





Consulting Engineers South Africa

Your Partner in Enabling Consulting Engineering Excellence

# CESA North West Presidential Visit 11 April 2019

#### **Presidential Theme for 2019**



"We cannot change the past, but we can reshape the future. Young people have the opportunity to create a happier, better future. – Dalai Lama"

#### Reshaping our Future Together

All South Africans mobilizing, participating and actively reshaping our:

- Our Economy
- Our Country
- Our Projects
- Our Government
- Our Lives



#### Quick Recap: Presidential Theme for 2018



Effective Ethical Leadership

Industry
integration and
working
collaboratively

Transforming the hearts and minds of our people

Embracing the 4<sup>th</sup> Industrial Revolution and the new world of Digitisation

Working with clients in addressing Corruption

#### 2018 Key Actions:

Raised awareness on ethical leadership infrastructure

Holistic approach to Transformation

Procurement challenges

Drive a theme of value for money as opposed to lowest cost

Increased collaboration with government



#### Reshaping CESA for our Future

#### **CESA Operating Model**

3 Pillars:

External focus – Advocacy, procurement, Ethics, leadership

Internal Focus – Support, Knowledge Sharing, Capacitation

Monitoring & evaluation – Analysis, Research, Maintaining Credibility

#### **Our Progress**

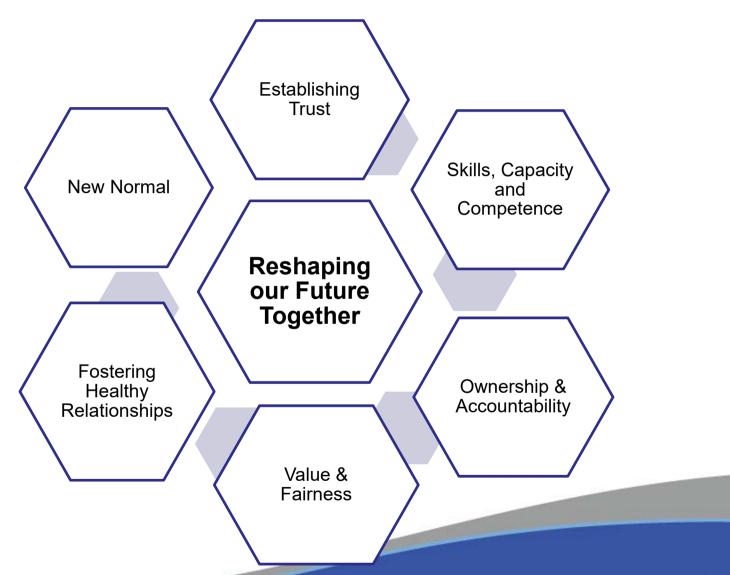
Media has been briefed on the theme and objective Have been featured in the Sunday Times and various other news papers and journals Have been Interviewed live on Radio and using other social media platforms Have started a concerted campaign in Infrastructure Journal, Engineering News, Contractor and most recently Financial Mail

We entered into dialogue with the Parliamentary Appropriation's Committee

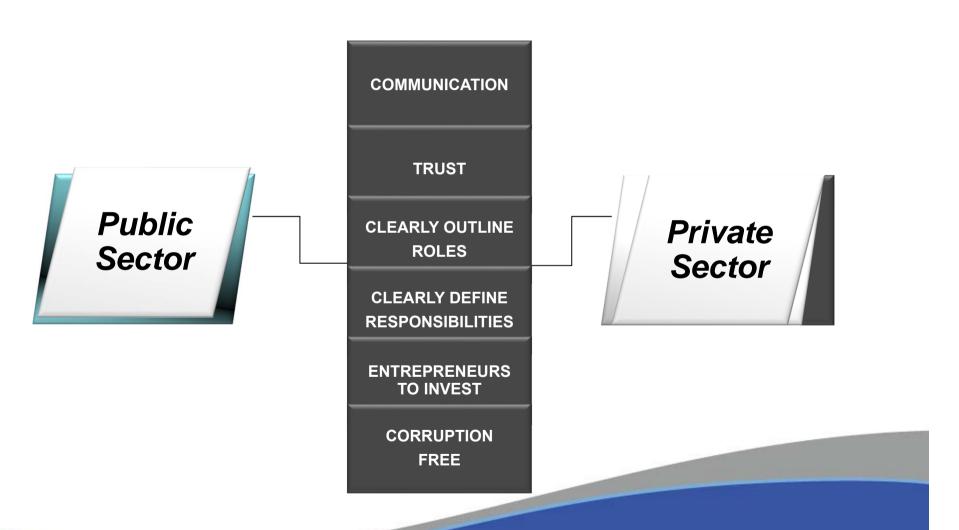
Have Met with ECSA, SABTACO, SAICE and BBBCBE in a bid for broad industry collaboration Have met the
National
Treasury –
office of the
Chief
Procurement
officer, SIPDM
and IGR as well
as the Auditor
General's Office
and
Infrastructure
team

Have met with the Minister of Education

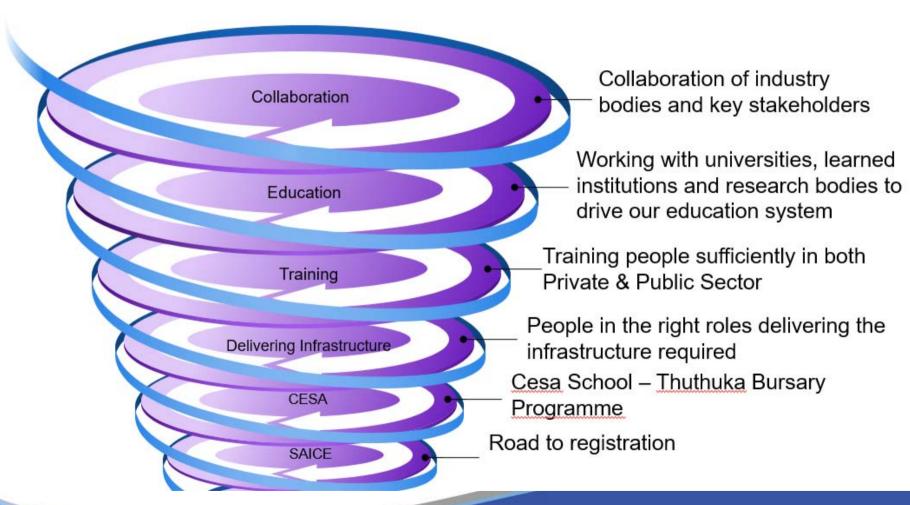
### **Key Objectives 2019**



#### **Delivering Purpose and Engagement**



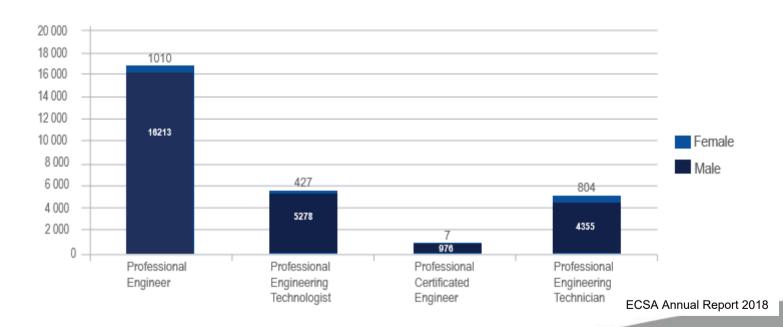
#### Skills, Capacity and Competence



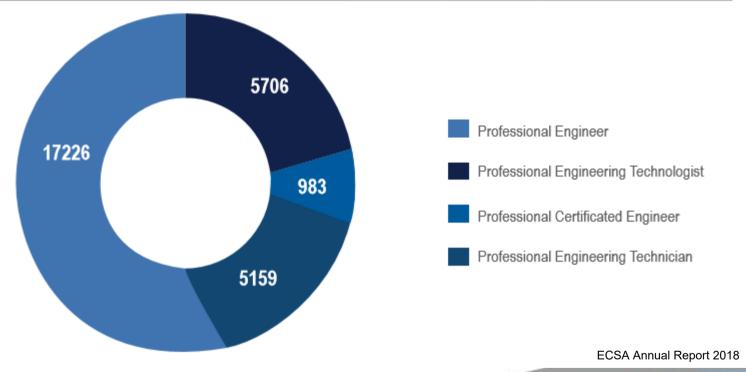
Professional Engineer	17226
Professional Engineering Technologist	5706
Professional Certificated Engineer	983
Professional Engineering Technician	5159

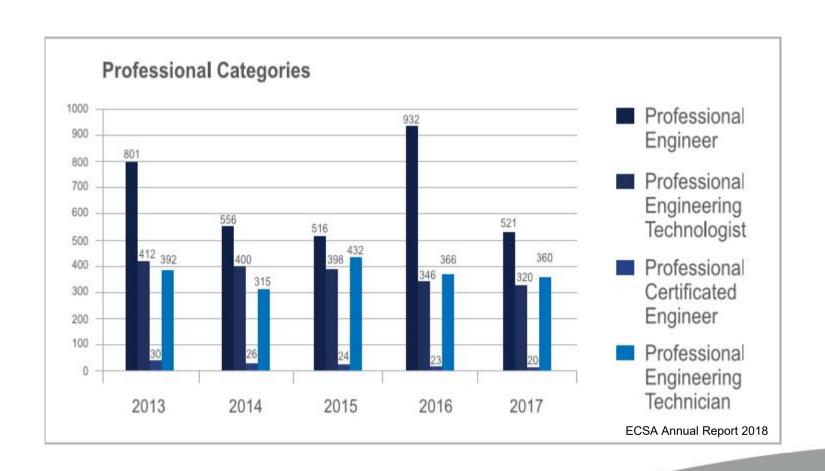


Professional Engineer	Male	Female
Professional Engineer	16213	1013
Professional Engineering Technologist	5278	428
Professional Certificated Engineer	976	7
Professional Engineering Technician	4355	804

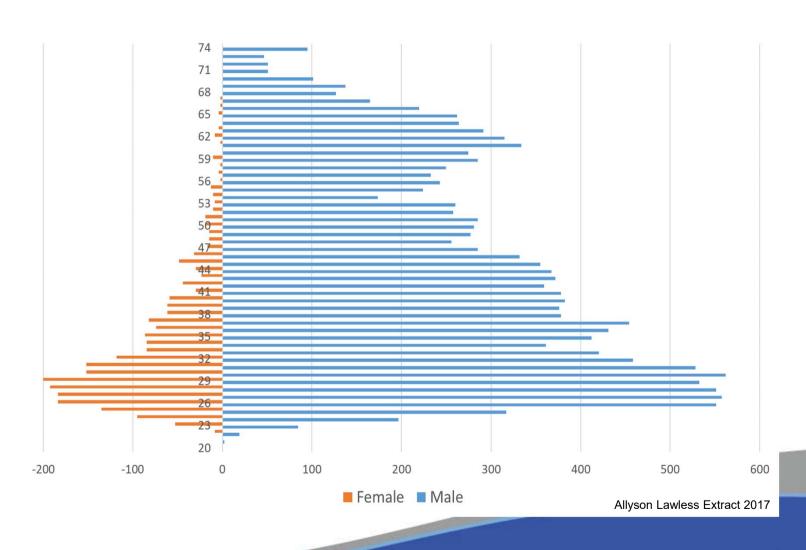


Category	Black	White	Asian	Coloured
Professional Engineer	1985	13903	1144	194
Professional Engineering Technologist	1729	3219	544	214
Professional Certificated Engineer	71	857	42	13
Professional Engineering Technician	2646	2017	293	203

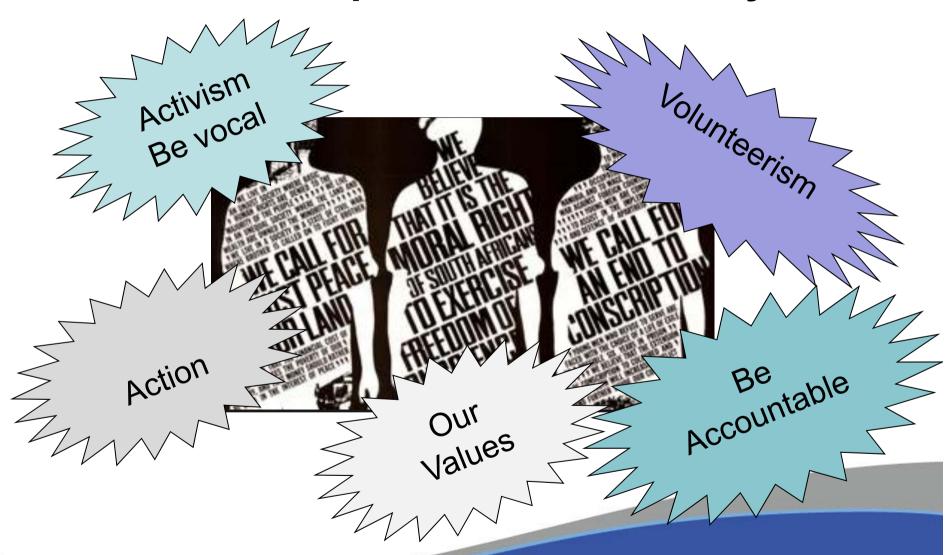




# Age profile in Engineering



### **Ownership and Accountability**



#### Value & Fairness

COST EFFECTIVE SOLUTIONS

Practical Operations

OPTIMUM LONG
TERM SOLUTIONS
FOR
INFRASTRUCTURE

Sustainable maintenance programs

BEST POSSIBLE SOLUTIONS

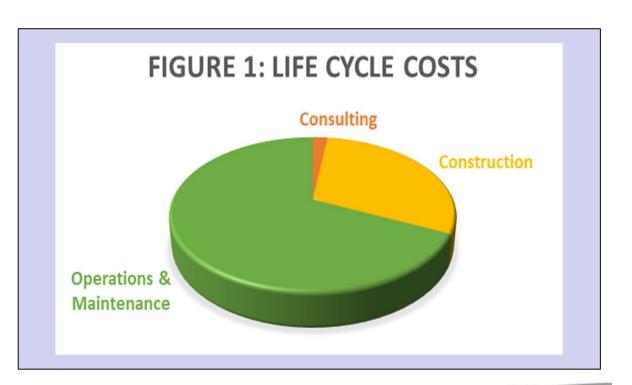
#### **Infrastructure Assets**

Question elaborate tendering for Services

Value for Money vs Lowest Cost

Attention focused on solutions to address

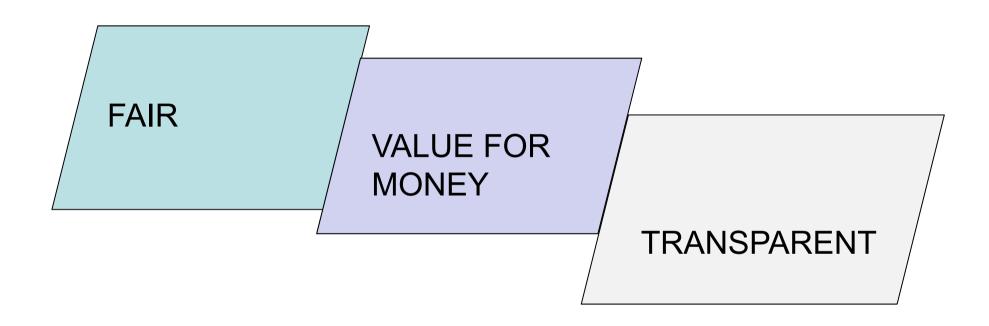
Construction and the Operations & Maintenance



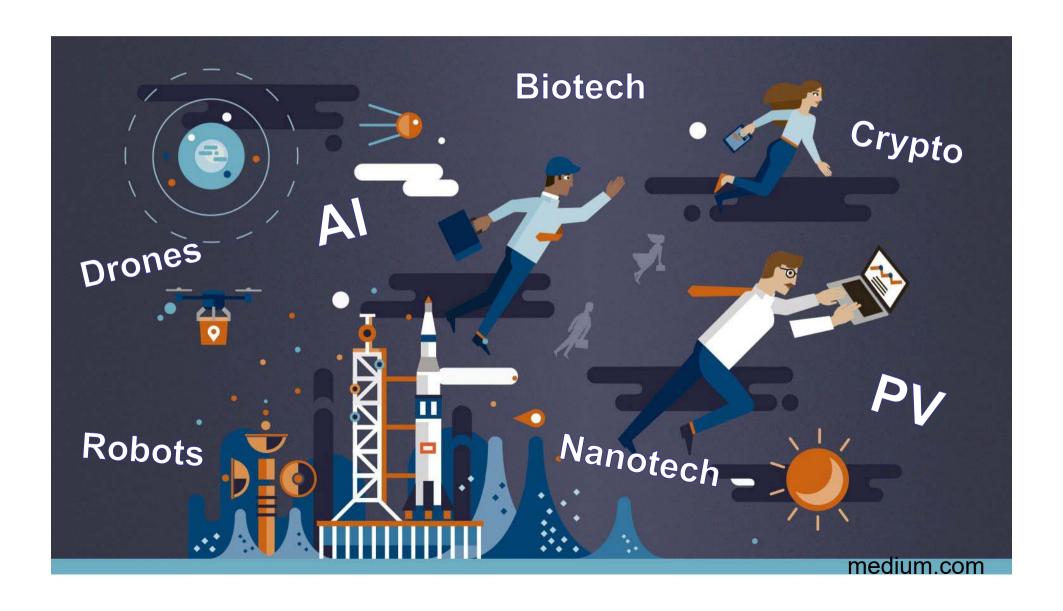
#### Doing what is right!

- Appeal to everyone's conscience
- Address our value system and the morality in society that has been eroded
- Politicians and leaders are benchmarked on material wealth as opposed to contribution in society
- Pride of South Africans need to be restored
- Fairness deliver value and be remunerated appropriately

#### **Procurement**



# Our Changing World



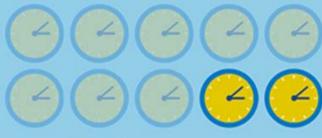
# Our World is Changing

#### WORLD POPULATION

7,572,737,939	Current World Population
108,237,382	Births this year
200,748	Births today
44,831,090	Deaths this year
83,148	Deaths today
63,406,291	Net population growth this year
117,600	Net population growth today

# THE CONSTRUCTION INDUSTRY IS RIPE FOR DISRUPTION

Large capital projects typically take



20% longer to finish...

...and are up to

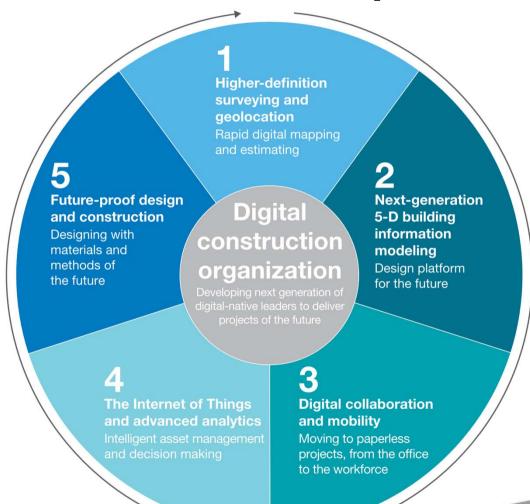


and R&D spending in construction runs well behind other industries.



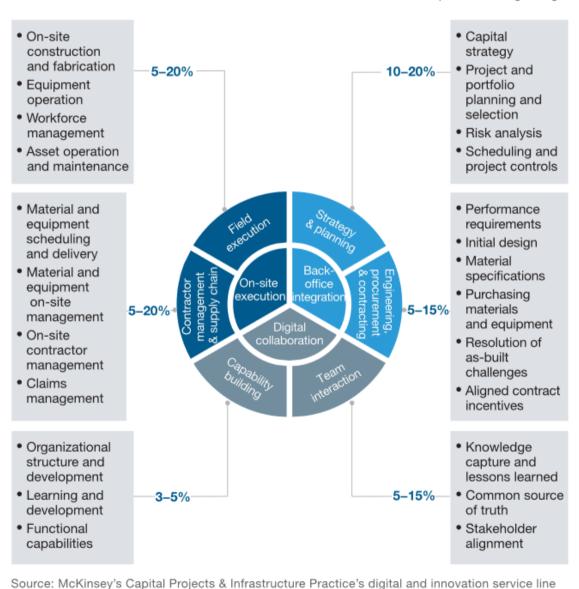
Note: Figure represents average percent of revenues

#### What can we expect?

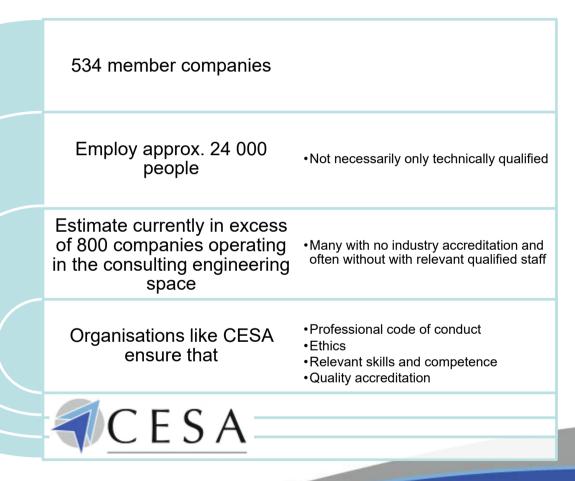


# Potential Savings Realisable from the Use of Technology

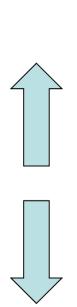
X-X% Expected savings range



#### **Consulting Engineers South Africa**



#### **Immediate Actions**

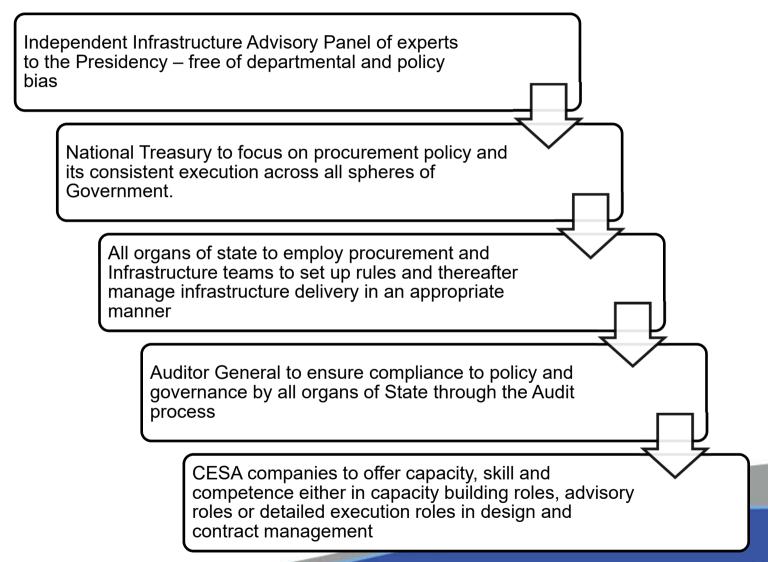


Technical Competence in Client Organisations

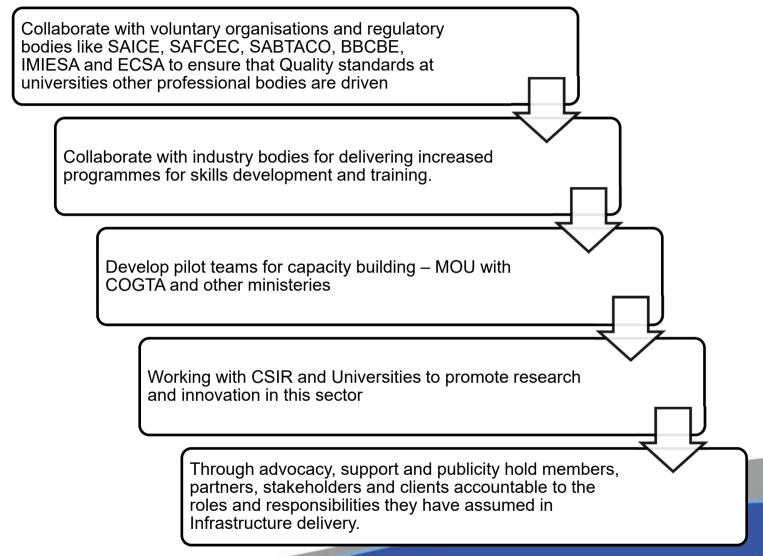
Procurement policies – consistent, transparent and fair

Encourage planning to increase pipeline of work so that we move towards stable and sustainable workload

#### Infrastructure Roadmap



#### **CESA Manifesto**



#### Let's Help Each Other In:



Reshaping our Future Together