

Free State Province

14 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:

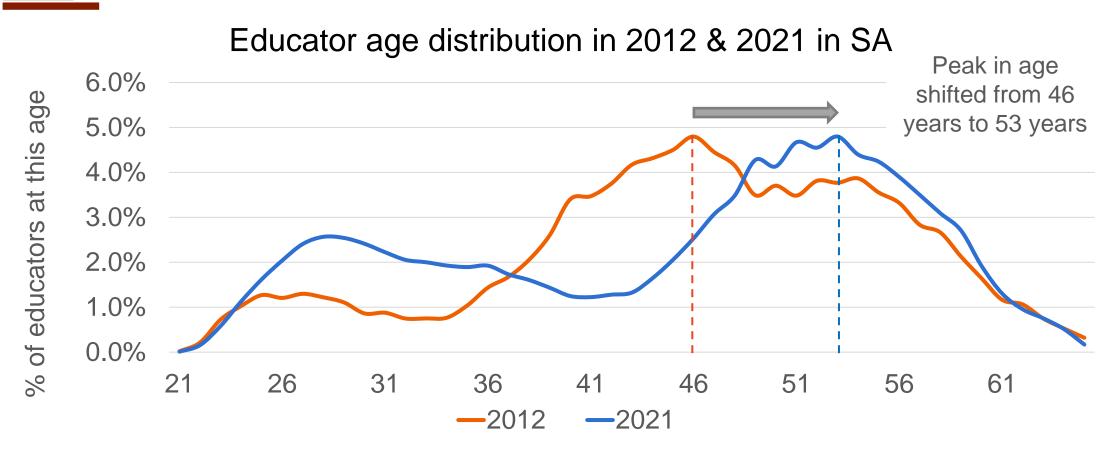
- Many more appointments: The retirement wave will open up both teaching & school management & leadership positions & other office-based education specialists.
- Total compensation of educators: Since older teachers earn more, when retiring they are replaced with younger (less costly) teachers.

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)





Source: Anonymised PERSAL data from 2021, only educators (Rank 60 000 – 69 999) are considered. ECD practitioners, TVET lecturers and ABET teachers were removed.

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 the Free State to inform province-specific planning.

Overview

- Age distributions
- Projected retirements & resignations
- Provincial population and enrolment trends
- Public and independent school growth
- 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
- 10 Discussion

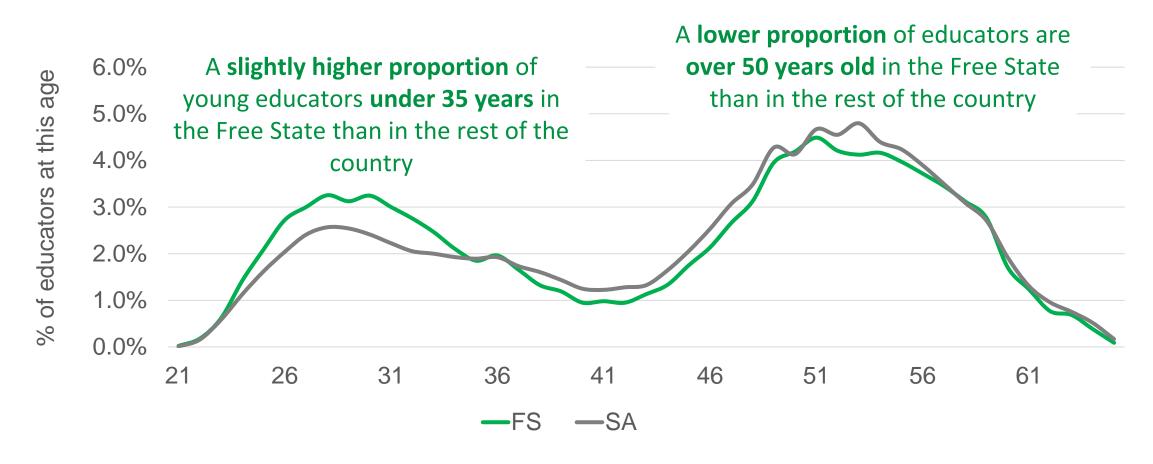
Free State educator demand summary

- Age distribution: The age distribution in the FS had a peak at around 51 years of age in 2021
- **Projected resignations and retirements**: About half of the educators that exit PERSAL are age-related retirements (ages 56 to 65); the number of senior educators (SMT positions and other specialists) that are retiring is expected to increase (65% were 50+ years old in 2021)
- Enrolment and population growth: Enrolment in the FS ordinary schools increased by 10% from 2012-2021 (~65K learners), and the school-aged population is forecast to decline by -4% (~26K learners) to 2030, which will likely result in lower enrolments. School rationalisation may need to continue as a result of the decrease.
- School and educator growth: Between 2012 and 2021, the educator number has fallen (-13%), and the number of public ordinary schools has decreased (-27%), driving up the LE ratio and class sizes.
- **SMT position changes:** In the FS, there has been a large decline in the number of Principals between 2012 and 2021 (-27%), largely as a result of school rationalisation. The number of HODs (-8%), Deputy Principals (-10%) and teachers (-13%) have also declined over this period.
- Appointments and LE Ratio: The LE ratio increased from 24.1 to 30.0 between 2012 and 2021
- **Projected educator cost trends:** The unit cost of educators is predicted to remain constant. Due to the change in age distribution.
- **Educator movements:** There is high movement out of the FS (~6%), and few educators move to the FS (<3%). About ~6% educators move between schools within the province.

Age distributions and projected retirements and resignations

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%
SA	46%	69%	49%

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 **Senior educators Primary school** All educators **Province** (HOD, Dep.- principals, educators Principals & Other) EC FS 43% 65% 49% **GP** FS has 43% of educators aged 50 KN years and older in 2021 with a LP higher proportion in primary MP schools (49%) NC NW

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.

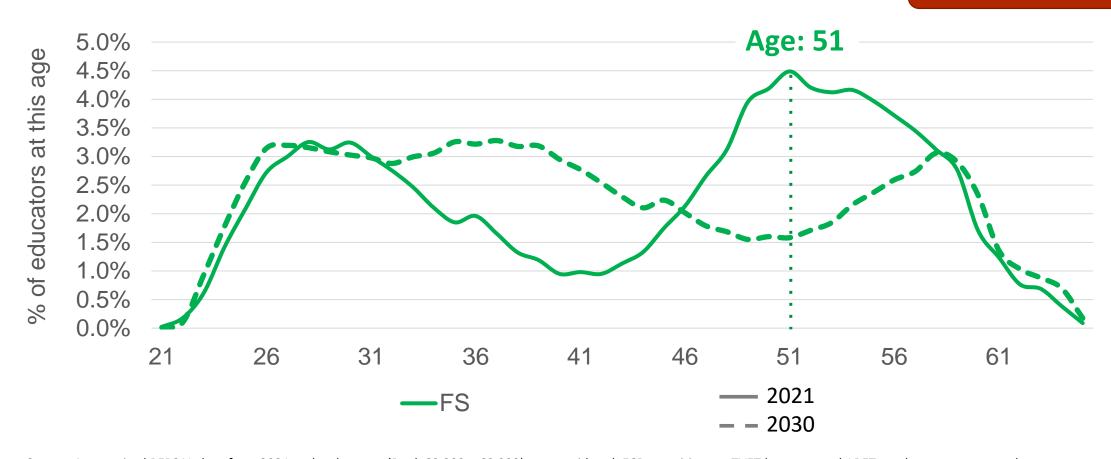
WC

SA

Educator age distribution in 2021 & 2030



Assume constant 2021 educator numbers

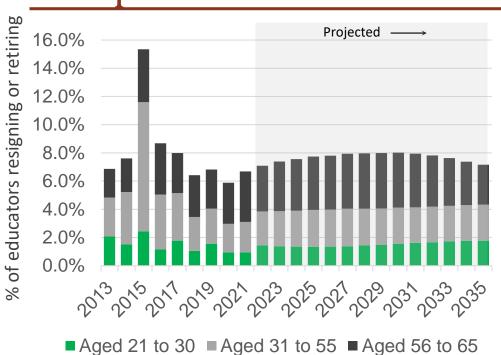


Source: Anonymised PERSAL data from 2021, only educators (Rank 60 000 – 69 999) are considered. ECD practitioners, TVET lecturers and ABET teachers were removed.

Projected resignation & retirements (FS)

Assume constant 2021 educator numbers

Proportion of Educators



- About half of the educators that exit PERSAL in the FS are retiring (ages 56 or above)
- Large spike in resignations due to the pension reform rumours in 2015
- The number of young teachers (ages 21-30) resigning is projected to increase as the number of newly hired young teachers increases.

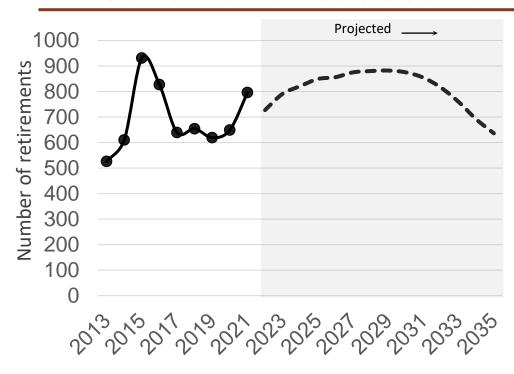
Source: Anonymised PERSAL data from 2021, only educators (Rank 60 000 – 69 999) are considered. ECD practitioners, TVET lecturers and ABET teachers were removed. Estimates to 2035 derived from the National and provincial teacher supply and demand models – assumption of no growth in educator numbers. Note: Retirements refer to all educators, aged 56 to 65, that leave PERSAL, whilst resignations refer to all educators aged 55 and below that leave PERSAL (as educators) for any reason.

Projected resignation & retirements (FS)



Assume constant 2021 educator numbers

Retirement headcount



- The number of retirements is projected to increase, peaking in ~2030 & 2031 and then declining
- The number of retirements is projected to increase from just over 700 in 2022 to just under 900 in 2030, an increase of about 200 retirements annually

Source: Anonymised PERSAL data from 2021, 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 teacher supply and demand models – assumption of no growth in educator numbers. Note: Retirements refer to all educators, aged 56 to 65, that leave PERSAL, whilst resignations refer to all educators aged 55 and below that leave PERSAL (as educators) for any reason.

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



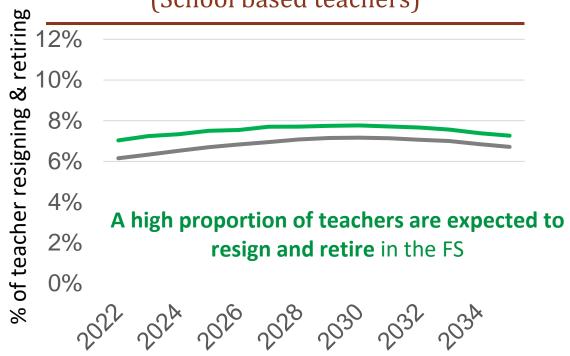
Source: Anonymised 2021 PERSAL data, only educators (Rank 60 000 – 69 999) are considered. ECD practitioners, TVET lecturers and ABET teachers were removed. Estimates to 2035 derived from the National and provincial models – assumption of no growth in educator numbers.

Projected educators leaving

Assume constant 2021 educator numbers

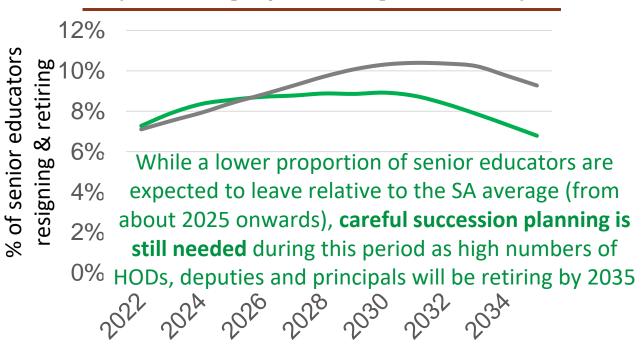


(School based teachers)



Senior educators

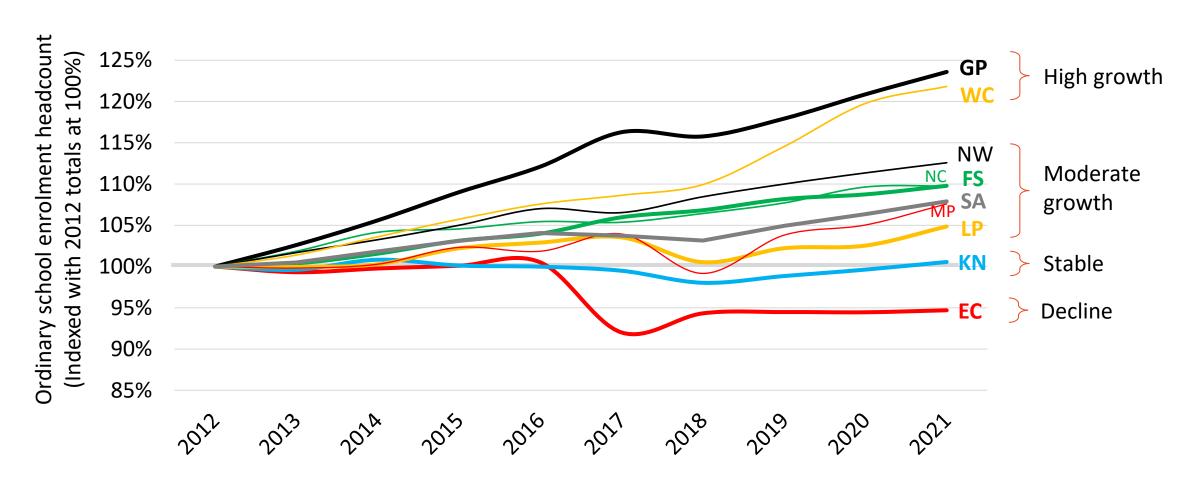
(HODs, Deputy's, Principals & Other)



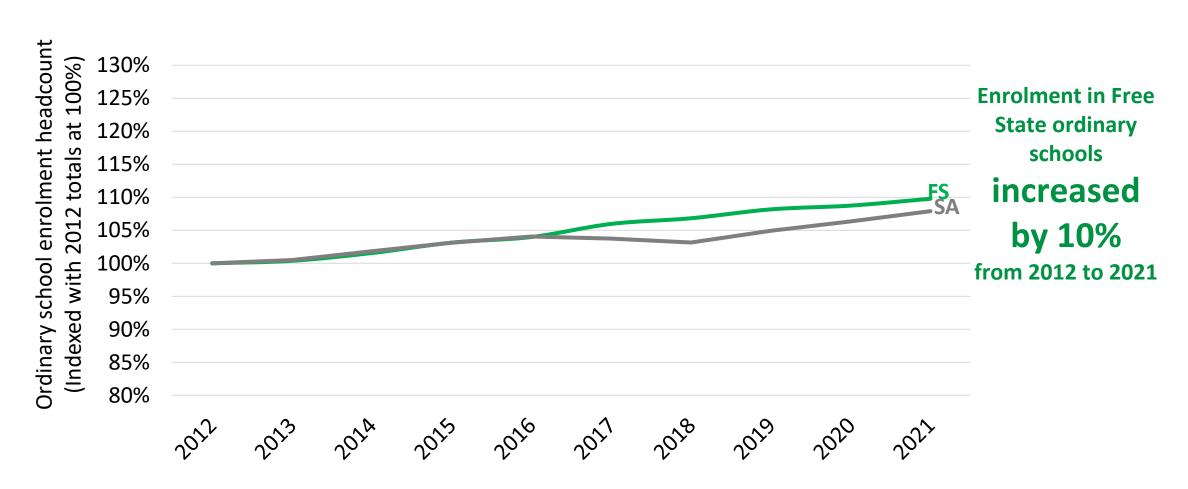
—FS **—**SA

Provincial population and enrolment trends

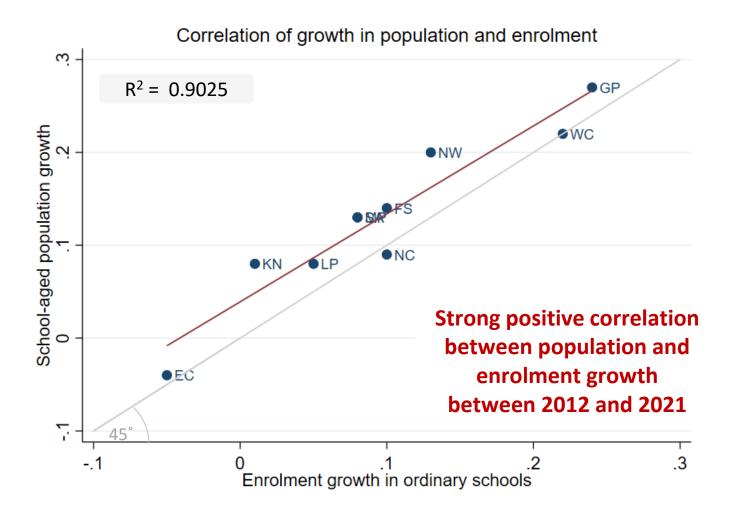
Provincial enrolment trends (2012-2021)



Provincial enrolment trends (2012-2021)



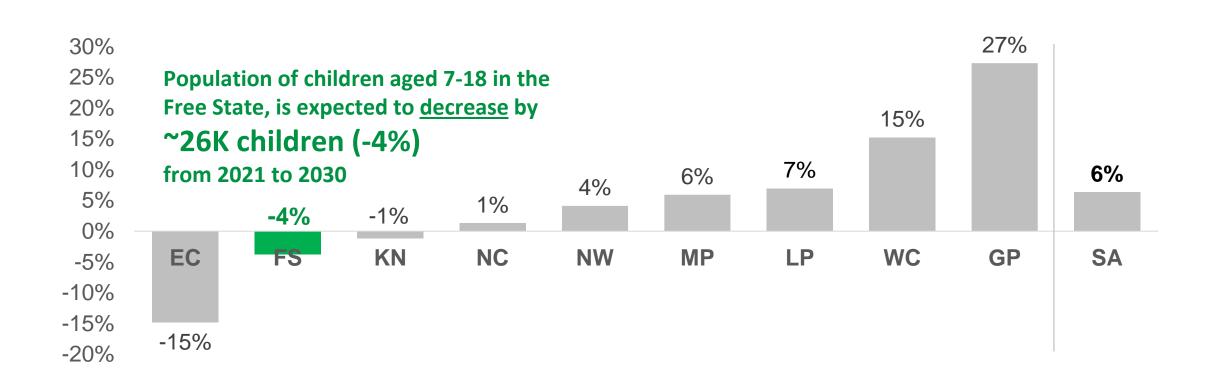
Correlation between population and enrolment growth (2012-2021)



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





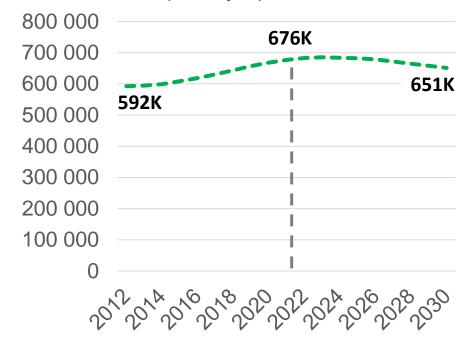
Note: Period 2021 – 2030 is the same timeframe, nine years, as 2012 – 2021.

School aged-population estimates to 2030



	Number	of children A	ged 7-18	Growth	Growth		
Province	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 Free State



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 from 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	-13%	-13%	-27%	9%	10%	14%							
GP			1%										
KN LP			of public ordir	•		ne Free							
MP		State largely	as a result of s	chool rationa	lisation								
NC													
NW													
WC		22%	0%	21%	22%	22%							
SA	-1%	2%	-6%	7%	8%	13%							

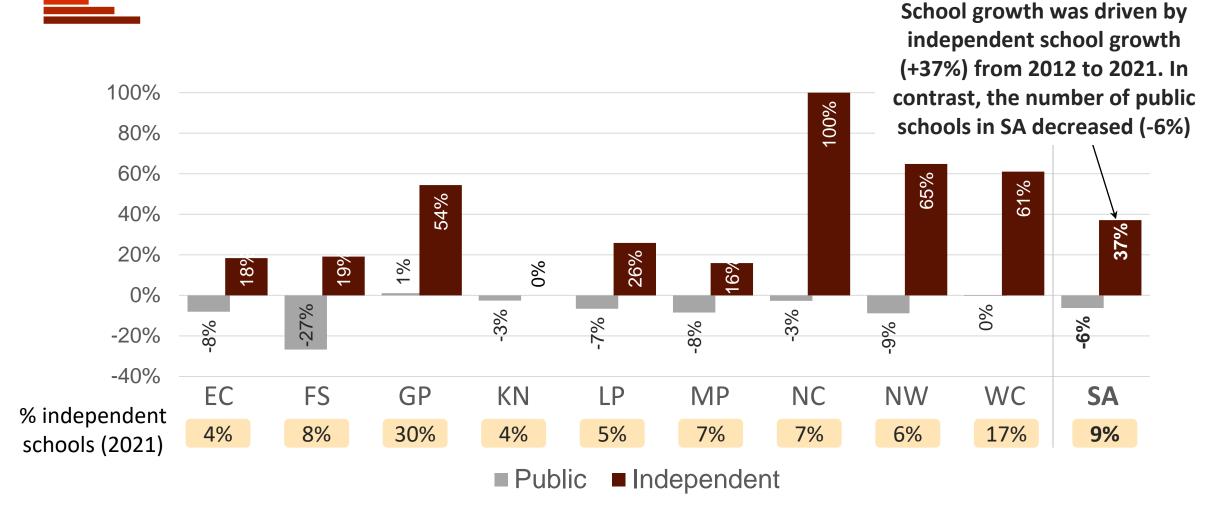


_			% growth fro	om 2012 - 2021		
Province	Number of educators	Number of teachers	Number of public ordinary schools	Enrolment in public ordinary schools	Enrolment in ordinary schools	Est. school-aged population
EC						
FS	-13%	-13%	-27%	9%	10%	14%
GP		28%	10/2	20%	7/10/	27%
KN			e number of s			
LP		-2% pu	blic ordinary s	schools grew	in the Free S	tate between
MP		^{7%} 20	12 and 2021			
NC		9%	-3%			
NW						
WC	12%	22%	0%	21%	22%	22%
SA	-1%	2%	-6%	7%	8%	13%

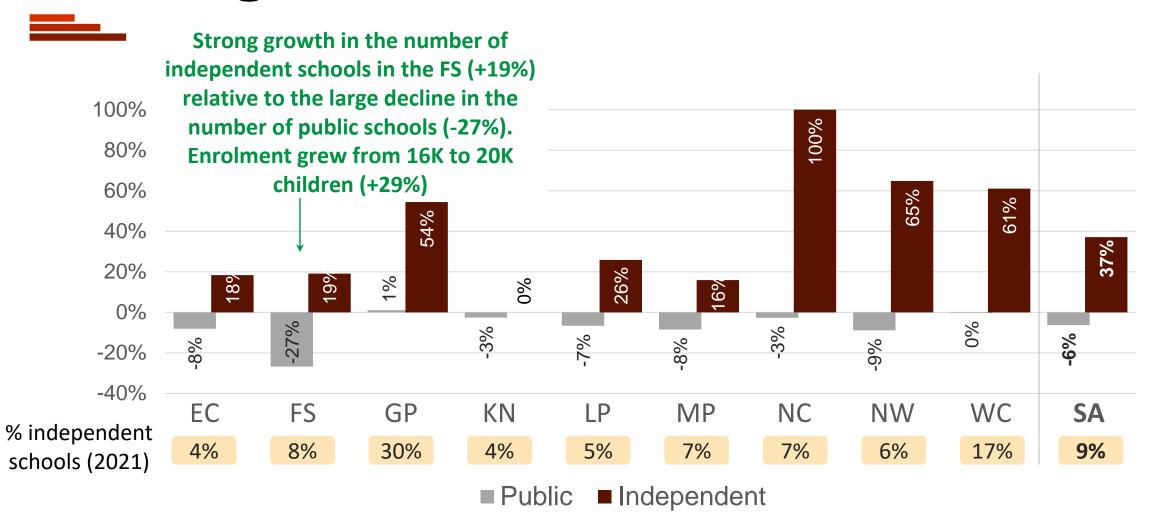


_			% growth fro	m 2012 - 2021		
Province	Number of educators	Number of teachers	Number of public ordinary schools	Enrolment in public ordinary schools	Enrolment in ordinary schools	Est. school-aged population
EC						
FS	-13%	-13%	-27%	9%	10%	14%
GP KN LP MP	public or	dinary schoo	rolment numbers of school rations	r of educato		
NC	6%	9%	-3%	9%		
NW						
WC						
SA	-1%	2%	-6%	7%	8%	13%

School growth from 2012 to 2021



School growth from 2012 to 2021



Educator growth by teachers and senior educators

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



		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																
FS	20 148	17 561	-2 587	-13%	2 685	2 470	- 215	-8%	852	768	- 84	1 -10%	1 224	892	- 332	2-27%
GP									Large	decr		in pr	incina	1 959 1 nun	her	s but
KN																
LP									by th	e san	ne pi	oport	cion as	s tne	aecr	ease
MP									in nu	mber	of o	rdina	ry sch	ools	betw	een
NC									2012	and 2	2021					
NW																
WC				22%												
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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																
FS	20 148	17 561	-2 587	-13%	2 685	2 470	- 215	-8%	852	768	- 84	-10%	1 224	892	- 332	27%
GP										2 850	285	11%	2 162	1 959		-9%
KN						10 33 <u>D</u>	ecre	<u>ase in</u>	HOD	and	depu	typri	incipa	5 055		
LP						3 76 n (umb	ers ar	e larg	e but	lowe	ertha	n the			
MP								ase in	_							
NC											71	2.1%				
NW						3 023	acm	ers be	tweei	1 201	z anc	1 202	1 698			
WC				22%												
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.

Proportional split by educator rank



	All Edu	cators	Teach	ner	Н	OD	DepP	rincipal	Princ	cipal	Oth	ner
	2012	2021	2012	2021	2012	2021	2012	2021	2012	2021	2012	2021
EC	100%	100%	78%	75%	9% 4	12%	2.1%	2 .7%	8.2%	8.8%	2.5%	2.4%
FS	100%	100%	78%	78%	10%	11%	3.3%	3.4%	4.7%	4.0%	3.7%	3.3%
GP	100%	100%	74% 📤	79%	14%	12%	4.0%	3.7%	3.4%	2.6%	4.4%	2.7%
KN	100%	100%	77%	79%	12%	11%	2.8%	2.6%	5.9%	5.6%	2.1%	1.3%
LP	100%	100%	78% 📤	84%	11%	7%	2.7%	1.5%	6.1%	6.3%	2.1%	1.5%
MP	100%	100%	76% 📤	79%	12%	12%	3.2%	3.2%	5.2%	4.1%	3.2%	1.8%
NC	100%	100%	75%	77%	11%	11%	3.0% 4	3.6%	6.1%	4.8%	5.1%	3.9%
NW	100%	100%	76%	78%	11%	11%	3.2%	3.7%	6.1%	4.7%	3.7%	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 are considered. ECD practitioners, examination reviewers, ABET teachers and TVET lecturers were removed. Arrow shown for teachers and HODs if difference is at least 3 percentage points, for deputy principals if the difference is at least 0.6 percentage points and for principals a difference of at least 0.8 percentage points.

Proportional split by educator rank

	All Edu	ucators	Tea	cher	Н	OD	DepP	rincipal	Prin	cipal	Ot	her
	2012	2021	2012	2021	2012	2021	2012	2021	2012	2021	2012	2021
EC												
FS	100%	100%	78%	78%	10%	11%	3.3%	3.4%	4.7%	4.0%	3.7%	3.3%
GP	100%	100%	74%	79%	14 Th	ere wa	s a decli	ne in th	e nrono	rtion of	nrincina	als [%]
KN												% %
LP						•				. There v		%
MP										ortions o	r educa	tors
NC					$_{11}$ at	differe	nt levels	of mana	agemen	t.		
NW												
WC												
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 are considered. ECD practitioners, examination reviewers, ABET teachers and TVET lecturers were removed. Arrow shown for teachers and HODs if difference is at least 3 percentage points, for deputy principals if the difference is at least 0.6 percentage points and for principals a difference of at least 0.8 percentage points.

Implications on appointments, class sizes and small schools

Projected increase in appointments

~300

Additional educators will need to be appointed annually

1 513 educators

~1 800 educators

Mean number of annual joiners over the period 2012 - 2021

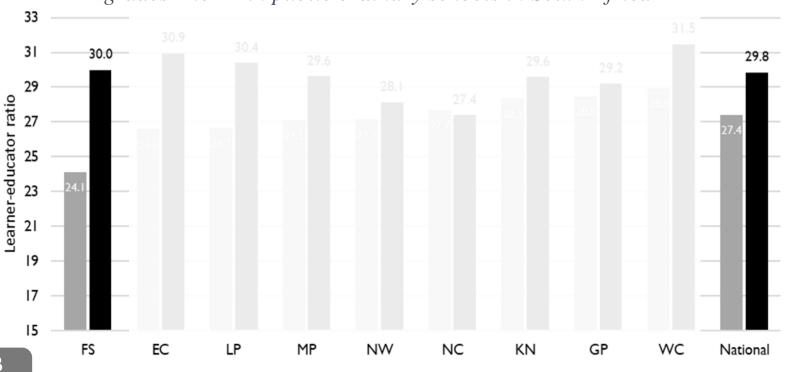
Projected mean number of annual joiners needed from 2026 – 2030 assuming a constant workforce

- Increase in expected annual appointments over the period of ~2026– 2030. This is mostly due to retirement (the province has a large proportion of older educators)
- Given possible further school rationalisation, there needs to be careful management of appointments

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

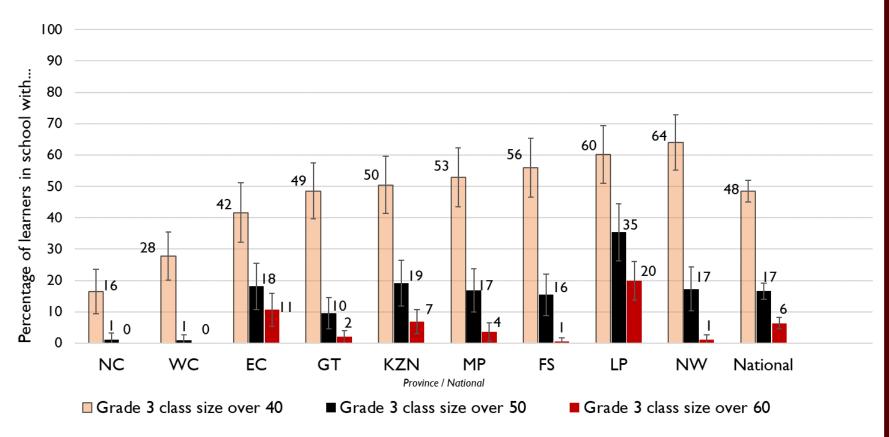


- LE ratio rose steeply from 24.1 to 30.0 learners per educator in the FS between 2012 and 2021; more than the national average
- This increase was as a result of school rationalisation, where many of the schools that closed were small schools

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, 56% in FS

% of learners in grade 3 classes > 50: 17% in SA, ~16% in FS

% of learners in grade 3 classes > 60: 6% in SA, ~1% in FS

Note: Nationally, grade 3 enrolment numbers had been rising since 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)

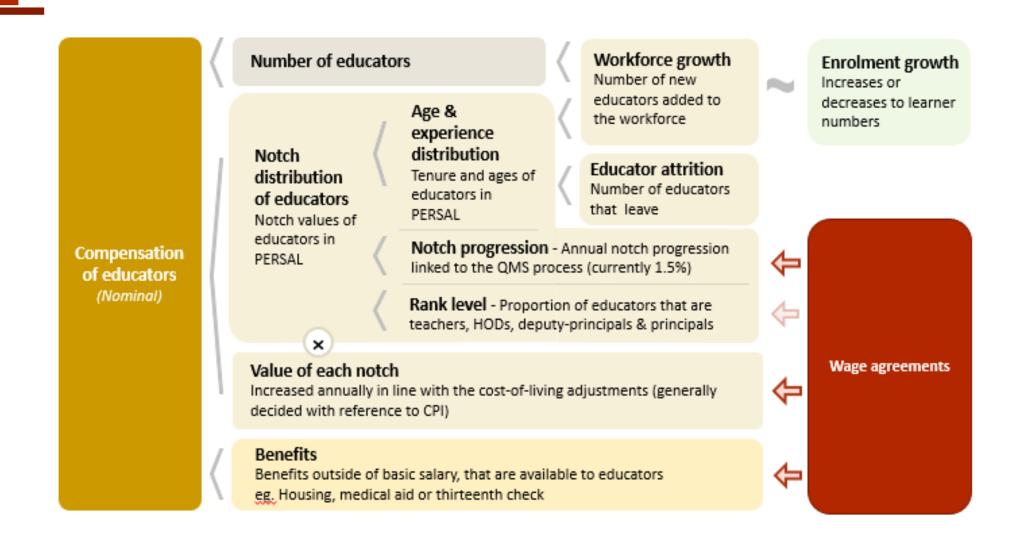


Source: Figure 1 in South African teacher shortages as revealed through class sizes and learner-educator ratios: An exploratory analysis by Gabrielle Wills (2023) using School Monitoring Survey 2017/18 (953 schools, learner weighted).

- In 2017/18, the FS was one of four provinces where the proportion of Gr6 learners in schools with large classes (>50 learners) was above 40%
- A further deterioration of the LE ratio will drive up class size and the number of large classes, negatively impacting quality and teacher motivation

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**%

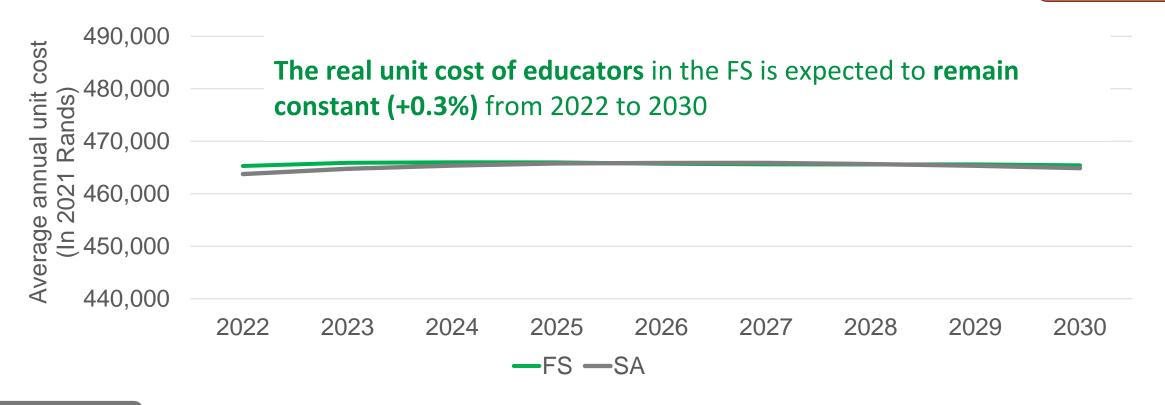
If nominal wages increase by 7.2%, then real wages increase by 0%

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

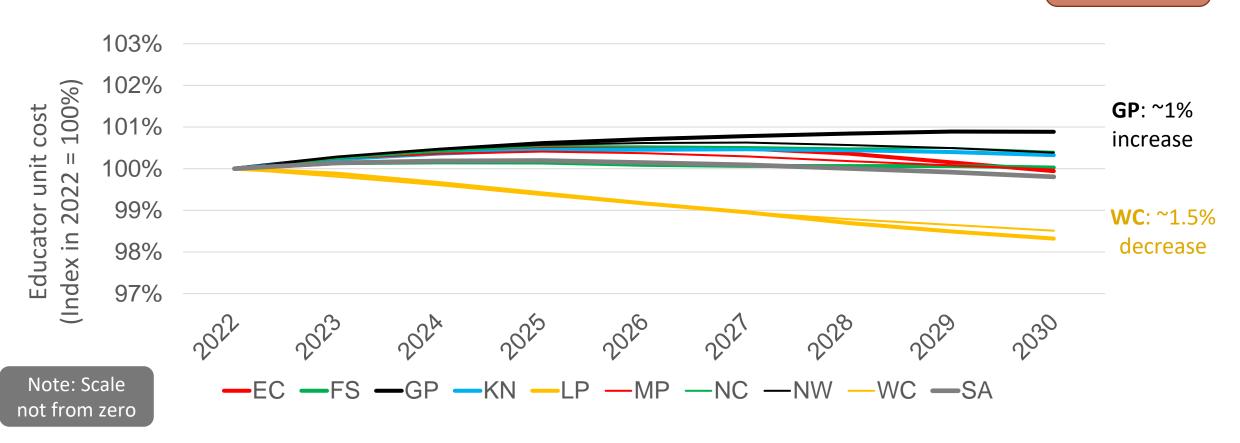


Note: Scale not from zero

Indexed unit costs trends | All educators



In constant 2021 rands

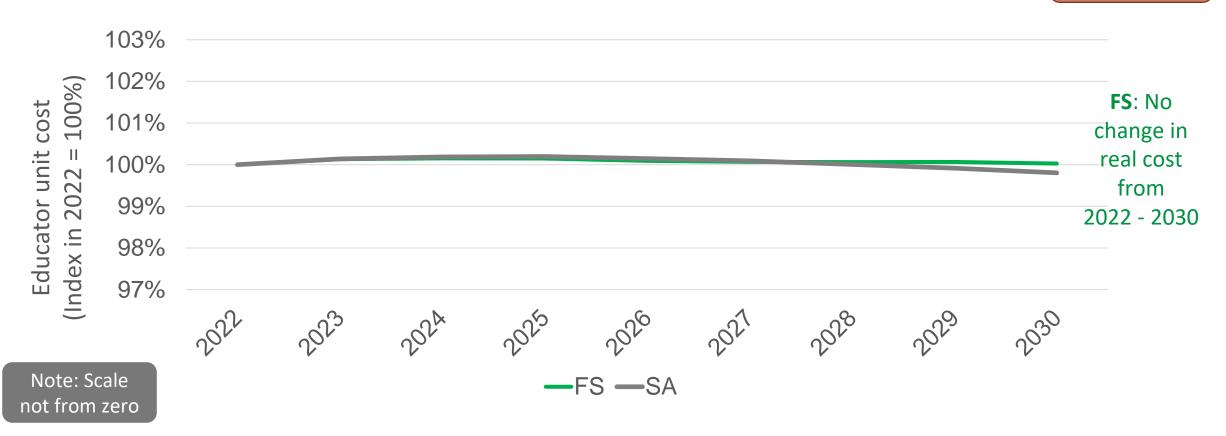


Source: Own calculations, using the anonymised PERSAL data from 2021, only educators are considered. ECD practitioners and examination reviewers removed. Estimates to 2030 derived from the national and provincial TSD models. Assumption of no growth in educator numbers for FS, KN, LP, MP, NC, NW and SA.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



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.

In constant

2021 rands

Projected unit costs trends | All educators

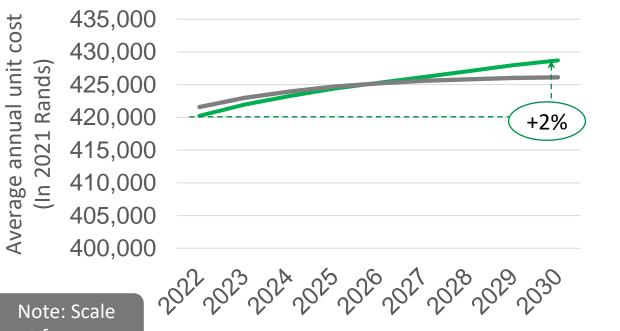


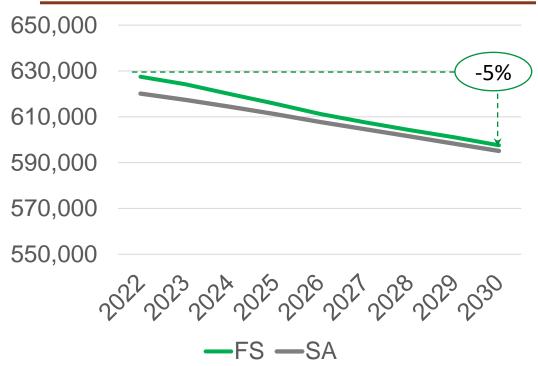
Teachers

(School based teachers)

Senior educators

(HODs, Deputy's, Principals & Other)





not from zero

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.

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	•
EC	97.79											
. FS	0.35	94.25	2.76	0.10	0.07	0.23	0.41	1.56	0.26	100	5.74%	
GF GF	0.15											
K١	0.22											
LP	0.02											
MI	0.03											•
NO	0.47											
- NV	0.06											
W	0.72											

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



					Prov	ince 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
2.	KN	146	67	755	64 723	64	247	9	37	26
	LP	10	10	709	7	39 899	328	20	230	7
Province	MP	7	34	618	94	385	23 644	7	121	17
^	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
	Total 2019	43 127	15 688	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>3</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. T /0	3.070	J.070	0.070	2.0/0



	Prov	ince	in	2019	
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					Prov	ince in	2019			
		EC	FS	GP	KN	LP	MP	NC	NW	WC
	EC		42							
12	FS		15 267							
20	GP		117							
三	KN		67							
മ	LP		10							
ovince	MP		34							
0	NC		33							
P	NW		111	726						
	WC		7							
	Total 2019	43 127	15 688	46 466	65 077	40 882	24 532	6 599	18 983	21 465
	Movement into province	482	421	3 696	354	983	888	385	1 293	607
	% movement into province	1.1%	2.7%	8.0%	0.5%	2.4%	3.6%	5.8%	6.8%	2.8%

- to FS, about 2.7% of educators in 2019 had come from another province since 2012
- The provinces that sent the highest number of educators to FS were the GP and NW

Educator movement between schools



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

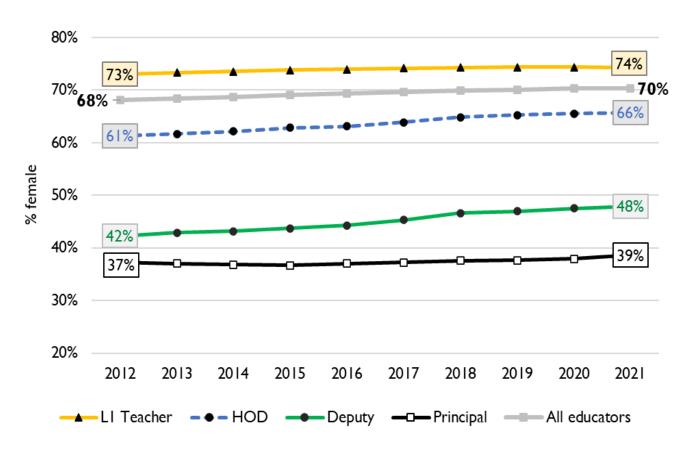
- High levels of movement between schools, about 5.5% of FS educators (5.1% nationally) move to a different pay point but stay within PERSAL from 2018-2019
- Rate at which FS educators aged 50 and below (3.9%) leave the system is comparable with the national average (3.8%)

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.

Gender imbalances in management

Percentage of educators that are female

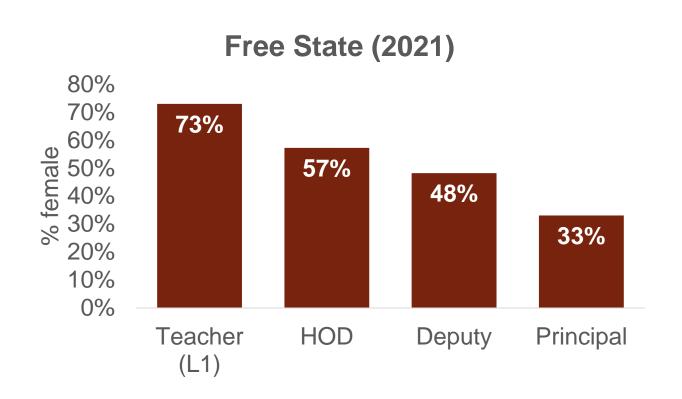
Percentage of public educators in South Africa that are female, PERSAL (2012-2021)



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 Free State in 2021, 69% of all educators were women.

Women were underrepresented at all levels of management with 57% of HODs being women. And, only 48% of deputy principals and 33% of principals.

Conclusion

- In the FS, about 43% of educators were 50 years or older in 2021, with a high proportion of senior educators (65%) being over 50
 - Careful succession planning, efficient promotion processes, and good onboarding practices will be required to manage this transition as they retire
- School-aged population is projected to decline from 2021 to 2030
 - With average school sizes likely to decrease further, ongoing school rationalisation efforts will likely need to continue
 - Upward pressure on class sizes due to increases in LE ratio, if the workforce continues to decline more than enrolment.
- The unit cost of educators is predicted to stay roughly constant. This should give the province room to engage in targeted school rationalisation if decreases in enrolment make this a priority