

# Infrastructure report to the Interest Bodies & Unions

13 April 2023



basic educ  
Department:  
Basic Education  
REPUBLIC OF SA



# Purpose

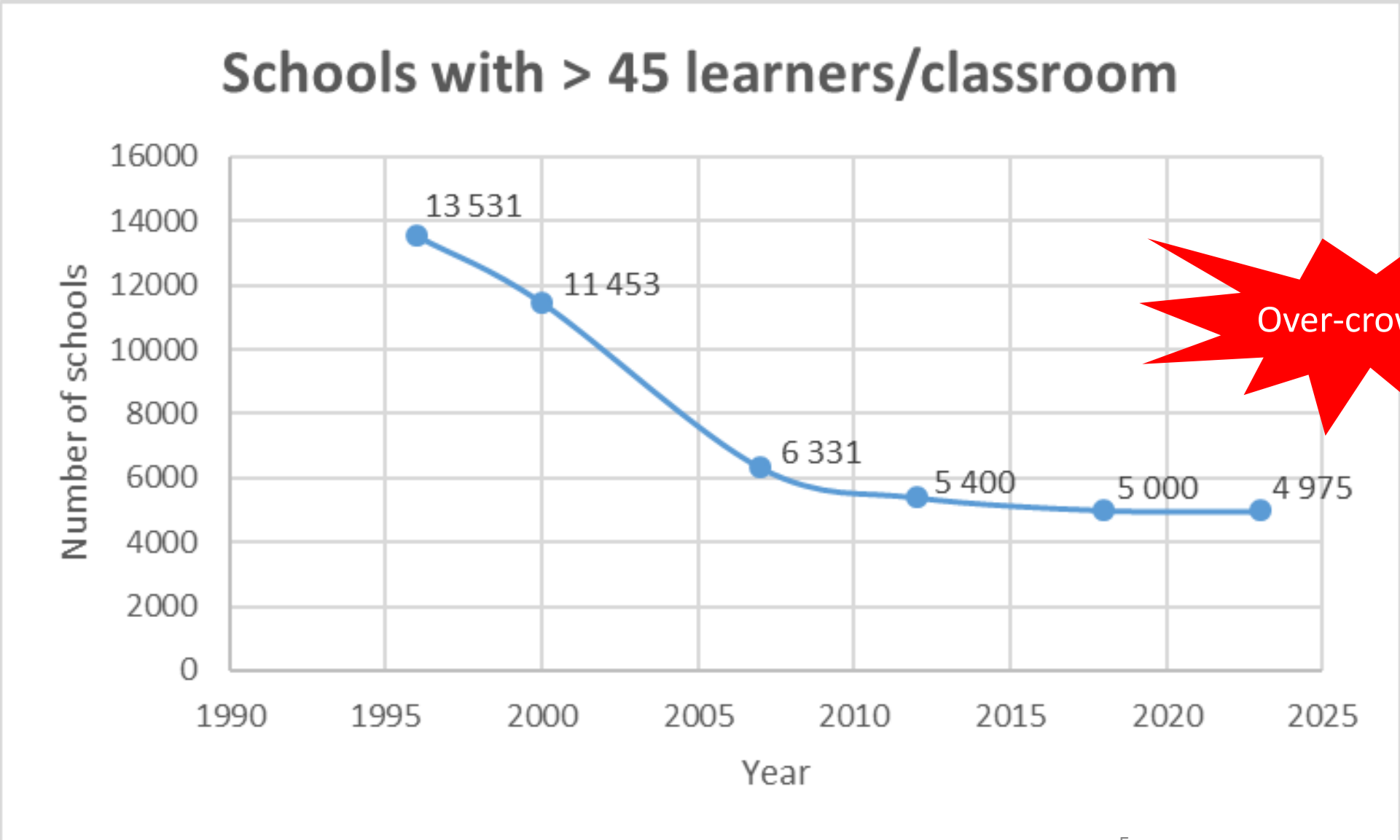
- To share information with Interest Bodies & Unions:
  - Progress made on the eradication of school infrastructure backlogs
  - Current status of ASIDI & SAFE programmes
  - Current challenges
  - Proposed plans
- To invite discussion

# 1. High level context

# Data sources

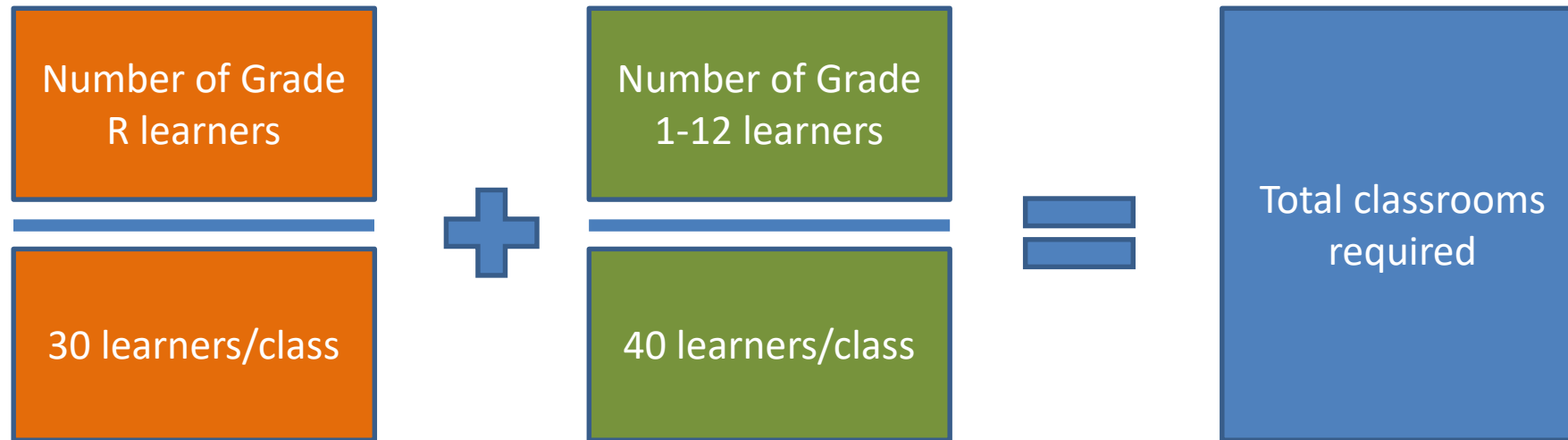
1. School Register of Needs **1996**
2. School Register of Needs **2000**
3. National Education Infrastructure Management System **2007**
4. ASIDI initiation **2011**
5. SAFE initiation **2018**
6. Current status **2023**

# Backlog eradication



Over-crowding

# CLASSROOM BACKLOG : Simplistic assessment



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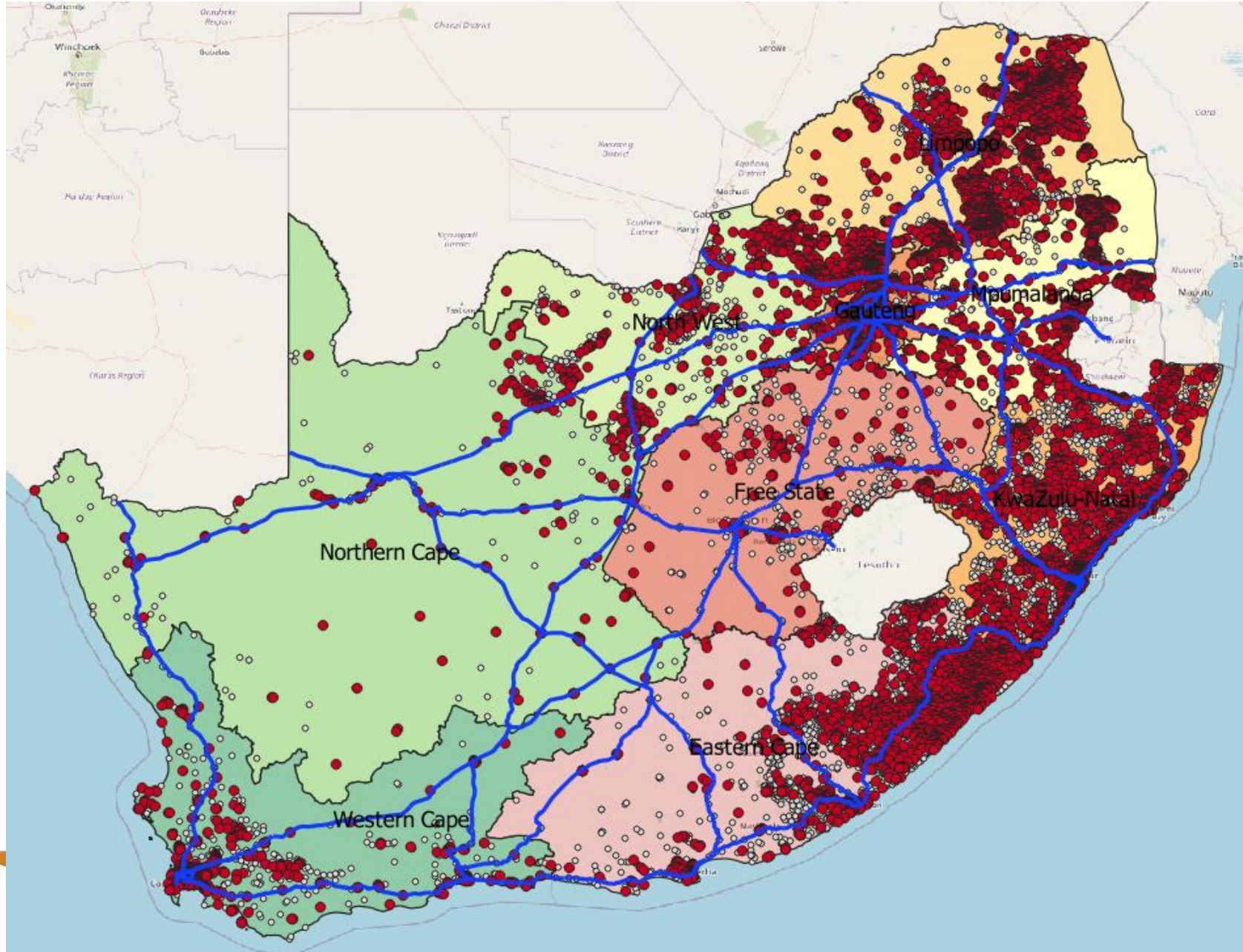
Province	Total number of schools	Number of schools with backlog in total classrooms	Number of additional classrooms required	Estimated project cost (Incl VAT)
EC	5 318	1 215	7 351	R5 696 000 888
FS	1 014	213	1 130	R980 646 975
GT	2 212	1 173	11 262	R8 888 958 925
KZN	5 797	1 341	7 557	R4 420 548 825
LP	3 684	1 549	12 496	R7 296 807 788
MP	1 654	1 012	10 823	R6 123 697 388
NC	556	260	1 766	R1 237 774 038
NW	1 551	720	9 623	R5 393 558 363
WC	1 460	650	8 035	R4 460 772 663
<b>Grand Total</b>	<b>23 246</b>	<b>8 133</b>	<b>70 043</b>	<b>R44 498 765 850</b>

8 000  
Impacted schools ?

70 000  
Classrooms ?



# RSA OVERCROWDING



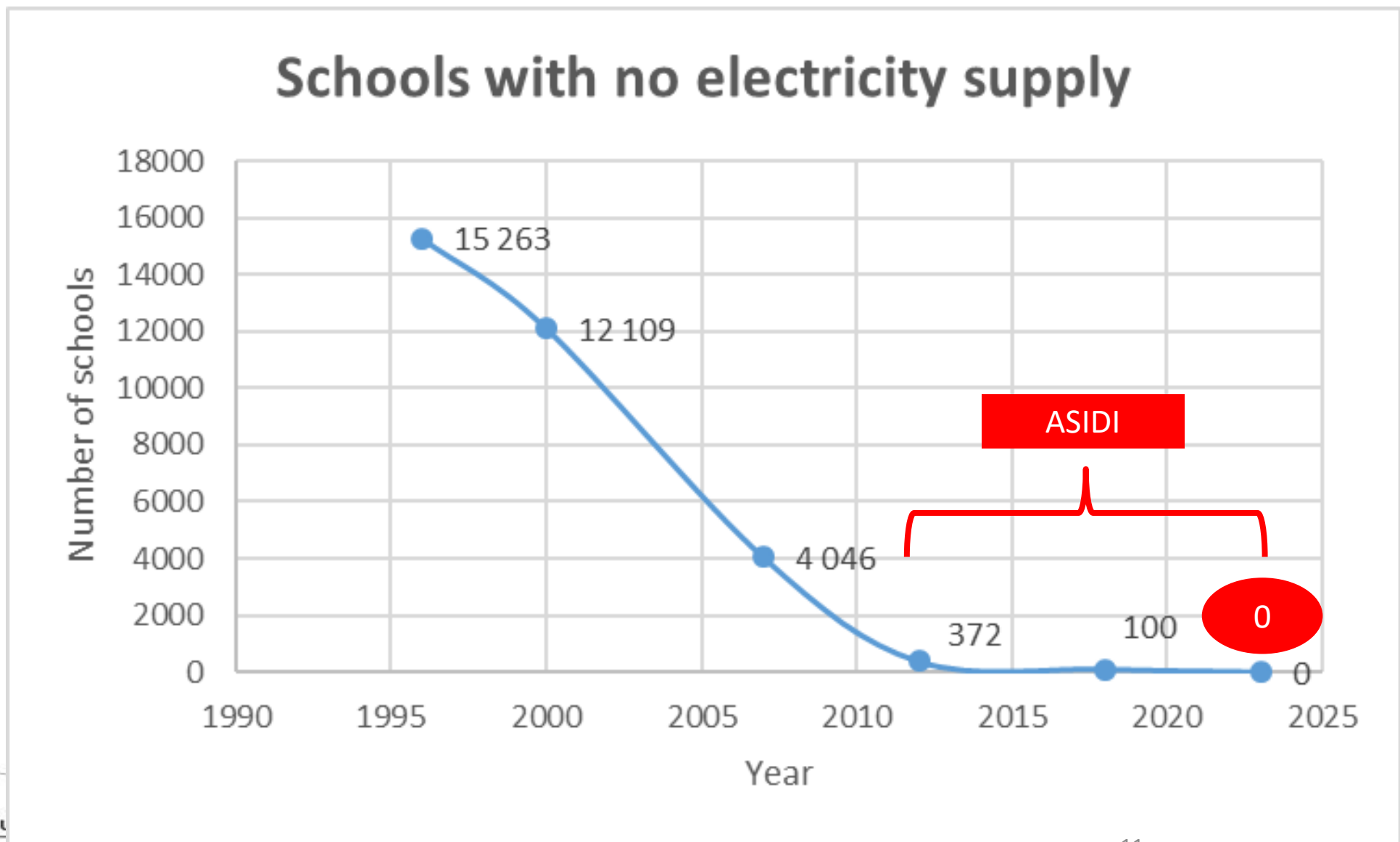
# Increase in learners 2018-2021

1. EC : **7** new schools required
2. FS : **20** new schools required
3. GP : **162** new schools required
4. KZN : **73** new schools required
5. LP : **74** new schools required
6. MP : **89** new schools required
7. NC : **9** new schools required
8. NW : **32** new schools required
9. WC : **123** new schools required

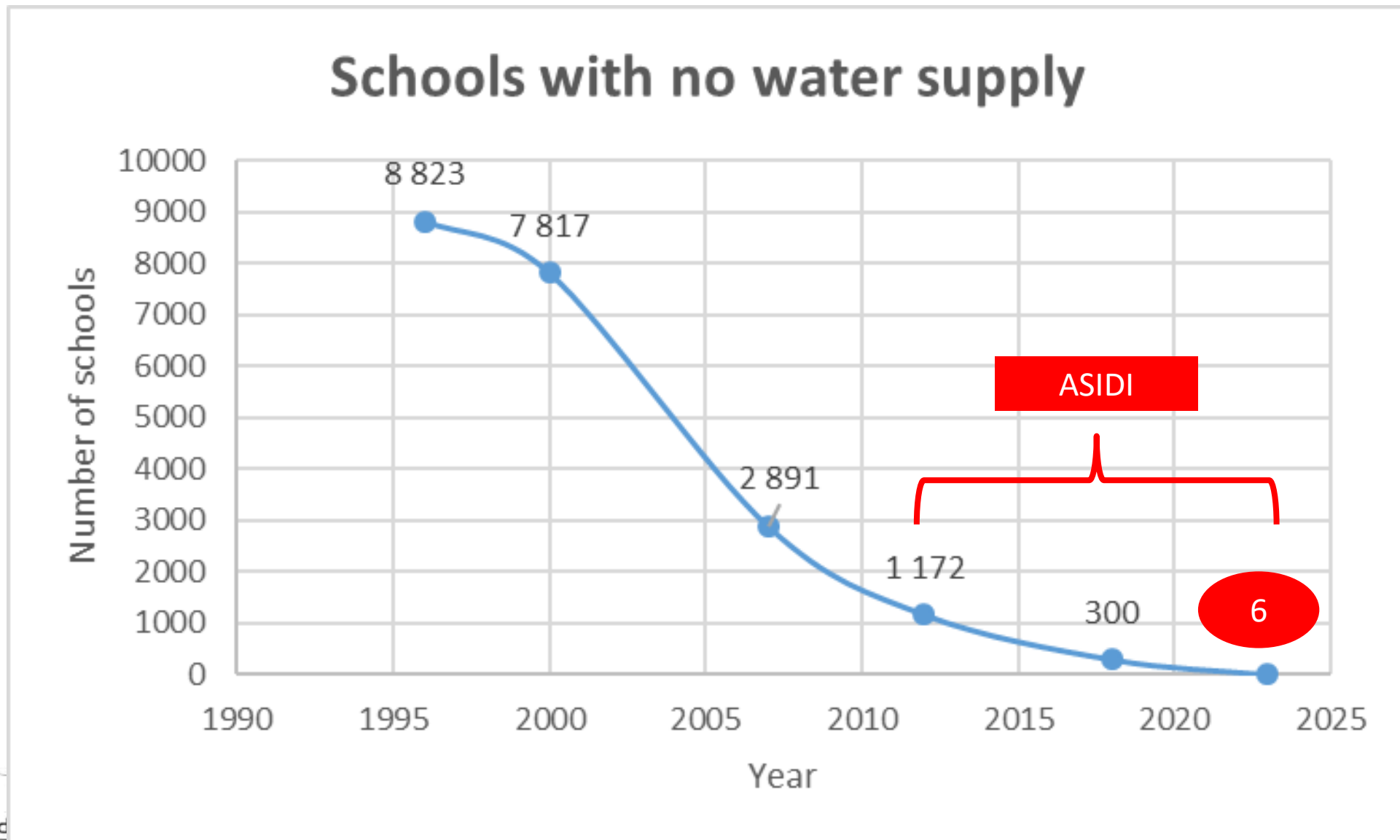
Based on new schools with capacity  
for 1 000 learners

Detailed scenario planning is required

# Backlog eradication

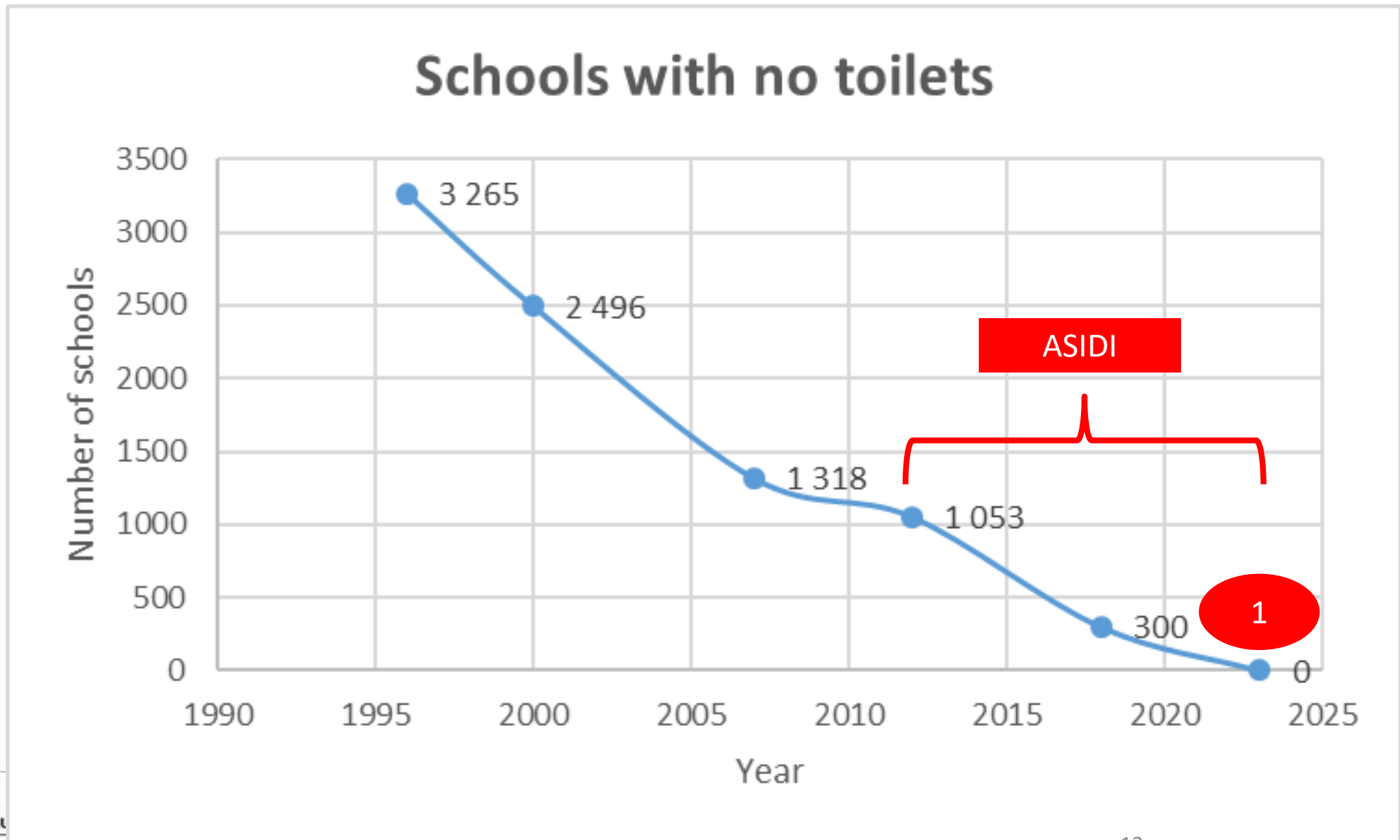


# Backlog eradication

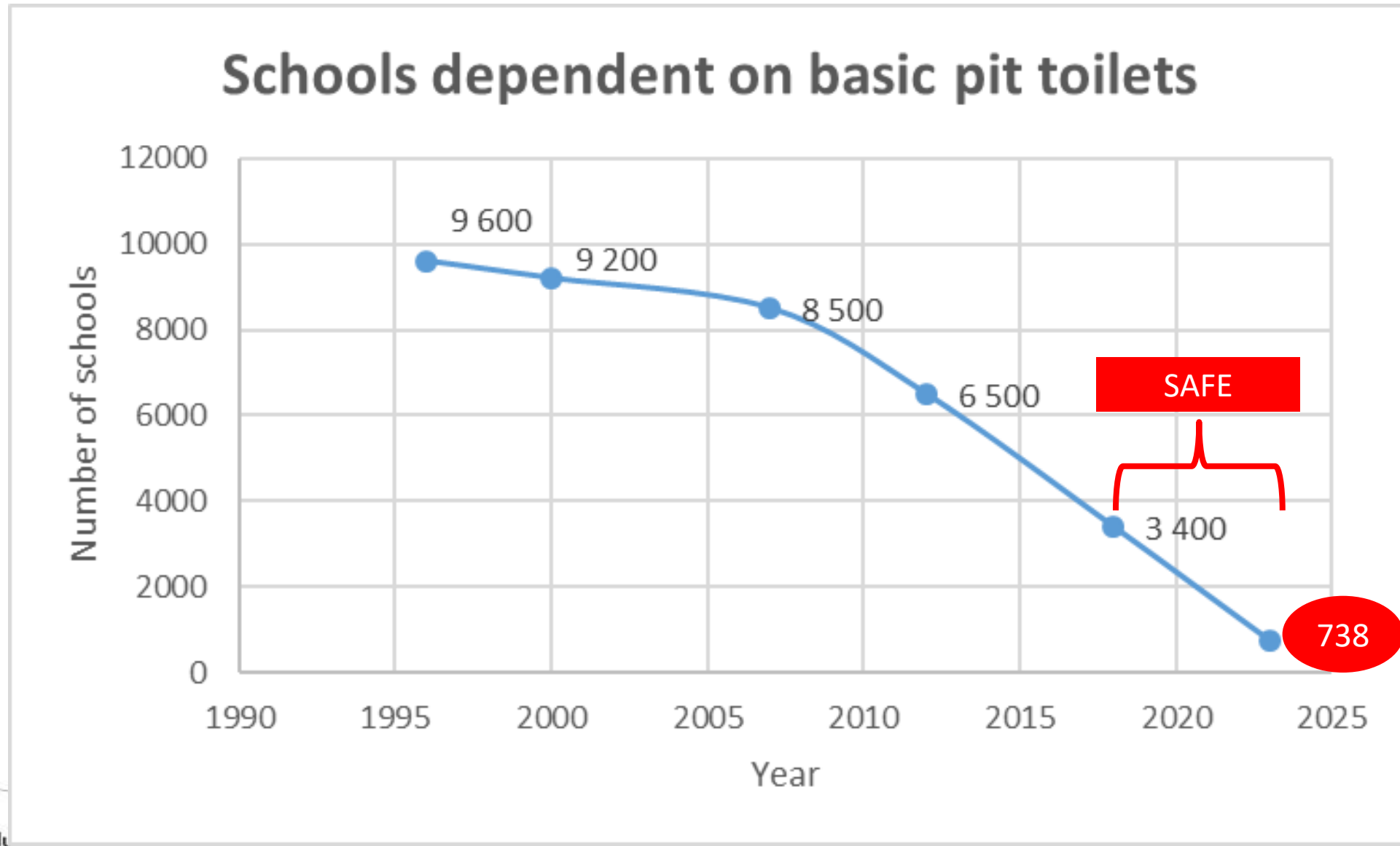




# Backlog eradication



# Backlog eradication

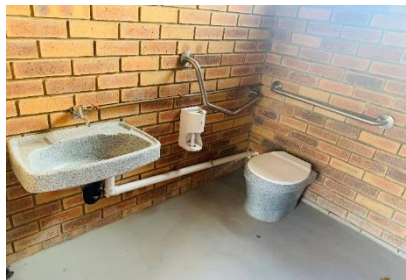


# IMPORTANT : Different categories of pit toilets

## a) Inappropriate **BASIC PIT TOILETS**



## b) Appropriate **VENTILATED IMPROVED PIT TOILETS**



## **2. Status of ASIDI & SAFE**



# ASIDI : Current status per Implementing Agent

11-Apr-23

## ASIDI SUMMARY

Implementing Agent	Description	Number of schools per stage of progress								
		Total schools allocated	Planning & design	Tender	Construction <25%	Construction 26-50%	Construction 51-75%	Construction 76-99%	Practical Completion	
Summary		3102			1		8	1	3092	
Adopt A School	Total	3							3	
CDC	Total	122							122	
DBE	Total	34							34	
DBSA	Total	252					3		249	
EC PED	Total	16							16	
ESKOM	Total	312							312	
FS PED	Total	120							120	
GDE	Total	16							16	
IDT	Total	577			1		5	1	570	
KZN PED	Total	47							47	
Mhlatuze Water	Total	98							98	
NC PED	Total	18							18	
NDPW	Total									
NW PED	Total									
TMT	Total	1403							1403	
WC PED	Total	55							55	
Donor	Total	29							29	

**OVERALL PROGRESS**

99.7%  
100.0%  
100.0%  
100.0%  
98.8%  
100.0%  
100.0%  
100.0%  
98.8%  
100.0%  
100.0%  
100.0%  
100.0%  
100.0%

1. Only 3 DBSA construction projects
2. Only 7 IDT construction projects
3. All to be completed in 2023/24



# ASIDI : Current status per Province

11-Apr-23

## ASIDI SUMMARY

Province	Number of schools per stage of progress								OVERALL PROGRESS
	Total schools allocated	Planning & design	Tender	Construction <25%	Construction 26-50%	Construction 51-75%	Construction 76-99%	Practical Completion	
Summary	3102			1		8	1	3092	99.7%
EC	1369			1		8		1360	99.3%
FS	154							154	100.0%
GP	16							16	100.0%
KZN	448							448	100.0%
LP	888						1	887	99.9%
MP	135							135	100.0%
NW	18							18	100.0%
NC	19							19	100.0%
WC	55							55	100.0%

1. Only 9 Construction projects in EC
2. Only 1 Construction projects in LP
3. All to be completed in 2023/24

## ASIDI : Current status per Sub-programme

11-Apr-23

### ASIDI SUMMARY

Sub-programme	Description	Number of schools per stage of progress								OVERALL PROGRESS
		Total schools allocated	Planning & design	Tender	Construction <25%	Construction 26-50%	Construction 51-75%	Construction 76-99%	Practical Completion	
Summary		3102			1		8	1	3092	99.7%
Inappropriate Structures	Total	332					2		330	99.4%
Water Supply	Total	1306			1		4	1	1300	99.5%
Sanitation	Total	1087					2		1085	99.8%
Electricity Supply	Total	373							373	100.0%
Fencing	Total	4							4	100.0%

1. Only 2 construction projects for Inappropriate Structures
2. Only 6 construction projects for Water supply
3. Only 2 construction project for Sanitation
4. All to be completed in 2023/24

## SAFE : Overall status per Implementing Agent

11-Apr-23

### SAFE SUMMARY

Implementing Agent	Description	Number of schools per stage of progress								
		Total schools allocated	Planning & design	Tender	Construction <25%	Construction 25-50%	Construction 51-75%	Construction 76-99%	Practical Completion	
Summary		3397	153	242	140	141	34	28	2659	
DBSA	Total	642	6		30	65	22	20	499	
NECT	Total	559		50	30	9	10	3	457	
TMT	Total	965	68	192	75				630	
CDC	Total	81			5	4	2	4	66	
Donor	Total	184	59					1	124	
ASIDI	Total									
EIG	Total	966	20			63			883	

**OVERALL  
PROGRESS**

78.3%

77.7%

81.8%

65.3%

81.5%

67.4%

91.4%

1. Only 143 DBSA projects
2. Only 102 NECT projects
3. Only 335 TMT projects
4. Only 15 CDC projects
5. Only 60 DONOR projects
6. Only 83 EIG projects
7. All to be completed in 2023/24

# SAFE : Overall status per Province

11-Apr-23

## SAFE SUMMARY

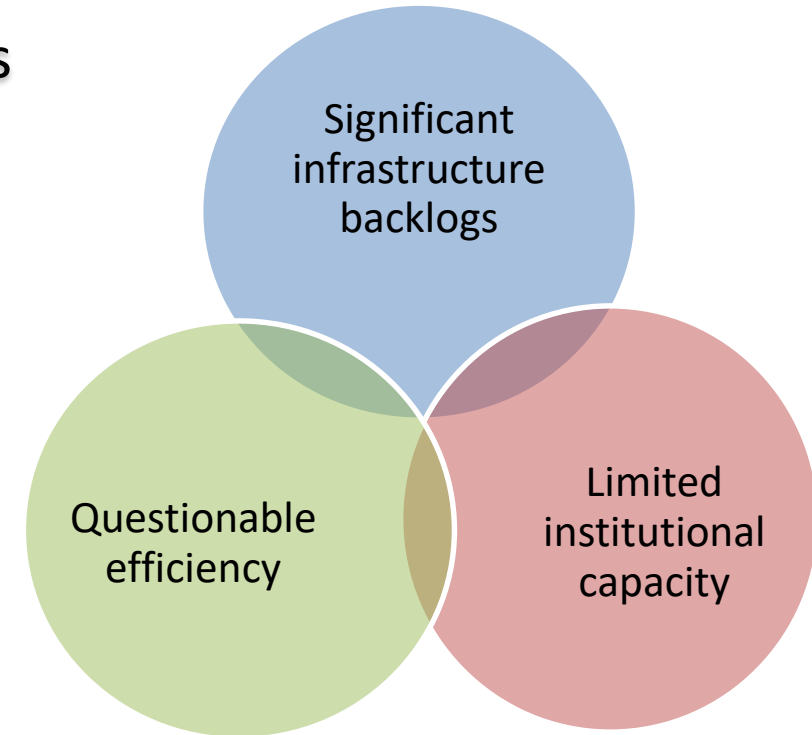
Province	Number of schools per stage of progress								OVERALL PROGRESS
	Total schools allocated	Planning & design	Tender	Construction <25%	Construction 25-50%	Construction 51-75%	Construction 76-99%	Practical Completion	
Summary	3397	153	242	140	141	34	28	2659	78.3%
EC	1451	73	233	108	46	22	14	955	65.8%
FS	105							105	100.0%
GP									
KZN	1257	51	1	30	86	8	13	1068	85.0%
LP	401	29	8	2	9	4	1	348	86.8%
MP	111							111	100.0%
NW	72							72	100.0%
NC									
WC									

1. Only 496 projects in EC
2. Only 189 projects in KZN
3. Only 53 projects in LP
4. All to be completed in 2023/24

### **3. Plan to fast-track implementation**

# 1. Problem statement

- a) There are **significant backlogs** in education infrastructure. Such backlog spans across all provinces and several aspects (e.g. Over-crowding, inappropriate structures, sanitation, water supply, electricity supply & maintenance).
- b) There is **limited capacity** to address this challenge. Such limitation spans across the national and all provincial departments and several capacity elements (e.g. Policy, strategy, tactic, norms & standards, designs & specifications, processes).
- c) The **questionable effectiveness** of the historical approaches necessitates a re-look at appropriate implementation modality (e.g. Response time, value for money, regulatory compliance)





## 2. Lessons learned from ASIDI, SAFE, EIG

1. Over-reliance on **Implementing Agents**, without confirming their capacity to deliver
2. Over-reliance on **PMO** to monitor, without clear deliverables
3. Lack of clear **implementation protocol agreements** between DBE and PED leading to many scope changes
4. Difficult to ensure **value for money** on a Design by Employer model
5. Difficult to ensure **local economic development** in open tender process
6. Multiple & slow **procurement** processes
7. Limited **consequence management** for defaulting service providers
8. Limited **SCM capacity** in DBE and PED
9. Limited **technical capacity** in DBE and PED
10. Limited **accounting capacity** in DBE and PED



# 3. Available budgets

Grant	2023/24	2024/25	2025/26
EIG	R 13 800 m	R 13 850 m	R 14 450 m
SIBG	R 2 100 m	R 2 200 m	R 2 300 m
ECD	R 100 m	R 100 m	R 110 m
Total grants	R 16 000 m	R 16 150 m	R 16 860 m

### 3. Other funding options:

#### a) National Development Plan 2030 states that:

“For infrastructure that generates financial returns, debt raised to build facilities should be on the balance sheets of state-owned enterprises or private firms that do the work. Infrastructure that does not generate financial returns (such as schools and hospitals) should be financed from the budget.”

#### **b) Equitable share**

#### **c) ISA loan funding** – piloted in EC & NC

#### **d) BFI grant funding** – several successful applications

#### **e) Donor funding** – several successful projects

#### **f) Partnerships** – several successful projects

# 4. Magnitude of the challenge

## a) Critical backlog indicators:

Province	Sanitation		Water supply		Over-crowding		Inappropriate structures
	Number of schools that require additional toilets	Number of additional toilets required Quantity	Number of schools with no sustainable water source	Number of schools that require additional water storage on site	Number of schools that require additional classrooms	Number of additional classrooms required	Number of schools with some inappropriate buildings
EC	3 550	37 016	2 341	2 977	1 222	7 406	1 538
FS	352	3 100	108	906	242	1 408	74
GT	1 250	15 717	3	2 209	1 187	11 386	0
KZN	3 235	20 510	2 575	3 222	1 358	7 652	978
LP	2 065	23 387	639	3 045	1 580	12 805	562
MP	1 210	13 401	254	1 400	1 020	10 991	11
NC	263	2 275	1	555	263	1 802	105
NW	1 249	24 109	303	1 248	739	10 135	405
WC	481	3 840	95	1 365	654	8 092	4
<b>Grand Total</b>	<b>13 655</b>	<b>143 355</b>	<b>6 319</b>	<b>16 927</b>	<b>8 265</b>	<b>71 677</b>	<b>3 677</b>

## b) Order of magnitude cost estimates:

		Estimated project cost (incl VAT)
Priority 1	Schools made entirely of inappropriate materials	R12 224 033 569
Priority 2 (a)	Schools with no toilets	R235 448 747
Priority 2 (b)	Schools with no sustainable source of water	R10 176 117 056
Priority 3 (a)	Schools with some buildings made of inappropriate materials	R4 483 958 600
Priority 3 (b)	Schools that require upgrading of sanitation	R17 953 386 864
Priority 3 (c)	Schools that require upgrading of water supply	R6 674 438 950
Priority 3 (d)	Schools that require additional classrooms	R44 498 765 853
Priority 4 (a)	Schools that require libraries	R8 646 000 000
Priority 4 (b)	Schools that require computer centres	R8 118 500 000
Priority 4 (c)	Schools that require nutrition centres	R6 107 500 000
Priority 4 (d)	Schools that require laboratories	R9 848 500 000
Priority 4 (e)	Schools that require upgrading of perimeter fence	R64 398 000
Totals		R129 031 047 639

Maintenance requirements		Estimated project cost (incl VAT)
Priority 1 (a)	Preventative maintenance	
Priority 1 (b)	Reactive maintenance	R98 497 876 814
Totals		R98 497 876 814

SUMMARY : Required investment		Estimated project cost (incl VAT)
	Capital	R129 031 047 639
	Maintenance	R98 497 876 814
Totals		R227 528 924 453

## RSA SUMMARY : Education Infrastructure

Capital requirements		Estimated project cost (incl VAT)	Eradication period	Annual investment
Priority 1	Schools made entirely of inappropriate materials	R12 224 033 569	7	R1 746 290 510
Priority 2 (a)	Schools with no toilets	R235 448 747	7	R33 635 535
Priority 2 (b)	Schools with no sustainable source of water	R10 176 117 056	7	R1 453 731 008
Priority 3 (a)	Schools with some buildings made of inappropriate materials	R4 483 958 600	7	R640 565 514
Priority 3 (b)	Schools that require upgrading of sanitation	R17 953 386 864	7	R2 564 769 552
Priority 3 (c)	Schools that require upgrading of water supply	R6 674 438 950	7	R953 491 279
Priority 3 (d)	Schools that require additional classrooms	R44 498 765 853	7	R6 356 966 550
Priority 4 (a)	Schools that require libraries	R8 646 000 000	7	R1 235 142 857
Priority 4 (b)	Schools that require computer centres	R8 118 500 000	7	R1 159 785 714
Priority 4 (c)	Schools that require nutrition centres	R6 107 500 000	7	R872 500 000
Priority 4 (d)	Schools that require laboratories	R9 848 500 000	7	R1 406 928 571
Priority 4 (e)	Schools that require upgrading of perimeter fence	R64 398 000	7	R9 199 714
Totals		R129 031 047 639	7	R18 433 006 806

Maintenance requirements		Estimated project cost (incl VAT)	Eradication period	Annual investment
Priority 1 (a)	Preventative maintenance			R9 849 787 681
Priority 1 (b)	Reactive maintenance	R98 497 876 814	7	R14 071 125 259
Totals		R98 497 876 814	7	R23 920 912 940

SUMMARY : Required investment		Estimated project cost (incl VAT)	Eradication period	Annual investment
	Capital	R129 031 047 639		R18 433 006 806
	Maintenance	R98 497 876 814		R23 920 912 940
Totals		R227 528 924 453		R42 353 919 746

# RSA SUMMARY : Education Infrastructure

- 1. Excludes ECD
- 2. Underestimated sanitation

Capital requirements		Estimated project cost (incl VAT)	Eradication period	Annual investment	Strategy	
Priority 1	Schools made entirely of inappropriate materials	R12 224 033 569	7	R1 746 290 510	100%	R1 746 290 510
Priority 2 (a)	Schools with no toilets	R235 448 747	7	R33 635 535	100%	R33 635 535
Priority 2 (b)	Schools with no sustainable source of water	R10 176 117 056	7	R1 453 731 008	50%	R726 865 504
Priority 3 (a)	Schools with some buildings made of inappropriate materials	R4 483 958 600	7	R640 565 514	50%	R320 282 757
Priority 3 (b)	Schools that require upgrading of sanitation	R17 953 386 864	7	R2 564 769 552	50%	R1 282 384 776
Priority 3 (c)	Schools that require upgrading of water supply	R6 674 438 950	7	R953 491 279	50%	R476 745 639
Priority 3 (d)	Schools that require additional classrooms	R44 498 765 853	7	R6 356 966 550	50%	R3 178 483 275
Priority 4 (a)	Schools that require libraries	R8 646 000 000	7	R1 235 142 857	0%	R0
Priority 4 (b)	Schools that require computer centres	R8 118 500 000	7	R1 159 785 714	0%	R0
Priority 4 (c)	Schools that require nutrition centres	R6 107 500 000	7	R872 500 000	0%	R0
Priority 4 (d)	Schools that require laboratories	R9 848 500 000	7	R1 406 928 571	0%	R0
Priority 4 (e)	Schools that require upgrading of perimeter fence	R64 398 000	7	R9 199 714	100%	R9 199 714
Totals		R129 031 047 639	7	R18 433 006 806	42%	R7 773 887 711

11

12

Capital investment R 8 billion

Maintenance requirements		Estimated project cost (incl VAT)	Eradication period	Annual investment	Strategy	
Priority 1 (a)	Preventative maintenance			R9 849 787 681	50%	R4 924 893 841
Priority 1 (b)	Reactive maintenance	R98 497 876 814	7	R14 071 125 259	50%	R7 035 562 630
Totals		R98 497 876 814	5	R23 920 912 940	0.5	R11 960 456 470

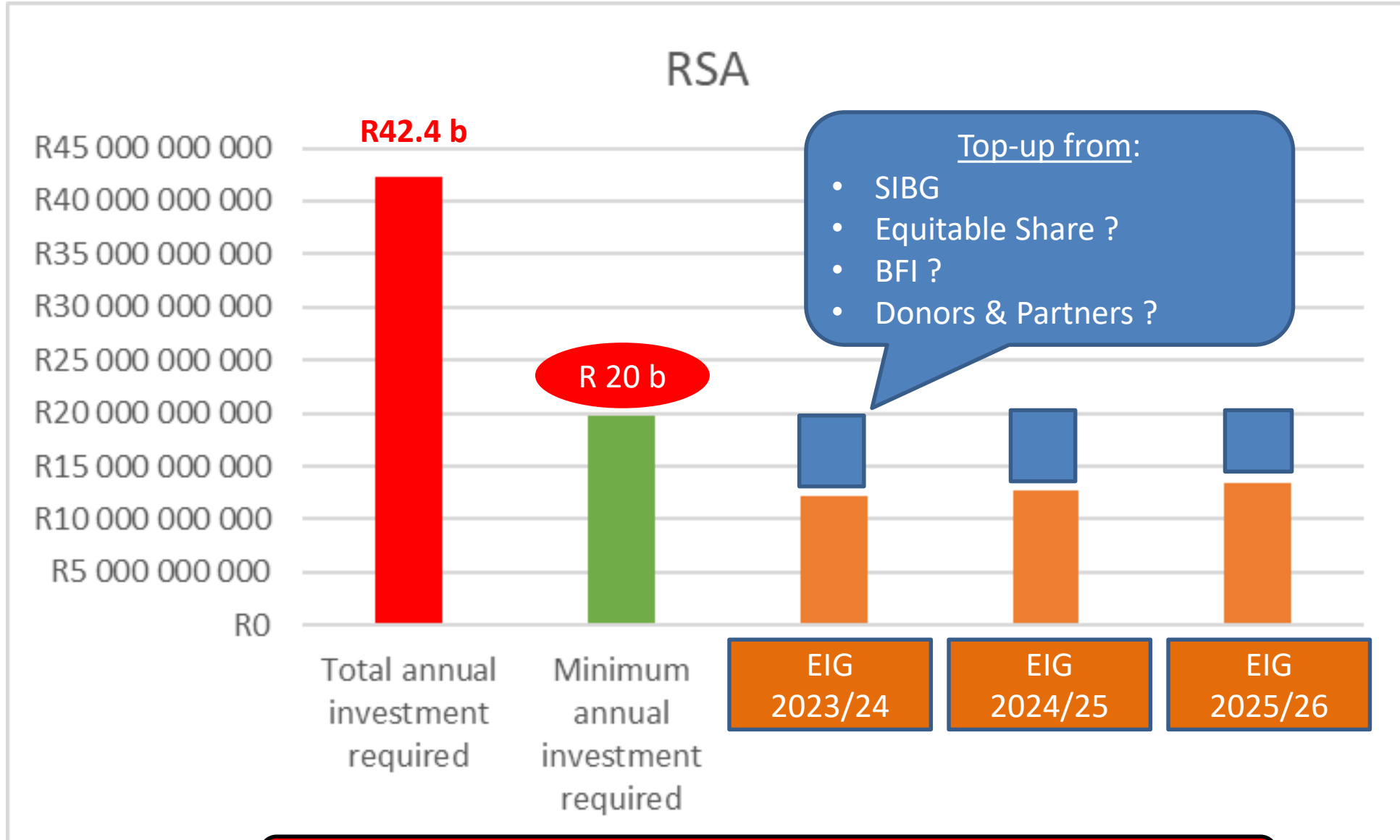
Maintenance R 12 billion

SUMMARY : Required investment		Estimated project cost (incl VAT)	Eradication period	Annual investment	Annual investment	
	Capital	R129 031 047 639		R18 433 006 806	42%	R7 773 887 711
	Maintenance	R98 497 876 814		R23 920 912 940	50%	R11 960 456 470
Totals		R227 528 924 453	6	R42 353 919 746	47%	R19 734 344 181

Total investment R 20 billion



c) Blended finance required:



Need blended finance model

# 5. Responsibility matrix

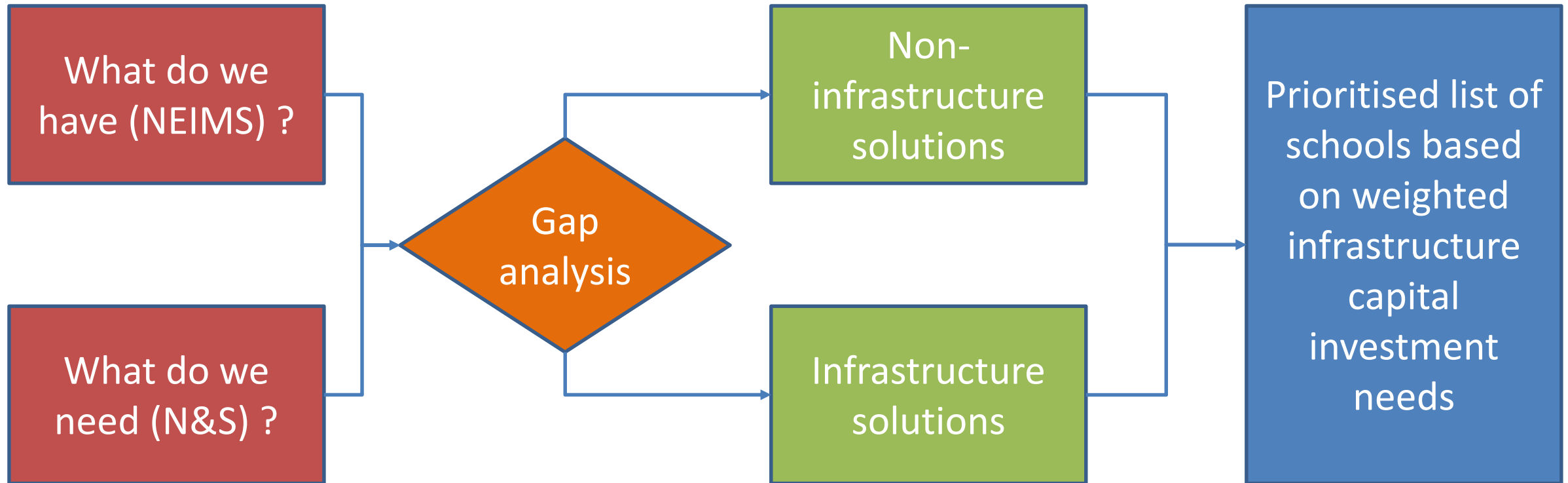
	Policy	Monitor	Support	Design	Construction	Maintenance	Operation
DBE	Yes	Yes	Yes				
PED		Yes	Yes	Yes	Yes	Yes	
District		Yes				Yes	
School						Yes	Yes



# 6. Acceleration model

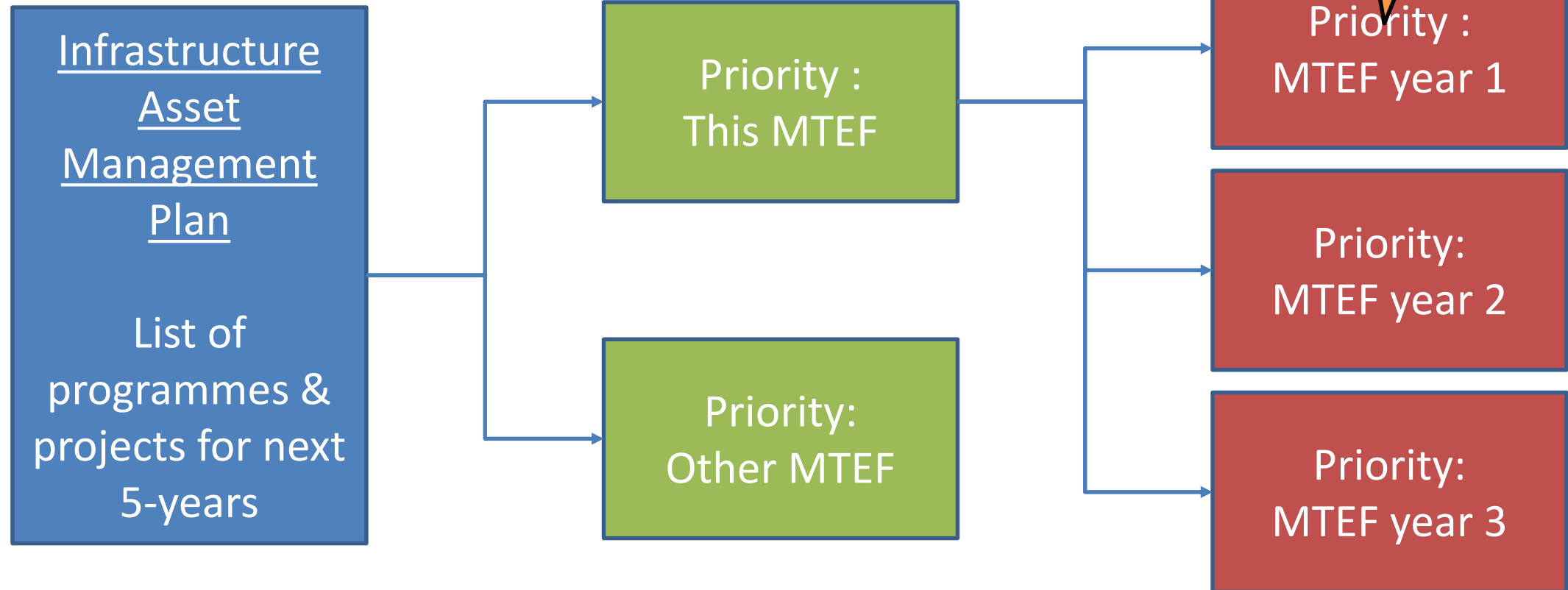
Subject to approval by CEM

a) Determine the national prioritised infrastructure backlog:

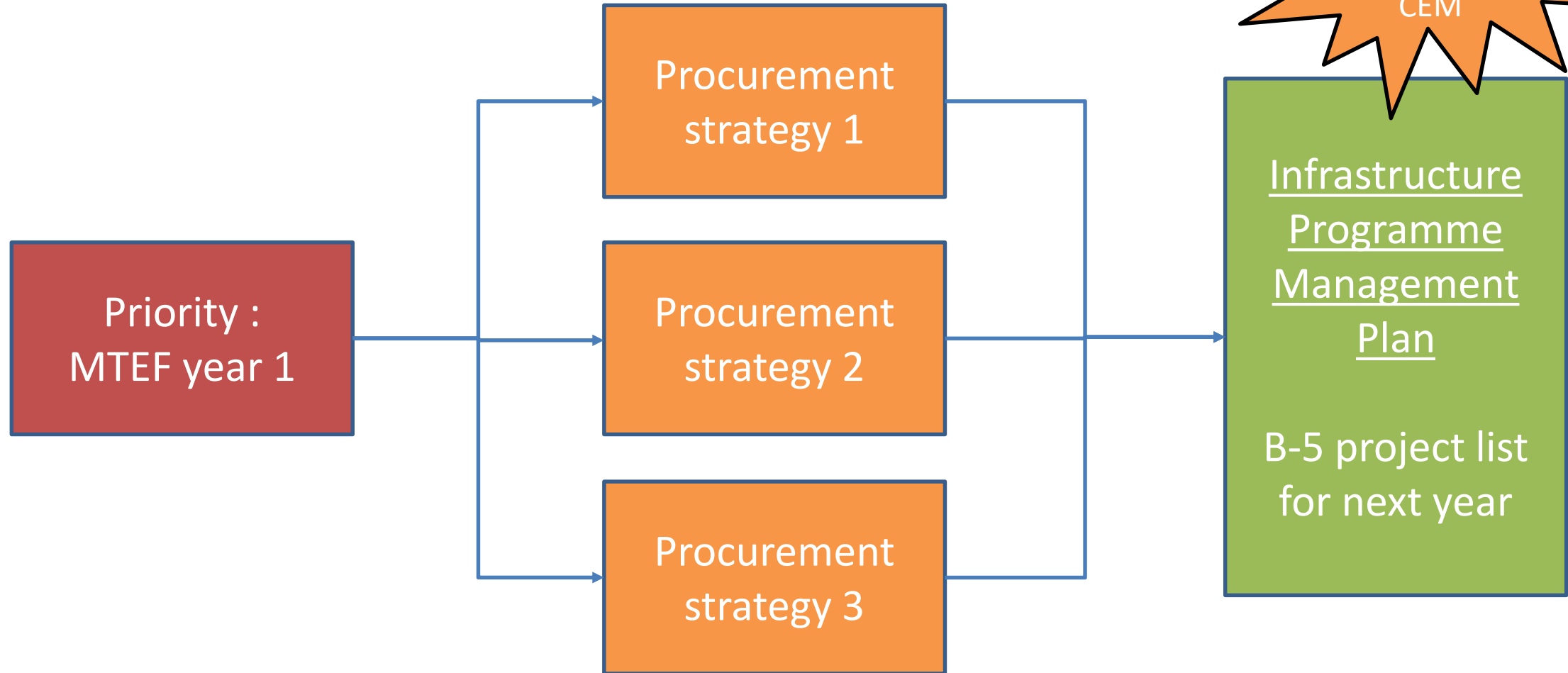


COMPONENT 1 : Updated NEIMS/EFMS data on current infrastructure

## b) Develop multi-year plan



c) Develop project list

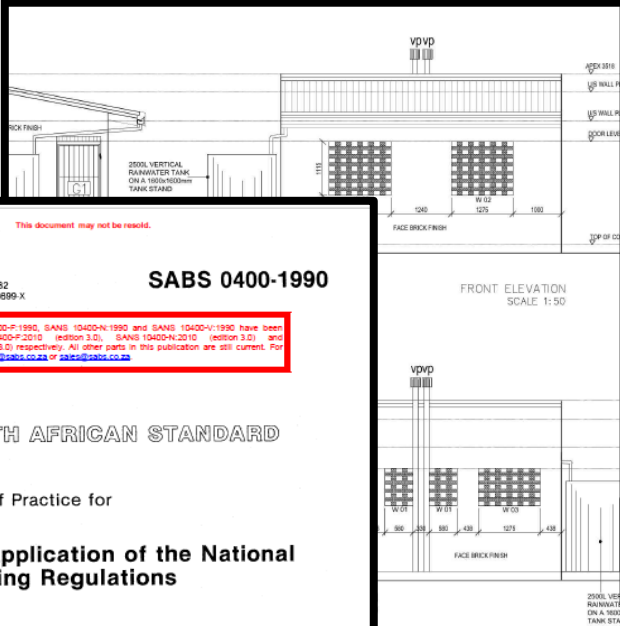


# d) Standardise norms & standards, concept designs & specifications



STAATSKOERANT, 29 NOVEMBER 2013 No. 57081 3  
GOVERNMENT NOTICE  
DEPARTMENT OF BASIC EDUCATION 29 November 2013  
No. R. 920  
SOUTH AFRICAN SCHOOLS ACT, 1996 (ACT NO. 84 OF 1996)  
REGULATIONS RELATING TO MINIMUM UNIFORM NORMS AND STANDARDS FOR PUBLIC SCHOOL INFRASTRUCTURE  
I, Angelina Matsie Motshhega, Minister of Basic Education, acting under section 5A(1)(a) of the South African Schools Act, 1996, and after consultation with the Minister of Finance and the Council of Education Ministers, hereby prescribe the Minimum Uniform Norms and Standards for Public School Infrastructure Schedule.

ANGELINA MATSIE MOTSHEGA, MP  
MINISTER OF BASIC EDUCATION  
DATE: 26/11/2013



This document may not be resold.

UDC 69.008.182 ISBN 0-826-0899-X **SABS 0400-1990**

Please note that SANS 10400-P-1990, SANS 10400-N-1990 and SANS 10400-V-1990 have been superseded by SANS 10400-P-2010 (edition 3.0), SANS 10400-N-2010 (edition 3.0) and SANS 10400-V-2010 (edition 3.0) respectively. All other parts in this publication are still current. For more information, contact [info@sabs.co.za](mailto:info@sabs.co.za) or [sabs@sabs.co.za](mailto:sabs@sabs.co.za)

**SOUTH AFRICAN STANDARD**

Code of Practice for

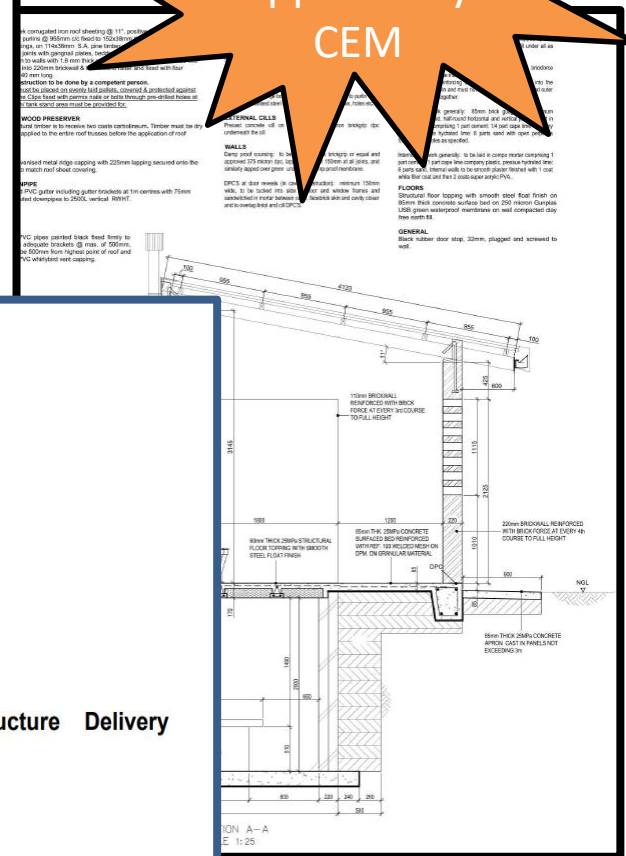
**The application of the National Building Regulations**

The attention of all users of SANS 10400-1990 is drawn to the special note that appears on the inside cover page, as well as to the amendment to the National Building Regulations and Building Standards Act, 1977 (Act 103 of 1977), Notice No. R. 574, as published in Government Gazette No. 31084 of 30 May 2008, which has been inserted after p. 10 of the standard.

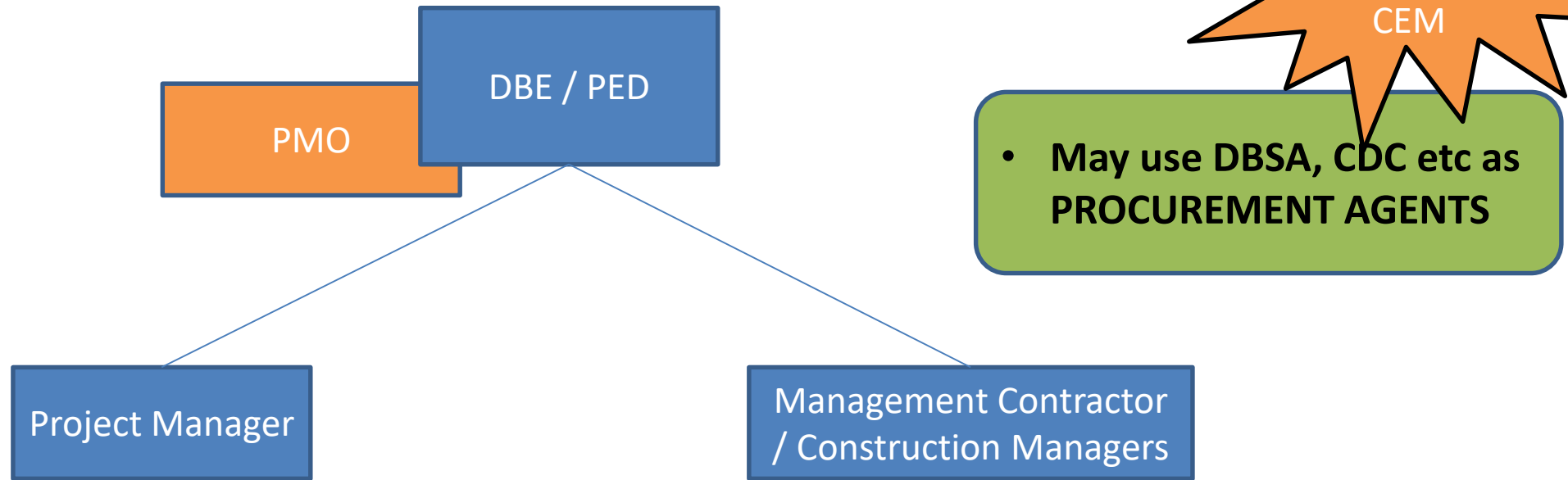
First Revision  
Published by  
THE COUNCIL OF THE SOUTH AFRICAN BUREAU OF STANDARDS **Gr 22**

Annexure A  
**Framework for Infrastructure Delivery and Procurement Management**  
May 2019  
Effective Date: 01 October 2019

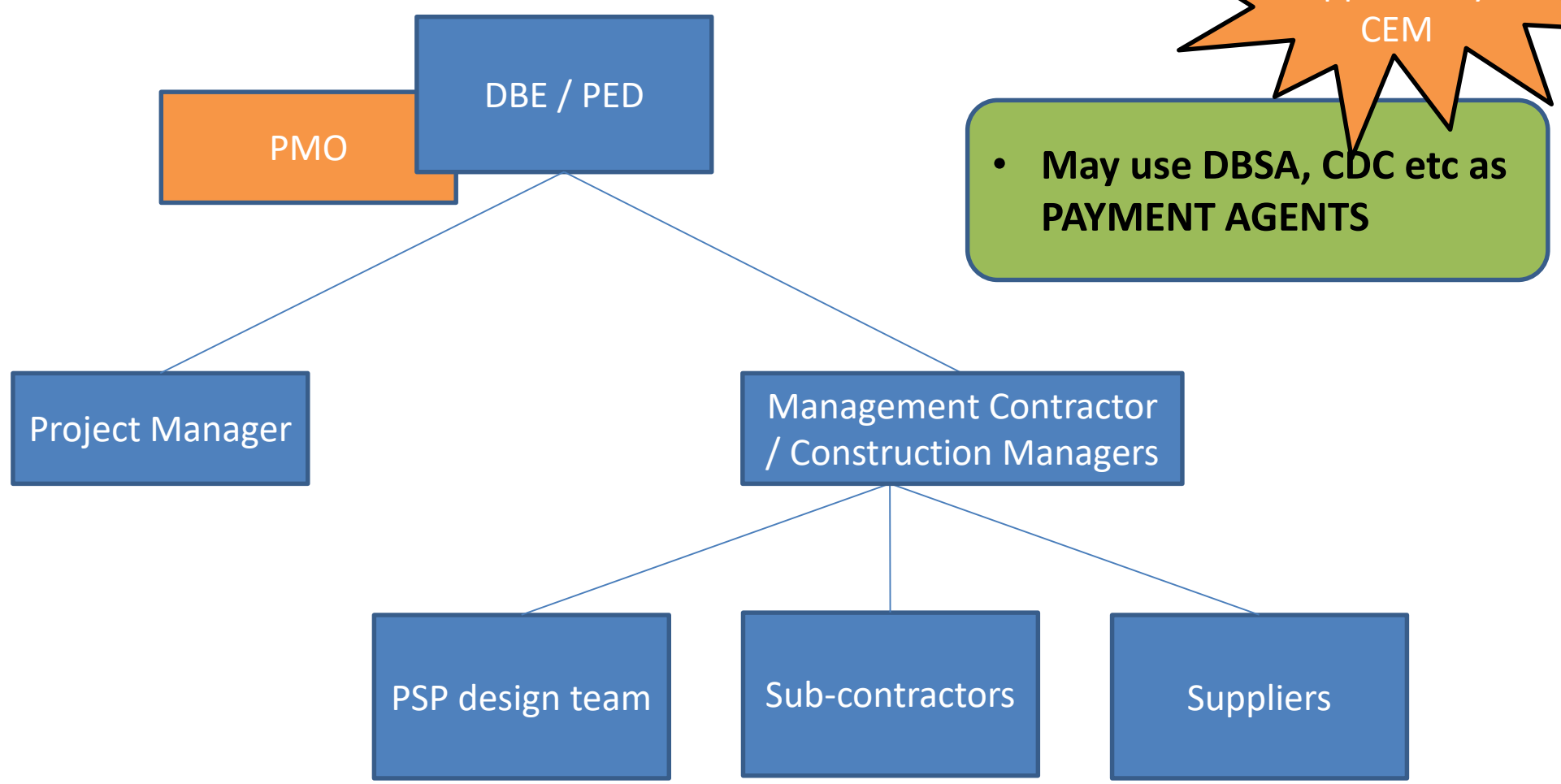
**Standard for an Infrastructure Delivery Management System**  
30<sup>th</sup> November 2012 (Final Draft)



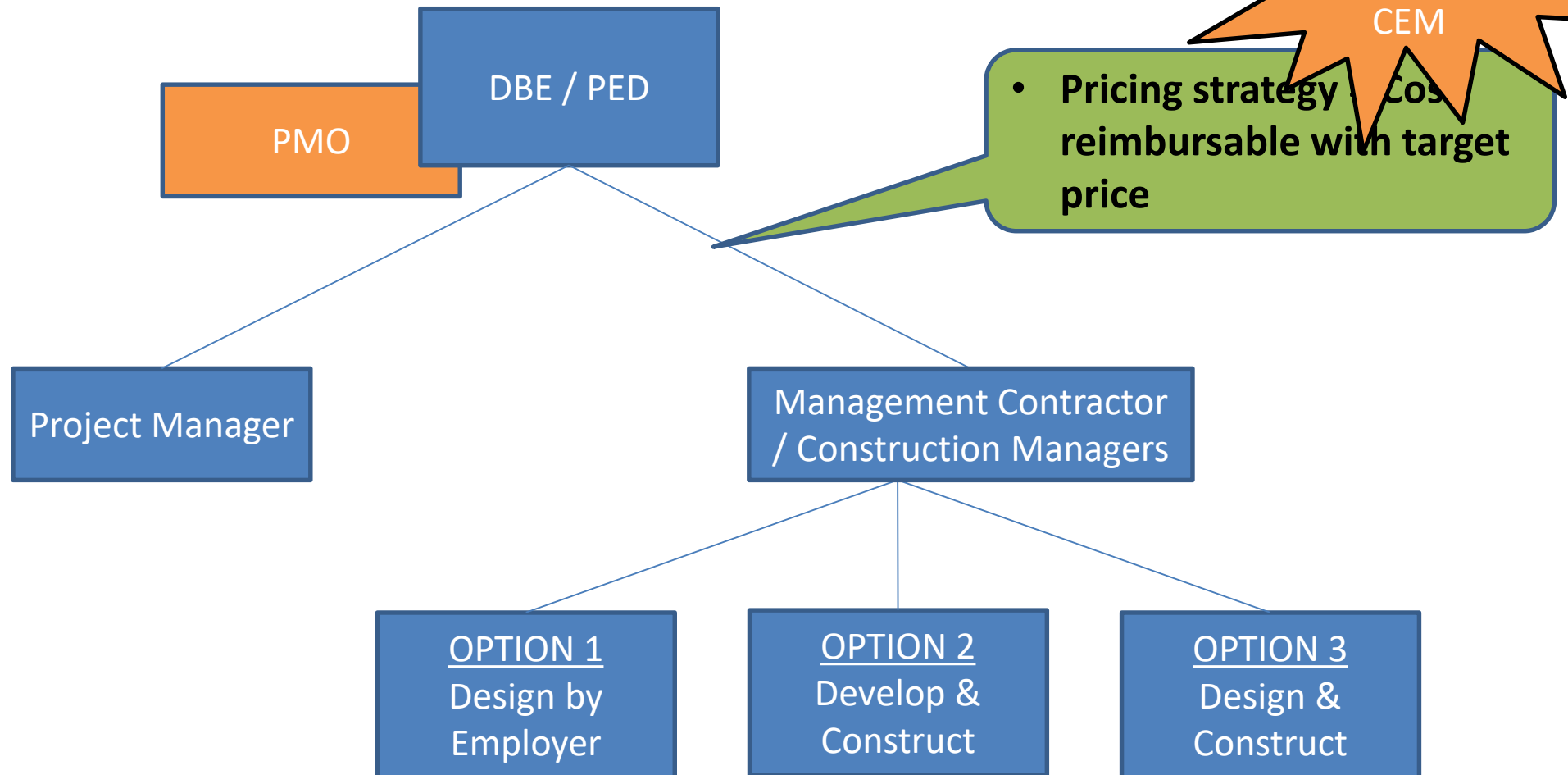
d) Procure Management Contractors / Construction Managers (Develop & Construct) & Project Managers on framework agreements



e) Management Contractor to procure PSP and local sub-contractors & suppliers



f) Project Managers review all quotes & certifies payment based on cost-reimbursable with target cost



COMPONENT 7 : Cost-reimbursable with target price

g) PMO manage the IDMS **gateway review process:**

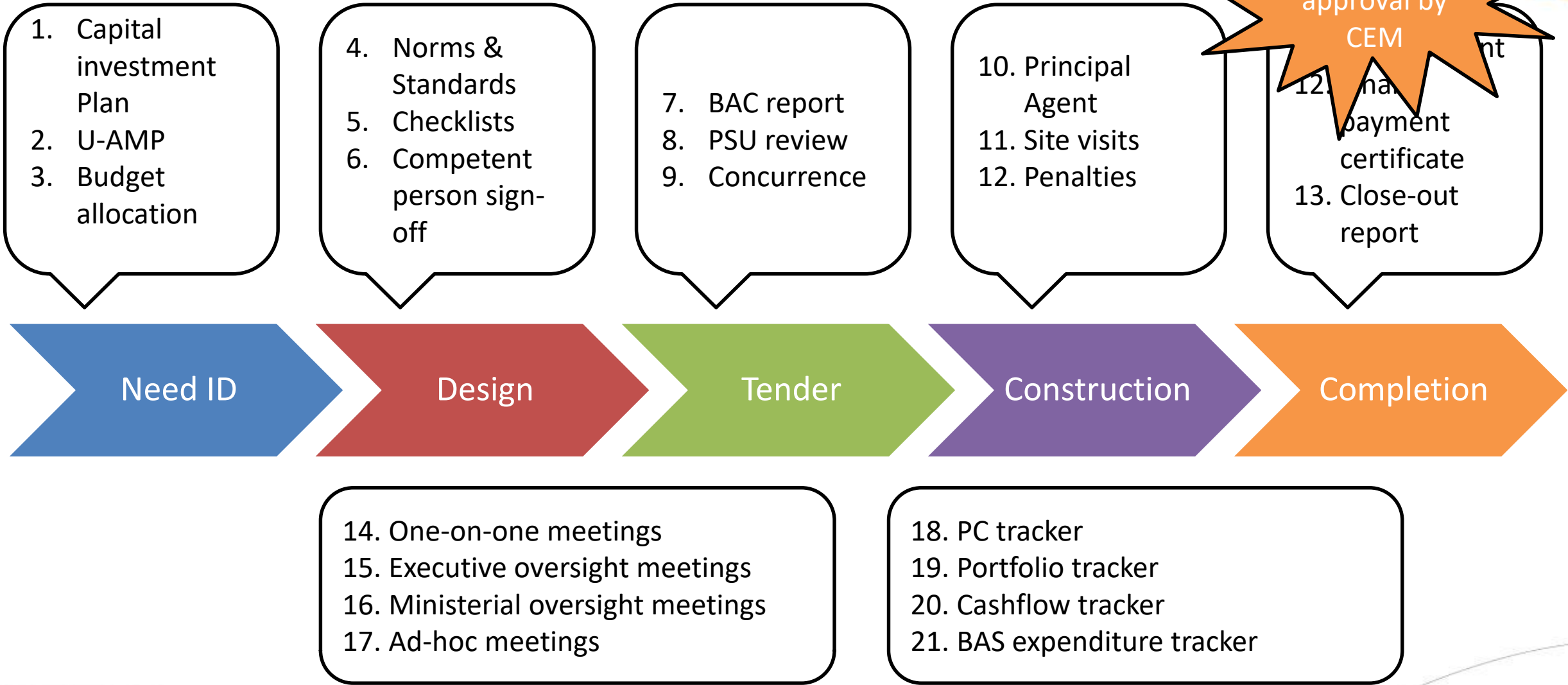
- i. Stage 1 is complete when the Initiation Report or Prefeasibility Report is approved.
- ii. Stage 2 is complete when the Concept Report or the Feasibility Report is approved.
- iii. Stage 3 is complete when the Design Development Report is approved.
- iv. Stage 4 is complete when the Design Documentation Report is approved.
- v. Stage 5 is complete when the Works Completion Report is approved.
- vi. Stage 6 is complete when the Handover/Record Information Report is approved.
- vii. Stage 7 is complete when the Close-out Report is approved.



Subject to approval by CEM




## h) PMO manage the monitoring model



## d) Consequence management to root out poor performance



 <p><b>national treasury</b> Department: National Treasury REPUBLIC OF SOUTH AFRICA</p>	<p>PFMA SCM INSTRUCTION NO. 03 OF 2021/22 PUBLIC FINANCE MANAGEMENT ACT (ACT 1 OF 1999)</p>
<p>ENHANCING COMPLIANCE, TRANSPARENCY AND ACCOUNTABILITY IN SUPPLY CHAIN MANAGEMENT</p>	

### 6. RESTRICTION OF PERSON DOING BUSINESS WITH GOVERNMENT

6.1 The AO/AA must, in writing, notify a person of—

4

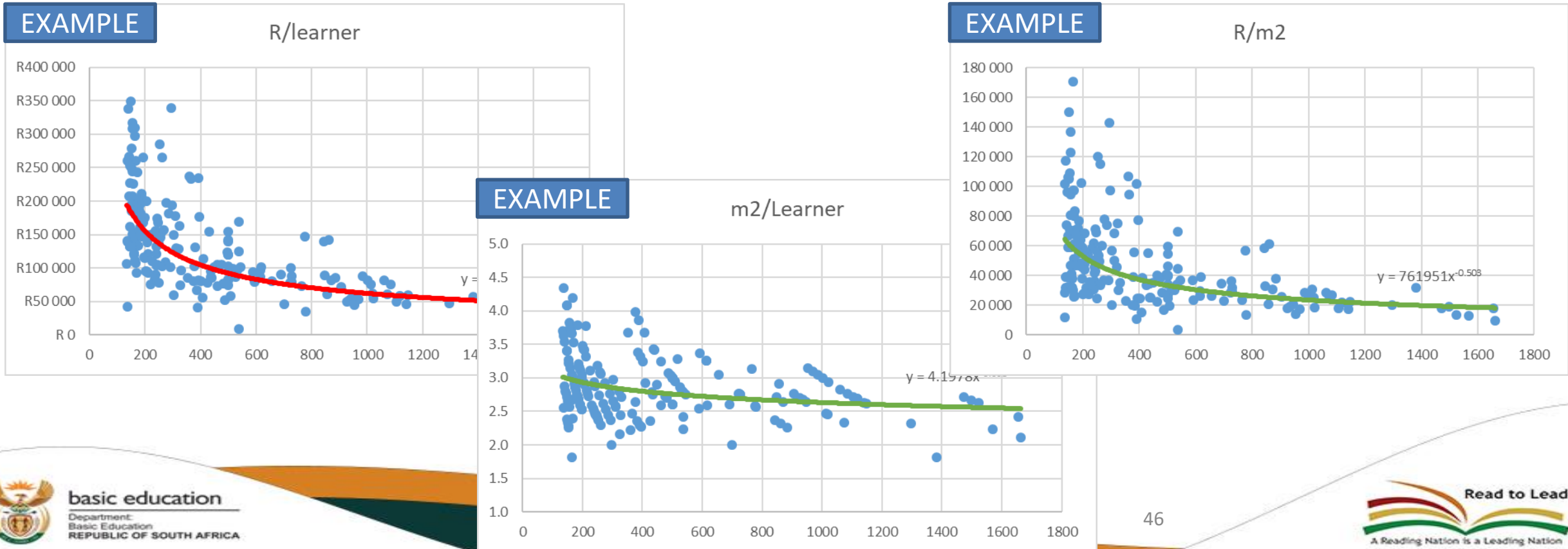
- (a) the intention to restrict the person from doing business with the State;
- (b) the grounds for the restriction;
- (c) the intended period of restriction which may not exceeding 10 years; and
- (d) the right to make representations within 14 days as to why the person should not be restricted.

# 10. Short-term actions

- a) PEDs to submit all Infrastructure data to DBE for loading on NEIMS/EFMS
- EC = data for 1200 of 5000 schools available
  - FS = data for 200 of 1080 schools available
  - GP = data for 2300 of 2300 schools available
  - KZN = data for 1500 of 6000 schools available
  - LP = data for 1000 of 3700 schools available
  - MP = data for 0 of 1672 schools available
  - NC = data for 440 of 556 schools available
  - NW = data for 1300 of 1423 schools available (already on NEIMS/EFMS)
  - WC = data for 1520 of 1520 schools available

b) Analyse historical cost and establish cost benchmarks:

- New schools
- Brick & mortar classrooms
- Alternative Building Technology (ABT) classrooms
- Brick & Mortar toilets
- Alternative Building Technology (ABT) classrooms



c) Capacity development:

- i. Finalise **organograms** for Infrastructure Units.
- ii. Headhunt **suitable candidates**.
- iii. Support technical development from candidate to **professional registration**.
- iv. Support continued professional **development & training** of officials.
- v. Organise **technical clinics** for knowledge sharing.
- vi. Establish centre of excellence on **infrastructure procurement** to prepare tender documents for framework contracts.
- vii. Establish **project management office** to manage the implementation (this may be a combination of officials and contracted resources).



c) Enabling internal environment:

- i. Pursue **rationalisation** of all small & unviable schools.
- ii. Pursue ISO accreditation for **quality management** (DBE, PED, Implementing Agents).
- iii. Enforce EFMS as sole **programme management system**.
- iv. Enforce EFMS as sole **document management system**.
- v. Standardise **monitoring reports**.
- vi. Standardise **progress reports**.

d) Enabling external environment:

- i. Engagement with **Departments of Public Works** to discuss the responsibility of the custodian.
- ii. Engagement with the relevant **Municipalities** to discuss the provision of municipal services.
- iii. Engagement with **CIDB** to discuss the capacity of the Construction sector.
- iv. Engagement with **Professional Councils** to discuss the capacity of the PSP sector.
- v. Engagement with Law Enforcement Agencies to discuss the actions of **Business Forums**.
- vi. Engagement with SABS, Agreement & WRC on **Alternative Building Technologies** (specifically GREEN buildings).



# Conclusion

- Significant progress has been made since 1996.
- Over-crowding, maintenance, sanitation & water supply remain major challenges.
- DBE is keen to work with Interest Bodies & Unions in the interest of the learners & educators.



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