

YOUR PARTNER IN ENABLING CONSULTING ENGINEERING EXCELLENCE

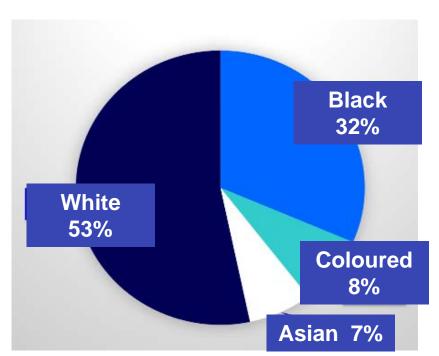
LET'S TALK TRANSFORMATION!

Lynne Pretorius, Pr.Eng

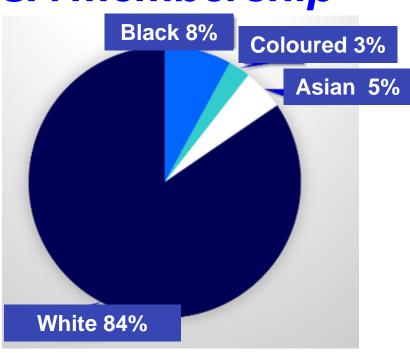




Profile of the CESA membership

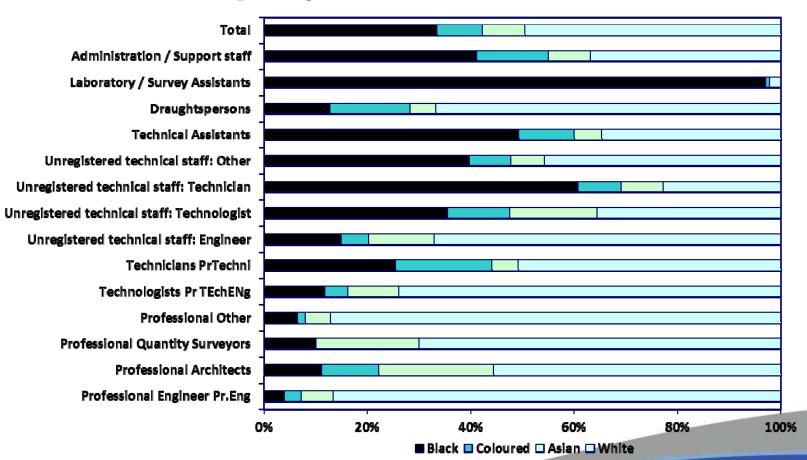


Profile by race

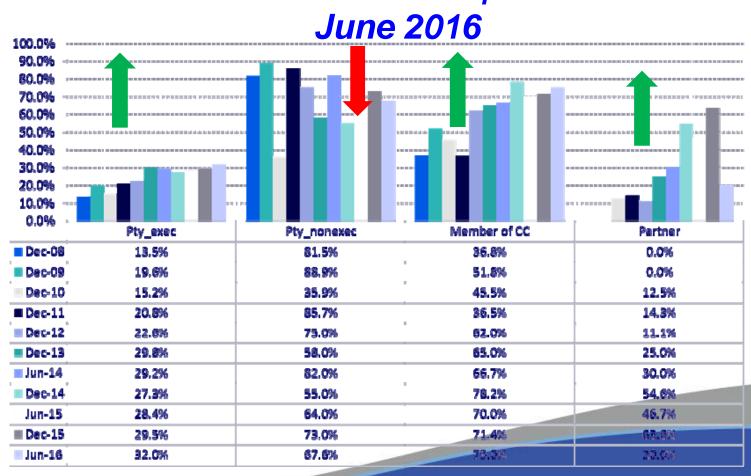


Profile of Professional Engineers by Race

Employment breakdown



Black (including Asian and Coloured) Executive Staff as % of total Executive | December 2008 -

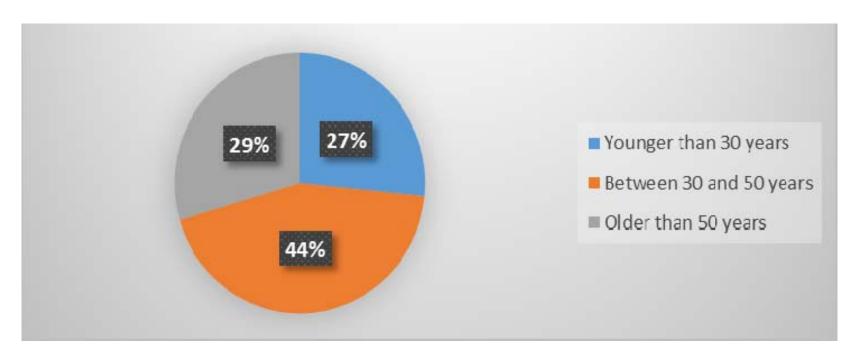


Breakdown of CESA membership

	SIZE OF FIRMS			
ANNUAL DECLARATION	LARGE	MEDIUM	SMALL	
PARAMETERS	> R35M	R11.5m< x < R35m	< R 11.5m	
No of firms	28	132	373	
No of employees	all > 100	30-100	1-30	
BBBEE	2-6	1-7	1-8	
No of Black-owned > 51%	1	22	99	
% black-owned	23%			
% of firms with black				
ownership > 51%	0.19%	4.13%	18.57%	
Non-black owned < 51%	27	110	274	
% of firms ito size of firms	5%	25%	70%	

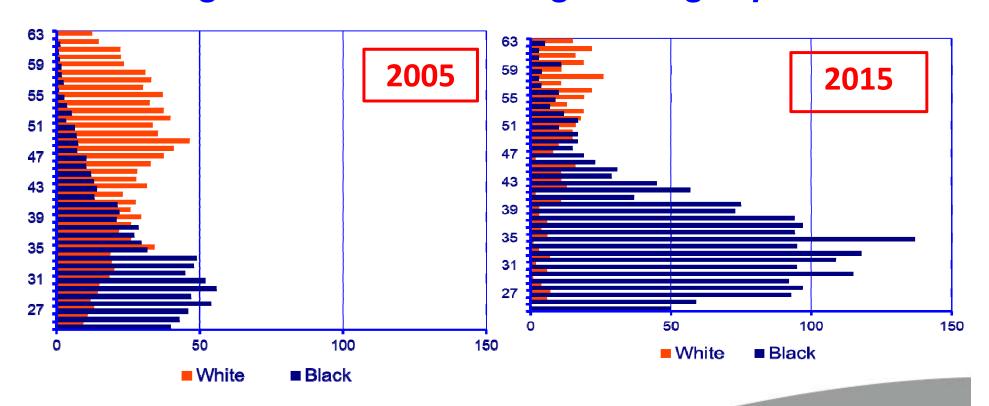
Source: CESA Membership Database, December 2016

Average age of engineering professional = 38 years



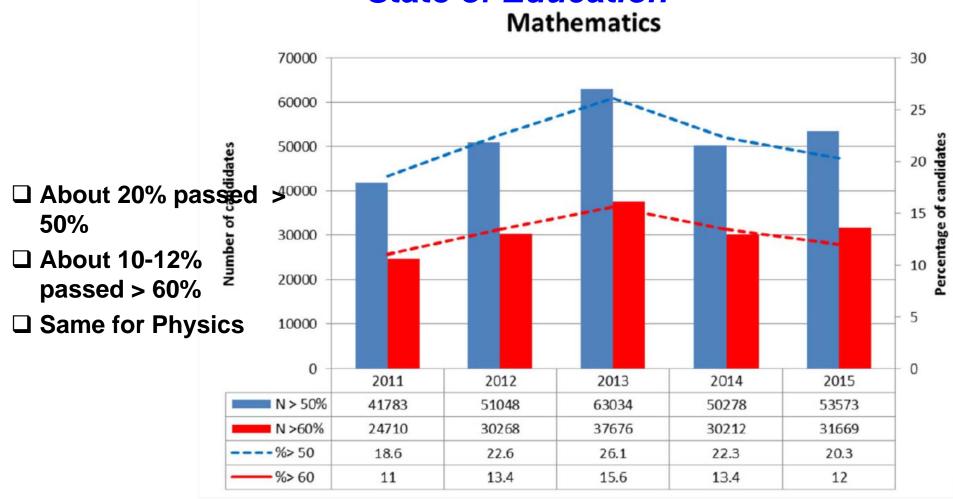
Source: Engineering Council of South Africa, National Engineering Skills Survey, December 2013

Local government – civil engineering expertise lost



Source: Dr Allyson Lawless, Numbers And Needs In Local Government – Update 2015, pape presented at the IMIESA conference, October 2016

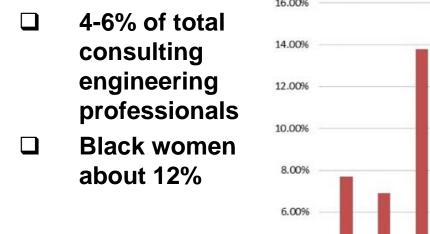




Source: Trends in International Mathematics and Science Study South Africa,

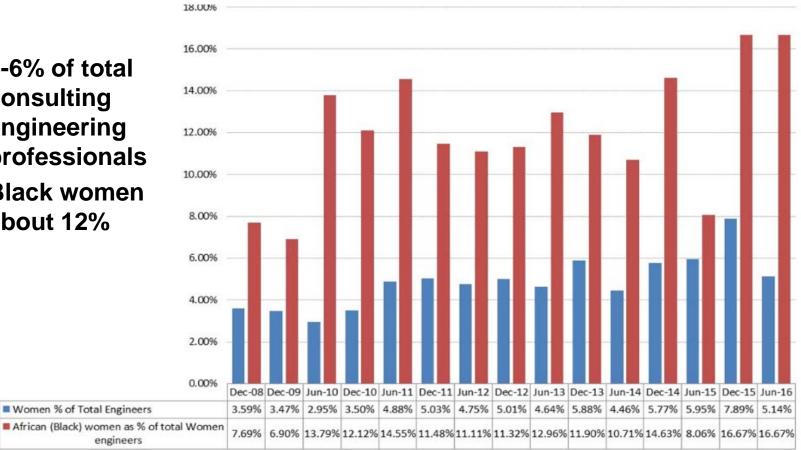
Matric: Better or worse?

Women in Engineering



■ Women % of Total Engineers

engineers



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- Limited amount of learners with adequate maths and science competence.
- □ CESA has limited information to track progress regarding transformation
- □ Ave age of engineering professionals is 38 years.
- □ Significant progress made in public sector
- Mentoring is a concern
- Overall sustainable development of all young engineering staff

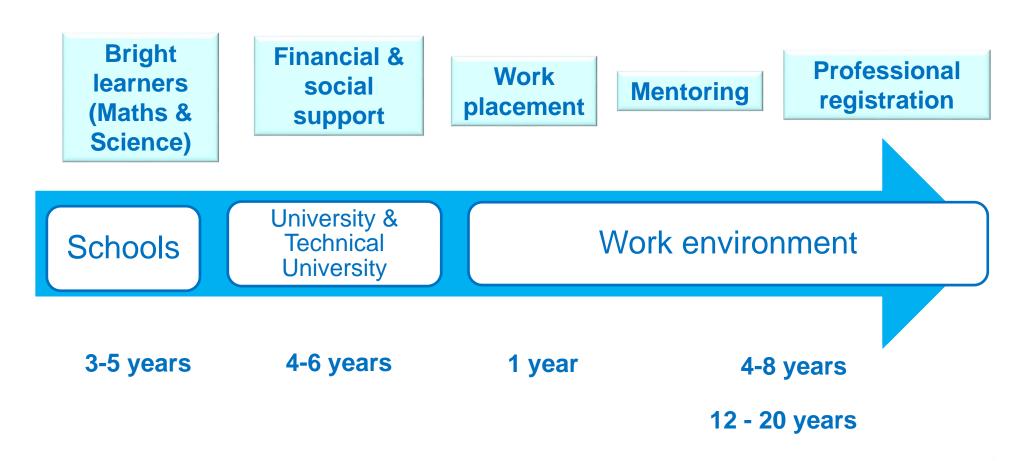


CESA's objectives

- Increased participation
 of black and female
 engineering staff/
 professionals at various
 levels of member firms.
- □ Transforming CESA's membership profile
- Sustainable growth and development of consulting engineering staff in private and public sector







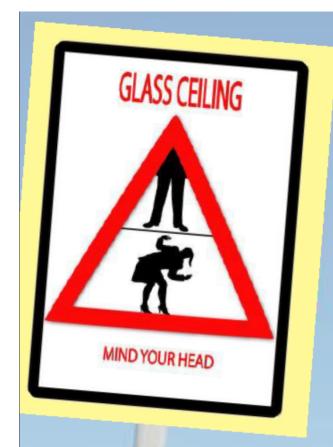
Get young engineering staff professionally registered



Support to small and medium size business

- ☐ No one size fits all approach
- Incubation program for start-up businesses
- ☐ Reduced fees over startup period
- Database of emerging firms
- Opportunities within joint ventures and subconsulting agreements



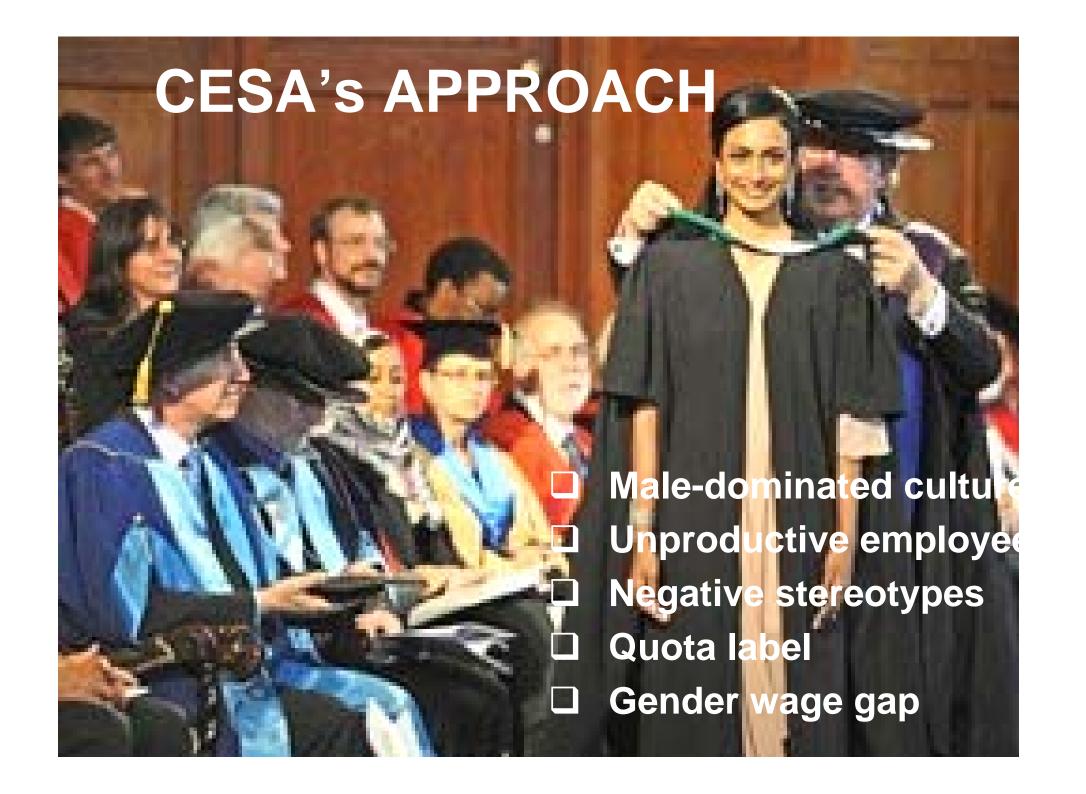


Breaking the Glass Ceiling

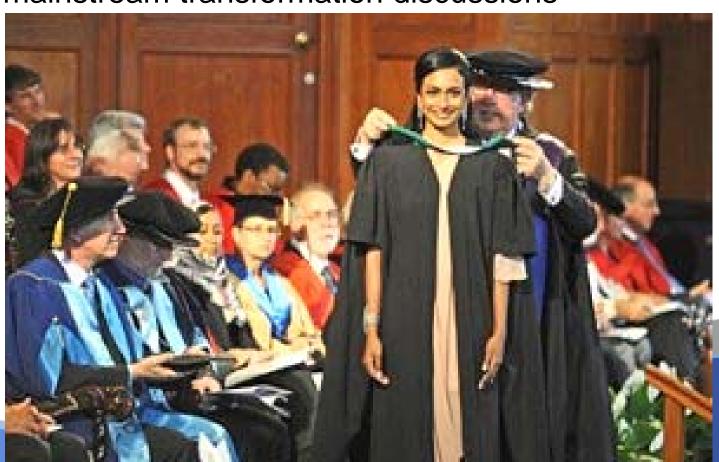
Women in Engineering

"unacknowledged barrier to advancement in a profession, especially affecting women and members of minorities"

"70% of women who graduate with engineering degrees, are lost when they start working due to isolation"



- Develop programs around diversity management
- Gender-related discussions should form part of mainstream transformation discussions







IMPROVED MONITORING

Annual declaration forms expanded to include staff demographics









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THANK YOU!

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