion			
finalise th	ne design and		document	Gate 6Â	Accepted	l p	roduction information	
definition	criteria, sets out the	B	-ation	Stage 6B	Manufact	ur	e, fabrication and	
A	d developed design	H	-ation		construct	construction information		
A.	ains the cost plan and	H		Produce the manufacture, fabrication and construction				
schedule	for one or more			information produced by or on behalf of the constructor,				
package				based on th	ased on the production information provided for a			
Gate 5	Accepted design	H		package which enables manufacture, fabrication or				
	development report	H.		construction to take place				
Clos		\mathbb{Z}		Gate 6B	•		nanufacture, fabrication and	
	e out processes	22			construct	tio	on information	
	Stage 9 Package completion		Site p	rocesses			Stage 7 Works	
	Correct notified defects and settle		Stage 8 Hand over Complete the v		Complete the works so that i			
putstanding monies						is capable of being occupied		
Gate 9			complete with record information or used		or used			
	(works only), final	Gate 8 R		Record infor	mation		Gate 7 Issued completion	
payment certificate				and hand ov	ver		delivery certificate	
and close out report				certificate				

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Gates 3 and 4

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major capital project: an infrastructure project or a series of interrelated infrastructure projects on a single site having an estimated cost, including those required for new facilities or systems to become fully operational, above a prescribed threshold

	Stage 0: Project initiation	Gate 0
Portfolio planning processes	Stage 1: Infrastructure planning	Gate 1
processes	Stage 2: Strategic resourcing	Gate 2

Is the project a major capital project where the expenditure exceeds R1,5 billion (Schedule 2) or R1,0 billion (other organs of state) or R250 million per annum for a minimum of three years (other organs of state)? Is the project **not** a building project with or without related site works or a process-based, somewhat repetitive or relatively standardised project where the risk of failing to achieve time, cost and quality objectives is relatively low?

no V			Ј у	ves	Output-based specifications define the
Stage 3: Preparation and briefing	Project planning processes		Stage 3: prefeasibility	/	client's functional
Stage 4: Concept and viability			Stage 4: feasibility		requirements for the proposed project.
yes					Such specification usually do not attempt to address how those
	e acceptance for a pr ckages which are to				outputs might be
				no	achieved or address all the issues covered by a
Design development	Stage 5: Design dev	velopment	Gate 5		strategic brief for a
processes	Stage 6: Design documentation		Gate 6		package

Stages of delivery linked to contracting strategy

Nationa	l Treasury		
Stage	Description	Management contractor	Contract under which a contractor is responsible for planning and managing all
0	Project inception	CONTACTOR	post-contract activities, including, if required,
1	Infrastructure planning		any design of the works or portion thereof,
2	Strategic resourcing		and for the performance of the whole of the
3	Preparation and briefing or Pre-feasibility	Design and construct	contract Contract in which a contractor designs the works based on a brief provided by the client and constructs it
4	Concept and viability or Feasibility		(Design is integrated with construction and is managed by the contractor)
5	Design development	Develop and	Contract based on a scheme design prepared
6	Design documentation	construct	by the client under which a contractor finalises the production information and constructs it
7	Works		(The final design details are integrated with
8	Handover		construction and are managed by the
9	Closeout		contractor)
eliverable tage needs sufficient	detail contained in a associated with the end of each s to be: to enable informed decisions de to proceed to the next stage;	Design by employer	Contract under which a contractor undertakes only construction on the basis of full designs issued by the employer (Design is a separate function to construction and is managed by the client or his implementer)

• such that it can be used to form the basis of the scope of work for taking the package forward in terms of the selected contracting strategy

and

Comparisons of stages of delivery

National Treasury		ECSA		SACQSP, SACAP, SACLAP		SACPMP	
Stage	Description	Stage	Description	Stage	Description	Stage	Description
0	Project inception						
1	Infrastructure planning						
2	Strategic resourcing						
3	Preparation and briefing or	1	Inception	1	Inception	1	Inception
4	Pre-feasibility Concept and viability or Feasibility	2	Concept and viability (preliminary design)	2	Concept and viability	2	Concept and viability (concept design)
5	Design development	3	Design development (detailed design)	3	Design development	3	Design development
6	Design documentation	4	Documentation and procurement	4	Documentation and procurement	4	Documentation and procurement
7 8	Works Handover	5	Contract administration and inspection	5	Construction	5	Construction
9	Closeout	6	Close out	6	Close out	6	Close out

Stages of delivery – comparisons 30								
National Treasury		ESKOM (PLCM)		PetroSA		Transnet		
Stage 0	Description Project	Description Opportunity pipeline			Description Framing /	Description		FEL = Front end loading also referred
	inception				opportunity identification	1	Concept	to as pre-
1	Infrastructure planning	Pre-project planning*						project planning (PPP),
2	Strategic resourcing							(ГГГ),
3	Preparation and briefing or			FEL- 1	Pre-feasibility / identify and	FEL- 2	Pre-	
	Pre-feasibility				select		feasibility	
4	Concept and viability or Feasibility	Concept		FEL- 2	Feasibility / definition	FEL- 3	Feasibility	
5	Design development	Definition		FEL- 3	Design and plan / develop			
6	Design documentation	E x	Finalise solution	-	Implementation		Execution	
		е			and execution	FEL- 4		
7	Works	С	Implement	-		4	(no gates)	Gates focus
8	Handover	u t i	Commissioning and handover		Operations and			on planning – stages 3 and 4 are not
9	Closeout	o n	Close project	-	- handover		Finalise (close out)	repeated for packages

*Linear process – not updated annually and only for a particular project

Gateway reviews

Control framework

- requires decisions to be made on information developed during a stage before proceeding from one stage to the next
- enables independent reviews to be ٠ undertaken on the information upon which decisions are to be taken

This enables reviews to be undertaken –

- review of Stage 4 (Concept and viability)
- review of Stage 5 (Design Development)
- review of Stage 8 (Handover)

All major capital projects having an estimated capital exp greater than or equal to a prescribed values shall have a review of the stage 4 deliverable (concept report or feasi report) prior to acceptance of the deliverable

Review team (not less than three people who are not invo the project associated with the works) is led by a profession engineer, professional quantity surveyor or professional a Relevant treasury may nominate additional persons to set the team



Code red – poses significant risks Code amber – minor risk Code green – aspects given adequate consideration

Relevant treasury may initiate a review of any of the end of stage deliverables

End of planning stage – go / no go decision required

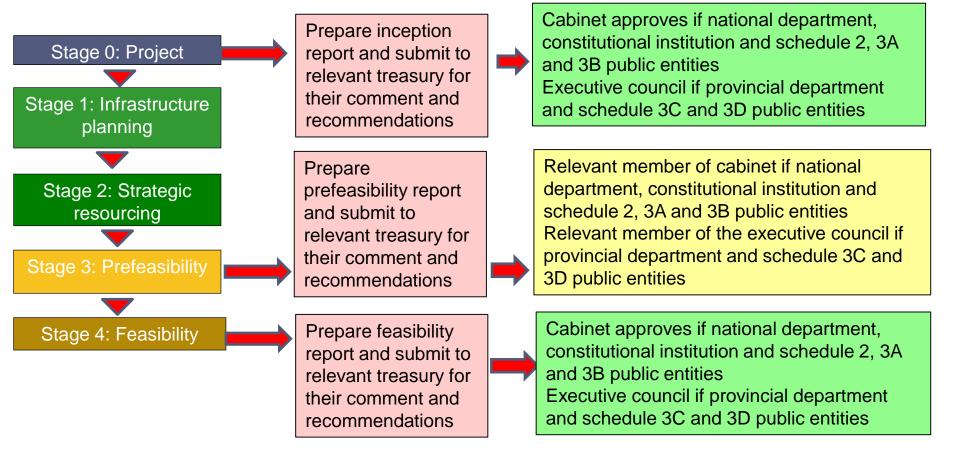
Design developmen report – wha intended to be delivered	delivered				
	Organ of state	Estimated cost inclusive of VAT			
	National department Provincial department	R 100 million R 100 million			
expenditure /e a gateway	or metropolitan municipality				
easibility	Municipality other than a metropolitan municipality	R 50 million			
involved in fessional	Major public entity	R 500 million			
nal architect o serve on	National government business enterprise Provincial government business enterprise	R250 million			
	Other	R 100 million			
	Focus :				

- Deliverability
- Affordability ٠
- Value for money •

Approval of high value major capital projects

Applies where value of projects exceeds:

- national and provincial departments and constitutional institutions
- Major public enterprises, national government enterprises, provincial government business enterprise and other public entities
- > 7.5 billion
- > R 10 billion or
- > 4% of organ of state's total assets or
- > 2% of organ of state's revenue in latest audited financials



Control frameworks - outcomes

SIPDM 13.2 Internal control measures

The gates in the control frameworks provided in section 4 shall be used, as appropriate, to:

- a) authorise the proceeding with an activity within a process, or commencing with the next process;
- b) confirm conformity with requirements; or
- c) provide information which creates an opportunity for corrective action to be taken

Suitable templates shall be used to record the approval or acceptance of documents at the gates provided in the control framework established in section 4.

Standard for Infrastructure Procurement and Delivery Management requires that organisational policy needs as a minimum to:

- assign responsibilities for approving or accepting deliverables associated with a gate in the control framework or authorising a tender process;
- establish committees which are required by law or equivalent quality management and governance arrangements;
- establish delegations for the awarding of a contract or the issuing of an order

Principles

- Align with organisation's SCM policy which allocate responsibilities to those who are best placed to make a decision
- Minimise signatures
- Include SIPDM requirements so that precise requirements are understood

NOTE: Can combine projects, contracts and orders into a single form where it makes sense.

Large SOE requires for a contract completion certificate for a works contract **6 officials** to sign as recommended and **8 approval signatures** including a group executive!



Recommendation not always necessary

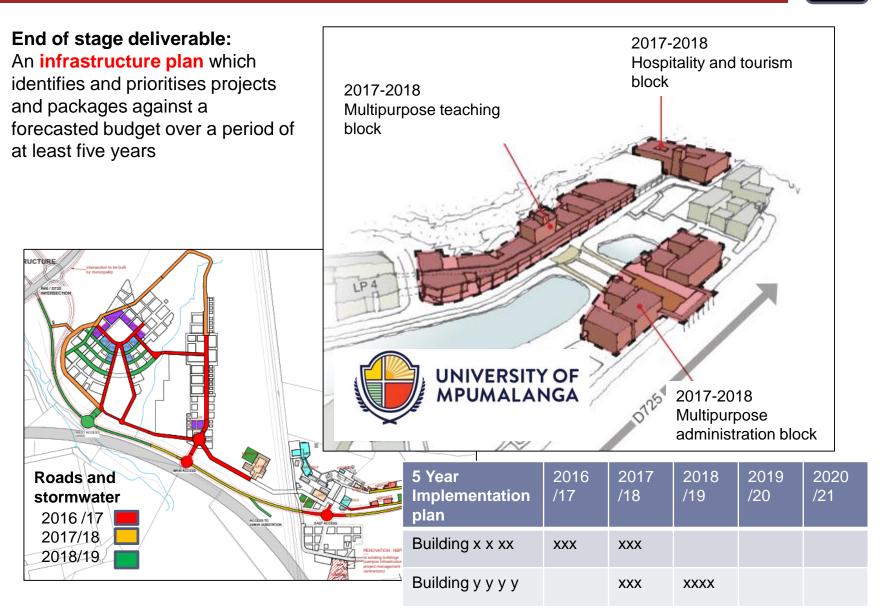


Approvals and acceptances at gates Title Person assigned the responsibility for Form approving or accepting deliverable no G0 Acceptance of the project initiation report ... accepts the initiation report G1 Approval of the infrastructure plan ... approves the infrastructure plan Strategic G2 Approval of the delivery and / or ... approves the delivery and / or procurement level? procurement strategy strategy G3(PR) Acceptance of the prefeasibility report ... accepts the pre-feasibility report G3(SB) Acceptance of the strategic brief ... accepts the strategic brief Executive G4(FR) Acceptance of the feasibility report ... accepts the feasibility report level? G4(CR)Acceptance of the concept report ... accepts the concept report G5 Acceptance of the design development accepts the design development report report G6A Acceptance of the production information accepts the parts of the production .. . information requiring acceptance which are identified when the design development report is accepted G6B Acceptance of the manufacture, accepts the manufacture, fabrication and fabrication and construction information construction information G7 Certification of completion / delivery The contract manager certifies completion of the works or the delivery of goods and Operations associated services level? G8 Acceptance of handover ... accepts the hand over G9 Acceptance of the close out report The contract manager or supervising agent certifies the defects certificate in accordance with the provisions of the contract "approve" = "officially agree to" contract certifies final The manager accept" = "receive as adequate, valid, or completion in accordance with the provisions of suitable"" the contract accepts the close out report

Implementation templates

			iname of organ of state)
Form	Title		
no		Insert logo	G1: Approval of the infrastructure plan
G0	Acceptance of the project		(Version 1: July 2016)
	initiation report		
G1	Approval of the		Name of portfolio of projects and packages covered by the infrastructure plan:
	infrastructure plan	Insert data 🛛 🗕	Period oovered by the infrastructure plan:
G2	Approval of the delivery		Brief overview of portfolio of projects and packages covered by the infrastructure plan:
	management and / or		The end of stage deliverable for Stage 1 (infrastructure planning) at gate G1 is an infrastructure plan which identifies and prioritizes projects and packages against a forecasted budget over a period of at least five years
	procurement strategy	Read SIPDM	The requirements of the National Treasury Standard for Infrastructure Procurement and Delivery Management at gate G1 are as follows:
G3(PR)	Acceptance of the	requirements	4.1.3.1 The infrastructure plan for a portfolio of projects or packages which require implementation shall cover a period of not less than five years. Such a plan shall be:
	prefeasibility report	for stage in	 a) described by the high-level scope of work for each graject, the proposed time schedule, the estimated total graject cost and annual budget requirement, the geographical location, any known encumbrances and estimated timeframes for removing these encumbrances; and
G3(SB)	Acceptance of the	shaded area	 b) slapsd, with all prescribed planning, budgeting, monitoring and reporting requirements. NO Ib:
	strategic brief	Shaueu area	 Stage 1 is complete when the deliverable has been approved by the person or persons designated in the SCM policy (see 4.1.1.2)
G4(FR)	Acceptance of the		 The level of detail contained in this end of stage deliverable needs to be sufficient to enable informed decisions to be made to proceed to the next stage (see 4.1.1.2). The infrastructure glue needs to be reviewed and updated at least once a year.
	feasibility report	Insert data	Title of Infrastructure plan:
G4(CR)	Acceptance of the	Attach end of	Version:
	concept report		Date:
G5	Acceptance of the design	stage	Date of previously approved infrastructure plan for a similar portfolio of projects and packages:
	development report	deliverable	Attach the infrastructure plan to this form
G6A	Acceptance of the	Person making	Approval of infrastructure plan recommended by:
	production information	recommendation	
G6B	Acceptance of the		[name of gerzon]
	manufacture, fabrication	to accept /	(Designation) Signature: Date:
	and construction	approve signs	Infrastructure plan approved by:
	information	Person	
G7	Certification of	designated in	(name of designated gerson - see SCM golicy)
	completion / delivery	SCM policy signs	(Designation) Signature: Date:
G8	Acceptance of handover	acceptance /	
G9	Acceptance of the close	approval	
	out report	appioval	

Infrastructure plan (stage 1)



Strategic brief (stage 3)

End of stage deliverable:

A **strategic brief** which defines project objectives, needs, acceptance criteria and client priorities and aspirations, and which sets out the basis for the development of the concept report for one or more packages

L008:Hospitality and tourism centre with academic and support facilities

- Project objective / site and locality / site context
- Site photographs
- Design response / design assumptions / design strategy
- Early concept: mass model development
- Early concept: section segment analysis
- Early concept: 3D sketches
- Constraints / risk assessment / organisational structure
- Acceptance criteria / output criteria
- Materiality
- Client accommodation schedule per briefing
- Space use categories and area schedule
- Space use summary and efficiency
- Design development: layout plans
- Design development: sections
- Design development :elevations



Current concept

> Illustration of relationship between Building L008 and L0011

SUSTAINABLE TIMBER SHADE DEVICE

Plate 1:

Service yard with storage and office Main circulation spine Teaching kitchens with restaurant kitchens, lounge and bar

Eastern aspect April 10:00am shadow

Sustainable timber shade devices

Also have a control budget

Concept report (stage 4)

End of stage deliverable:

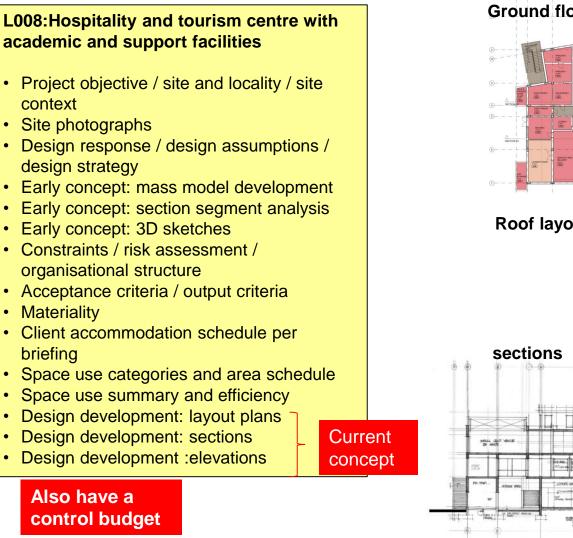
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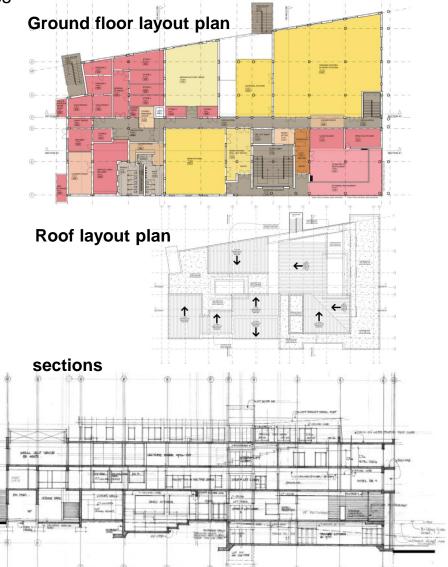
•

context

briefing

A concept report which establishes the detailed brief, scope, scale, form and control budget, and sets out the integrated concept for one or more packages





Concept report (stage 5 and 6)

End of stage deliverables: Stage 5: Design development

A design development report which develops in detail the approved concept to finalise the design and definition criteria, sets out the integrated developed design, and contains the cost plan and schedule for one or more packages

Stage 6A Production information:

Production information which provides the detailing, performance definition, specification, sizing and positioning of all systems and components enabling either construction (where the constructor is able to build directly from the information prepared) or the production of manufacturing and installation information for construction

Stage 6B Manufacture, fabrication and construction information:

Manufacture, fabrication and construction information produced by or on behalf of the constructor, based on the production information provided for a package which enables manufacture, fabrication or construction to take place

Note: Outline specifications need to be in sufficient detail to enable a view to be taken on the operation and maintenance implications of the design and the compatibility with existing plant and equipment Design development report – what is intended to be delivered



Record information – what was delivered

Stage 5: Design development

. . . .

Stage 8: Handover



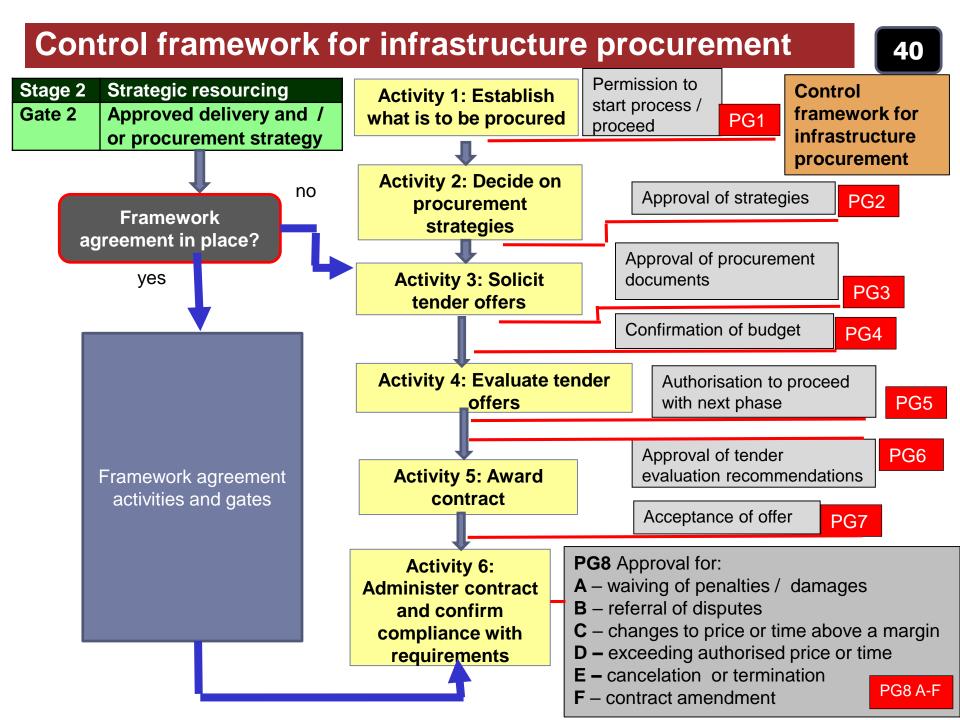
Acceptance of the design development report recommended by:

We the undersigned recommend the acceptance of the abovementioned design development report subject to the attached:

•conditions, if any; and

•portions of the production information or manufacture, fabrication and construction information that is developed during Stage 6 (Design documentation) being submitted for acceptance prior to their issue to the contractor or acceptance by the contract manager, respectively.

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Procurement gates

Activity		Sub-Activity (see Table 3 of the standard)		Person assigned responsibility to do take key action
1*	Establish what is to be procured	1.3 PG1	Obtain permission to start with the procurement process	[designated person e.g. project director or programme manager]
2*	Decide on procurement strategy	2.5 PG2	Obtain approval for procurement strategies that are to be adopted including specific approvals to approach a confined market or the use of the negotiation procedure	[designated person e.g. project director]
3 Solicit tender offers	O all'ait tan dan	3.2 PG3	Obtain approval for procurement documents	Procurement documentation committee
		3.3 PG4	Confirm that budgets are in place	[designated person e.g. programme or financial manager]
4	4 Evaluate tender offers		Obtain authorisation to proceed with next phase of tender process in the qualified, proposal or competitive negotiations procedure	[designated person]
	tender oners	4.7 PG6	Confirm recommendations contained in the tender evaluation report	Tender committee [or bid adjudication committee]
5	Award contract	5.3 PG7	Award contract	Authorised person
		5.5 GF1	Upload data in financial management and payment system	[designated person]

* Applies only to goods and services not addressed in a procurement strategy developed during stage 2 (strategic resourcing) of the control framework for the management of infrastructure delivery

Procurement gates (continued)

Activity		Sub-Activity		Person assigned responsibility to do take key action		Contract manager must apply the provisions of the contract – higher authority required to	
		6.4 PG8A	Obtain approval to waive penalties or low performance damages.	[designated person]	•	waive amounts Those actively involved in the	
		6.5 PG8B	Obtain approval to notify and refer a dispute to an adjudicator	[designated person]	 	project should not be empowered to initiate disputes	
		6.6 PG8C	Obtain approval to increase the total of prices, excluding contingencies and price adjustment for inflation, or the	[designated person or designated persons]	 	DesignationSpecified percentage increasePricesTimeContract2%	
6	6 Administer contracts and confirm compliance	time for completion at the award of a contract or the issuing of an order up to a specified percentage			managerAProject10%director20%Accounting20%30%		
with	with requirements	6.7 PG8D	Obtain approval to exceed the total of prices, excluding contingencies and price adjustment for inflation, or the time for completion at award	[accounting officer or accounting authority or, depending upon the value, a		officer's / authority's delegate Example	
			of a contract or the issuing of an order by more than 20% and 30%, respectively	appropriately delegated authority]	•	Those responsible for a portfolio of projects need to be alerted to these overruns	
		6.8 PG8E	Obtain approval to cancel or terminate a contract	Authorised person		Accounting officer / authority	
		6.9 PG8F	Obtain approval to amend a contract	Authorised person		or their delegate	

Control templates for infrastructure procurement

Templa	tes for procurement gates and approvals
A1	Approval to apply the negotiated
	procedure
A2	Approval to apply the confined market
	procedure
PG1	Permission to start the procurement
	process
PG2	Approval of the procurement strategy
PG3	Approval of the procurement document
PG4	Confirmation of the budget
PG5	Authorisation to proceed to the next phase
	of the procurement process
PG6	Approval of tender evaluation committee
	recommendations
PG7	Acceptance of offer
PG8A	Approval for waiving of penalties /
	damages
PG8B	Approval for referral of disputes for
	resolution
PG8C	Approval for increases in the total of the
	prices or time for completion up to a
	specified percentage
PG8D	Approval for increases in the total of the
	prices or time for completion above a
	specified percentage
PG8E	Approval to cancel or terminate a contract
PG8F	Approval for an amendment to the contract
Annex-	Procurement documentation review report
ure A	

Templates for framework agreement gates

FG1	Confirmation of reasons for not inviting		
	quotations from amongst contractors		
	having the same scope of work		
FG2	Approval of the procurement document		
FG3	Confirmation of budget		
FG4	Authorisation for the issuing of an order		
Annex Procurement documentation review			
ure A report for an order			
Te	Template for financial system gate		
FS1	Financial data associated with a		
	contract or an order issued in terms of a		
	framework contract		

ISO 6707-2, Buildings and civil engineering works – vocabulary – Part 2: Contract terms

Contingency sum – sum of money budgeted for or included in a contract to cover construction work that can be required but cannot be foreseen or predicted with certainty

Provisional sum – sum of money that is included in a contract for work **that is foreseen but cannot be accurately specified at the time that the tender documents are issued**

Cost control – technique of financial management that involves monitoring cost in relation to the project budget

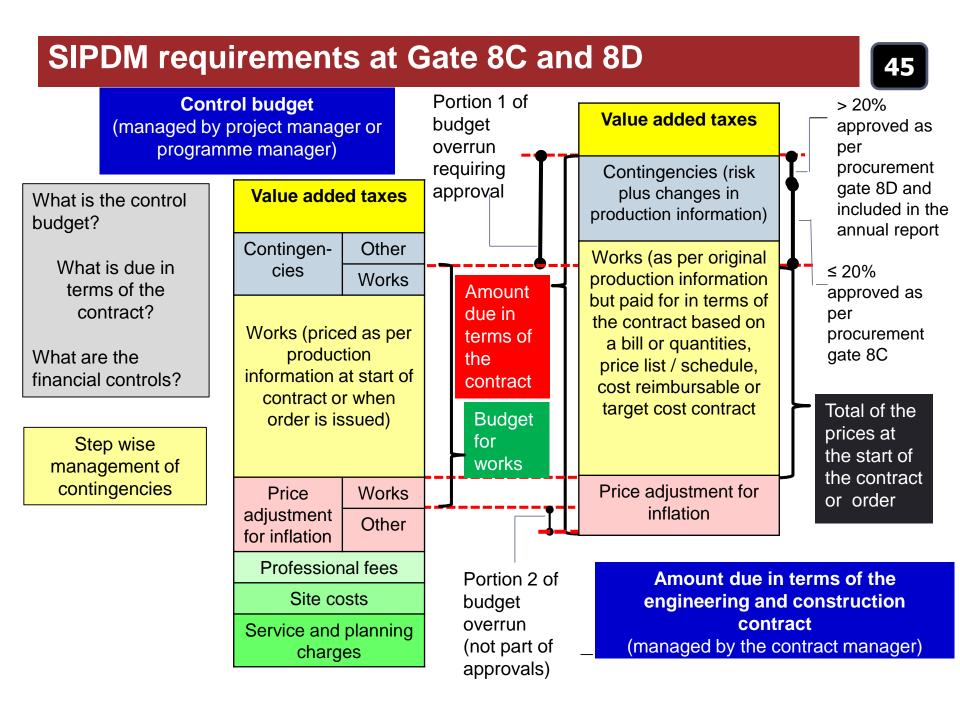
14.5.9 Budgetary items

14.5.9.1 Provision for budgetary items in procurement documents shall as far as possible be avoided. Assumptions should rather be stated in the pricing data so that they can be priced and adjusted in terms of the contract, should these assumptions be incorrect. Where unavoidable, estimates of the likely costs may be included in the contract to cover identified work or services to be performed by a subcontractor appointed in terms of the contract.

14.5.9.2 No provision for contingencies or price adjustment for inflation shall be made in the pricing data or included in the contract price at the time that the contract is awarded or an order is issued.

Contingencies are not owned by the contract but are spread across the programme!

The stepped approach to approvals encourages the development of alternative ways of dealing with cost overruns

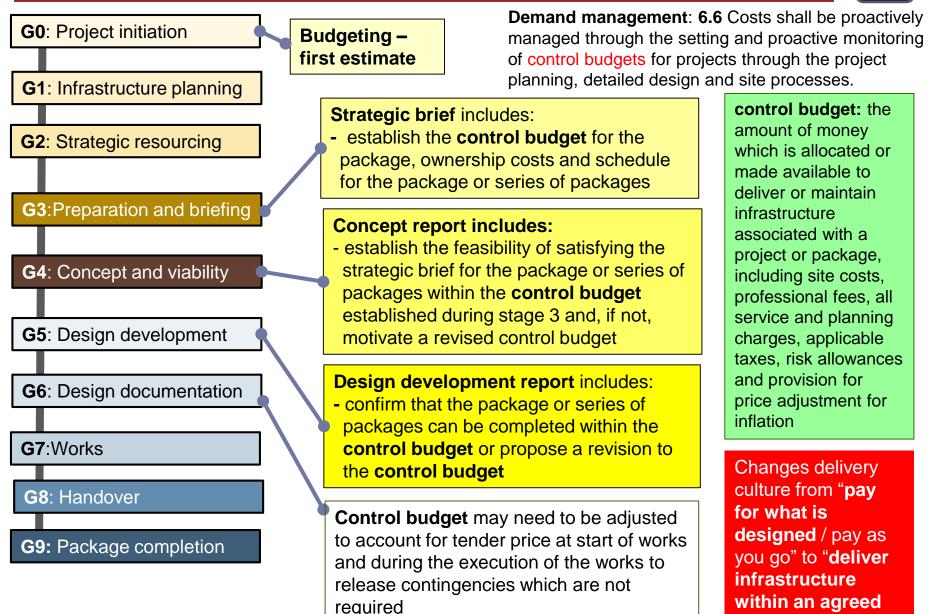


LOGO	FS1: Financial data as or an order issued in			
				Approvals at gate
Financial data associated with	the contract or order			8C and gate 8D
Component		Rand	Total	_
Total of the prices at the awa issuing of the order	ard of the contract or the	R		required to authorise the
Estimated price adjustment	for inflation	R		increasing of this
Contingency provision (%)	R		this amount
Subtotal		•	R	
Vat			R	
Total of the prices			R	
· · ·				
Recommendation for uploadin	g on the financial system	made by:		
[name of person]				
[Designation] Signature: Date:				
Acceptance for uploading made by:				
[name of designated person –	see SCM policy]			
[Designation]	Signature:	Date):	

Demand management through control budgets

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budget"



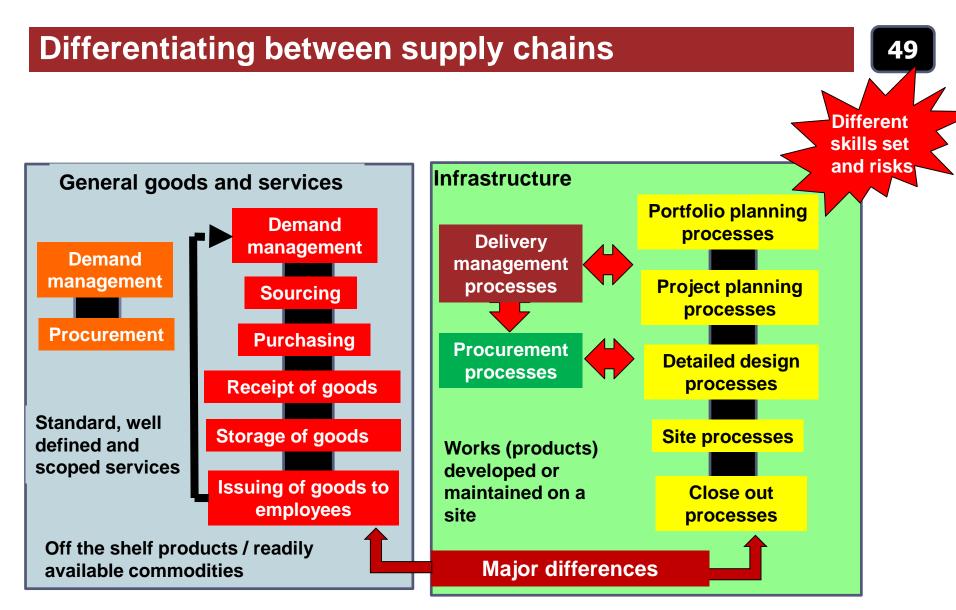
Delivery management

Infrastructure in the form of construction works may be purchased as existing functional entities or as a completed product. In most instances the acquisition of new construction works requires that products be developed on a site necessitating the procurement and delivery management of a network of suppliers, including subcontractors. Similarly, procurement and delivery management is required to alter, refurbish or rehabilitate existing construction works.

Delivery management is the organisation, administration, and supervision of processes which when combined into a comprehensive plan, provides the business and technical functions needed to successfully achieve the required project outcomes.

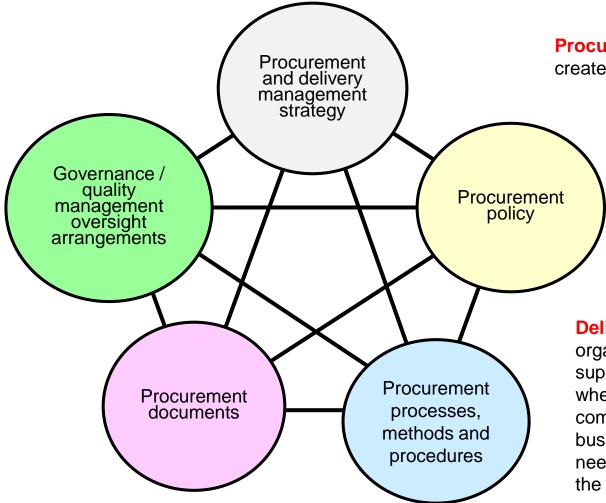
Procurement and delivery management outcomes in construction works projects are sensitive to the decisions made during the planning, design and execution of such projects as well as during procurement processes. Procurement yields the necessary resources to delivery projects while delivery management deals with the management of projects which collectively delivery strategic objectives and realise anticipated benefits.

Rigorous governance and quality management arrangements are required to create the business value and to minimize the risks associated with the delivery of new construction works and the alteration, refurbishment or rehabilitation of existing construction works so that objectives can be achieved with reasonable assurance and minimal surprises



Goods and services consumed by officials in the discharge of their duties Infrastructure is required for officials to perform their duties or create or maintain economic infrastructure which provides improvements or efficiencies in services, production or export capabilities

Procurement system for infrastructure



Delivery management is the organisation, administration, and supervision of processes which when combined into a comprehensive plan, provides the business and technical functions needed to successfully achieve the required project outcomes.

Procurement is the process which creates manages and fulfils contracts

Role players in the delivery of infrastructure

Client team

Client

As **sponsor** initiates, commissions and pays for the project, owns the business case and leads the project

As implementer

- oversees
 - management of scope;
 - programmes to realise specific benefits;
 - projects which progress implementation;
 - $\circ\,$ budgets and cash flows;
 - procurement of implementation resources;
 - the payment of contracted persons and the accounting for expenditure;
 - compliance with legislation;
 ato
 - o etc.
- provides client direction to and accepts the outputs of the delivery team
- leads engagements with stakeholders and utilities

• etc

Delivery team

Project manager – delivers the development and implementation of the project

Design team – integrates client's requirements into workable solutions

Supply team (manufacturer and constructor)– manufacture or provide new infrastructure or rehabilitate, refurbish or alter existing infrastructure

Support services – provide professional support services in areas such as health and safety, environmental compliance, cost control, geotechnical investigations, traffic studies etc.

Stakeholders

Treasury – budgets for and controls financial expenditure

Custodian - the caretaker of infrastructure throughout its lifecycle

End user – the beneficiary of the business case

Affected communities – the communities that are impacted upon by the projects

Regulators and utilities – have interfaces with the works

Delivery team (common roles and responsibilities)

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One person may perform more than one role / function **Project manager** delivers the development and implementation of the project and administers professional service contracts on behalf of the client

Procurement leader oversees the development of the procurement documents and manages the procurement process

> Manufacturer / Constructor manufactures or provides new infrastructure or rehabilitates, refurbishes or alters existing infrastructure

> > **Contract manager**

administers a contract

or an order on behalf

of the employer

Supervising agent confirms that the works are proceeding in accordance with the provisions of the contract Health and safety agent assumes statutory responsibilities imposed by the Construction Regulations and leads health and safety risk management compliance processes

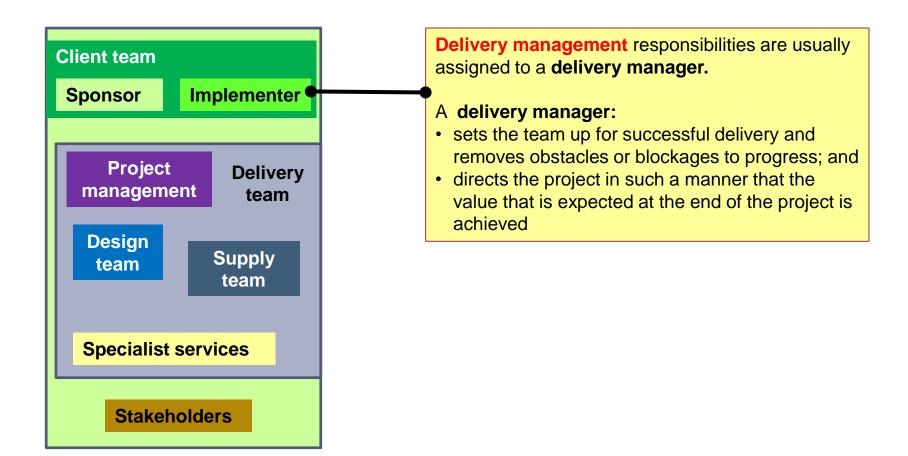
Lead designer establishes and refines the design approach or solution so that it achieves the required standards and is co-ordinated within the project team

> Designer provides design or conditional assessment services

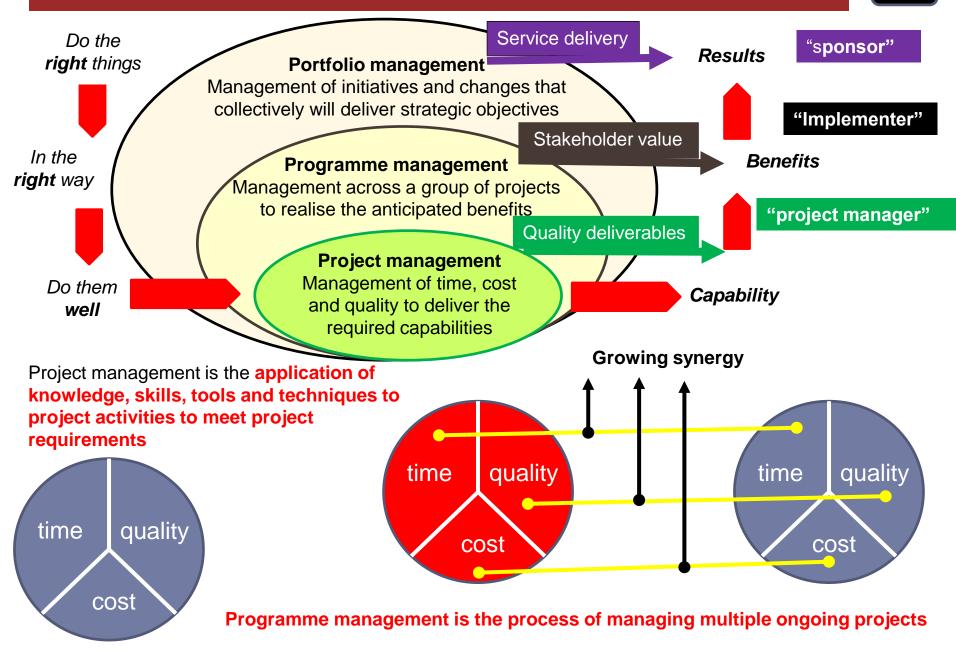
Project leader leads and directs the design team in a non-technical role including the monitoring and integration of the activities, development and maintenance of a schedule, monitoring of progress and facilitation of the client acceptance of an end of stage deliverable

Cost controller provides independent and impartial estimation and control of the cost of constructing, rehabilitating and refurbishing infrastructure

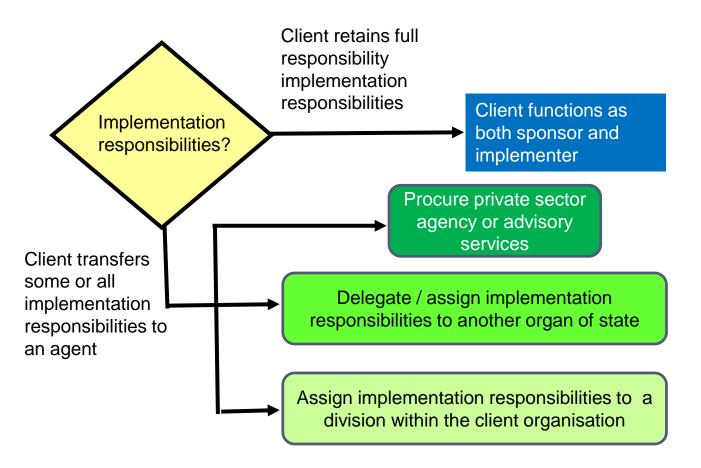
Delivery management options



Project, programme and portfolio management



A client needs the resources to perform the implementation function



Institutional arrangements (agency agreement)

5.2 An agency agreement shall be entered into between organs of state where responsibilities for implementation are assigned or delegated. Such an agreement shall:

- establish principles and requirements relating to the recovery of costs associated with the rendering of the service, claims for payments made on an agency basis including the release of retention sums, the settling of claims for payment and the documentation required to accompany such claims; and
- include a service delivery agreement which as relevant sets out at least the following:
 - o overall aims, objectives and priorities;
 - o governance structures;
 - reporting requirements;
 - the scope of the services to be performed by the implementer during each financial year;
 - the projects and packages which are included in the infrastructure plan which are to be delivered and the time frames for doing so;
 - the roles and responsibilities of the parties to the agreement, including requirements for the engagement and management of stakeholders;
 - o delegations to the implementer to accept end of stage deliverables on an agency basis;
 - o contributing resources including human resources; and
 - o dispute resolution procedures.
- **5.3** The agency agreement shall be reviewed annually and amended or revised as necessary.

5.4 The implementer's supply chain management system shall be used to procure goods or services or any combination thereof for infrastructure covered by the agency agreement



Framework agreements

framework agreement: an agreement between an organ of state and one or more contractors, the purpose of which is to establish the terms governing orders to be awarded during a given period, in particular with regard to price and, where appropriate, the quantity envisaged

order: an instruction to provide goods, services or any combination thereof under a framework agreement

14.3.4 Orders:

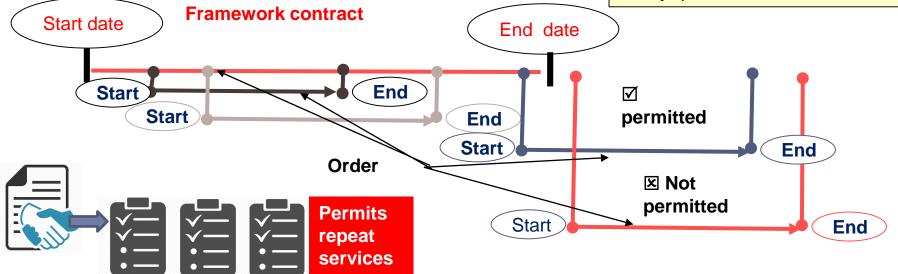
- shall cover only goods or services or any combination thereof, falling within the scope of work associated with the agreement;
- may not be issued after the expiry of the term of the framework agreement; and
- may be completed even if the completion of the order is after the expiry of the term

Framework agreements

Dictionary definition

- Sum of money for which something is purchased
- The actual cost of acquiring something calculated according to some specific measure or an estimate of what the transaction is worth

Allows the employer to procure on an as-instructed basis (call offs) over a set term without committing to any quantum of work



Shift in thinking regarding works

Current paradigm

Client appoints a professional team to design the works

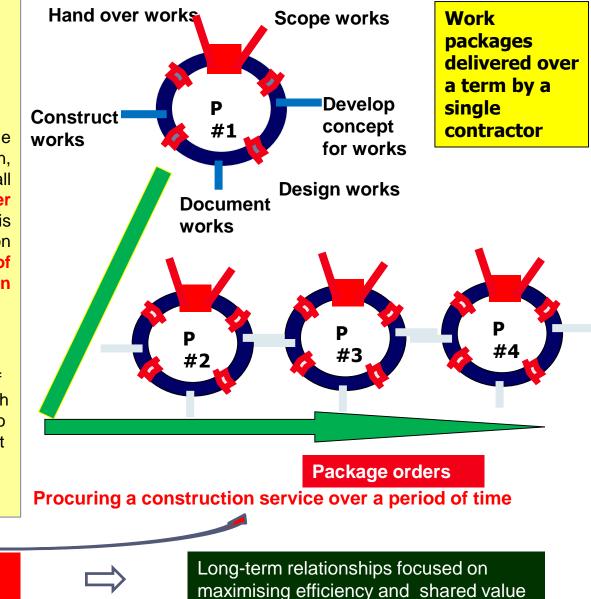
Open tenders are called once the production information has been finalised by the professional team

(production information which provides the performance definition. detailing, specification, sizing and positioning of all systems and components enabling either construction (where the constructor is able to build directly from the information prepared) the production or of installation manufacturing and information for construction)

Contractor prices the production information

Contractors are contracted on the basis of a bills of quantity for a single project (which may or may not include budgetary items to cover aspects of the works which have not been finalised)

Procuring a particular works



Short-term "hit-and-run" relationships focused on one-sided gain

Culture change

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Principles associated with the putting in place of framework agreements

14.3.1a) Framework agreements may be entered into with contractors by inviting tender offers to **enter into a suitable contract** for the required work, using stringent eligibility and evaluation criteria to ensure that **contracts are entered into with only those contractors who have the capability and capacity** to provide the required goods, services or works

14.3.2 The term of a framework agreement is not to exceed:

- three years in the case of all organs of state other than a major public entity, a national government business enterprise or a provincial government business enterprise; or
- **four years** in the case of a major public entity, a national government business enterprise or provincial government business enterprise

14.3.3 Framework agreements that are entered into are **not to commit an organ of state to any quantum of work beyond the first order**, or **bind the employer to make use of such agreements** to meet its needs. The employer **may approach the market** for goods or services or any combination thereof, whenever it considers that **better value** in terms of time, cost and quality may be obtained.

Zero value contract
Framework agreements that are entered need to set out:

the terms which are applicable for the term of the contract;
the manner in which orders are instructed;
the scope of work covered by the agreement; and
the basis by which contractors will be remunerated for work performed in terms of an order, if and when such an order is issued.

Value created through issuing of orders which are read together with the framework contract.

Framework agreements covering the same scope of work

Clause **14.3.1b)** permits a limited number of framework agreements to be entered into based on projected demand and geographic location

14.3.5 The issuing of orders with a number of framework contractors covering the same scope of work may be made **with and without requiring competition** amongst framework contractors. Where competition is required amongst framework contractors, it needs to be conducted in a non-discriminatory manner such that competition is not distorted.

14.3.6 Competition amongst framework contractors for orders need to take place where there is **no justifiable reason for issuing an order to a particular framework contractor** such as:

- a) the framework contractor provided the most economical transaction when the financial parameters included in the contract are applied and has the capacity to deliver;
- b) the required goods, services or works cannot technically or economically be separated from another contract or order previously performed by a specific contractor;
- c) the service or works being instructed **are largely identical to work previously executed** by that contractor;
- d) the value of the order is less than the threshold for the **quotation procedure**;
- e) the **schedule** for delivery necessitates that each of the framework contractors be issued with orders on a continuous basis; or
- f) capacity to execute the order;

Can have one framework agreements for a defined scope Ideally not more than 3 but certainly not more than 5

The inviting of quotations from amongst framework contractors covering the same scope of work is not the default option.

Used only where there are no justifiable reasons for not doing so

NB only enter into a limited number of framework agreements covering the same scope of work

Use of a framework agreement by another organ of state

Use of an organ of state's framework agreement by another organ of state

An organ of state may request in writing to make use of one or more framework contracts entered into by another organ of state. Such a request, signed by the accounting officer or accounting authority of that organ of state, shall:

a) outline the scope and anticipated quantum of work associated with the work that is required;

- b) provide a motivation for the use of the framework agreement; and
- c) detail the benefit for the state to be derived from making use of the framework agreement.

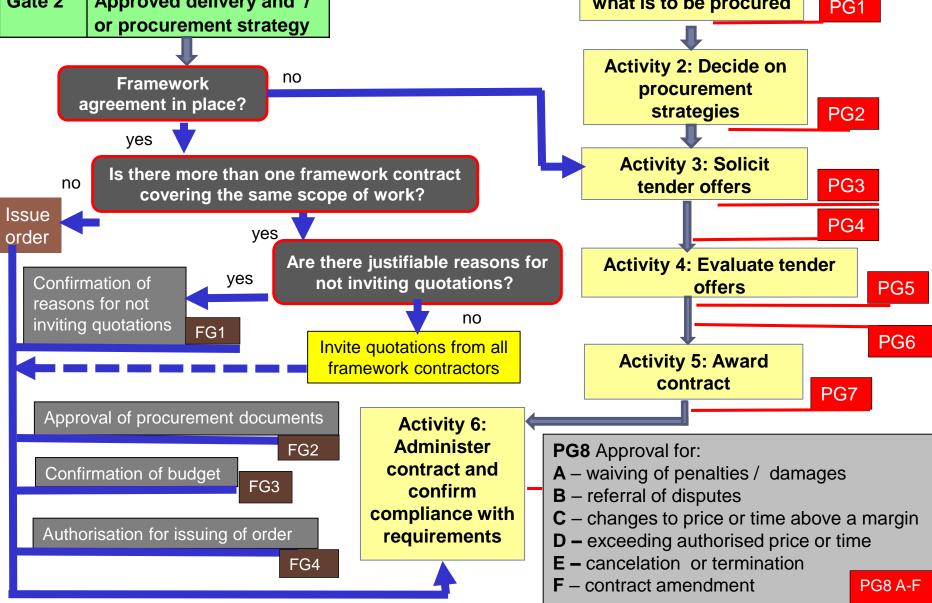
The accounting officer or accounting authority may approve a request made to make use of the organ of state's framework contract, conditionally or unconditionally, if:

- a) the framework agreement was put in place following a competitive tender process;
- b) confirmation is obtained that the framework contract is suitable for the intended use and the required goods, services and works fall within the scope of such contract;
- c) the framework contractor agrees in writing to accept an order from that organ of state;
- d) the organ of state undertakes to pay the contractor in accordance with the terms and conditions of the agreement; and
- e) the term of the framework agreement does not expire before the issuing of the required orders.

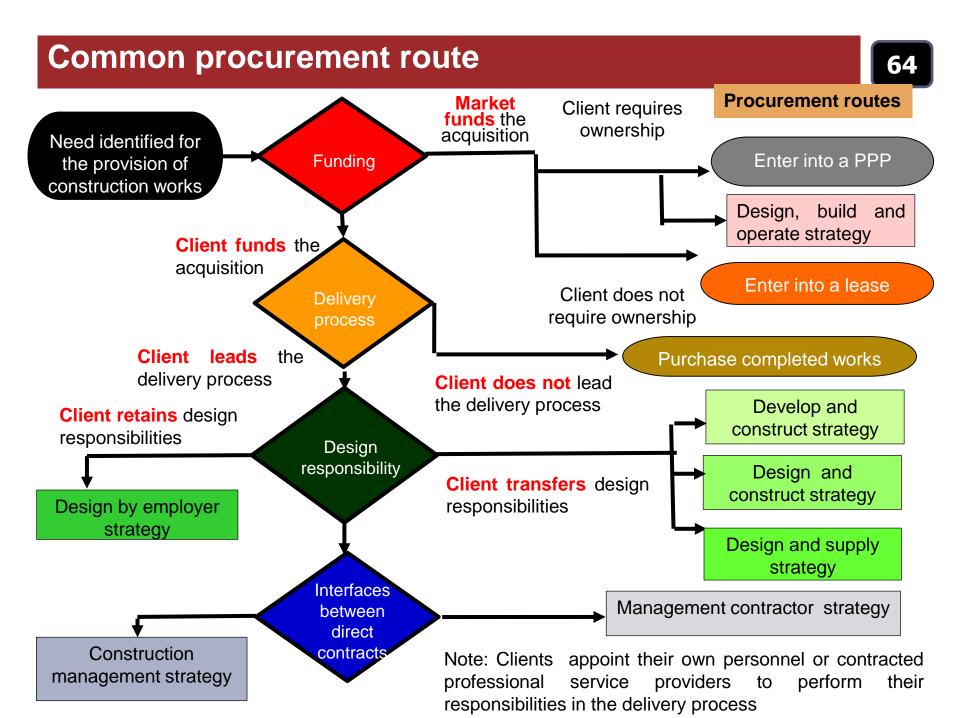
Can include the following in the contract:

10.1	The Employer is:
	a) XXXX as represented by
	Address ; or
	b) YYYYY as named in and represented by the person as stated in a Package Order.

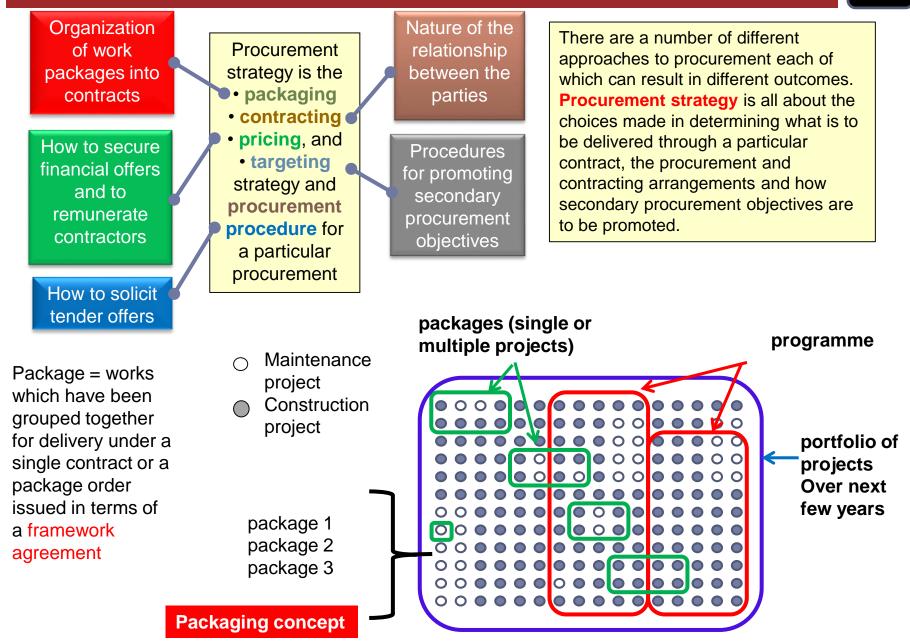
Control framework for framework agreements 62 Stage 2 Strategic resourcing Gate 2 Approved delivery and / or procurement strategy



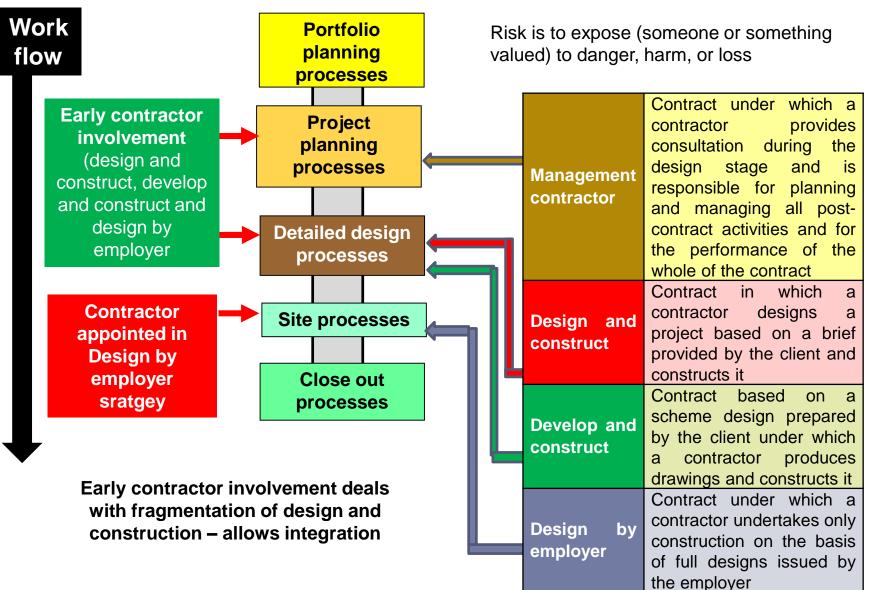
Activit	y	Key action	Person assigned responsibility to perform key action
1 FG1	Confirm justifiable reasons for selecting a framework contactor where there is more than one framework agreement covering the same scope of work	Confirm reasons submitted for not requiring competition amongst framework contractors or instruct that quotations be invited	[designated person]
3 FG2	Obtain approval for procurement documents	Grant approval for the issuing of the procurement documents	[designated person]
4 FG3	Confirm that budgets are in place	Confirm that finance is available so that the order may be issued	[designated person e.g. programme manager or financial director]
6 FG4	Authorise the issuing of the order	If applicable, review evaluation report and confirm or reject recommendations. Formally accept the offer in writing and issue the contractor with a signed copy of the order	Authorised person



Procurement strategy

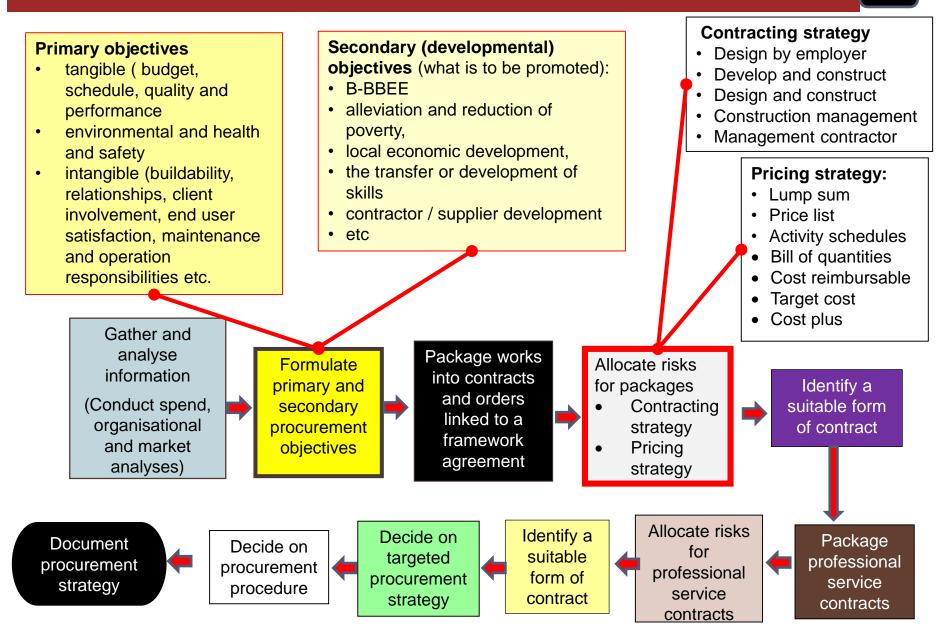


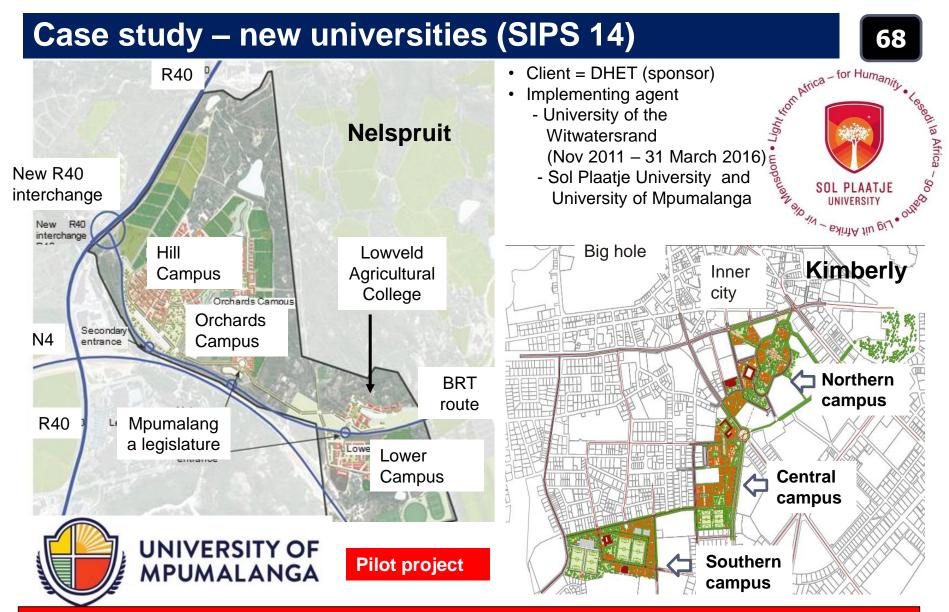
Allocation of responsibilities (risks) between Employer and Contractor



Framework for developing a procurement strategy







Wits adopted and implemented the draft National Treasury Standards for a Construction Procurement System and an Infrastructure Delivery Management System issued for public comment during November 2012 implemented (i.e. the base documents for the SIPDM)

Case study – budgets and timelines

- Wits appointed to project manage and resource the spatial and physical planning and development for two new universities -November 2011
- Interim university councils appointed July 2013 ٠
- President announces seats for universities September 2013
- First intake of students January 2014 ٠
- Final university council appointed August 2014 ٠
- Second intake of students January 2015 •
- Third intake of students January 2016 ٠
- Wits hands over the management of the project to the new ٠ universities' staff – 31 March 2016

Client team

DHET - initiates, commissions and pays for the project

Wits Director Campus Planning and Development / DHET project management core team (full time and part time contracted resources)

- Programme manager
- Project manager
- Procurement specialist
- **ICT** specialist
- Spatial development planner Engineering infrastructure specialist
 - Social development facilitator

	Financial year	R m
	2011/12	R50 m
	2012/13	R81,3 m
nent	2013/14	R117,1 m
	2014/15	R 383 m
	2015/16	R 1.32b
	2016/17	R1.3b

Delivery team

No procurem

before seats announced!

> Project manager - delivers the development and implementation of the project

Design team - integrates client's requirements into workable solutions

Supply team (manufacturer and constructor)- manufacture or provide new infrastructure or rehabilitate, refurbish or alter existing infrastructure

Sol Plaatje University – Central Campus

2000000 0000000

William Pescod (school) 2014

SOL PLAAT

Building 1: 2016 Approx. Bulk Area: 6400m2 Residences & Facilities Management

> Building 2: 2016 Approx. Bulk Area: 8753m2 Student Residences, Canteen, Retail, Academic Offices, Exams Hall

Building 6: 2017 Approx. Bulk Area: 6350m2 Student Residences Building 3: 2016 Academic Facilities, offices Approx. Bulk Area: 3680m2

Building 4: 2016/17 Partial Completion in 2016 Resource Centre & Library Approx. Bulk Area: 9130m2

> Building 5: Approx. Bulk Area: 3926m2 Lecture Venues, Academic Offices

70



Sol Plaatje University – Central Campus

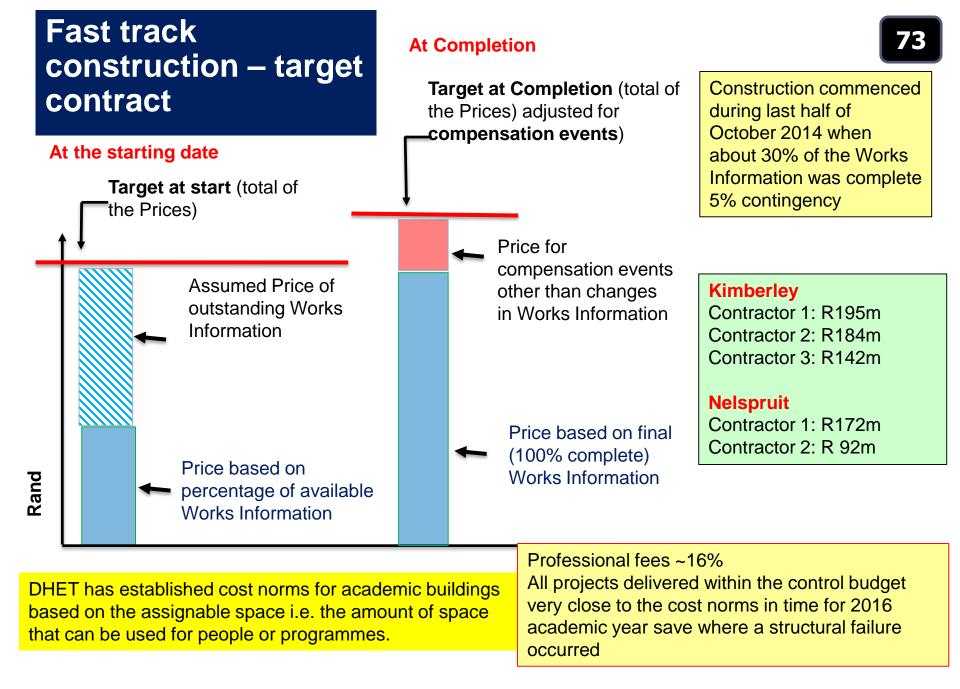


Aerial View of Construction Site

71

Sol Plaatje University – Central Campus





Buildings completed for the start of the 2016 academic year





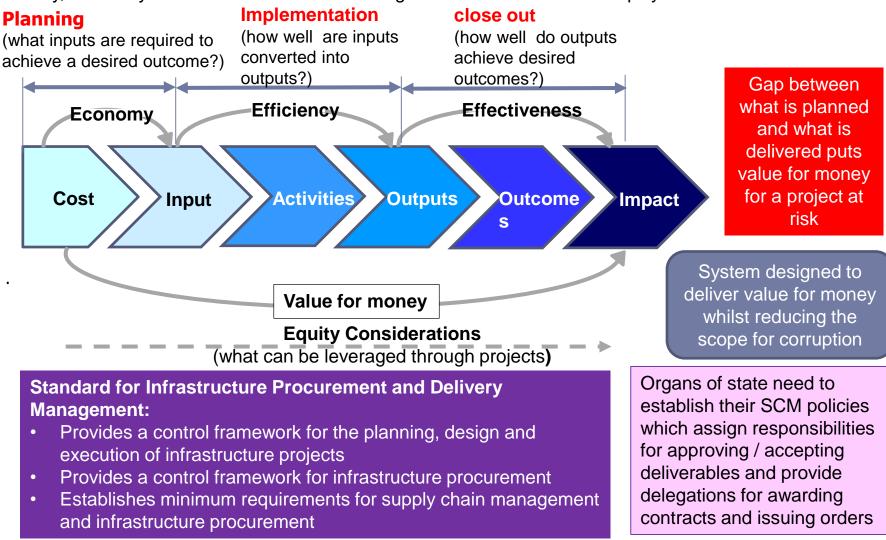


On time within budget and to the right quality

This was achieved within the constraints of the public sector SCM constraints!

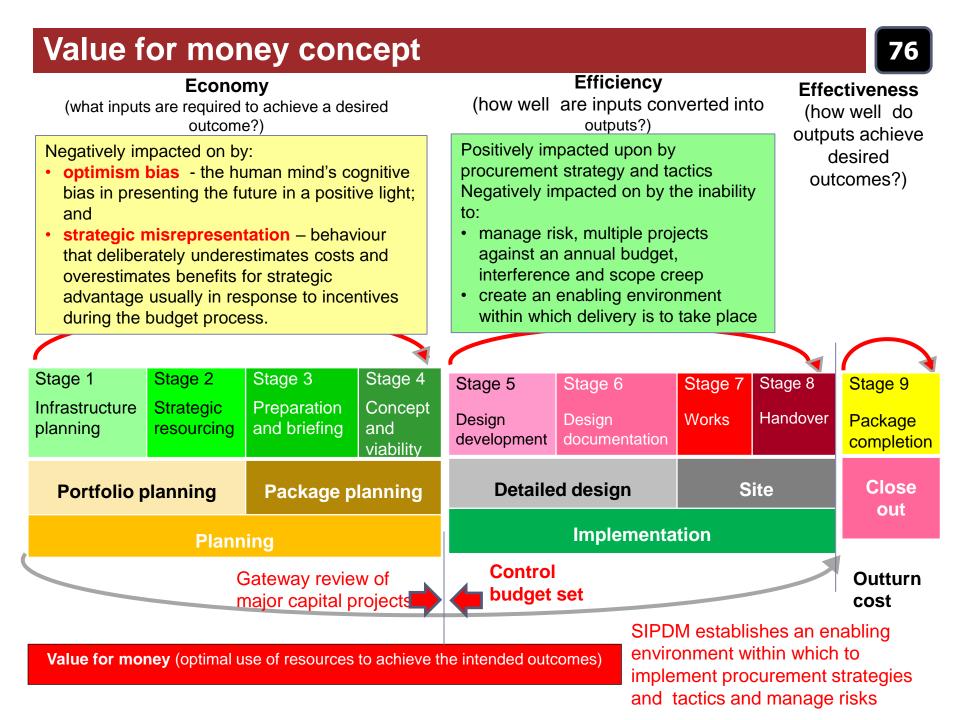
Value for money concept

Value for money may be regarded as **the optimal use of resources to achieve the intended outcomes**. Value for money is about striking the balance between three "E's" Linkages with economy, efficiency and effectiveness" whilst being mindful of a fourth "E" – equity.



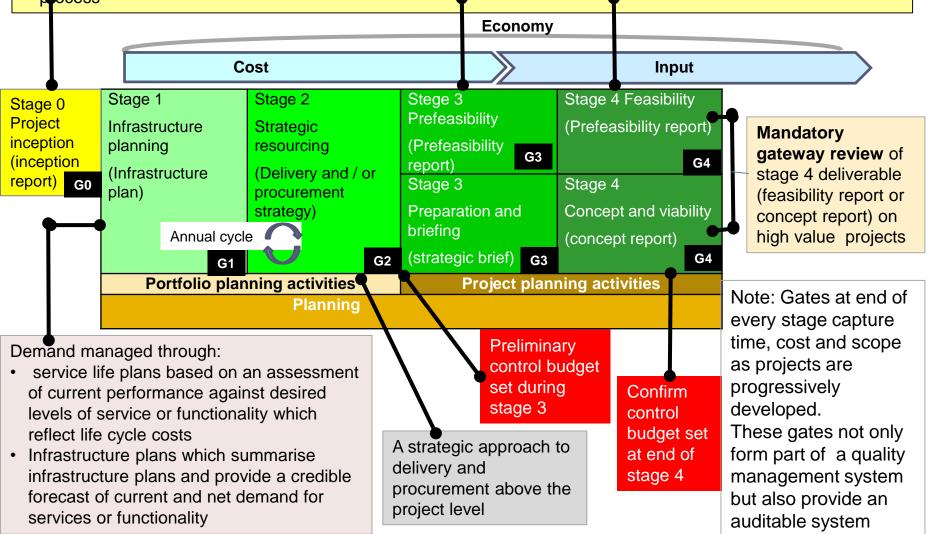
SIPDM provides tools and techniques for performance improvement in delivering value for money

75



Approval of high-value national and provincial major capital projects

- Cabinet or the executive council approves inception report (stage 0) and feasibility / concept report (stage 4)
- Minister or the MEC approves prefeasibility report
- Relevant treasury makes recommendations / comments which are taken into account during the approval pocess



Questions







Acknowledgement

- many of the slides in this presentation are based on those prepared by the School of Construction Economics and Management, University of the Witwatersrand, Johannesburg
- case study information obtained from the DHET New Universities Project Management Team / Campus Planning and Development Unit, University of the Witwatersrand

Queries - Email: cpo@treasury.gov.za

Credits

More information http://ocpo.treasury.gov.za/About_Us/Strategic _Areas/Pages/Infrastructure-Procurement.aspx





Department: National Treasury **REPUBLIC OF SOUTH AFRICA**

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Consulting Engineers South Africa 2 ECSA CPD credit