### Western Cape Province

**3 August 2023** 

Educator Demand Projections 2021-2030







#### Introduction (1)



- The proportion of educators that are 50 years or older has steadily risen between 2012 to 2021 in South Africa.
  - ⇒ Nationally a wave of educator retirements is expected as older educators reach the standard retirement age of between 60 and 65.

#### **Implications:**

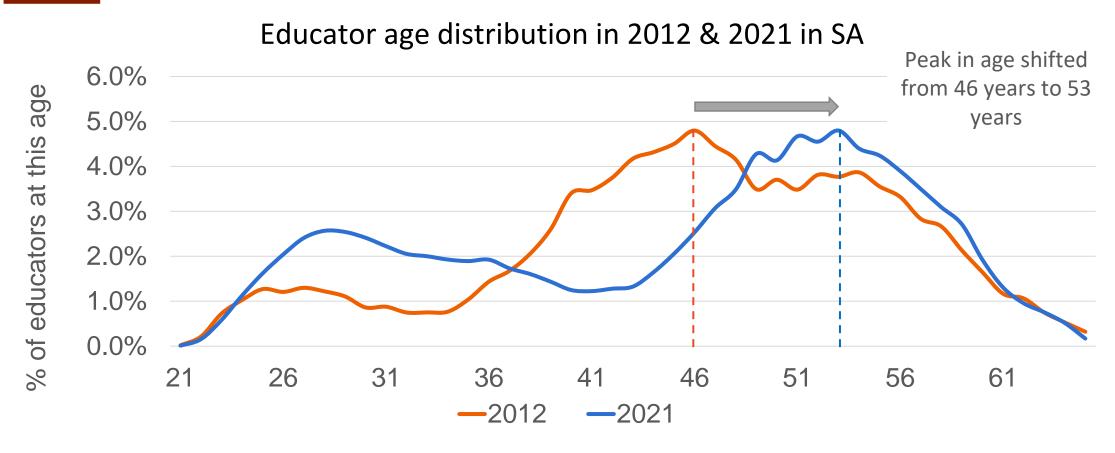
- Many more appointments: The retirement wave will open up both teaching & school management & leadership positions & other office-based education specialists.
- Total compensation of educators: Since older teachers earn more, when retiring they are replaced with younger (less costly) teachers, although this overall benefit is offset by shift to 1.5% annual notch progression.

#### Introduction (2)

- - As retirements increase, the required number of new appointments will need to increase to ensure that total educator numbers (at a minimum) stay at current levels and/or are sufficient to meet learner enrolment growth to prevent deterioration in learner-educator ratios.
  - Planning will be required to ensure that provinces are ready for the sustained increase in appointments.
  - If these positions are not filled, this could result in a further deterioration in the learner-educator ratio and lead to further increases in already large class sizes.

#### Introduction (3)





#### **Objective**



- In each province there are some differences in the age profile of teachers, differences in the expected growth of the school-going population and differences in expected teacher attrition (resignations & retirements).
  - $\Rightarrow$  The year of the retirement wave peak will differ across provinces.
  - ⇒ Also some provinces need to accommodate much more growth in learners than others.

In this presentation, we highlight the situation in Western Cape to inform province-specific planning.

#### **Overview**

- Age distributions
- 2 Projected retirements & resignations
- Provincial population and enrolment trends
- Public and independent school growth
- **5** Educator growth: Teachers and SMT positions
- 6 The implications for appointments and class sizes
- Expected financial implications to 2030
- Movement of educators: Between and within provinces
- Gender imbalance in school management
- Discussion

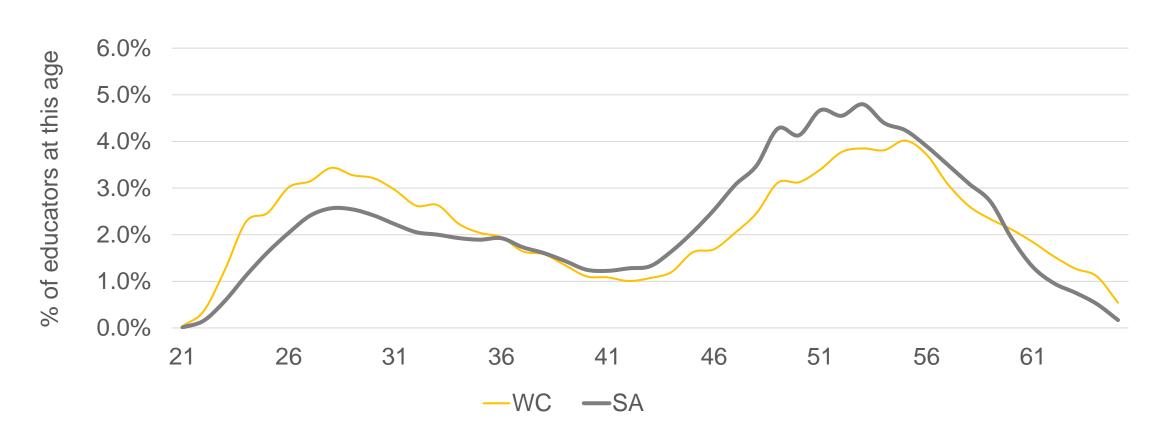
#### Western Cape educator demand summary

- Age distribution: The age distribution in the Western had a peak at around 55 years of age in 2021
- **Projected resignations and retirements**: Age-related retirement in the WC has already been high since about 2015; the number of senior educators (SMT positions and other specialists) that are retiring is expected to increase (73% were 50+ years old in 2021)
- Enrolment and population growth: Enrolment in WC ordinary schools grew by 22% from 2012 to 2021 (~230K learners), the school-aged population is forecast to grow by 15% (~200K learners) to 2030
- School and educator growth: From 2012 to 2021, the educator number in public schools increased but less than enrolment (+12%), increasing the LE ratio (excl. SGB). School numbers stayed constant.
- **SMT position changes:** In the WC, there has been a decline in the number of HODs (-9%), deputy principals (-3%), and principals (-13%) from 2012 to 2021, but teacher numbers increased (+22%)
- **Appointments and LE Ratio:** Increases in appointments are needed in response to enrolment growth; otherwise, the LE ratio will increase further (it rose from 28.9 to 31.5 from 2012 to 2021)
- **Projected educator cost trends:** WC will experience a fall in average cost of educators (especially for senior educators, real decline of ~7%). The decrease in educator unit cost should free up some budget to replace and grow the educator workforce, increase promotion rates or other spending
- Educator movements: Low movements into and out of the Western Cape, but the attrition rate of younger educators (aged 50 and below) is relatively high, about 6.5%.

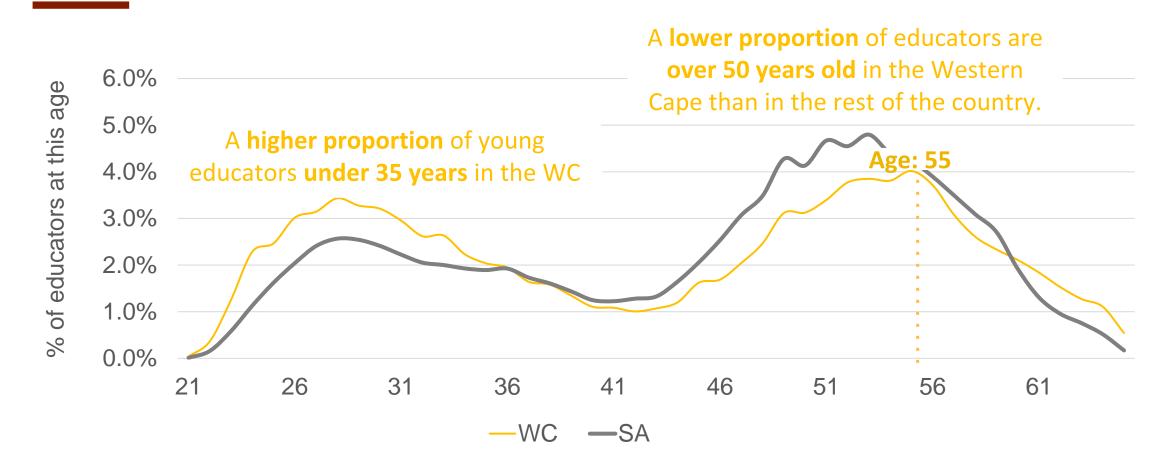
# Age distributions and projected retirements and resignations

#### Educator age distribution (2021)





#### Educator age distribution (2021)



#### Older teacher proportions for senior educator and primary schools educators

#### Percentage of educators aged 50+ in 2021

Province	All educators	Senior educators (HOD, Dep principals, Principals & Other)	Primary school educators				
EC	51%	71%	58%				
FS	43%	65%	49%				
GP	41%	65%	42%				
KN	39%	65%	44%				
LP	58%	81%	63%				
MP	50%	73%	55%				
NC	43%	69%	44%				
NW	47%	70%	52%				
WC	42%	73%	40%				

Source: Anonymised PERSAL data from 2021, only educators (Rank 60 000 – 69 999) are considered. ECD practitioners, TVET lecturers and ABET teachers were removed. The 2021 rankclass file was expanded to include ranks found only in years prior to 2021, used to classify educators by rank. Primary school only includes all educators that are in a component that is classified as a Primary school.

#### Older teacher proportions for senior educator and primary schools educators

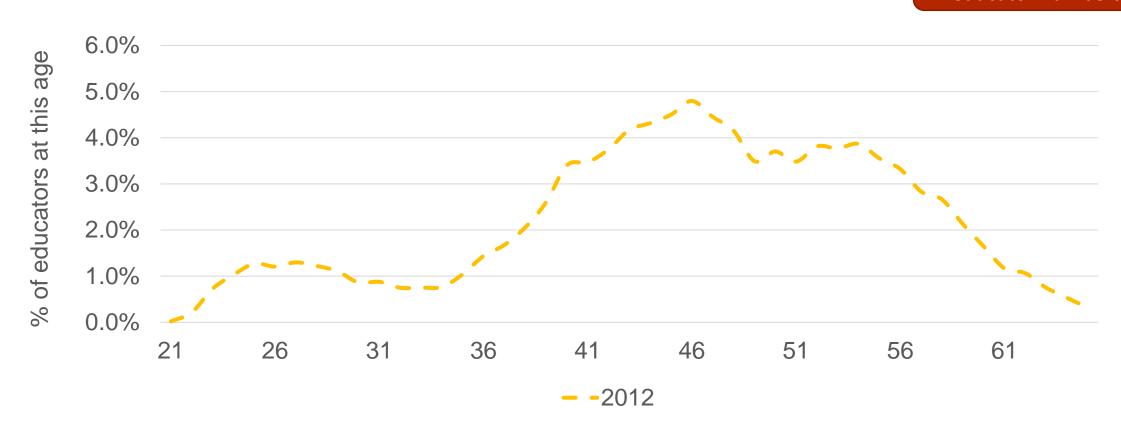
#### Percentage of educators aged 50+ in 2021

Province	All educators	Senior educators (HOD, Dep principals, Principals & Other)	Primary school educators
EC			
FS			
GP			
KN			
LP		ge numbers of S	• 05/0
MP		d education spec	
NC	43%	ed <b>50 years and (</b> the WC	older in 2021
NW	47%	70%	
WC	42%	73%	40%

Source: Anonymised PERSAL data from 2021, only educators (Rank 60 000 – 69 999) are considered. ECD practitioners, TVET lecturers and ABET teachers were removed. The 2021 rankclass file was expanded to include ranks found only in years prior to 2021, used to classify educators by rank. Primary school only includes all educators that are in a component that is classified as a Primary school.

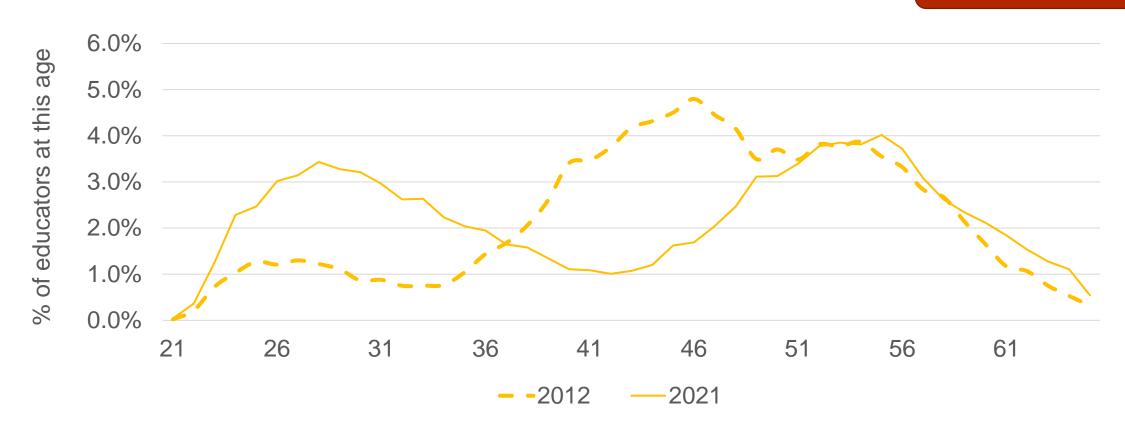
## Educator age distribution 2012, 2021 & 2030

Assume constant 2021 educator numbers



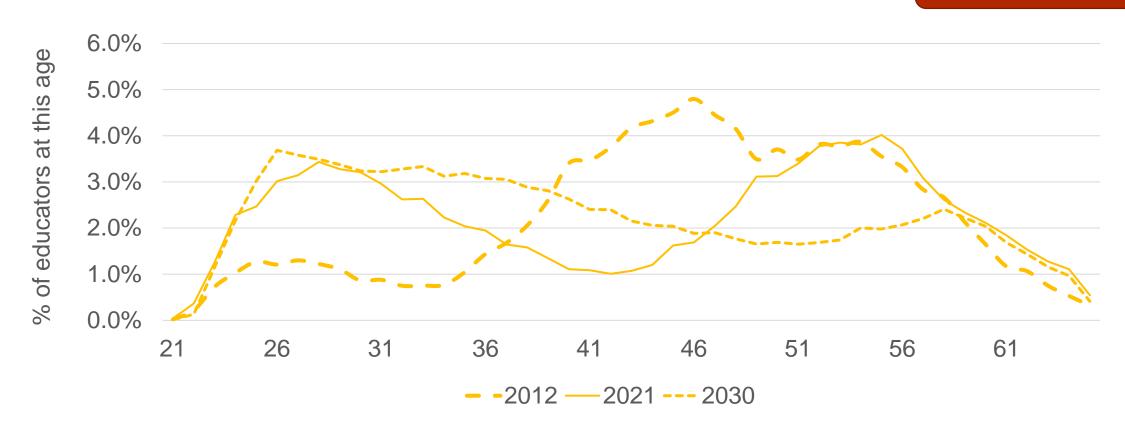
## Educator age distribution 2012, 2021 & 2030

Assume constant 2021 educator numbers



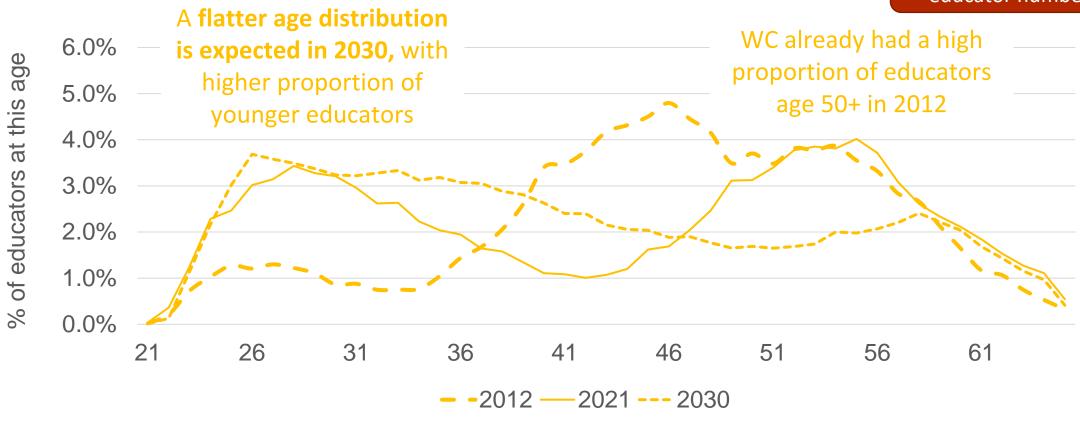
## Educator age distribution 2012, 2021 & 2030

Assume constant 2021 educator numbers



## Educator age distribution 2012, 2021 & 2030

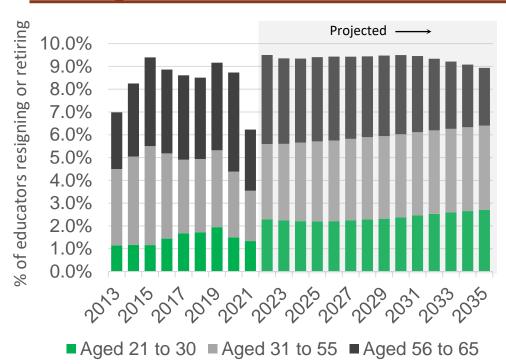
Assume constant 2021 educator numbers



#### Projected resignation & retirements (WC)

Assume constant 2021 educator numbers

#### Proportion of Educators



- The majority of educators that exit PERSAL in the Western Cape are aged 55 and below
- The number of young teachers (ages 21-30) resigning is projected to increase as the number of newly hired young teachers increases
- The proportion of retirements of total leavers is expected to decline from 2022 to 2030

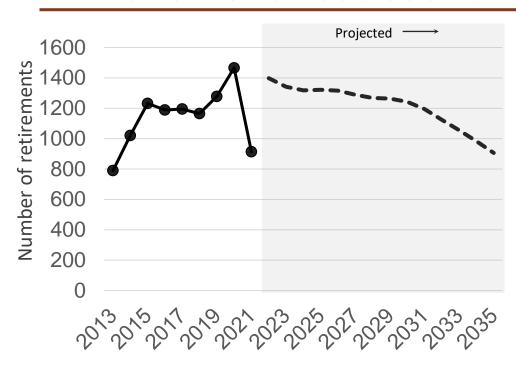
Source: Anonymised 10-year PERSAL data, only educators (Rank 60 000 – 69 999) are considered. ECD practitioners, TVET lecturers and ABET teachers were removed. Estimates to 2035 derived from the National and provincial models – assumption of no growth in educator numbers.

#### Projected resignation & retirements (WC)



Assume constant 2021 educator numbers

#### Retirement headcount

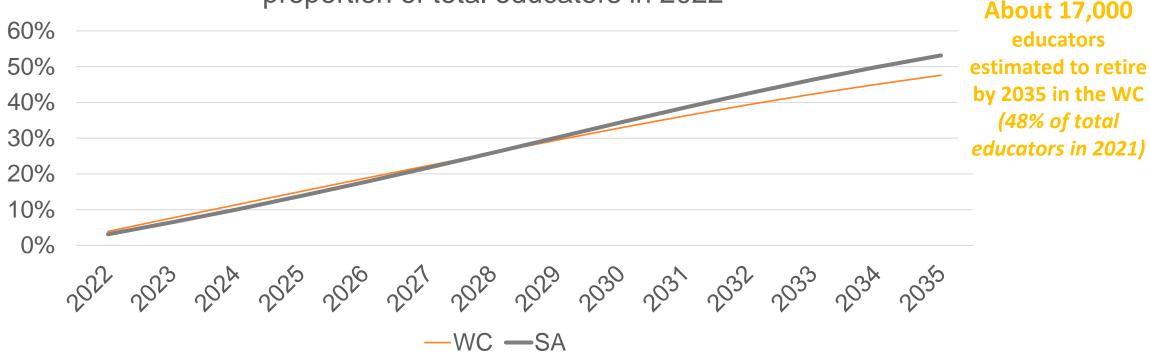


- The number of retirements in the Western Cape is roughly at its peak in about 2022-2025
- The number of retirements is projected to decrease from about 1,400 in 2022 to about 900 in 2035

#### Older leaver trend estimates to 2035

Assume constant 2021 educator numbers

Cumulative proportion of estimated leavers aged 56-65 as a proportion of total educators in 2022



Source: Anonymised 2021 PERSAL data, only educators (Rank 60 000 – 69 999) are considered. ECD practitioners, TVET lecturers and ABET teachers were removed. Estimates to 2035 derived from the National and provincial models – assumption of no growth in educator numbers.

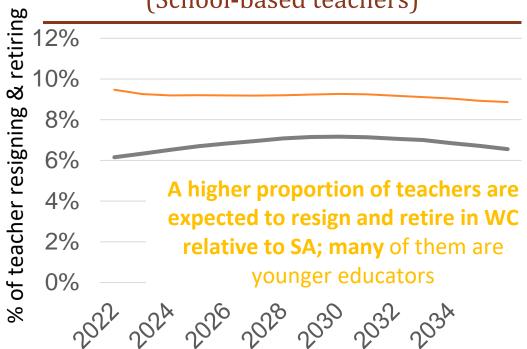
#### Projected educators leaving

Assume constant 2021 educator numbers



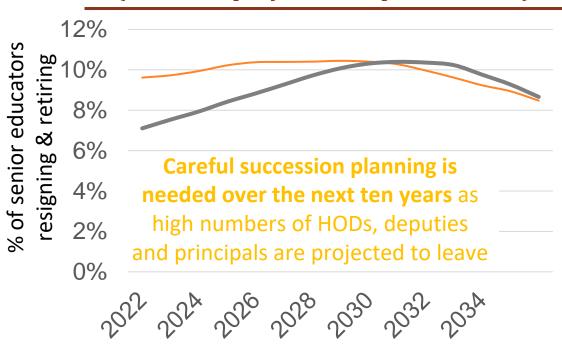
#### **Teachers**

(School-based teachers)



#### Senior educator

(HODs, Deputy's, Principals & Other)

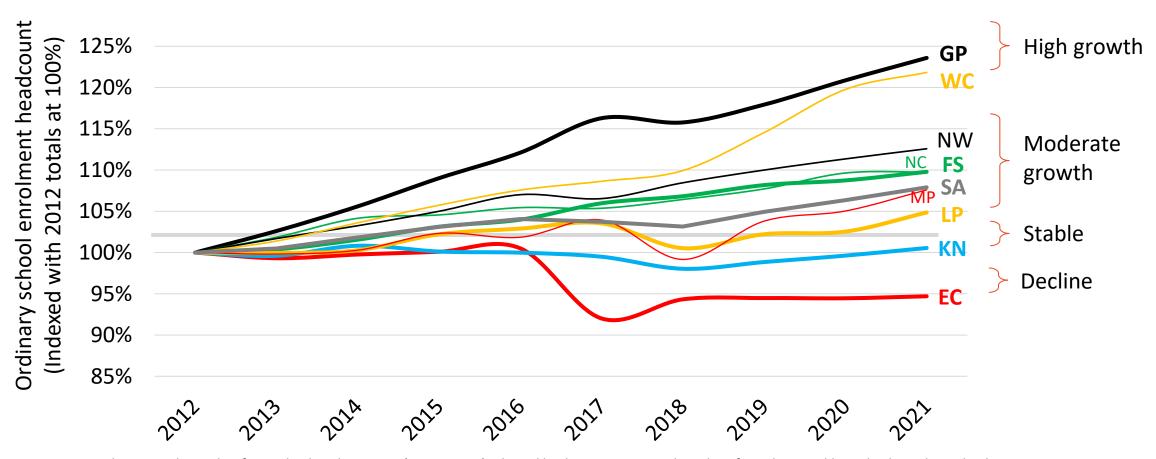


—WC —SA

## Provincial population and enrolment trends

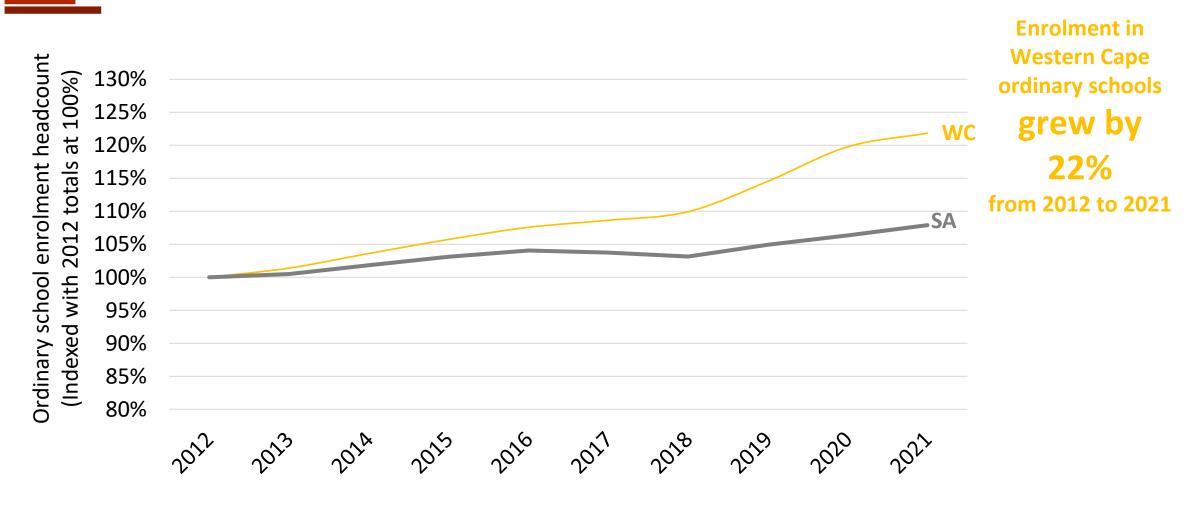
#### Provincial enrolment trends (2012-2021)



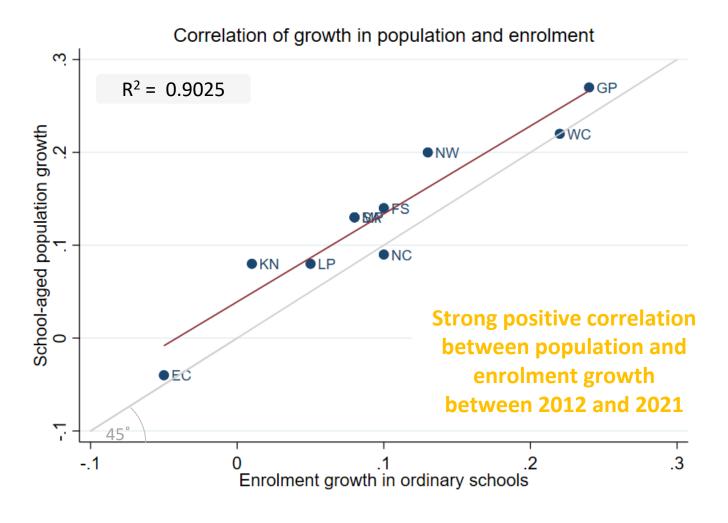


Source: Enrolment numbers taken from School Realities-EMIS (2012 – 2021) released by the DBE, using total numbers for ordinary public and independent schools.

#### Provincial enrolment trends (2012-2021)



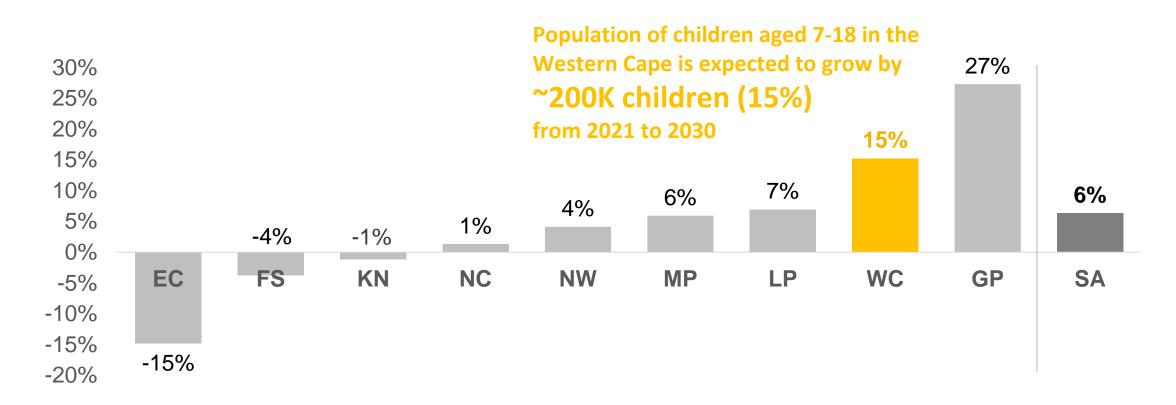
Correlation between population and enrolment growth (2012-2021)



Source: Thembisa age specific data V4.5 for school-aged population (Ages 7-18) estimates and enrolment taken from School Realities-EMIS (2012 – 2021) released by the DBE, for numbers on ordinary public and independent schools (Statistical Publications (education.gov.za))

#### Projected growth in school-aged population





Note: Period 2021 – 2030 is the same timeframe, nine years, as 2012 – 2021.

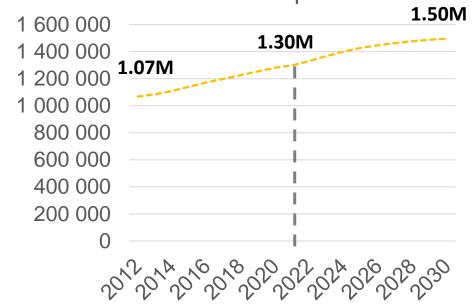
Source: Thembisa age-specific estimates from the model V4.5 for children aged 7-18 by province

#### School aged-population estimates to 2030



	Number	Growth	Growth		
<b>Province</b>	2012	2021	2030E	'12-21	'21-30
EC	1 657 202	1 598 475	1 361 637	-4%	-15%
FS	592 445	676 489	650 820	14%	-4%
GP	1 962 793	2 498 533	3 180 884	27%	27%
KN	2 485 822	2 690 378	2 657 716	8%	-1%
LP	1 395 864	1 507 386	1 612 125	8%	7%
MP	977 749	1 100 594	1 165 728	13%	6%
NC	254 075	277 560	281 208	9%	1%
NW	742 943	893 530	930 323	20%	4%
WC	1 068 009	1 298 801	1 496 731	22%	15%
Total	11 136 902	12 541 746	13 337 172	13%	6%

Projected number of school aged children (7-18 yrs) in Western Cape



Note: Period 2021 – 2030 is the same timeframe, nine years, as 2012 – 2021.

Source: Thembisa age-specific estimates from the model V4.5 for children aged 7-18 by province

## Public and independent school growth



% growth from 2012 - 2021

_			70 growth jie	7111 ZU1Z - ZUZI		
Province	Number of educators	Number of teachers	Number of public ordinary schools	Enrolment in public ordinary schools	Enrolment in ordinary schools	Est. school-aged population
EC	-17%	-20%	-8%	-6%	-5%	-4%
FS	-13%	-13%	-27%	9%	10%	14%
GP	21%	28%	1%	20%	24%	27%
KN	-5%	-3%	-3%	1%	1%	8%
LP	-8%	-2%	-7%	4%	5%	8%
MP	3%	7%	-8%	7%	8%	13%
NC	6%	9%	-3%	9%	10%	9%
NW	2%	4%	-9%	12%	13%	20%
WC	12%	22%	0%	21%	22%	22%
SA	-1%	2%	-6%	7%	8%	13%



			% growth fro	m 2012 - 2021		
Province	Number of educators	Number of teachers	Number of public ordinary schools	Enrolment in public ordinary schools	Enrolment in ordinary schools	Est. school-aged population
EC						
FS						
GP						
KN						
LP MP NC			umber of all p h lower then t			
NW						
WC	12%	22%	0%	21%	22%	22%
SA	-1%	2%	-6%	7%	8%	13%

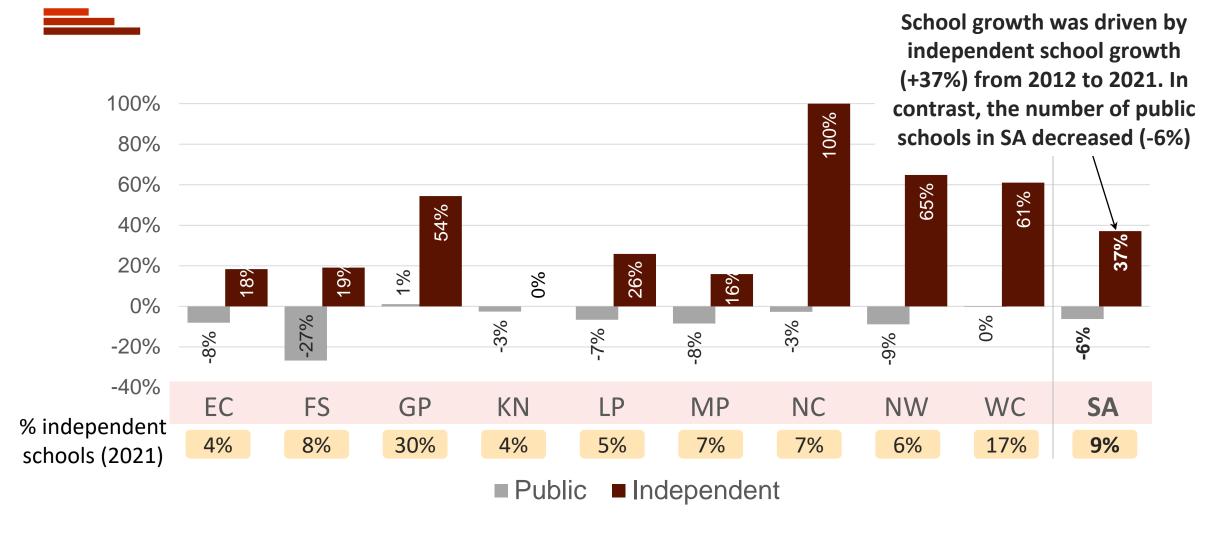


			% growth fro	m 2012 - 2021		
Province	Number of educators	Number of teachers	Number of public ordinary schools	Enrolment in public ordinary schools	Enrolment in ordinary schools	Est. school-aged population
EC						
FS						
GP						
KN						
LP MP NC			umber of L1 to			ape
NW						
WC	12%	22%	0%	21%	22%	22%
SA	-1%	2%	-6%	7%	8%	13%

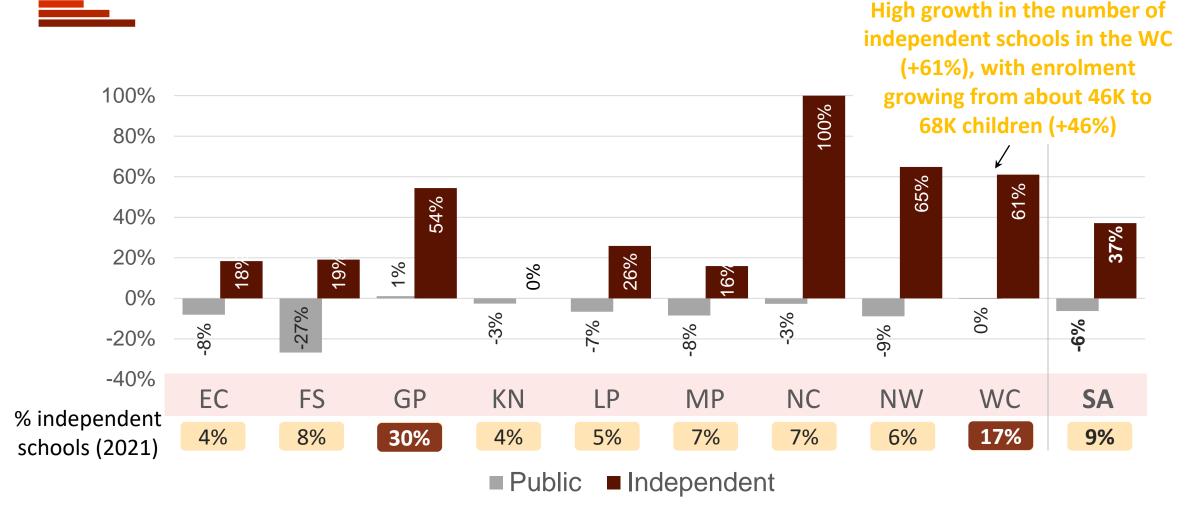


			% growth fro	om 2012 - 2021		
Province	Number of educators	Number of teachers	Number of public ordinary schools	Enrolment in public ordinary schools	Enrolment in ordinary schools	Est. school-aged population
EC						
FS						
GP						
KN						
LP MP NC			ator numbers a ordinary scho		•	
NW			-970	1270		
WC	12%	22%	0%	21%	22%	22%
SA	-1%	2%	-6%	7%	8%	13%

#### School growth from 2012 to 2021



#### School growth from 2012 to 2021



# Educator growth by teachers and SMT positions

#### Changes in teacher and SMT numbers



Teacher						HOD			Dep	uty-Princ	ipal			Principal		
Province	2012	2021	Diff	% change	2012	2021	Diff	% change	2012	2021	Diff	% change	2012	2021	Diff	% change
EC	50 295	40 115	-10 180	-20%	5 870	6 196	326	6%	1 342	1 453	111	8%	5 294	4 755	- 539	-10%
FS	20 148	17 561	-2 587	-13%	2 685	2 470	- 215	-8%	852	768	- 84	-10%	1 224	892	- 332	-27%
GP	47 233	60 677	13 444	28%	8 708	9 209	501	6%	2 565	2 850	285	11%	2 162	1 959	- 203	-9%
KN	73 050	71 000	-2 050	-3%	11 289	10 330	- 959	-8%	2 642	2 342	- 300	-11%	5 584	5 055	- 529	-9%
LP	44 998	44 317	- 681	-2%	6 090	3 762	-2 328	-38%	1 562	778	- 784	-50%	3 510	3 316	- 194	-6%
MP	26 127	27 857	1 730	7%	4 047	4 055	8	0%	1 108	1 114	6	1%	1 790	1 450	- 340	-19%
NC	7 257	7 929	672	9%	1 034	1 094	60	6%	294	365	71	24%	587	488	- 99	-17%
NW	21 305	22 261	956	4%	2 994	3 023	29	1%	902	1 041	139	15%	1 698	1 338	- 360	-21%
WC	23 579	28 665	5 086	22%	4 065	3 700	- 365	-9%	1 334	1 297	- 37	-3%	1 531	1 339	- 192	-13%
SA	313 992	320 382	6 390	2%	46 782	43 839	-2 943	-6%	12 601	12 008	- 593	-5%	23 380	20 592	-2 788	-12%

Source: Anonymised PERSAL data from 2012 and 2021, only educators (Rank 60 000 – 69 999) are considered. ECD practitioners, TVET lecturers, and ABET teachers were removed. The 2021 rankclass file was expanded to include ranks found only in years prior to 2021.

#### Changes in teacher and SMT numbers



			HOD			Deputy-Principal				Principal						
Province	2012	2021	Diff	% change	2012	2021	Diff	% change	2012	2021	Diff	% change	2012	2021	Diff	% change
EC																
FS																
GP										2 850 Lorgo	d 28	dino ir	2 162	1 959	- 20	bors
KN										2 347		line ir	5 584	5 055	num	bers
LP										betw	een	2012	and 2	021		
MP										(princi	pal a	ppointr	nents	still in	progr	ess,
NC										potent	tially	delaye	d by Co	OVID)		
NW																
WC	23 579	28 665	5 086	22%	4 065	3 700	- 365	-9%	1 334	1 297	- 3	7 -3%	1 531	1 339	- 19	2 -13%
SA	313 992	320 382	6 390	2%	46 782	43 839	-2 943	-6%	12 601	12 008	- 59	<b>3</b> -5%	23 380	20 592	-2 78	8 -12%

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#### Changes in teacher and SMT numbers



		Teacher				HOD			Dep	uty-Princ	ipal			Principal		
Province	2012	2021	Diff	% change	2012	2021	Diff	% change	2012	2021	Diff	% change	2012	2021	Diff	% change
EC				-20%				6%								
FS																
GP							50	6%	2 565	2 850	28					
KN							Dec	cline i	n HOE	) and	dep	uty				
LP							prii	ncipal	numk	oers k	etw	reen				
MP							201	2 and	2021	, pos	sibly	due to	1 790			
NC							- 61	6%		365	7	1 24%	587			
NW							buc	lget co	טווטנו פ	111115						
WC	23 579	28 665	5 086	22%	4 065	3 700	- 36!	-9%	1 334	1 297	- 3	7 -3%	1 531	1 339	- 192	2 -13%
SA	313 992	320 382	6 390	2%	46 782	43 839	-2 943	<b>3</b> -6%	12 601	12 008	- 59	<b>3</b> -5%	23 380	20 592	-2 788	-12%

Source: Anonymised PERSAL data from 2012 and 2021, only educators (Rank 60 000 – 69 999) are considered. ECD practitioners, TVET lecturers, and ABET teachers were removed. The 2021 rankclass file was expanded to include ranks found only in years prior to 2021.

#### Proportional split by educator rank



	All Edu	cators	Teacher		НС	OD	DepF	Principal	Princ	cipal	Oth	ner
	2012	2021	2012 202	1	2012	2021	2012	2021	2012	2021	2012	2021
EC	100%	100%	78% 🔻 759	6	9% 4	12%	2.1%	<b>2.7%</b>	8.2%	8.8%	2.5%	2.4%
FS	100%	100%	78% 789	6	10%	11%	3.3%	3.4%	4.7%	4.0%	3.7%	3.3%
GP	100%	100%	74% 🔷 799	6	14%	12%	4.0%	3.7%	3.4%	2.6%	4.4%	2.7%
KN	100%	100%	77% 799	%	12%	11%	2.8%	2.6%	5.9%	5.6%	2.1%	1.3%
LP	100%	100%	78% 📤 849	6	11%	7%	2.7%	1.5%	6.1%	6.3%	2.1%	1.5%
MP	100%	100%	76% 🔷 799	6	12%	12%	3.2%	3.2%	5.2%	4.1%	3.2%	1.8%
NC	100%	100%	75% 779	6	11%	11%	3.0%	3.6%	6.1%	4.8%	5.1%	3.9%
NW	100%	100%	76% 789	6	11%	11%	3.2%	3.7%	6.1%	4.7%	3.7%	2.6%
WC	100%	100%	74% 🛖 809	6	13%	10%	4.2%	3.6%	4.8%	3.7%	4.1%	2.1%
SA	100%	100%	77% 799	6	11%	11%	3.1%	3.0%	5.7%	5.1%	3.1%	2.1%

Source: Anonymised PERSAL data from 2012 and 2021, only educators (Rank 60 000 – 69 999) are considered. ECD practitioners TVET lecturers and ABET teachers were removed. The 2021 rankclass file was expanded to include ranks found only in years prior to 2021. The percentage within each rank is calculated taking the total number of educator in that year for that rank over the total number of educators in that year.

#### Proportional split by educator rank



	All Edu	All Educators		cher	Н	OD	DepP	rincipal	Principal		Otl	her
	2012	2021	2012	2021	2012	2021	2012	2021	2012	2021	2012	2021
EC												
FS												
GP												
KN												
LP												
MP			The	portion	s of the	differe	nt educ	ator ran	ks in th	e Weste	ern Cape	
NC			appe	ear to be	e roughl	v in line	with the	e nation	al avera	age in 20	021	
NW	100%	100%	7070	/ ŏ7o	1170	<b>117</b> 0	5.270	5./70	0.170	▼ 4./7o	5./70	2.6%
WC	100%	100%	74%	80%	13%	10%	4.2%	3.6%	4.8%	3.7%	4.1%	2.1%
SA	100%	100%	77%	79%	11%	11%	3.1%	3.0%	5.7%	5.1%	3.1%	2.1%

Source: Anonymised PERSAL data from 2012 and 2021, only educators (Rank 60 000 – 69 999) are considered. ECD practitioners TVET lecturers and ABET teachers were removed. The 2021 rankclass file was expanded to include ranks found only in years prior to 2021. The percentage within each rank is calculated taking the total number of educator in that year for that rank over the total number of educators in that year.

# Implications for appointments, class sizes and infrastructure

### Projected increase in appointments & promotions

~850

additional educators will need to be appointed annually

**3 145** educators

~4 000 educators

Mean number of annual joiners over the period 2012 - 2021

Projected mean number of annual leavers from 2026 – 2030, plus educators needed to grow workforce by 10%\* to 2030

- Increase in expected annual over the period 2026 to 2030 relative to 2012 to 2021, if growth in the workforce (~+10%) is assumed
- Appointment processes will need to be strengthened

<sup>\*</sup>Assumes total educator numbers increase by ~400 educators annually between 2022 - 2030

### Projected increase in appointments & promotions

~200 - 250

Additional promotion posts will be vacated annually

**510** educators

Mean number of senior educators that left annually over the period 2012 - 2021

**~740**educators

Projected number of senior educators that leave annually over the period 2026 – 2030, assuming **0% growth\*** in promotion positions

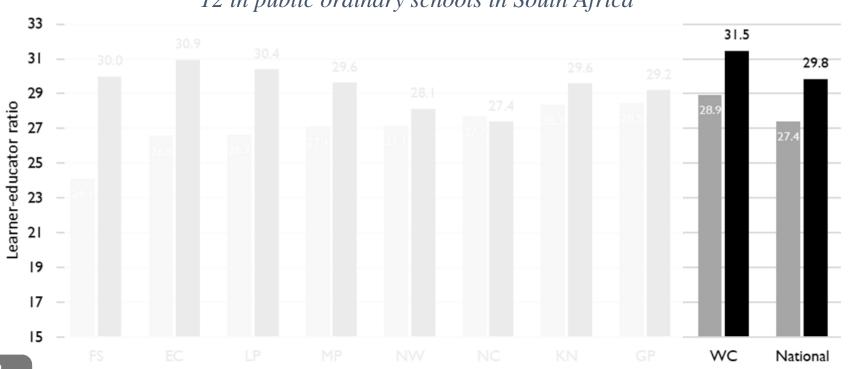
- Increase in expected annual promotions over the period 2026 to 2030 relative to 2012 to 2021 of about 45%.
- Promotion processes
   will need to be
   strengthened, and
   careful succession
   planning will be
   required

<sup>\*</sup>A conservative estimate, as this assumes only existing posts will be filled, no new posts created

#### Learner-public educator ratios ('12 & '21)



National and provincial learner-to-public-educator ratios in 2012 and 2021, grades 1 to 12 in public ordinary schools in South Africa



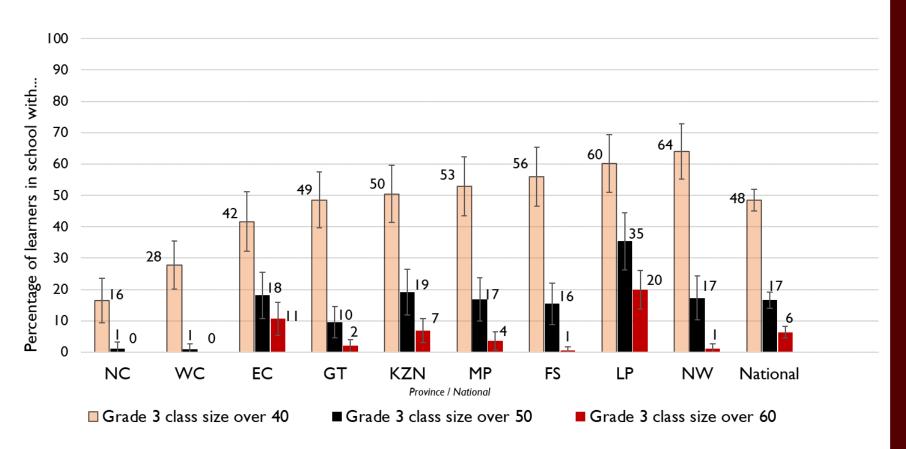
LE ratio rose from 28.9 learners per educator to 31.5 learners per educator in Western Cape, more than the national average.

However, some of this is offset by SGB positions.

Excl. SGB teachers

■ 2012 **■** 2021

### Grade 3 class sizes (2017/18 School Monitoring Survey)



Data source: SMS 2017/18. Learner weights applied. Educator responses averaged at school level. Technically estimates should be interpreted in relation to grade 6 learners. FS = Free State, EC = Eastern Cape, LP = Limpopo Province, MP = Mpumalanga Province, NC = Northern Cape, KN = KwaZulu-Natal, GP = Gauteng, WC = Western Cape.

Post-provisioning guidelines - Class sizes should not exceed 35 in Grade 3.

% of learners in grade 3 classes > 40: 48% in SA, 28% in WC

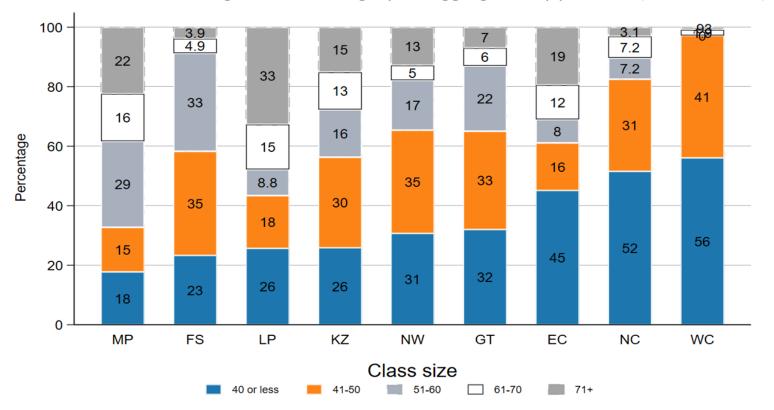
% of learners in grade 3 classes > 50: 17% in SA, ~1% in WC

% of learners in grade 3 classes > 60: 6% in SA, ~0% in WC

Note: Nationally, grade 3 enrolment numbers had been rising from about 2011 and peaked in 2017 before starting to decline slightly, stabilising at about 1,1 million in 2021 (Gustafsson 2022a, p10-11). Holding other things constant, grade 3 class sizes will be similar or slightly smaller in 2022 than what is seen in these 2017/18 SMS estimates.

#### Largest classes - School Monitoring Survey 2017/18

Percentage of grade 6 learners in schools with an educator reporting that their **largest** class is in the following class size category, disaggregated by province (SMS 2017/18)



Source: Figure 1 in South African teacher shortages as revealed through class sizes and learner-educator ratios: An exploratory analysis by Gabrielle Wills (2023) using School Monitoring Survey 2017/18 (953 schools, learner weighted).

- In 2017/18, the
   Western Cape was the
   province with the
   lowest percentage of
   large classes with more
   than 50 learners (~3%)
- A further deterioration of the LE ratio will drive up class size and the number of excessively large classes, negatively impacting quality and teacher motivation

#### Western Cape school infrastructure plans





WCED announces unprecedented school infrastructure delivery programme

13 December 2022

\* 842 additional classrooms with at least 26 000 places

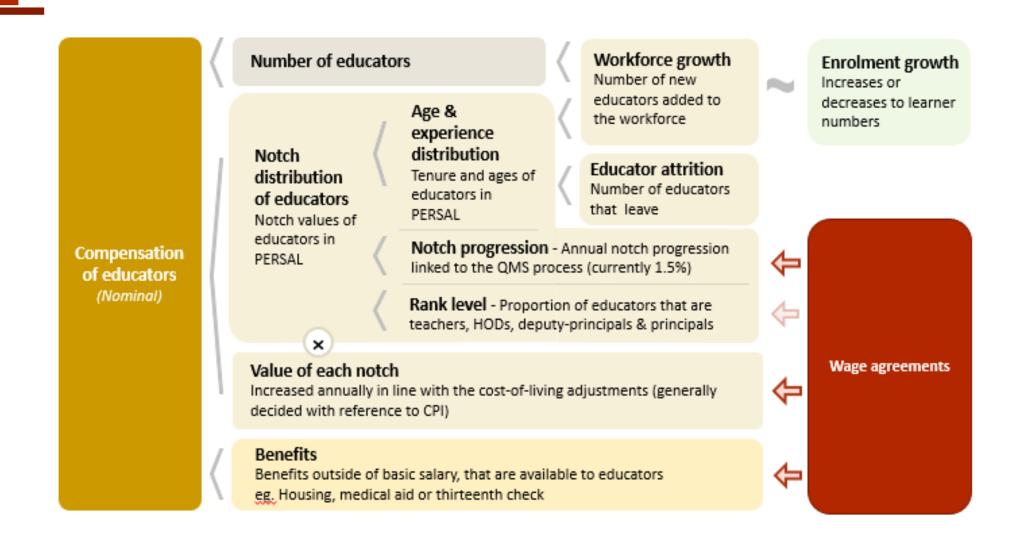
To be completed by March 2023

Programme looks positive

What are the plans for the coming years?

## Expected financial implications to 2030

#### Unit cost drivers



## Real and nominal costs

A real increase in wages takes place when wages increase **above** the rate of inflation

Changes to real wages are an indicator of purchasing power

#### Examples:

In 2022 CPI was **7.2**%

If nominal wages increase by 7.2%, then real wages increase by 0%

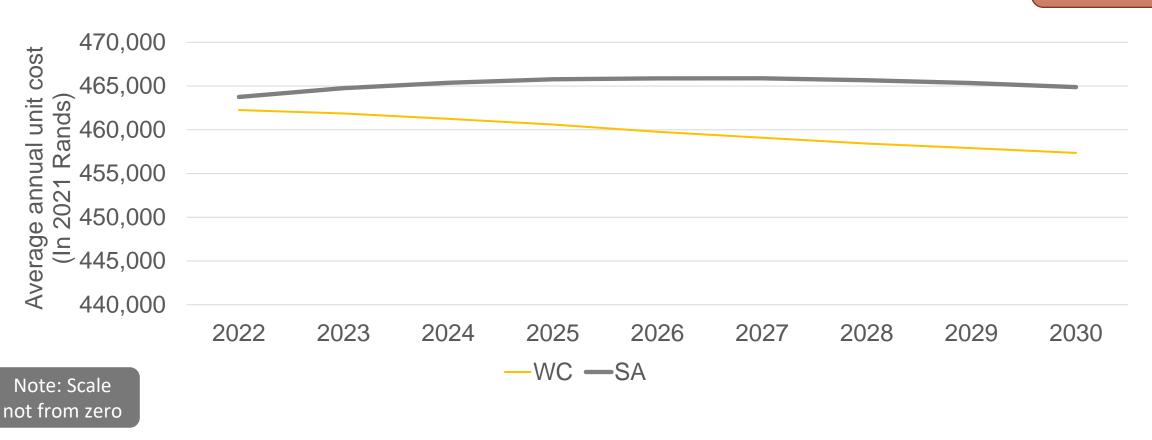
If **nominal wages** increase by **9%**, then **real wages** increase by **1.8%** 

If **nominal wages** increase by **5%**, then real wages **decrease** by 2.2%

#### Projected unit costs trends | All educators



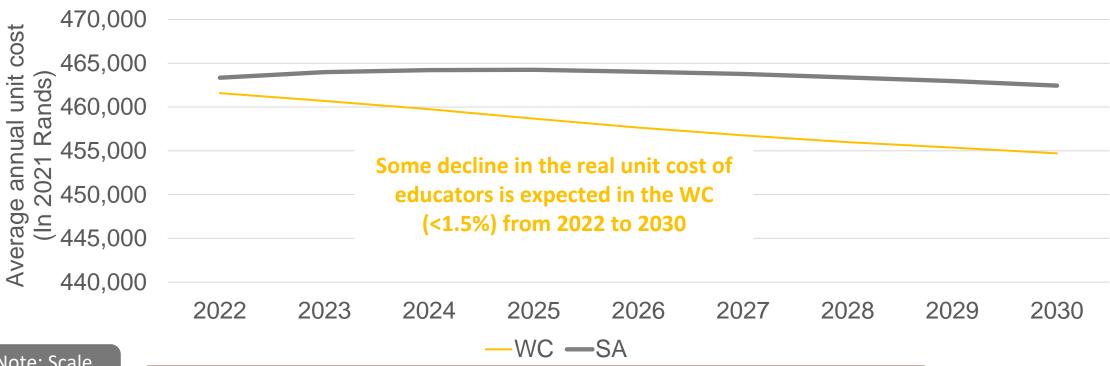
In constant 2021 rands



Source: Own calculations, using the anonymised PERSAL data from 2021, only educators are considered. ECD practitioners and examination reviewers removed. Estimates to 2030 derived from the national and provincial TSD models. Assumption of no growth in educator numbers.

#### Projected unit costs trends All educators

In constant 2021 rands



Note: Scale not from zero

WC growth adjusted

#### Adjusted the expected growth in educator numbers

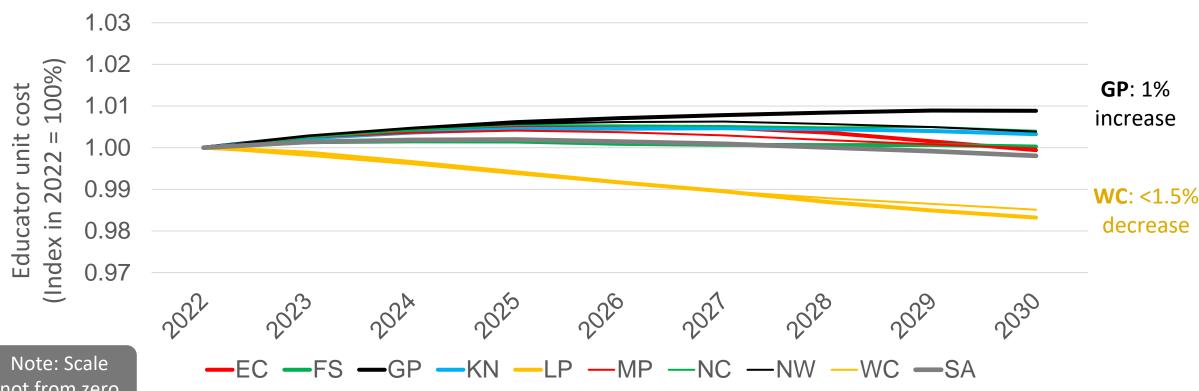
Assume 10% growth in educators from 2021 to 2030 in the WC

Source: Own calculations, using the anonymised PERSAL data from 2021, only educators are considered. ECD practitioners and examination reviewers removed. Estimates to 2030 derived from the national and provincial TSD models. Assumption of no growth in educator numbers for FS, KN, LP, MP, NC, NW and SA. Assume 20% educator growth for GP, 10% for WC and a decline in 10% of educators in the EC. In LP assume that the proportion of senior educators grows from 16% in 2021 to 21% in 2030.

#### Indexed unit costs trends | All educators



In constant 2021 rands



not from zero

WC growth adjusted

Source: Own calculations, using the anonymised PERSAL data from 2021, only educators are considered. ECD practitioners and examination reviewers removed. Estimates to 2030 derived from the national and provincial TSD models. Assumption of no growth in educator numbers for FS, KN, LP, MP, NC, NW and SA. Assume 20% educator growth for GP, 10% for WC and a decline in 10% of educators in the EC. In LP assume that the proportion of senior educators grows from 16% in 2021 to 21% in 2030.

#### Projected unit costs trends | All educators



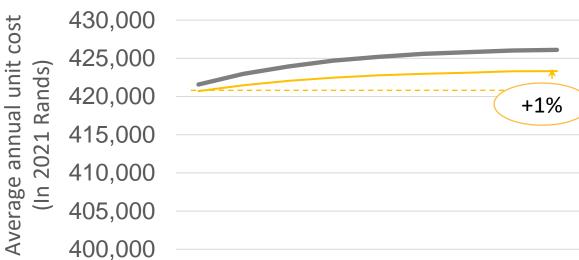
#### **Teachers**

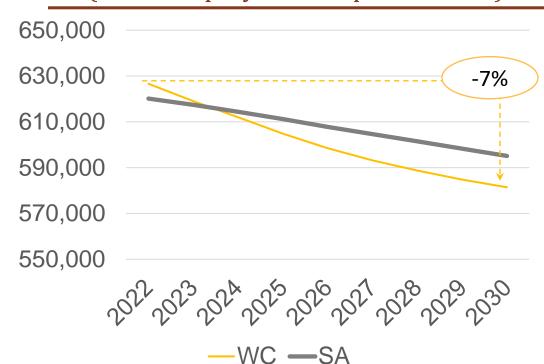
(School-based teachers)

Senior educators

In constant 2021 rands

(HODs, Deputy's, Principals & Other)





Note: Scale not from zero

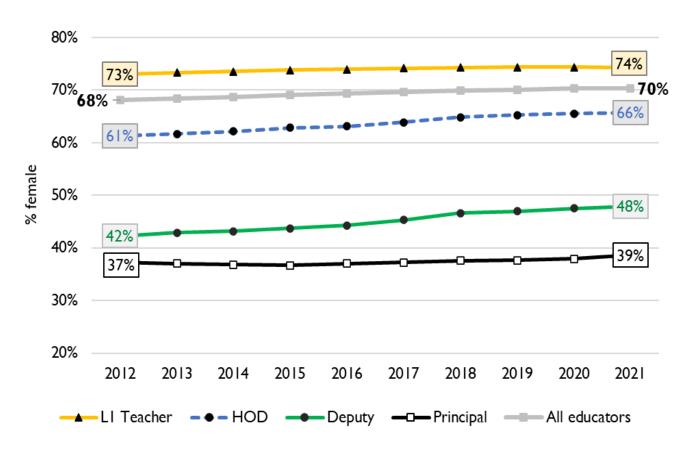
WC growth adjusted

Source: Own calculations, using the anonymised PERSAL data from 2021, only educators are considered. ECD practitioners and examination reviewers removed. Estimates to 2030 derived from the national and provincial TSD models. Assumption of no growth in educator numbers for FS, KN, LP, MP, NC, NW and SA. Assume 20% educator growth for GP, 10% for WC and a decline in 10% of educators in the EC. In LP assume that the proportion of senior educators grows from 16% in 2021 to 21% in 2030.

## Gender imbalances in management

#### Percentage of educators that are female

Percentage of public educators in South Africa that are female, PERSAL (2012-2021)

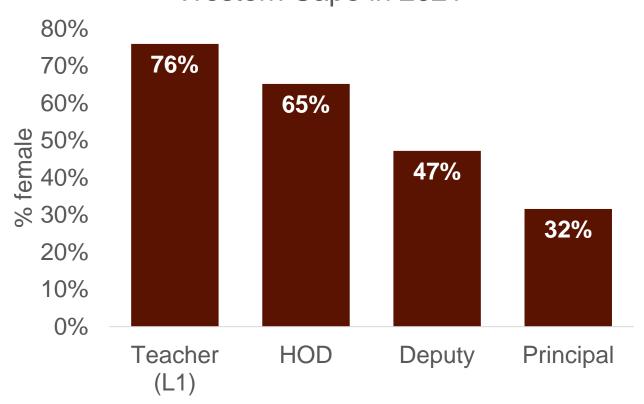


Nationally, there has been very little transformation in senior school leadership in terms of gender since 2012 and even since 2004 (just 34% of principals were female).

There is better representation at middle-management (HOD) level.

#### Percentage of educators that are female





In the Western Cape in 2021, 72% of all educators were women, yet only 47% of deputy principals and 32% of principals were women.

Source: Using anonymised 10-year PERSAL data from 2012 to 2021, only educators of the ranks: level 1 teacher, HOD, deputy principal and principal are considered.

## Between and within province movement



					Provi	nce in	2019					Movement out of
		EC	FS	GP	KN	LP	MP	NC	NW	WC	Total	province
	EC	97.79	0.10	0.86	0.22	0.01	0.04	0.11	0.19	0.70	100	2.23%
7	FS	0.35	94.25	2.76	0.10	0.07	0.23	0.41	1.56	0.26	100	5.74%
201	GP	0.15	0.26	96.86	0.27	0.81	0.42	0.05	0.93	0.24	100	3.13%
ב	KN	0.22	0.10	1.14	97.95	0.10	0.37	0.01	0.06	0.04	100	2.04%
ce i	LP	0.02	0.02	1.72	0.02	96.80	0.80	0.05	0.56	0.02	100	3.21%
2.	MP	0.03	0.14	2.48	0.37	1.54	94.86	0.03	0.49	0.07	100	5.15%
rov	NC	0.47	0.50	0.47	0.06	0.59	0.03	94.35	2.37	1.15	100	5.64%
<u>_</u>	NW	0.06	0.59	3.84	0.03	0.65	0.34	0.75	93.60	0.14	100	6.40%
	wc	0.72	0.03	0.17	0.05	0.00	0.02	0.35	0.03	98.61	100	1.37%

Source: PERSAL 10-year anonymised dataset, only educators that were in the dataset for 2018 and 2019 are considered here



					Provi	nce in	2019				_	Movement out of
		EC	FS	GP	KN	LP	MP	NC	NW	WC	Total	province
7												
201												
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rov												
<b>□</b>	NW	0.06	0.59	3.84	0.03	0.65	0.34	0.75	93.60	0.14	100	6.40%
	WC	0.72	0.03	0.17	0.05	0.00	0.02	0.35	0.03	98.61	100	1.37%

- Very low level of movement between provinces – only 1.37% of Western Cape teachers from 2012 are teaching in a different province in 2019
- Educators are most likely to move to the Eastern Cape

Source: PERSAL 10-year anonymised dataset, only educators that were in the dataset for 2018 and 2019 are considered here



		Province in 2019									
		EC	FS	GP	KN	LP	MP	NC	NW	WC	
	EC	42 645	42	373	95	5	16	46	82	304	
12	FS	57	15 267	447	17	11	38	67	252	42	
20	GP	67	117	42 770	121	356	187	20	409	108	
⊇.	KN	146	67	755	64 723	64	247	9	37	26	
	LP	10	10	709	7	39 899	328	20	230	7	
ovince	MP	7	34	618	94	385	23 644	7	121	17	
0	NC	31	33	31	4	39	2	6 214	156	76	
Pr	NW	12	111	726	5	123	65	141	17 690	27	
	WC	152	7	37	11	0	5	75	6	20 858	
	<b>Total 2019</b>	43 127	<b>15 688</b>	46 466	65 077	40 882	24 532	6 599	18 983	21 465	
	Movement	482	421	3 696	354	983	888	385	1 293	607	
	into province	702	721	3 030	334	<i>7</i> 03	000	303	1 233	007	
	% movement	1.1%	2.7%	8.0%	0.5%	2.4%	3.6%	5.8%	6.8%	2.8%	
	into province	1.1/0	2.7/0	0.070	0.5/0	Z. <del>T</del> /0	3.070	3.070	0.070	2.0/0	

Source: PERSAL 10-year anonymised dataset, only educators that were in the dataset for 2012 and 2019 are considered here



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	EC	FS	GP	KN	LP	MP	NC	NW	WC				
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% movement into province	1.1%	2.7%	8.0%	0.5%	2.4%	3.6%	5.8%	6.8%	2.8%				

- to WC, only 2.8% of educators in 2019 had come from another province between 2012 to 2019
- The provinces that sent the highest number of educators were the EC and GP

#### **Educator movement between schools**



#### Paypoint in 2019 (Ordinary schools only)

Province	Same as in 2018 (%)	Different to 2018 (%)	None - left system (%)	Total (%)
EC	93.25	4.61	2.14	100
FS	90.54	5.54	3.93	100
GP	91.08	3.95	4.97	100
KN	91.99	4.31	3.70	100
LP	91.04	6.95	2.00	100
MP	92.02	4.66	3.32	100
NC	85.44	8.39	6.18	100
NW	89.42	6.30	4.28	100
WC	87.27	6.09	6.64	100
Total	91.11	5.05	3.83	100

- Fair amount of movement between schools, about 6% of Western Cape educators (5% nationally) move to a different paypoint but stay within PERSAL from 2018-2019
- Rate at which educators aged 50 and below leave the system is much higher in the Western Cape (6.6%) than the national average (3.8%)

Source: PERSAL 10-year anonymised dataset. Only included educators aged 50 years and below, that were in ordinary schools in 2018 (Primary, Secondary, Combined and Intermediate)—excluded all paypoints that did not appear in both years after identifying 103 paypoints where the paypoint number changed.

#### Conclusion

- The Western Cape faces a relatively high rate of replacement, with about 9% of educators forecast to leave PERSAL annually to 2030, driven by a high proportion of younger educators (aged 55 and below) resigning
- A high proportion of SMT (Principals, Deputies and HODs) and other education specialists (73%) are over 50. Careful succession planning, efficient promotion processes, and good on-boarding practices will be required to manage this transition as they retire.
- Due to predicted population growth (~15% from 2021 to 2030), educator numbers will need to rise in the WC to keep pace with the demand for schooling; if employment does not expand, LE ratios and class sizes will increase even further
- The cost structure will improve due to the shift in age profile, which should give the province some space in the budget to hire more teachers, ensure promotions are finalised or to expand other spending.

#### General questions and discussion

- Infrastructure: How close is the province to achieving the large growth that is required by 2030?
- What is the process for principals and senior educator mentorship, selection and induction?
- How much of a concern is gender equity in management in WC?
- Do you track what subjects and phases teachers are needed:
  - Is there a list of the positions requested by principals or positions filled? Or of educators that have left?