

Good as Gold: Resilience and Continued Attractiveness of the Global K-12 Sector

October 2022

These materials are intended to supplement a discussion with L.E.K. Consulting. The contents of the materials are confidential and subject to obligations of nondisclosure. Your attention is drawn to the full disclaimer contained in this document.



Agenda

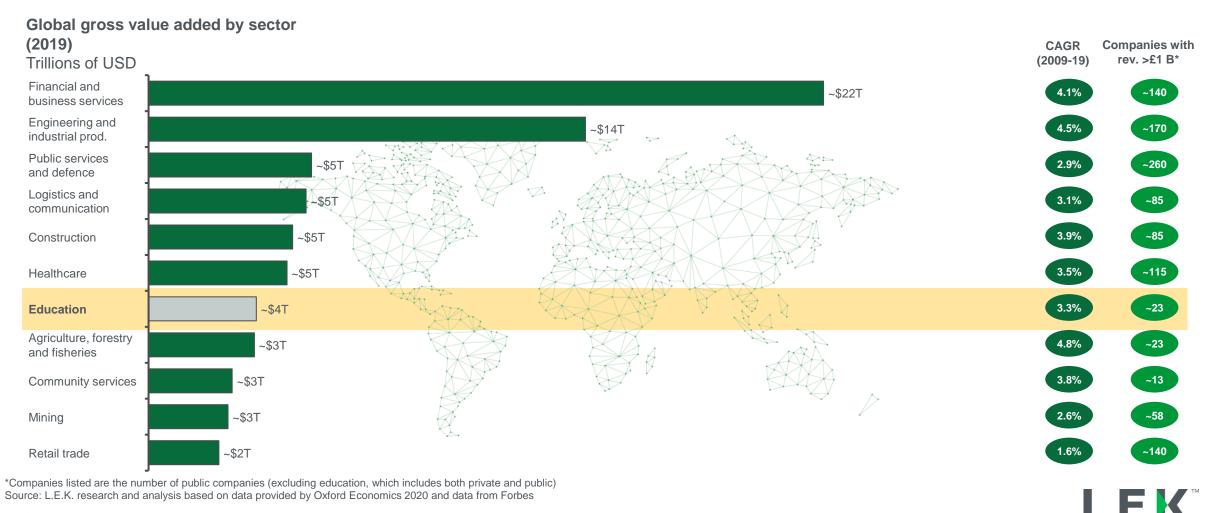
- K-12 education is an attractive segment
- Private K-12 is a rapidly growing market
- Premium private K-12 is gaining share there is significant headroom for growth



Education is amongst the top 10 sectors globally (in value), with a worldwide GVA of ~USD 4T in 2019, and has grown at a CAGR of ~3% between 2009 and 2019

Indicative

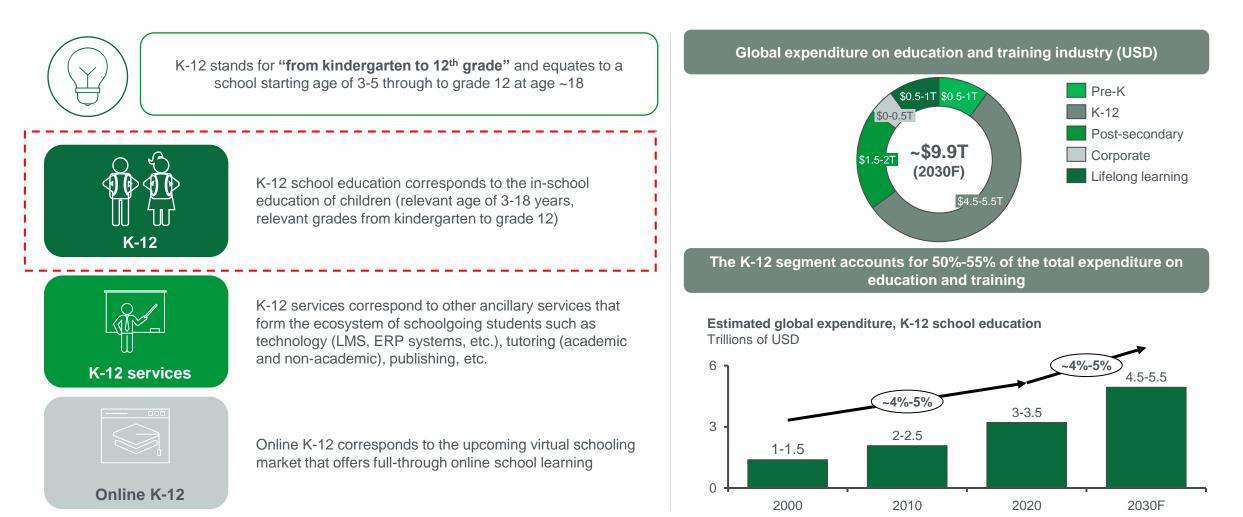
Gross value added (GVA) is defined as the measure of the contribution to gross domestic product (GDP) made by an individual industry sector



Within education, the K-12 sector demonstrates salient characteristics that make it most attractive for investment

Salient characteris	stics of education sector by sub-segment	-)))((-		\bigcirc		R R R	j\$L	* <u>, ≣%</u> -\$-	$\widehat{\nabla}$
		Resilience	Long-term revenue visibility	Barriers to entry	Real price growth	Non- discretionary spend	Negative working capital	Operating leverage	Student tenure
Sub-segments	Description			1		opona	oupitui		
Pre-school/childcare	Traditional nursery, kindergarten, infant care and childcare services	+	+	+		1		1	•
-12	Traditional K-12 schools and K-12 education provision	1	1	1	1	1	•	_	
utoring/test prep/academic nrichment	For general reinforcement or preparation of important exams, like a national exam/HE entrance exam		¥	+	1	1	1		$ \clubsuit$
inglish language training (ELT)	ELT programs and preparation for English exams such as IELTS, etc.	$ \Longleftrightarrow $	₽	$ \clubsuit$			1		+
Ion-academic enrichment	Engages students in non-academic activities like music, art and dance	$ \Longleftrightarrow $	₽	$ \Longleftrightarrow $		$ \Longleftrightarrow $	1		➡
ligher education (university)	Traditional college/university programs	1	1	1	1	1	1	1	\blacklozenge
ransnational education athways	Pre-university bridging programs for international students focused on English and gaps in K-12 curriculum of source country	$ \Longleftrightarrow $	$ \Longleftrightarrow $				1	1	↓
Continuous/adult learning upskilling)	Short courses for adults in market relevant disciplines		₽	$ \Longleftrightarrow $	$ \blacklozenge$	$ \Longleftrightarrow $	1	1	↓
Corporate training	Short training courses for new hires and existing employees	+	₽	$ \Longleftrightarrow $	$ \Longleftrightarrow $	$ \Longleftrightarrow $	1	$ \Longleftrightarrow $	➡
Publishing	Traditional textbook publishers for schools and universities	₽	₽	1	$ \Longleftrightarrow $	1	+	$ \Longleftrightarrow $	$ \clubsuit$
C-12/HE support services	Services that support K-12/HE operations such as security service, bus service, meal service and study abroad agents	$ \clubsuit $	♦	$ \clubsuit$	$ \blacklozenge $	1	+		1
te: HE=Higher Education, IELTS= urce: L.E.K. research and analysis	International English Language Testing System			ŧ	Below sector average	At sector average	Above sector average	or 📕	FI

Global expenditure on K-12 education is estimated to be USD 3T-3.5T in 2020; it has grown at a 4%-5% CAGR in the past 20 years and is expected to reach USD 4.5T-5.5T by 2030F



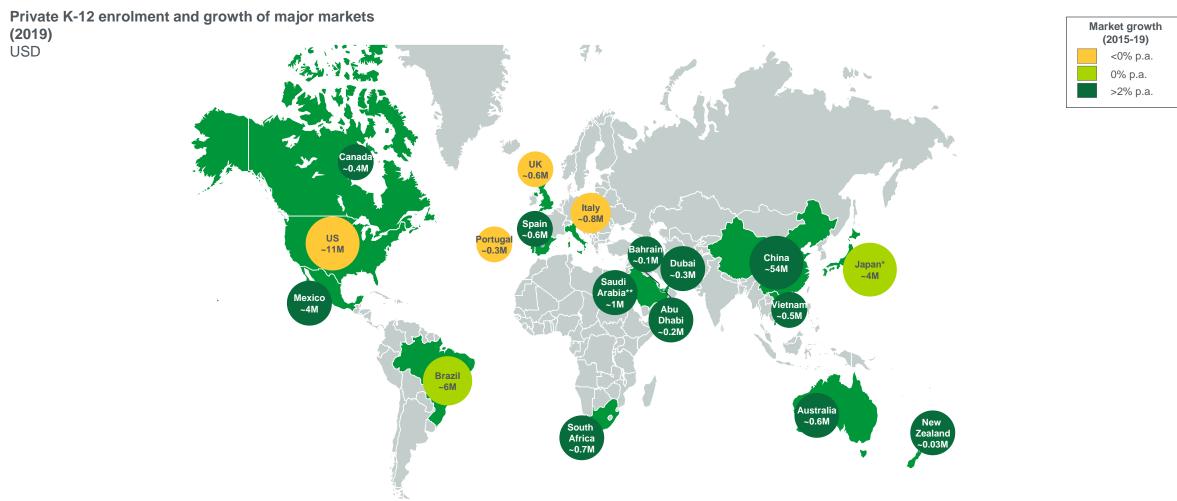
Note: LMS=learning management system, ERP=enterprise resource planning Source: L.E.K. research and analysis, based on data from 'Education in 2030' by HolonIQ

Agenda

- K-12 education is an attractive segment
- Private K-12 is a rapidly growing market
- Premium private K-12 is gaining share there is significant headroom for growth



The private K-12 market has ~85M enrolled students across major markets and has grown at a ~2% CAGR between 2015 and 2019



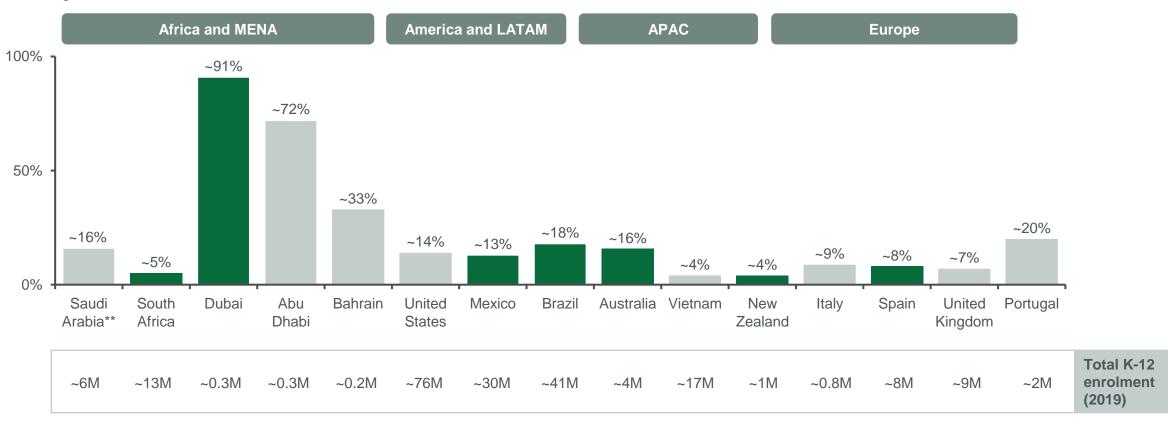
*Data for 2017; **Data for 2018; major markets globally based on size depicted

Source: L.E.K. research and analysis, based on the data from Ministry of Education or equivalent of Canada, Mexico, South Africa, Portugal, Spain, UK, Italy, Saudi Arabia, Bahrain, Abu Dhabi, Dubai, Vietnam, Japan, Australia, New Zealand, USA, Brazil and China; data from UNESCO Institute of Statistics, Statista and Xinhuanet



Privatisation in education is a secular megatrend that is likely to play out for decades to come; private K-12 has gained share over public schools across major markets between 2015 and 2019

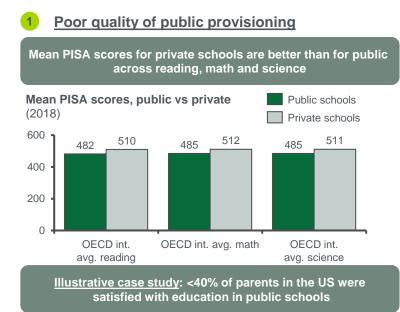
Enrolment share of private* K-12 education, major markets (2019) Percentage Increase in share by >2% during 2015 and 2019Increase in share by 0%-2% during 2015 and 2019



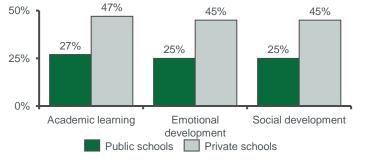
*Major markets globally depicted based on data availability; **Data for 2018; increase between 2015 and 2018;

Source: L.E.K. research and analysis based on the data from Ministry of Education or equivalent of Mexico, Brazil, South Africa, Portugal, Spain, UK, Italy, Saudi Arabia, Bahrain, Abu Dhabi, Dubai, Vietnam, Australia, New Zealand and the US; and data from Statista

The attractiveness of private K-12 is underpinned by secular growth drivers (1/2)

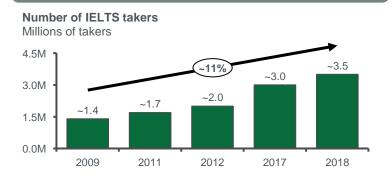


Percentage parents rating 'Very Well'1, USA (2020) Percentage (N=2200)

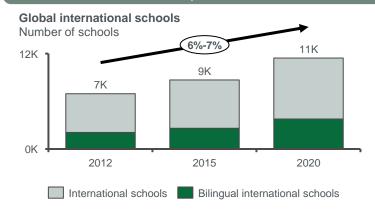


Growing demand for English-based learning

Number of International English Language Testing System (IELTS) takers have increased at a 11% CAGR between 2009 and 2018



Illustrative case study: International and bilingual schools with English-based learning have grown at 6%-7% CAGR between 2012 and 2020, based on ISC research

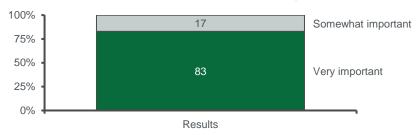


Focus on education outcomes

83% of the parents in the global ISC survey in December 2020 think education outcomes are very important

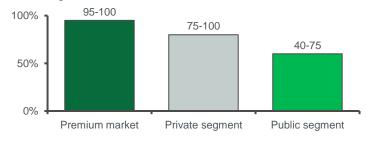
ISC survey results (2020)

Parents' preference for academic outcomes (percentage)



<u>Illustrative case study</u>: Outcomes in private schools across key markets are generally better than those of public schools

University pass rate (AY2020), South Africa Percentage



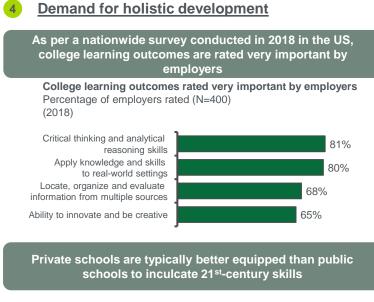
Private K-12 is a pathway for international higher education

*Percentage of parents who rated their satisfaction as 'Very Well Satisfied'

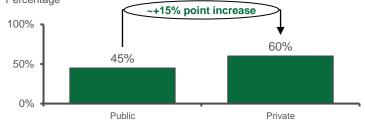
Source: L.E.K. research and analysis based on data from PISA; ISC; Statista; OECD; EdChoice Survey, November 2020 (N=2,200); EMI Oxford (The Centre for Research and Development in English Medium Instruction), 2014; IBO.org; IELTS.org; and Department of Education – South Africa



The attractiveness of private K-12 is underpinned by secular growth drivers (2/2)

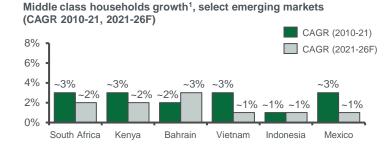


Students at or above proficient in technology and engineering literacy
Percentage



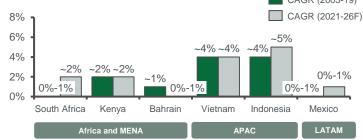
5 Rising affluence in emerging markets

Middle class households on average have grown at 1%-2% CAGR between 2010 and 2021, across emerging markets, and are forecast to grow at 1%-2% CAGR in the next 5 years



Average household disposable income on average has grown at 1%-2% CAGR between 2005 and 2019, across emerging markets, and is forecast to grow at 1%-2% CAGR in the next 5 vears

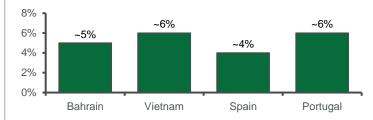
Avg. household income growth, select emerging markets CAGR CAGR CAGR (2005-19)



Rising expat population

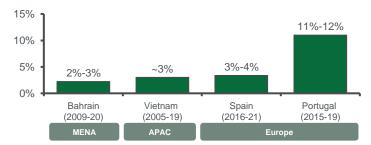
Increasing FDI across many emerging markets has led to the growth of expats in markets

Foreign direct investment growth, select emerging markets CAGR 2010-2019



The growing expat population across many emerging markets has led to the growth of private education, as private schools are the only viable option for expats

Growth in expat population, select emerging markets CAGR



*We define the middle class in developed economies as comprising households with an annual disposable income of USD 44,900-USD 99,870 (in constant, purchasing power parity (PPP) terms). In emerging and developing economies, due to lower costs of living, we consider households with a lower income of USD 15,000-USD 45,500 (in constant, PPP terms) as belonging to the middle class.

Source: L.E.K. research and analysis based on data from Hart Research Association Report 'Selected Findings from Online Surveys of Employers and College Students Conducted on Behalf of the Association of American Colleges and Universities'; World Economic Forum; Nations Report Card; UNESCO, MoE Bahrain, INE Spain, Gabinete de Estratégia e Estudos (GEE) – Portugal; and data provided by Oxford Economics 2020

High barriers to entry and robust business model add to the attractiveness of the private K-12 segment (1/2)



Established and recognised brands

Long lead time required to establish trusted and reputable brands



Scarcity of real estate in commercially viable areas (catchment play)

Private K-12 platforms benefit from prime real estate in attractive markets and exclusive relationships with real estate developers that help secure new locations with a minimal upfront investment



Access to upfront capital investment

Access to capital from intrinsic cash generation across platform and diversified financing sources provides competitive advantage for investing in long-term growth projects



Long student tenure*

Focused on jurisdictions where students generally stay enrolled in the same school until graduation, greatly limiting the potential for new entrants



Deep local market insights

Deep understanding of local markets and catchments through years of extensive research and experience of local management teams

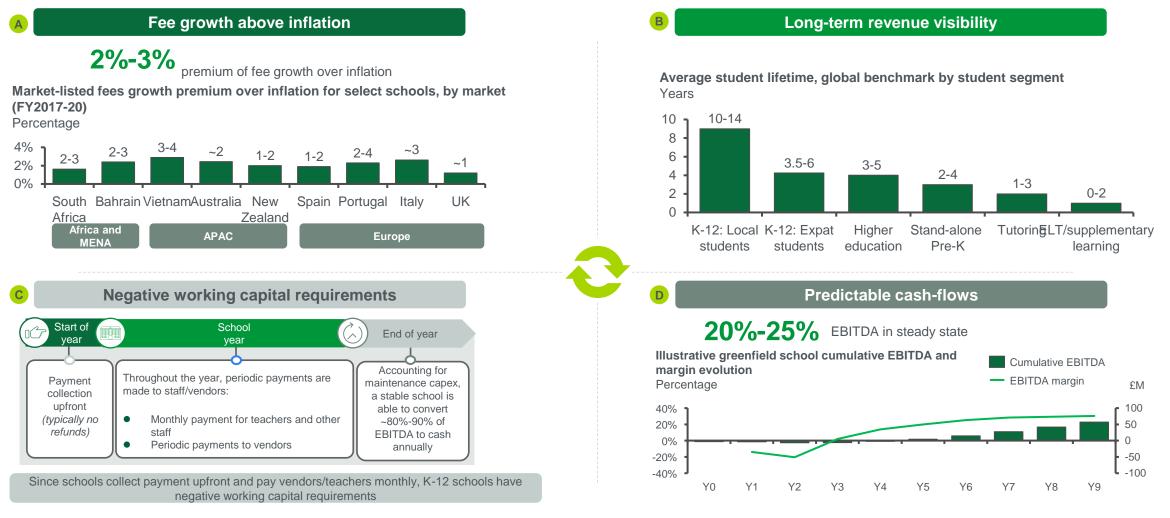


Secured government licenses and regulatory approvals

Strong relationships with regulatory bodies; operate in geographies with stable and predictable global school portfolio regulatory environment

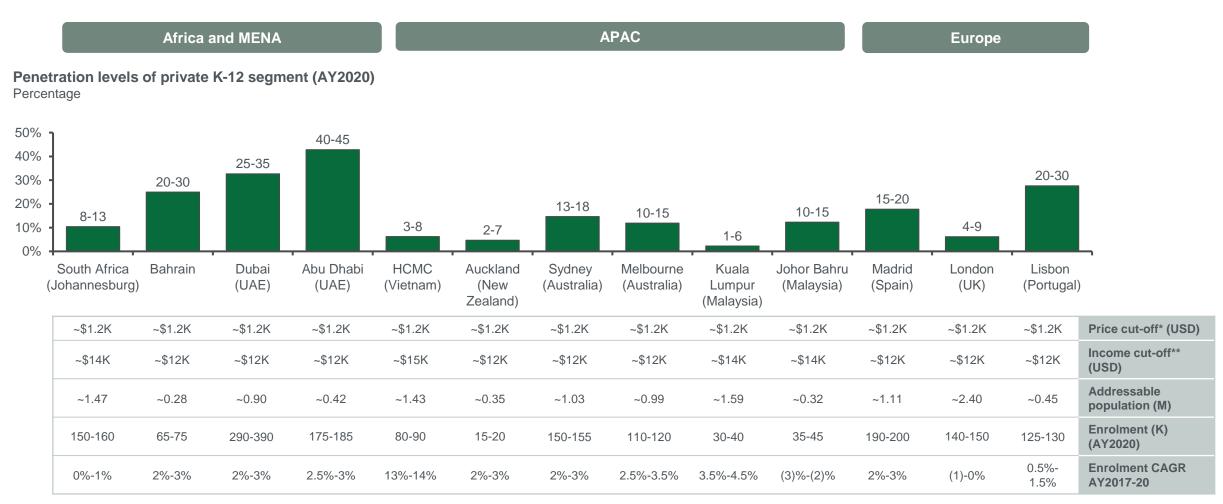
*Average of local and expat student tenure Source: L.E.K. research and analysis

High barriers to entry and robust business model add to the attractiveness of the private K-12 segment (2/2)





At an average penetration of 15%-25% currently, the private segment across major cities has headroom for growth



*Price cut-off is the Year 9 listed fees for the most economical school in the respective segment; based on constant 2015 prices; **Income cut-off is the amount of the disposable income a family should have to afford the private and premium education, respectively; assumed ~10% of the disposable income is spent on education, except for Kuala Lumpur, Johor Bahru and South Africa (15% spend on education) and Ho Chi Minh City (HCMC) (20% spend on education)

Source: L.E.K. research and analysis based on market participant discussions and secondary research

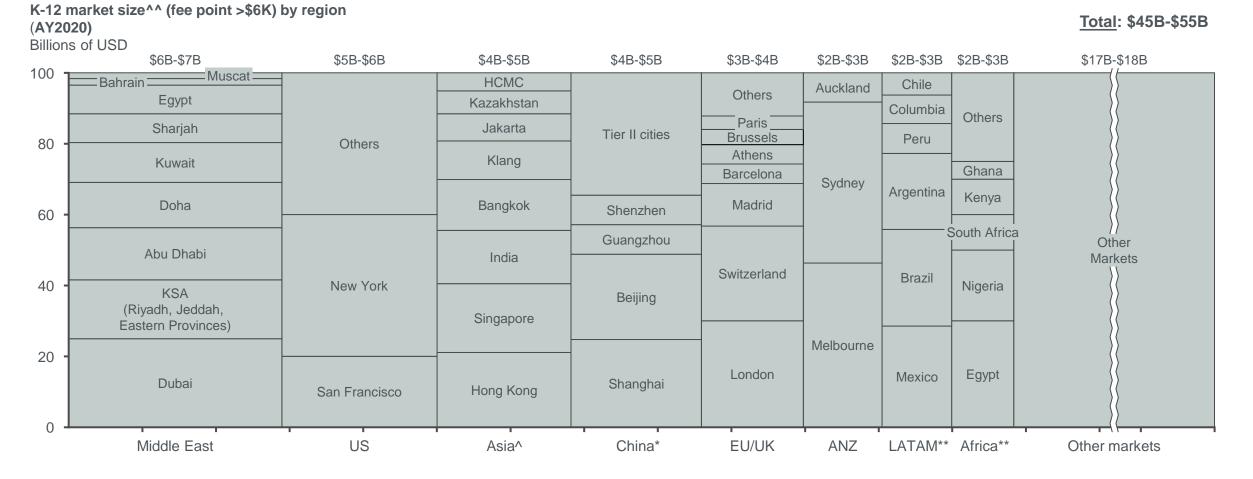


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Within private K-12, the international and bilingual curricula school market with fee point >\$6K is sized at \$45B-\$55B in annual revenue across key cities, globally



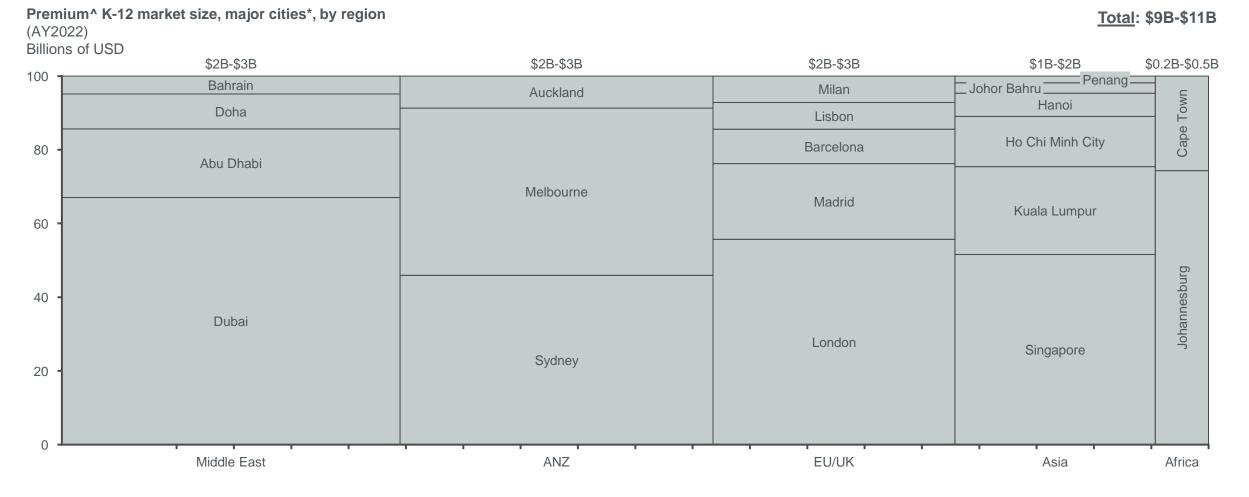
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*China includes only international and bilingual schools; ^Asia includes only international schools, except HCMC; **LATAM and Africa includes schools with English as a medium of instruction; ^Defined as market size for all schools above \$6K across select non-exhaustive, major markets

Source: L.E.K. research and analysis based on market participant discussions and secondary research

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The premium segment in 20-25 major cities across EU, APAC, MENA and Africa is estimated at \$9B-\$11B in value ...

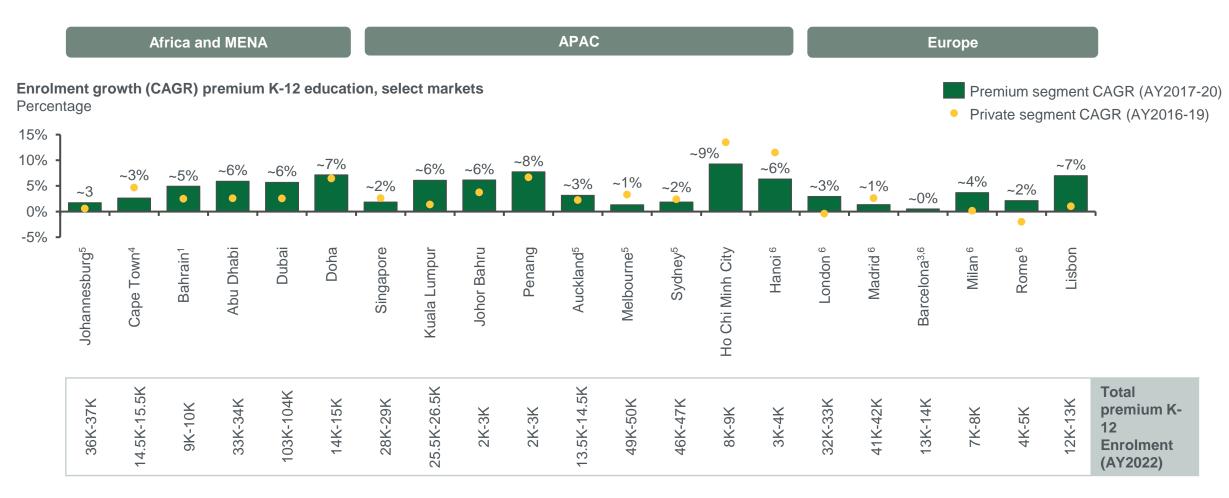


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*Top cities with major premium K-12 segment; ^Premium segment (segment defined as schools with fees >USD ~6K-24K (cut-off varies from market to market based on local dynamics), based on L.E.K. research Source: L.E.K. research and analysis and market participant discussions; Content subject to the disclaimer slide provided herein

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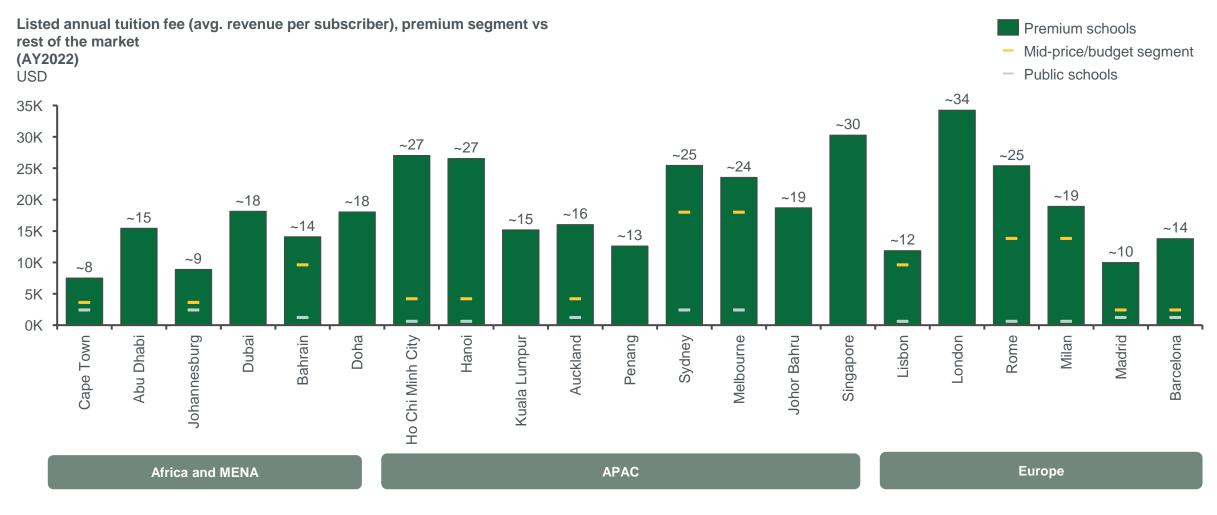
... and has grown faster than the rest of the private market, in most of these 20-25 cities



¹Bahrain's private enrolment growth is for AY2016-19; ²Penang's private enrolment growth is for AY2018-20; ³Barcelona's private enrolment growth is AY17-22; ⁴For Cape Town's premium enrolment growth is for AY2017-21; ⁵For South Africa, New Zealand and Australia, the private enrolment growth is for AY2016-19; ⁶For select cities, the premium enrolment growth is for AY2017-22 Source: L.E.K. research and analysis based on data from school websites, etc.

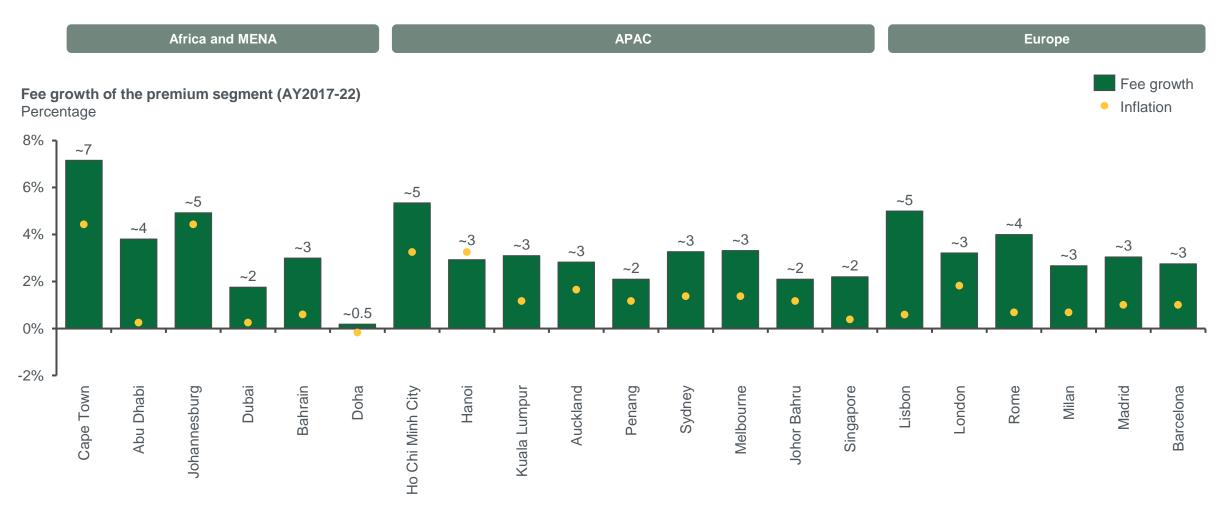


Priced at a considerable premium to mid-price and public schools ...



Source: L.E.K. research and analysis based on school websites and market participant discussions

... the premium segment across major markets has demonstrated fee growth at a premium to inflation between AY2017 and AY2022



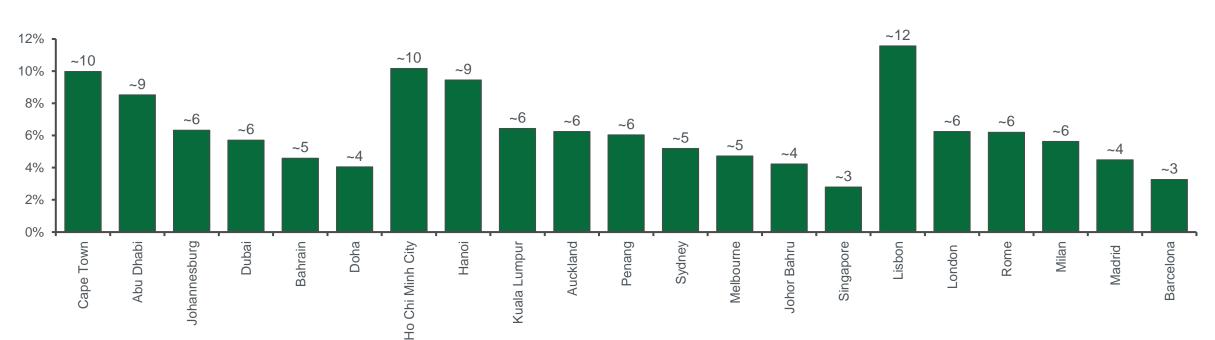
Source: L.E.K. research and analysis



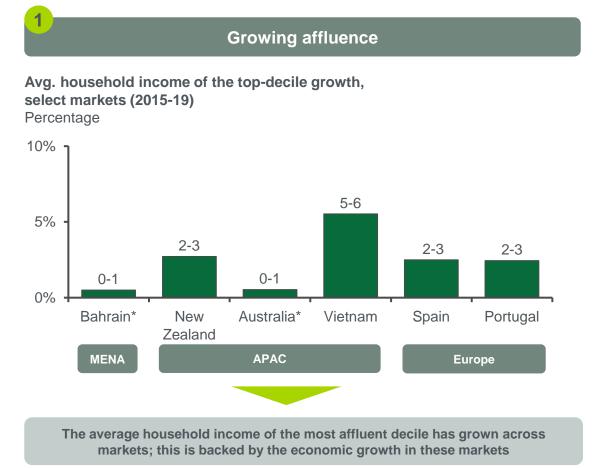
Overall, during the past 5-6 years, the premium segment has seen strong revenue growth ...

Africa and MENA APAC Europe

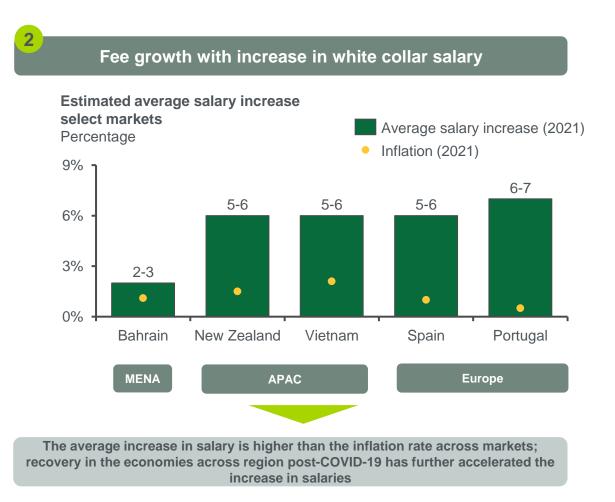
Revenue growth (CAGR) for premium K-12 education, select markets Percentage



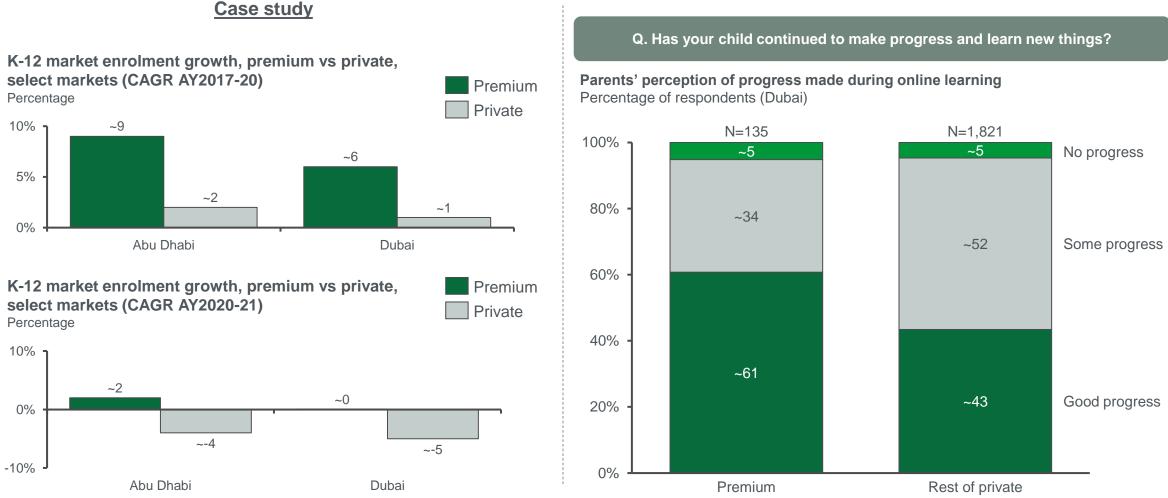
.... backed by growing affluence and increasing fees, with an increase in white collar salary across the major cities



*For Bahrain and Australia, the growth rate of average household income of the top decile is from 2010 to 2019 Source: L.E.K. research and analysis based on data from Salary Explorer



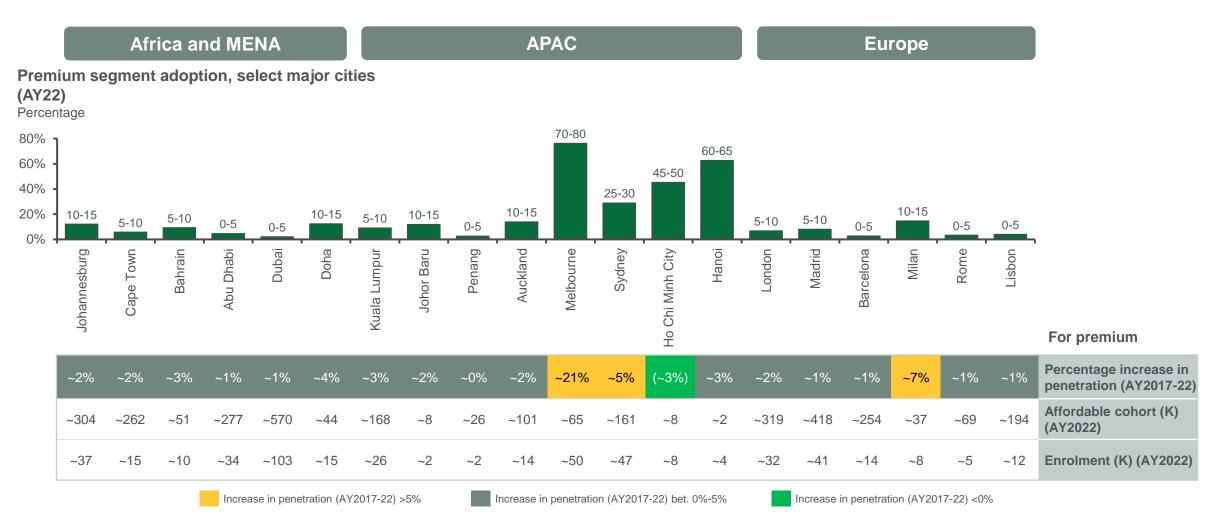
The premium K-12 segment has also demonstrated higher resilience than the overall private sector during the pandemic in major markets globally



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Source: L.E.K. research and analysis based on data from L.E.K. Parent Survey, KHDA data and market participant discussions

At an average penetration of 5%-15% currently, the premium segment across major cities has headroom for growth

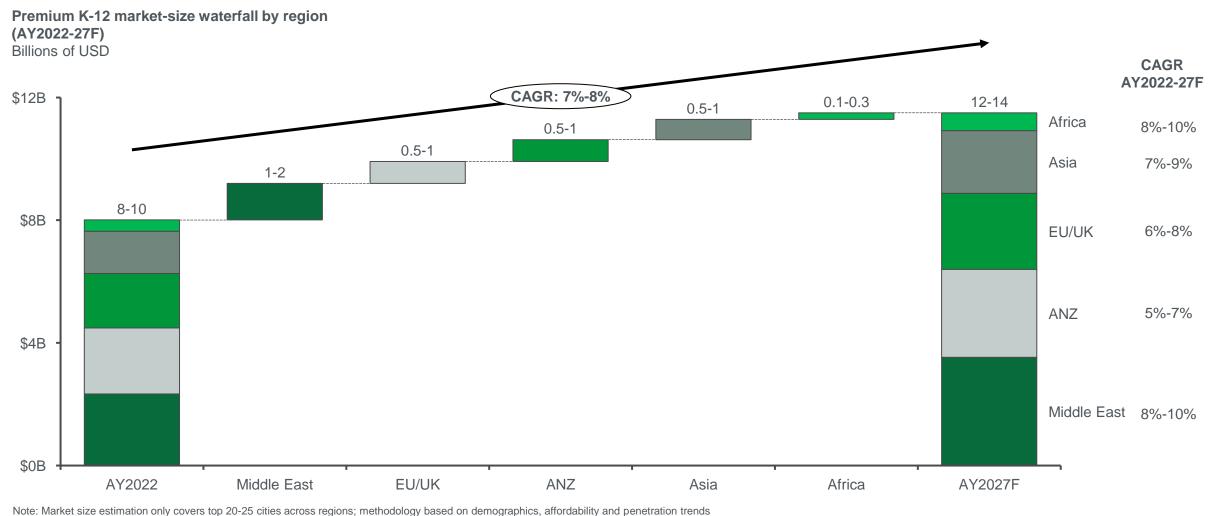


Note: Values for Australia, New Zealand and South Africa are from AY2017 to AY2021

Source: L.E.K. research and analysis based on data from school websites, market participant discussions, and data provided by Oxford Economics



The premium K-12 segment across the top 20-25 cities is estimated to grow (in value) at 7%-8% CAGR and reach revenue scale of \$12B-\$14B by 2027F ...

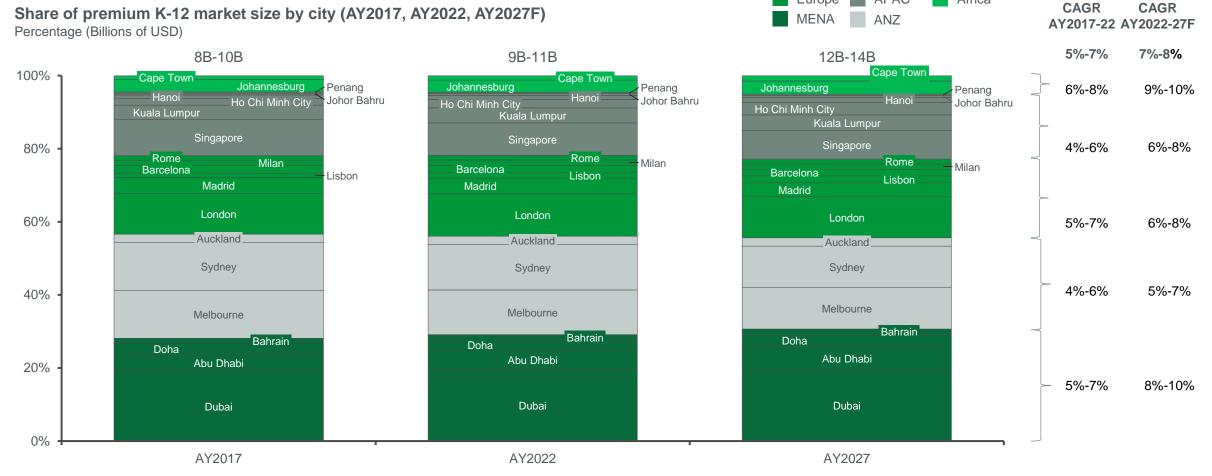


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Source: L.E.K. research and analysis based on school websites and market participant discussions; content subject to the disclaimer slide provided herein

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... in line with or slightly faster than the historically demonstrated performance across regions



APAC

Africa

Europe

Note: Data mentioned for Australia, South Africa and New Zealand represents AY2016-21 and AY2021-26 Source: L.E.K. research and analysis and market participant discussions

Overall growth in the premium segment across these top cities is expected to be driven by strong macroeconomic fundamentals, growing affluence and increasing adoption (1 of 9)

Europe		Enrolment fo	recast — Key parameters				
	AY2017	AY2020	AY2022	AY2027F	CAGR 2017-20	CAGR 2020-22	CAGR 2022-27F
cal demand assessment							
emographics: Relevant population (aged 3-18)							
isbon	450k-500k	450k-500k	450k-500k	450k-500k	0%-1%	(1)%-0%	(1)%-0%
/ladrid	~1.1M	~1.1M	~1.1M	~1.1M	1%-2%	0%-1%	(1)%-0%
lilan	~0.8M	~0.8M	~0.8M	~0.7M	0%	(1)%-0%	(1)%-0%
fordability*: Average HH disposable income (in thous	sands of USD)						
sbon	~38	~40	~39	~41	1%-2%	(1)%-0%	0.5%-1.5%
adrid	~51	~53	~52	~56	0%-1%	(2)%-(1)%	1%-2%
ilan	~56	~57	~55	~57	0%-1%	(2)%-(1)%	0%-1%
doption %							
isbon	0-5	0-5	0-5	3-8	-	-	-
ladrid	6-7	7-8	7-8	9-10	-	-	-
ilan	6-11	8-13	12-17	25-30	-	-	-
larket enrolment potential (K)							
isbon	5.5-6.5	6.5-7.5	7.5-8.5	9-10	5%-7%	4%-6%	4%-6%
ladrid	31-32	32-33	33-34	35-36	1%-2%	1%-2%	0%-1%
ilan	4.2-4.7	4.5-5	5-5.5	6.1-6.6	5%-7%	~0%	2%-3%
Expat demand assessment							
DI stock (in billions of USD)							
isbon	~133	~155	~143	~169	5%-6%	(5)%-(4)%	3%-4%
adrid	~772	~886	~777	~947	3%-4%	(6)%-(5)%	3%-4%
ilan	449	~530	~400	~507	5%-6%	(14)%-(13)%	4%-5%
arket enrolment potential (in thousands of USD)							
sbon	2.5-3.5	3-4	4-5	6.5-7.5	9%-10%	9%-10%	7.5%-9.5%
adrid	7-8	7-8	7-8	8-9	1%-2%	1%-2%	2%-3%
lilan	1.8-2.2	1.9-2.3	2.2-2.4	2.8-3.8	2%-3%	~0%	4%-5%
otal demand assessment (K)							
sbon	7.5-9.5	9.5-11.5	11.5-13.5	15.5-17.5	6%-8%	6%-8%	6%-8%
adrid	38-39	40-41	41-42	43-44	1%-2%	1%-2%	1%-2%
ilan	6-7	6-7	7-8	8-9	5%-6%	~0%	3%-4%
ee growth (in thousands of USD)							
sbon	9-10	10-11	11-12	15-16	2%-4%	2%-4%	3.5%-5.5%
adrid	8-9	9-10	9-10	11-12	3%-4%	2%-3%	3%-4%
ilan	16-17	18-19	18-19	22-23	4%-5%	0%-1%	3%-4%
stimated gross tuition fees revenue (in thousands of							
sbon	80-96	114-126	138-150	240-276	10%-12%	11%-13%	11%-13%
ladrid	324-336	384-395	407-419	515-527	5%-6%	3%-4%	4%-5%
ilan	96-120	120-156	120-156	186-210	9%-10%	0%-1%	6%-8%

*Based on constant 2015 prices; HH=household

Source: L.E.K. research and analysis based on data from Oxford Economics

Unfavourable compared to historic



Overall growth in the premium segment across these top cities is expected to be driven by strong macroeconomic fundamentals, growing affluence and increasing adoption (2 of 9)

Europe		Enrolment forecast –	- Key parameters				
	AY2017	AY2020	AY2022	AY2027F	CAGR 2017-20	CAGR 2020-22	CAGR 2022-27F
ocal demand assessment							
Demographics: Relevant population (aged 3-18)							
Barcelona	~0.8k	~0.8k	~0.8k	~0.8k	0-1%	0-1%	(1)-0%
Naples	~0.6k	~0.6k	0.6k	~0.5k	(2)-(1)%	(3)-(2)%	(2)%
Rome	~0.7k	~0.7k	0.6k	~0.6k	(1)-0%	(1)-0%	(1)-0%
_ondon	~2.3M	~2.4M	~2.4M	~2.5M	1-2%	0-1%	0-1%
Affordability*: Average HH disposable income (in thousan	ids of USD)						
Barcelona	~47	~47	~46	~49	0%-1%	(2)%-(1)%	1%-2%
Naples	41-42	41-42	40-41	41-42	0%	(2)%-(1)%	0%-1%
Rome	48-49	49-50	47-48	49-50	0%-1%	(1)%-0%	0%-1%
_ondon	105-110	105-110	100-105	105-110	(1)%-0%	(3)%-(2)%	1%-2%
doption %							
Barcelona	2-3	2-3	2-3	3-4	-		
Vaples	1-2	1-2	1-2	2-3	-		
Rome	0-5	0-5	0-5	3-8	-	-	-
London	4-9	5-10	5-10	5-10	-	-	-
larket enrolment potential (K)							
Barcelona	6-7	6-7	6-7	7-8	1%-2%	0%	1%-2%
laples	1-2	1-2	1-2	1-2	2%-3%	2%-3%	2%-3%
Rome	1.7-2.2	1.9-2.4	2.1-2.6	2.5-3.0	5%-7%	~0%	3%-4%
London	19-20	20-21	21-22	24-25	2%-3%	2%-3%	2%-3%
Expat demand assessment							
DI stock (in thousands of USD)	~772	~886	~777	~947	3%-4%	(6)%-(5)%	3%-4%
Barcelona	~449	~530	~400	~507	5%-6%	(14)%-(13)%	4%-5%
Naples Rome	~449	~530	~400	~507	5%-6%	(14)%-(13)%	4%-5%
.ondon larket enrolment potential (K)	~2,324	~2,555	~2,182	~2,184	3%-4%	(8)%-(7)%	5%-6%
Barcelona	6-7	6-7	6-7	8-9	0%-1%	0%-1%	3%-4%
Vaples	1-2	1-2	1-2	1-2	1%-2%	1%-2%	4%-5%
Rome	2-2.4	1.9-2.3	2.2-2.6	2.8-3.2	2%-3%	~0%	4%-5%
_ondon	9-10	9-10	10-11	14-15	3%-4%	3%-4%	<u> </u>
JIUUII	9-10	9-10	10-11	14-10	570-470	3%-4%	070-070

*Based on constant 2015 prices; HH=household

Source: L.E.K. research and analysis based on data from Oxford Economics



Unfavourable compared to historic



Overall growth in the premium segment across these top cities is expected to be driven by strong macroeconomic fundamentals, growing affluence and increasing adoption (3 of 9)

Europe		Enrolment forecast -	- Key parameters				
	AY2017	AY2020	AY2022	AY2027F	CAGR 2017-20	CAGR 2020-22	CAGR 2022-27F
Total demand assessment (K)							
Barcelona	13-14	13.5-14.5	13-14	15-16	0%-1%	0%-1%	2%-3%
Naples	2-3	2-3	2-3	2-3	1%-2%	1%-2%	3%-4%
Rome	4-4.5	4-4.5	4.5-5.5	5.3-6.3	5%-6%	~0%	4%-5%
London	28-29	30-31	32-33	38-39	2%-3%	2%-3%	3%-4%
Fee growth (in thousands of USD)							
Barcelona	12-13	12.5-13.5	13-14	16-17	2%-3%	2%-3%	3%-4%
Naples	18-19	18-19	19-20	20-21	0%-1%	0%-1%	1%-2%
Rome	20-21	23-24	25-26	31-32	3%-4%	3%-4%	4%-5%
London	29-30	32-33	34-35	39-40	3%-4%	3%-4%	3%-4%
Estimated gross tuition fees revenue (in m	illions of USD)						
Barcelona	156-168	168-180	180-192	240-252	3%-4%	3%-4%	5%-7%
Naples	35-40	35-40	40-45	55-60	2%-3%	2%-3%	5%-6%
Rome	78-102	114-138	114-138	174-198	10%-11%	0%-1%	8%-10%
London	820-830	980-990	1,110-1,120	1,550-1,560	6%-7%	6%-7%	6%-7%

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Overall growth in the premium segment across these top cities is expected to be driven by strong macroeconomic fundamentals, growing affluence and increasing adoption (4 of 9)

South Africa		Enrolment forecast	- Key parameters				
	AY2017	AY2020	AY2021	AY2026F	CAGR 2017-20	CAGR 2020-21	CAGR 2021-26F
Demand Assessment							
Demographics: Relevant population	(M) (aged 3-18)						
Johannesburg	~2.4	~2.6	~2.7	~2.9	2%-3%	2%-3%	1%-2%
Cape Town	~1.1	~1.1	~1.2	~1.2	1%-2%	1%-2%	4%-5%
Affordability*: Average HH disposabl	le income (in thousands of USD)						
Johannesburg	~17	~14	~14	~15	(5)%-(4)%	(2)%-(1)%	1%-2%
Cape Town	~20	~17	~17	~18	(5)%-(4)%	(1)%-0%	1%-2%
Adoption %							
Johannesburg	9-10	10-11	12-13	13-14	-	-	-
Cape Town	4-5	5-6	5-6	6-7	-	-	-
Market enrolment potential (K)							
Johannesburg	34-35	36-37	36-37	42-43	1%-2%	0%	2.5%-3.5%
Cape Town	13-14	14-15	14-15	18-19	2%-3%	2%-3%	4%-5%
Fee growth (in thousands of USD)							
Johannesburg	7-8	8-9	8-9	11-12	5%-6%	4%-5%	5%-6%
Cape Town	5-6	6-7	7-8	10-11	7%-8%	7%-8%	7%-8%
Estimated gross tuition fees revenue	(in millions of USD)						
Johannesburg	240-265	312-324	324-336	491-503	6%-8%	4%-5%	8%-9%
Cape Town	72-84	96-108	108-120	192-204	9%-10%	7%-8%	12%-13%

Better than historic In line with historic

Unfavourable compared to historic

Overall growth in the premium segment across these top cities is expected to be driven by strong macroeconomic fundamentals, growing affluence and increasing adoption (5 of 9)

Middle East		Enrolment forecast -	 Key parameters 				
	AY2017	AY2020	AY2022	AY2027F	CAGR 2017-20	CAGR 2020-22	CAGR 2022-27F
ocal demand assessment				· · · ·			
Demographics: Relevant population (K) (aged 3-18)							
Bahrain	~293	~286	~304	~304	(1)%-0%	3%-4%	0%-1%
Dubai	~854	~906	~901	~990	1%-2%	(1)%-0%	1%-2%
.bu Dhabi	~357	~423	~421	~509	5%-6%	(1)%-0%	3%-4%
Doha	~135	~141	~152	~164	1%-2%	(2)%-(1)%	0%-1%
ffordability*: Average HH disposable income (in thousands of	of USD)						
ahrain	62-63	62-63	60-61	61-62	0%	(2)%-(1)%	0%-1%
Jubai	135-136	151-152	166-167	178-179	3%-4%	4%-5%	1%-2%
bu Dhabi	165-170	200-205	215-220	235-240	5%-6%	3%-4%	1%-2%
Doha	130-140	140-150	150-160	160-170	1%-2%	4%-5%	1%-2%
doption %							
ahrain	5-10	5-10	5-10	10-15	-	-	-
ubai	1-6	1-6	1-6	1-6	-	-	
bu Dhabi	2-7	2-7	2-7	2-7	-	-	-
loha	5-10	10-15	10-15	20-25	-	-	-
larket enrolment potential (K)							
Bahrain	3.5-4.5	4.5-5.5	4.5-5.5	6-7	6%-7%	0%-1%	4.5%-5.5%
ubai	8-9	10-11	12-13	18-19	14%-15%	6%-7%	8%-9%
bu Dhabi	8-9	10-11	12-13	20-21	8%-9%	10%-11%	9%-10%
Doha	3-3.5	4.5-5	5-5.5	9.5-10	11%-12%	7%-8%	12%-13%
Expat demand assessment DI stock (in billions of USD)							
ahrain	~27	~30	~28	~32	4%-5%	(4)%-(3)%	2%-3%
Dubai	~141	~175	~129	~250	7%-8%	(15)%-(14)%	14%-15%
bu Dhabi	~141	~175	~129	~250	7%-8%	(15)%-(14)%	14%-15%
oha	~141	~39	~45	~53	(4)%-(3)%	7%-8%	3%-4%
larket enrolment potential (K)						170070	070 470
ahrain	4-5	4.5-5.5	4.5-5.5	5-6	3%-4%	(3)%-(2)%	1%-2%
ubai	78-79	90-91	91-92	105-106	4%-5%	0%-1%	3%-4%
bu Dhabi	18-19	21-22	21-22	24-25	4%-5%	(1)%-0%	3%-4%
Doha	8-9	10-11	9-10	12-13	5%-6%	(6)%-(5)%	6%-7%
710		10 11	0.10	Dattar than			

*Based on constant 2015 prices; HH=household

Source: L.E.K. research and analysis based on data from Oxford Economics

Better than historic 🚺 In line with historic

Unfavourable compared to historic



Overall growth in the premium segment across these top cities is expected to be driven by strong macroeconomic fundamentals, growing affluence and increasing adoption (6 of 9)

Middle East		Enrolment forecast —	- Key parameters				
	AY2017	AY2020	AY2022	AY2027F	CAGR 2017-20	CAGR 2020-22	CAGR 2022-27F
Total demand assessment (K)							
Bahrain	8-9	9-10	9-10	11-12	5%-6%	(2)%-(1)%	3%-4%
Dubai	85-86	100-101	103-104	124-125	5%-6%	1%-2%	3%-4%
Abu Dhabi	27-28	32-33	33-34	44-45	5%-6%	2%-3%	5%-6%
Doha	12-13	14-15	14-15	22-23	7%-8%	(1)%-0%	8%-9%
Fee growth (in thousands of USD)							
Bahrain	12-13	13-14	14-15	16-17	2%-3%	0%-1%	3%-4%
Dubai	16-17	17-18k	18-19	21-22	1%-2%	1%-2%	3%-4%
Abu Dhabi	12-13	14-15	15-16	20-21	4%-5%	2%-3%	5%-6%
Doha	17-18	17-18	17-18	20-21	0%-1%	0%-1%	2%-3%
Estimated gross tuition fees revenue (in	millions of USD)						
Bahrain	108-120	132-144	132-144	174-210	7%-8%	(1)%-0%	6%-8%
Dubai	1,400-1,420	1,740-1,760	1,860-1,880	2,660-2,680	5%-6%	3%-4%	7%-8%
Abu Dhabi	340-360	460-480	510-530	890-910	10%-11%	5%-6%	11%-12%
Doha	210-230	260-280	260-280	440-460	7%-8%	(1)%-0%	11%-12%



Overall growth in the premium segment across these top cities is expected to be driven by strong macroeconomic fundamentals, growing affluence and increasing adoption (7 of 9)

АРАС		Enrolment forecast — K	ey parameters				
	AY2017	AY2020	AY2021	AY2026F	CAGR 2017-20	CAGR 2020-21	CAGR 2021-26F
emand Assessment							
Demographics: Relevant population (M) (aged 3-18)							
Auckland	~0.351	~0.360	~0.359	0.36-0.38	0%-1%	(1)%-0%	0%-1%
ydney	~1.0	~1.0	~1.0	~1.1	1%-2%	0%-1%	1%-2%
delaide	~0.3	~0.3	~0.3	~0.3	0%-1%	0%-1%	0%-1%
elbourne	~0.9	~1.0	~1.0	~1.0	2%-3%	0%-1%	1%-2%
ffordability*: Average HH disposable income (in thousand	s of USD)						
uckland	~74	~73	~76	~82	(1)%-0%	5%-6%	1%-2%
ydney	~108	~111	~106	~107	0%-1%	(5)%-(4)%	0%-1%
delaide	~87	~88	~83	~87	0%-1%	(6)%-(5)%	0%-1%
elbourne	~85	~86	~81	~88	0%-1%	(6)%-(5)%	1%-2%
Adoption %							
uckland	10-13	12-15	12-15	15-18	-	-	-
ydney	20-25	22-27	22-27	32-37	-	-	-
delaide	18-23	20-25	25-30	27-32	-	-	-
elbourne	52-57	57-62	73-79	75-80	-	-	-
arket enrolment potential (K)							
uckland	12-13	13-14	13.5-14.5	16-17	3%-4%	3%-4%	3%-4%
ydney	41-45	44-48	45-49	48-52	1%-2%	1%-2%	1%-2%
delaide	7-8	7-8	7-8	8-9	1%-2%	1%-2%	2%-3%
elbourne	45-49	47-51	48-52	52-56	1%-2%	1%-2%	1.5%-2.5%
ee growth (in thousands of USD)							
ıckland	14-15	15-16	15-16	18-19	3%-4%	2%-3%	3%-4%
dney	20-24	24-28	24-28	28-32	3.5%-4.5%	1%-2%	3.5%-4.5%
lelaide	14-18	15-19	15-19	18-22	2%-3%	1%-2%	2%-3%
elbourne	20-21	23-24	23-24	28-29	3.5%-4.5%	0%-1%	3.5%-4.5%
timated gross tuition fees revenue (in millions of USD)							
ickland	168-180	204-216	216-228	300-325	5%-7%	6%-8%	5%-7%
ydney	900-1,020	1,080-1,120	1,140-1,260	1,500-1,620	5%-6%	3%-4%	5%-6%
delaide	110-120	120-130	130-140	170-180	3%-4%	2%-3%	5%-6%
elbourne	900-1,000	1080-1,120	1,140-1,260	1,500-1,620	5%-6%	2%-3%	5%-7%

*Based on constant 2015 prices; HH=household

Source: L.E.K. research and analysis based on data from Oxford Economics

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historic



Overall growth in the premium segment across these top cities is expected to be driven by strong macroeconomic fundamentals, growing affluence and increasing adoption (8 of 9)

АРАС		Enrolment forecast — I	Key parameters				
	AY2017	AY2020	AY2022	AY2027F	CAGR 2017-20	CAGR 2020-22	CAGR 2022-27F
ocal demand assessment							
Demographics: Relevant population (M) (aged 3-18)							
Ho Chi Minh City	~1.6	~1.7	~1.8	~2	2%-3%	2%-3%	2%-3%
Hanoi	~1.6	~1.6	~1.7	~1.7	0%-1%	0%-1%	0%-1%
Singapore	-	-	-	-	-	-	-
Affordability*: Average HH disposable income (in thousand	s of USD)						
ło Chi Minh City	~9	~11	~12	~16	7%-8%	5%-6%	4%-5%
lanoi	~9	~10	~11	~14	4%-5%	1%-2%	4%-5%
Singapore	-	-	-	-	-	-	-
Adoption %							
Ho Chi Minh City	45-46	54-55	44-45	42-43	-	-	-
łanoi	60-61	61-62	62-63	64-65	-	-	-
Singapore	-	-	-	-	-	-	-
Market enrolment potential (in thousands of USD)							
lo Chi Minh City	2-2.5	3-3.5	3.5-4	6-7	10%-11%	7%-8%	11%-13%
Hanoi	0.5-1	1-2	1-2	2-3	11%-12%	7%-8%	12%-13%
Singapore	-	-	-	-	-	-	-
Expat demand assessment							
FDI stock (in billions of USD)							
lo Chi Minh City	~153	~183	~200	~262	6%-7%	4%-5%	5%-6%
łanoi	~153	~183	~200	~262	6%-7%	4%-5%	5%-6%
Singapore	~764	~1,005	~952	~1,460	9%-10%	(3)%-(2)%	8%-9%
Market enrolment potential (K)							
Ho Chi Minh City	4-4.5	5-5.5	4.5-5	5-6	8%-9%	(9)%-(8)%	5%-6%
lanoi	1-2	2-3	2-3	3-4	13%-14%	(9)%-(7)%	5%-6%
Singapore	27-28	28-29	28-29	31-32	1%-2%	(2)%-(1)%	2%-3%
Total demand assessment (K)							
Ho Chi Minh City	6-7	8-9	8-9	12-13	9%-10%	(3)%-(2)%	8%-9%
lanoi	2-3	4-5	3-4	~6	12%-13%	(2)%	8%-9%
Singapore	27-28	28-29	28-29	31-32	1%-2%	(2)%-(1)%	2%-3%
Fee growth (in thousands of USD)							
lo Chi Minh City	20-21	25-26	26-27	36-37	5%-6%	4%-5%	6%-7%
lanoi	23-24	24-25	26-27	31-32	3%-4%	2%-3%	3%-4%
lingapore	27-28	29-30	30-31	33-34	2%-3%	2%-3%	2%-3%
Estimated gross tuition fees revenue (in millions of USD)							
Ho Chi Minh City	132-144	215-228	215-228	455-467	16%-17%	1%-2%	14%-16%
Hanoi	60-72	84-96	108-120	180-192	10%-11%	7%-8%	12%-13%
Singapore	730-750	830-850	850-870	1,050-1,100	4%-5%	0%-1%	4%-5%

*Based on constant 2015 prices; HH=household

Source: L.E.K. research and analysis based on data from Oxford Economics

Unfavourable compared to historic



Overall growth in the premium segment across these top cities is expected to be driven by strong macroeconomic fundamentals, growing affluence and increasing adoption (9 of 9)

АРАС		Enrolment forecast —	Key parameters				
AFAC	AY2017	AY2020	AY2022	AY2027F	CAGR 2017-20	CAGR 2020-22	CAGR 2022-27F
cal demand assessment							
emographics: Relevant population (M) (aged 3-18)							
Cuala Lumpur	~1.6	~1.6	~1.6	~1.7	(1)%-0%	0%-1%	0%-1%
lohor Bahru	~0.4	~0.4	~0.4	~0.4	(1)%-0%	(1)%-0%	(1)%-0%
enang	~0.1	~0.1	~0.1	~0.1	(1)%-0%	(1)%-0%	(1)%-0%
ffordability*: Average HH disposable income (in thousands of	of USD)						
uala Lumpur	~30	~32	~32	~39	3%-4%	(2)%-(1)%	4%-5%
ohor Bahru	~18	~19	~19	~23	1%-2%	(1)%-0%	4%-5%
enang	~25	~27	~26	~32	1%-2%	(2)%-(1)%	3%-4%
Adoption %							
uala Lumpur	6-7	7-8	~9	9-10	-	-	-
ohor Bahru	9-10	11-12	11-12	10-11	-	-	-
enang	2-3	2-3	2-3	2-3	-	-	-
larket enrolment potential (K)							
íuala Lumpur	12-13	14-15	15-16	19-20	6%-7%	1%-2%	4%-5%
ohor Bahru	0.9-1	1.1-1.2	0.9-1	1.2-1.3	4%-5%	(7)%-(6)%	4%-5%
enang	0.6-0.7	0.7-0.8	0.6-0.7	0.8-0.9	5%-6%	(7)%-(6)%	6%-7%
Expat demand assessment							
DI stock (in billions of USD)							
íuala Lumpur	~222	~246	~245	~293	3%-4%	(1)%-0%	3%-4%
ohor Bahru	~222	~246	~245	~293	3%-4%	(1)%-0%	3%-4%
enang	~222	~246	~245	~293	3%-4%	(1)%-0%	3%-4%
larket enrolment potential (K)							
uala Lumpur	10-11	11-12	10-11	12-13	5%-6%	(5)%-(4)%	2%-3%
phor Bahru	1.2-1.3	1.5-1.6	1.4-1.5	2.1-2.2	7%-8%	(2)%-(1)%	8%-9%
enang	1.3-1.4	1.7-1.8	1.7-1.8	2.7-2.8	8%-9%	0%-1%	9%-10%
Fotal demand assessment (K)							
uala Lumpur	22-23	26-27	~26	~32	6%-7%	(1)%-0%	4%-5%
ohor Bahru	2.2-2.3	2.6-2.7	2.4-2.5	3.3-3.4	6%-7%	(4)%-(3)%	6%-7%
Penang	2-2.2	2.5-2.7	2.4-2.6	3.6-3.8	7%-8%	(2)%-(1)%	8%-9%
Fee growth (in thousands of USD)							
uala Lumpur	13-14	14-15	15-16	18-19	3%-4%	3%-4%	4%-5%
phor Bahru	16-17	17-18	18-19	21-22	2%-3%	2%-3%	3%-4%
enang	11-12	12-13	12-13	14-15	2%-3%	2%-3%	3%-4%
stimated gross tuition fees revenue (in millions of USD)							
uala Lumpur	280-300	370-390	380-400	580-600	9%-10%	2%-3%	8%-9%
ohor Bahru	35-40	45-50	45-50	70-75	8%-9%	(2)%-(1)%	10%-11%
enang	20-25	30-35	30-35	50-55	10%-11%	0%-1%	11%-12%

*Based on constant 2015 prices; HH=household

Source: L.E.K. research and analysis based on data from Oxford Economics



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Danish K. Faruqui

Partner, L.E.K. Consulting's Global Education Practice

d.faruqui@lek.com

c.jhaveri@lek.com



Chinmay Jhaveri CJ

Partner, L.E.K. Consulting's Global Education Practice



Ashwin Goel

Principal, L.E.K. Consulting's Global Education Practice

<u>a.goel@lek.com</u>



Bharat Mehra

Principal, L.E.K. Consulting's Global Education Practice



Nikita Rajgopal

Manager, L.E.K. Consulting's Global Education Practice

<u>n.rajgopal@lek.com</u>





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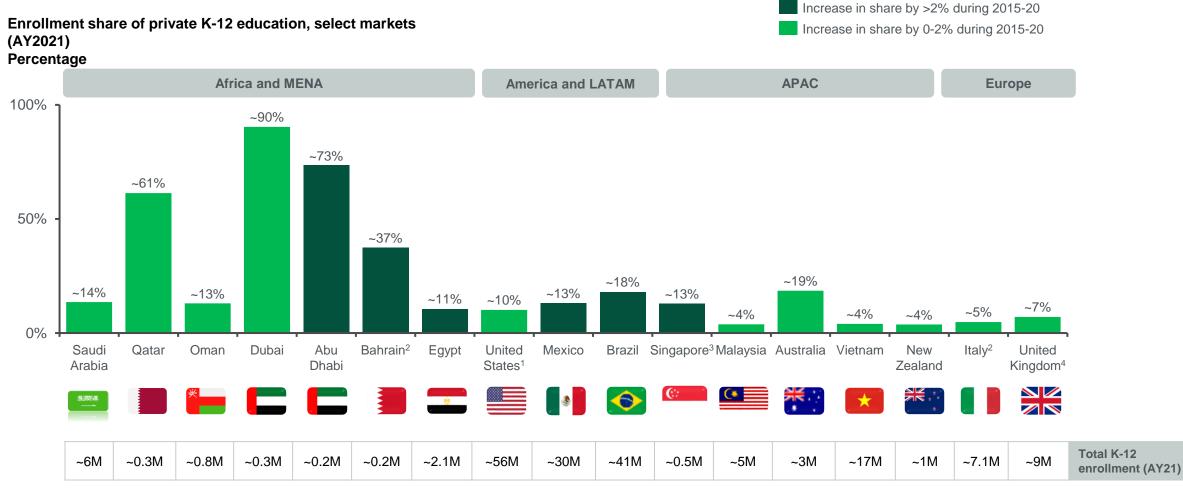
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Private K-12 has gained share over public schools across major markets between 2015-20

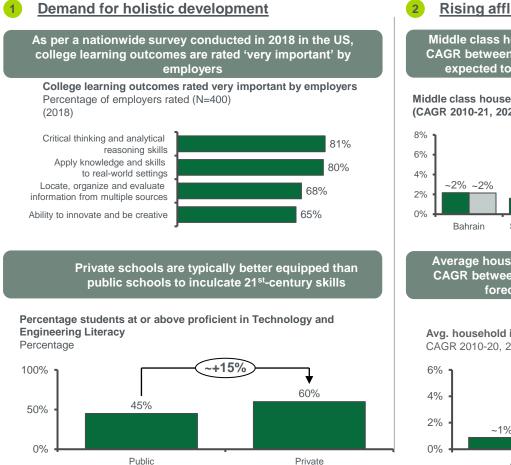


Note: Major markets globally depicted based on data availability; ¹Data available for AY15-20 for US; ²Data available for AY15-19 for Bahrain, Italy; ³Data available for AY17-20 for Singapore; ⁴Data available for AY14-21 for UK

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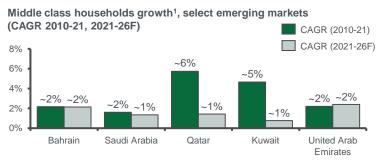
Source: L.E.K. research and analysis

The attractiveness of private K-12 is underpinned by secular growth drivers

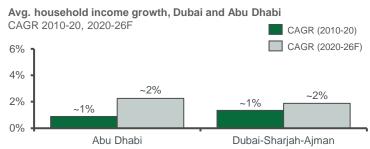


2 Rising affluence in emerging markets

Middle class households on average have grown at 2%-6% CAGR between 2010 and 2021 across GCC markets and are expected to grow at 1%-2% CAGR in the next 5 years



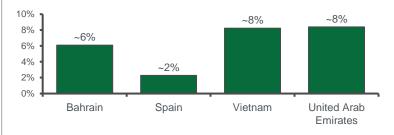
Average household disposable income has grown at ~1% CAGR between 2010 and 2020 in key UAE markets and is forecast to grow at ~2% CAGR till 2026



Rising expat population

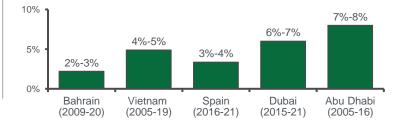
Increasing foreign direct investment (FDI) across many emerging markets has led to the growth of expats in markets

Foreign direct investment growth, select emerging markets CAGR 2010-21



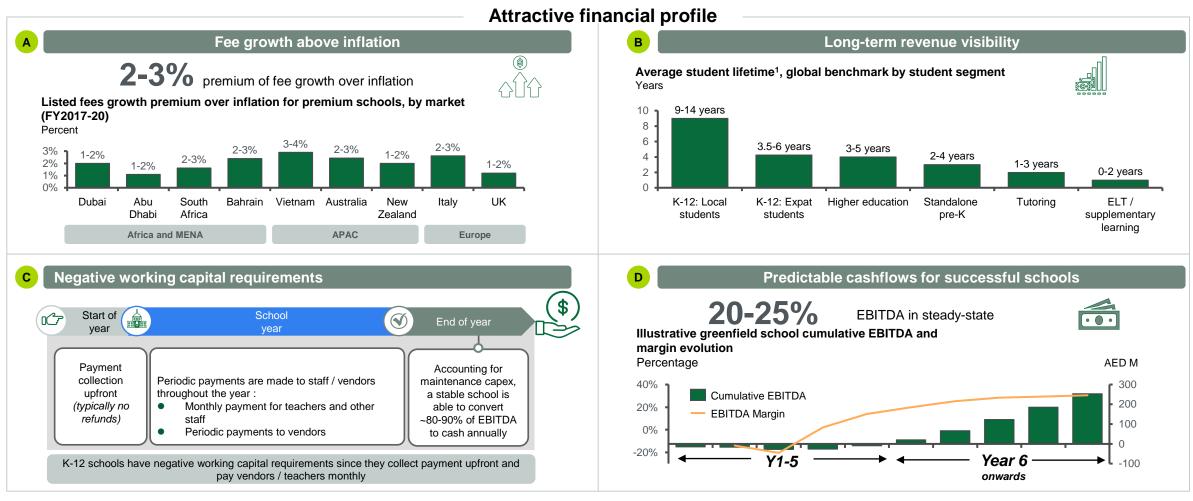
The growing expat population across many emerging markets has led to the growth of private education as private schools are the only viable option for expats

Growth in expat population, select emerging markets CAGR



Note: ¹We define the middle class in developed economies as comprising households with an annual disposable income of AED 164,783-AED 366,523 (in constant, purchasing power parity (PPP) terms). In emerging and developing economies, due to lower costs of living, we consider households with a lower income of AED 55,050-AED 166,985 (in constant, PPP terms) as belonging to the middle class Source: L.E.K. research and analysis

High barriers to entry and robust business model further lends to the attractiveness of private K-12

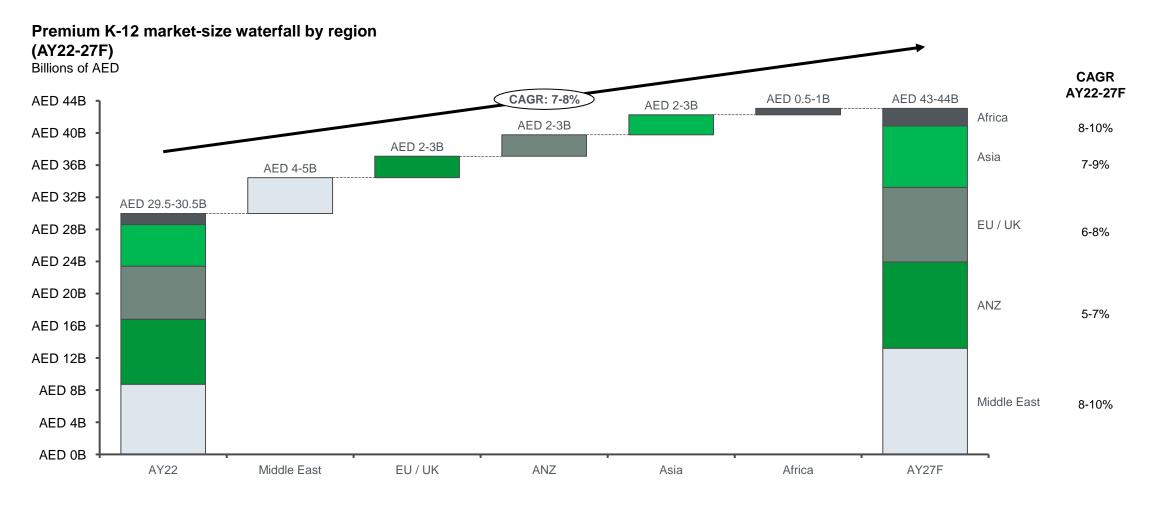


Note: ¹Global average student lifetime

Source: L.E.K. research and analysis based on data from school websites, market participant discussions and secondary research

LEK

The Premium K-12 segment is estimated to grow at a CAGR of 7-8% and reach a revenue scale of AED 43-44B by AY27F; Middle-East is estimated to grow the fastest globally between AY22-27F



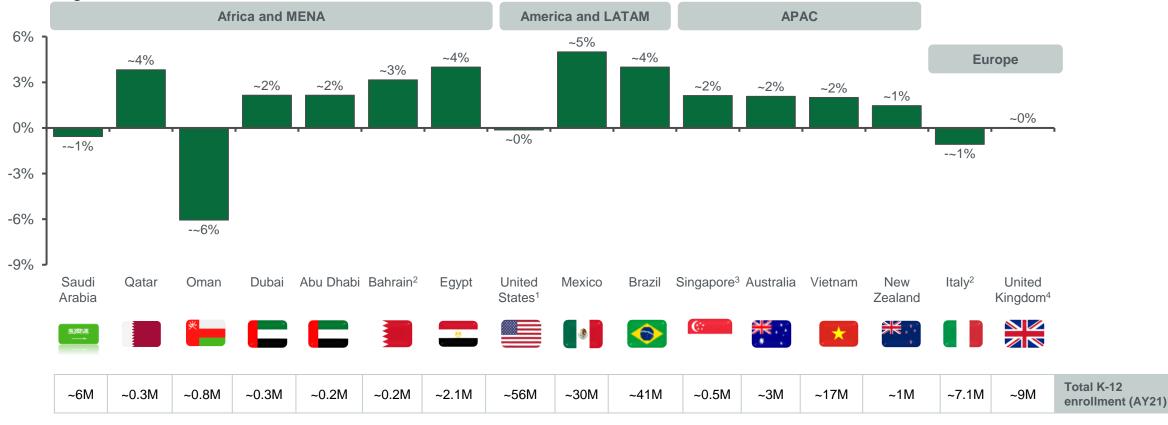
Note: Market Size Estimation only covers top 20-25 cities across regions; methodology based on demographics, affordability and penetration trends from L.E.K. Thought Leadership Source: L.E.K. research and analysis based on school websites, market participant discussions



GCC is one of the fastest growing K-12 markets

Enrollment growth of private K-12 education, select markets (AY2015-AY2021)

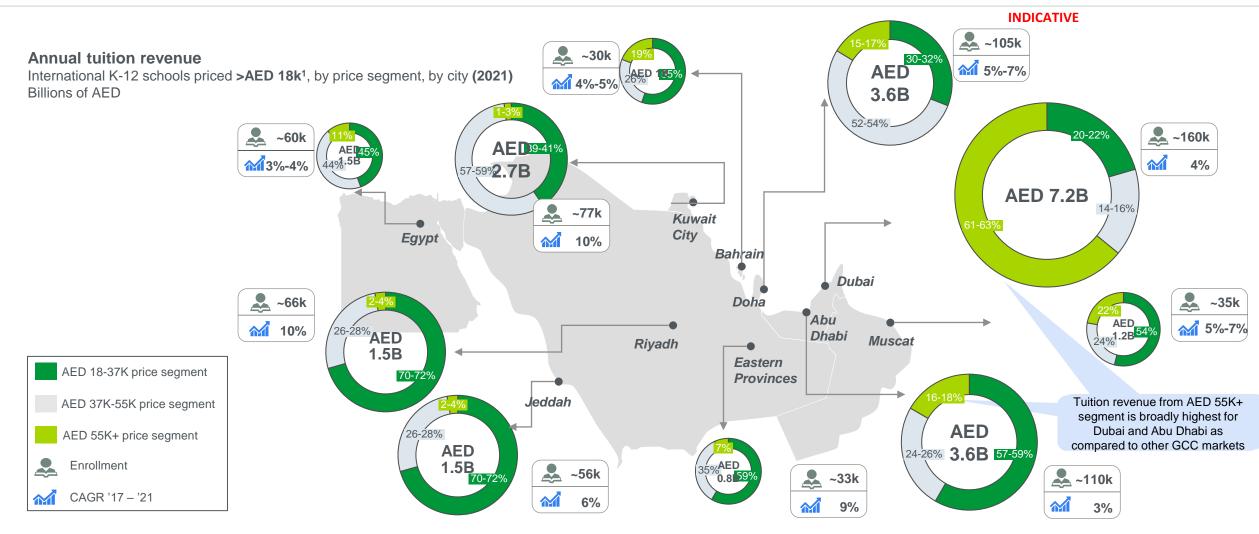
Percentage



Note: Major markets globally depicted based on data availability; ¹AY15-20 CAGR available for US; ²AY15-19 CAGR available for Bahrain, Italy; ³AY17-20 CAGR available for Singapore; ⁴AY14-21 CAGR available for UK Source: L.E.K. research and analysis

LEK

Key markets across GCC present a large and attractive opportunity; Dubai is the largest K-12 market in the region, followed by Abu Dhabi, Doha, and Kuwait



EK

Note: ¹Excludes schools priced below AED 18K, Data mentioned for KSA and Kuwait corresponds to AY19 and AY16-19, Data for Doha, Bahrain, and Muscat corresponds to AY20 and AY17-20 Source: L.E.K. research and analysis

In addition to UAE, markets such as KSA and Egypt also present attractive opportunities for growth due to favourable regulations, large relevant age population, significant headroom for growth due to low private adoption

	Saudi Arabia	Egypt	Kuwait	Qatar	Oman
Relevant age population	~7m	~25m	~0.7m	~0.3m	~0.8m
Private K-12 enrollment AY21 (millions of students)	~0.8m	~0.2m	~0.3m	~0.2m	~0.1m
Private K-12 enrollment CAGR (AY15-20)	~1%	~6%	~2%	~5%	~4%
Private K-12 share (AY21)	~14%	~11%	~39%	~61%	~13%
Regulatory overview	•	•	•		•
Overall assessment			•	•	•
Key considerations	 Large relevant age population Headroom to grow as private adoption is <20% and has better outcomes Favorable regulation 	 Large relevant age population Headroom to grow as private adoption is <10% and has better outcomes Apart from fee, regulation is favorable 	 High private K-12 adoption; however strong relevant segment growth Regulation is moderately favorable 	 High private adoption, however strong relevant segment growth Regulation is moderately favorable Access to land and high rentals are key challenges 	 Moderately high private adoption; moderate relevant segment growth Regulation is moderately favorable as fee growth is allowed only once in two years

Source: L.E.K. research and analysis based on secondary published sources

LEK

Easy

Difficult

Moderately

easv

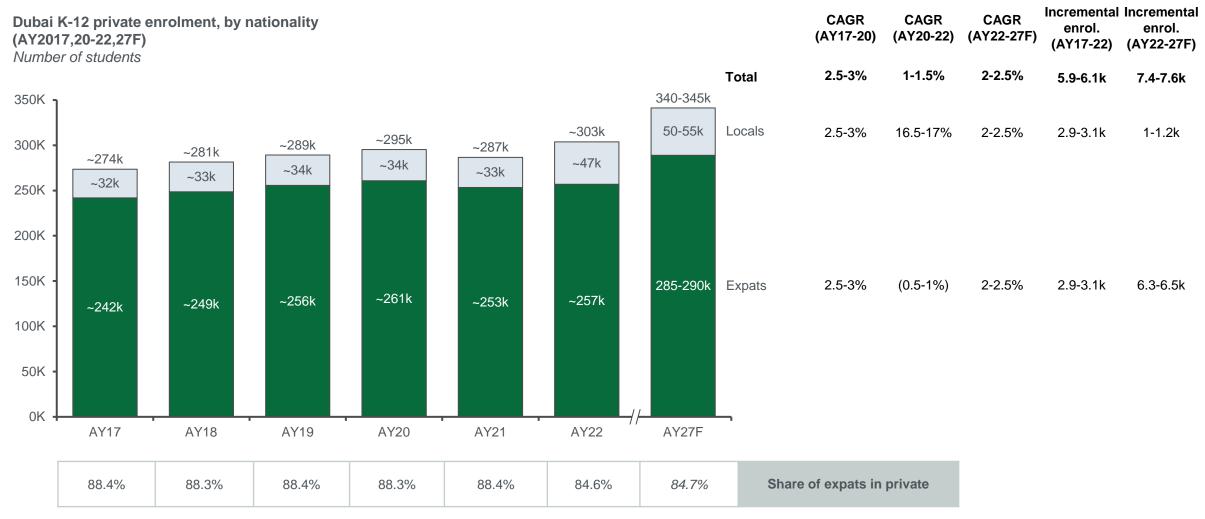
The overall Dubai private K-12 market is expected to grow at 2-2.5% CAGR in the AY22-27F period; Super-premium and Premium+ segments are expected to grow at ~4.5-5% CAGR during the period

(AY201	7,20-22,27F)	ent, by price	segment						CAGR (AY17-20)	CAGR (AY20-22)	CAGR (AY17-22)		al enrol.	Increment al enrol. (AY22-27F)
Number	of students						т	otal	2.5-3%	1-1.5%	2-2.5%	2-2.5%	5.9-6.1k	7.4-7.6k
^{350K}]								Super-Premium, and Premium+	4.5-5.5%	4.5-5%	4.5-5%	4.5-5%	3.3-3.5k	4.1-4.3k
300K -	~274k	~281k	~289k	~295k	~287k	~303k ~28k	35-40k	Super-premium (AED: >75k)	7-8%	6.5-7%	7-7.5%	6.5-7%	1.6-1.8k	2-2.2k
250K -	~20k	<mark>∼22k</mark> ∼44k	~24k ~46k	~25k ~47k	~26k ~47k	~51k	60-65k	Premium+ (AED: 55-75k)	3.5-4%	3.5-4%	3.5-4%	3.5-4%	1.6-1.8k	2-2.2k
200K -	~42k ~22k	~44K	~26k	~28k	~47k ~28k	~32k	45-50k	Premium- (AED: 35-55k)	7.5-8%	6.5-7%	7.5-8%	6.5-7%	1.9-2.1k	2.4-2.6k
150K -	~60k	~63k	~66k	~70k	~69k	~72k	85-90k	Mid-priced (AED: 18-35k)	5-5.5%	2-2.5%	3.5-4%	4-4.5%	2.4-2.7k	3.1-3.3k
100K -								· · · · · ·						
50K -	~129k	~128k	~127k	~125k	~117k	~120k	105-110k	Budget	(1-1.5%)	(2-2.5%)	(1.5-2%)	(2-2.5%)	(1.8-2k)	(2.3-2.5k)
ок 🗕							,, [(AED: <18k) Premium-, Mid-	1.5-2%	0-0.5%	1-1.5%	1-1.5%	2.5-2.7k	3.4-3.6k
	AY2017	AY2018	AY2019	AY2020	AY2021	AY2022	AY2027F	priced, Budget Market share g	ain/loss					
	-	0.6%	0.4%	0.2%	0.6%	0.3% -	• 0.4%	Super-premiu	ım					
	-	0.3%	0.2%	0.1%	0.2%	0.5% -	• 0.3%	Premium+						
	-	0.6%	0.4%	0.3%	0.3%	0.7% -	▶ 0.5%	Premium-						
	-	0.4%	0.5%	0.8%	0.4%	(0.1%) -	→ 0.4%	Mid-Priced						
	-	(1.9%)	(1.5%)	(1.5%)	(1.6%)	(1.4%) –	→ (1.6%)	Budget						

Note: Forecast based on historical share gain/loss

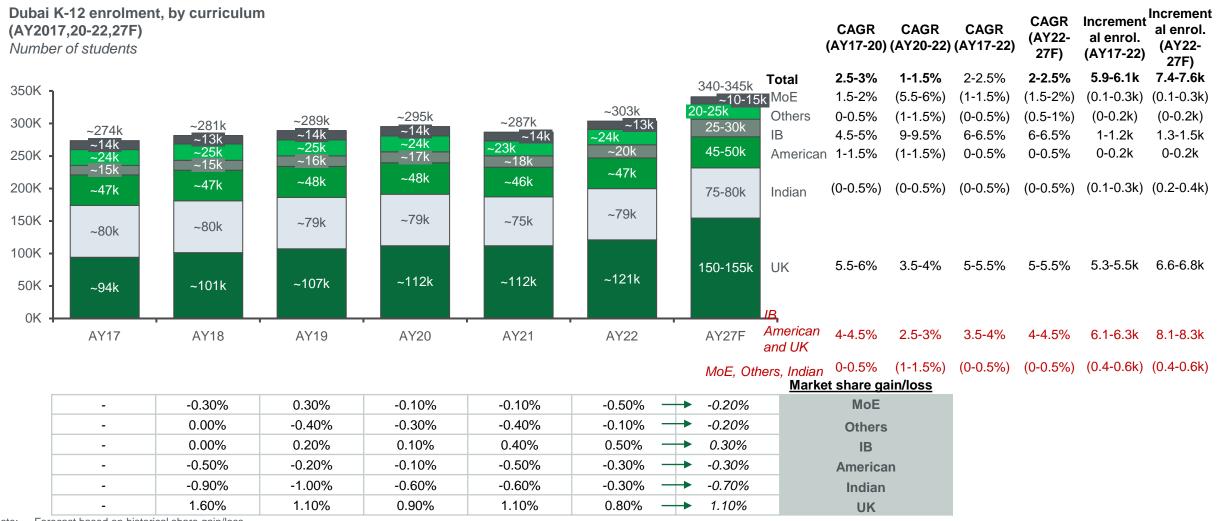


Local and Expat enrolments are expected to grow at 2-2.5% CAGR in Dubai during AY22-27F; Majority or the incremental enrollment is expected to be contributed by expats



Note: Forecast based on historical share gain/loss

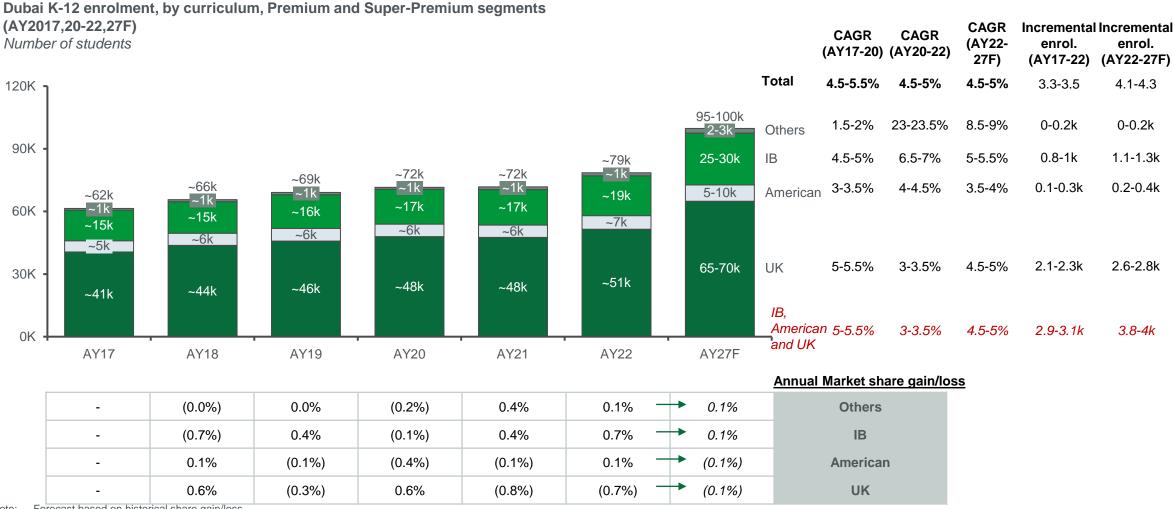
At an overall Dubai market level, IB and UK curricula are expected to grow faster than the market at 5-6% CAGR during AY22-27F while American curriculum is expected to remain flat



Note: Forecast based on historical share gain/loss



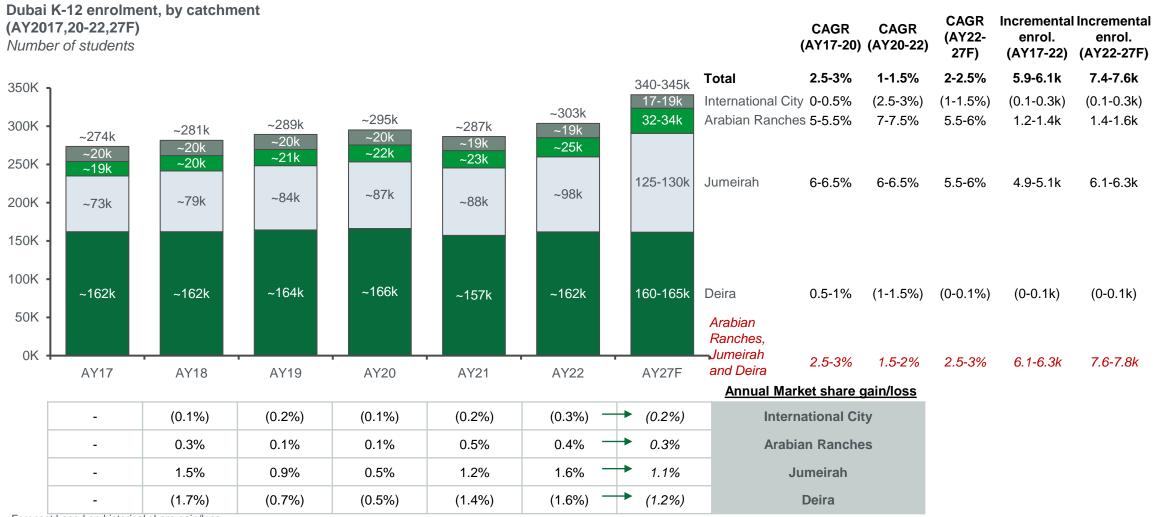
Within premium and super-premium segments, British, IB and American curricula are expected to grow at 3.5-5% CAGR in the period AY22-27F



Note: Forecast based on historical share gain/loss



Jumeirah and Arabian Ranches catchments are expected to grow faster than market at 5.5-6% CAGR based on strong historical performance and resilience to COVID-19 related shocks



Note: Forecast based on historical share gain/loss



The overall Abu Dhabi private K-12 market is expected to grow at 2-2.5% CAGR in the AY22-27F period; Premium segment is expected to outperform the market and grow at 5-5.5% CAGR during the period

(AY2017,20-22,27F) Number of students **Increment Increment** CAGR CAGR CAGR CAGR al enrol. al enrol. (AY17-20) (AY20-22) (AY17-22) (AY22-27F) 250K (AY17-22) (AY22-27F) Total 0-0.5% 2-2.5% 2.9-3.1k 2.5-3% 1.5-2% 205-210k Super-Premium6.5-7% 0-0.5% 3.5-4% 5.5-6% 0.3-0.5k 200K 15-20k 175-180k 180-185k 170-175k 170-175k 165-170k 165-170k 10-15k 25-30k 10-15k Premium 6-6.5% 1.5-2% 4-4.5% 5-5.5% 0.8-1k 10-15k 10-15k _10-15k_ 10-15k 20-25k 20-25k 20-25k 20-25k 150K 15-20k 15-20k 4.5-5% 0.5-1% 3-3.5% 4-4.5% 1.8-2k Mid-Priced 80-85k 60-65k 65-70k 55-60k 60-65k 55-60k 60-65k 100K 0-0.5% (0.5-1%) (0-0.5%) (0-0.5%) (0-0.2k) 50K 80-85k 80-85k 80-85k 80-85k 80-85k 75-80k 75-80k Budget 0K AY27F Super-premium, mid- 2-2.5% (0-0.5%)1-1.5% 2-2.5% 2-2.2k AY17 AY18 AY19 AY20 AY21 AY22 priced, budget Market share gain/loss 0.2-0.4% 0-0.2% 0.1-0.3% (0.1 - 0.3%)0.1-0.3% Super-premium 0.2-0.4% -0.7-0.9% 0.1-0.3% 0-0.2% 0.5-0.7% (0.1-0.3%)0.3-0.5% Premium+ -(0.3 - 0.5%)1.1-1.3% 1-1.2% 0.6-0.8% (0.2 - 0.4%)0.5-0.7% Mid-Priced -(1.1 - 1.3%)(1.5 - 1.7%)(1.3 - 1.5%)(1.4-1.6%) 0.6-0.8% Budget (0.6 - 0.8%)

Forecast based on historical share gain/loss Note:

Abu Dhabi K-12 enrolment, by price segment

Source: L.E.K. research and analysis



4.7-4.9k

0.7-0.9k

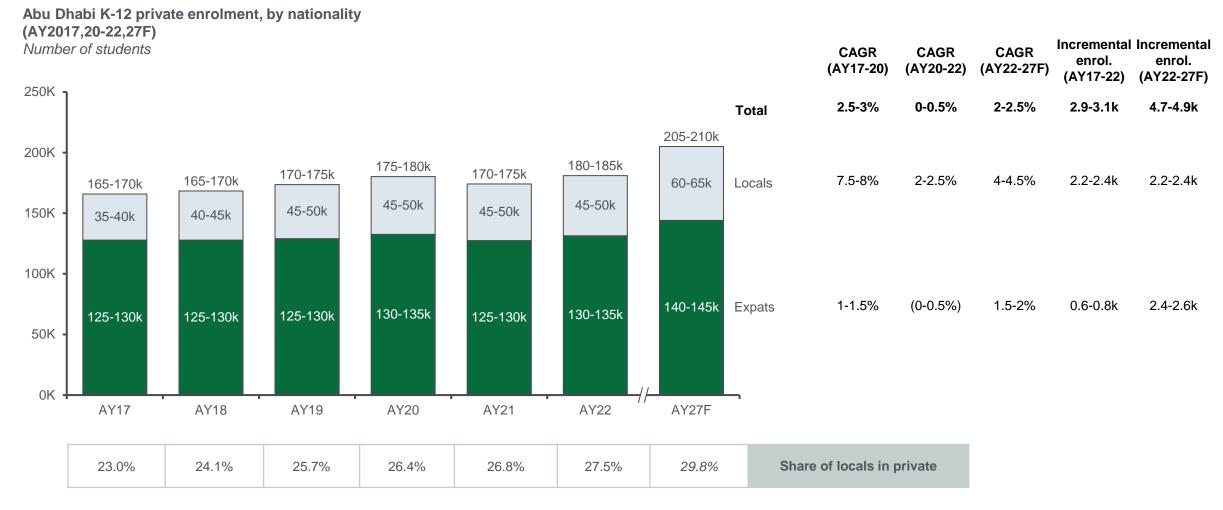
1.3-1.5k

3-3.2k

(0.3-0.5k)

3.3-3.5k

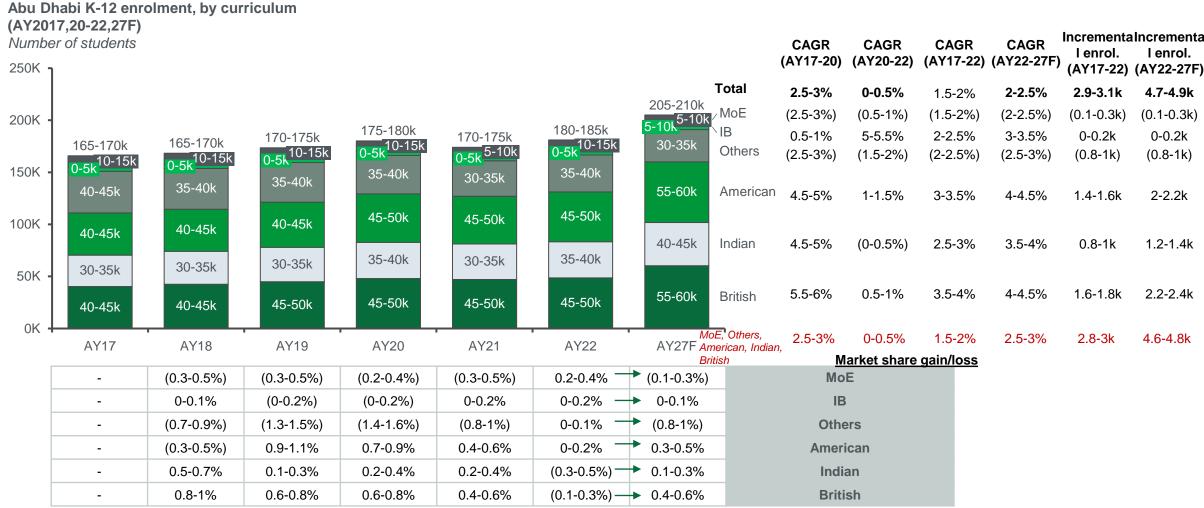
Local enrolment is expected to grow faster than the market at 4-5.5% CAGR while expat enrolment is expected to grow at 1.5-2% CAGR during the period AY22-27F



Note: Forecast based on historical share gain/loss Source: L.E.K. research and analysis

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At an overall Abu Dhabi market level, the IB curriculum is expected to grow faster than the market at 3-3.5% CAGR during AY22-27F

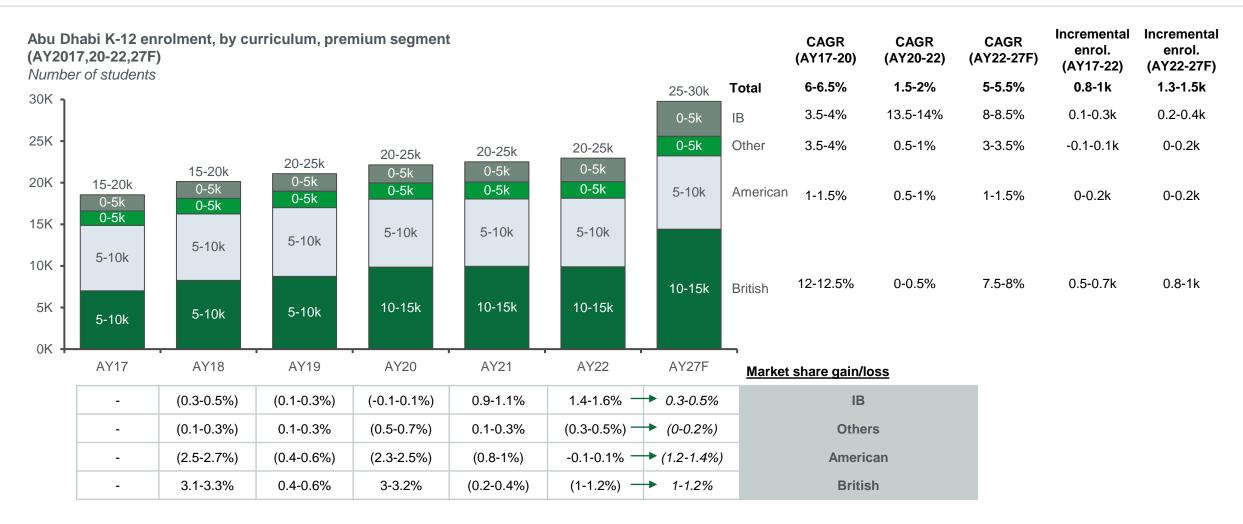


Note: Forecast based on historical share gain/loss

Source: L.E.K. research and analysis

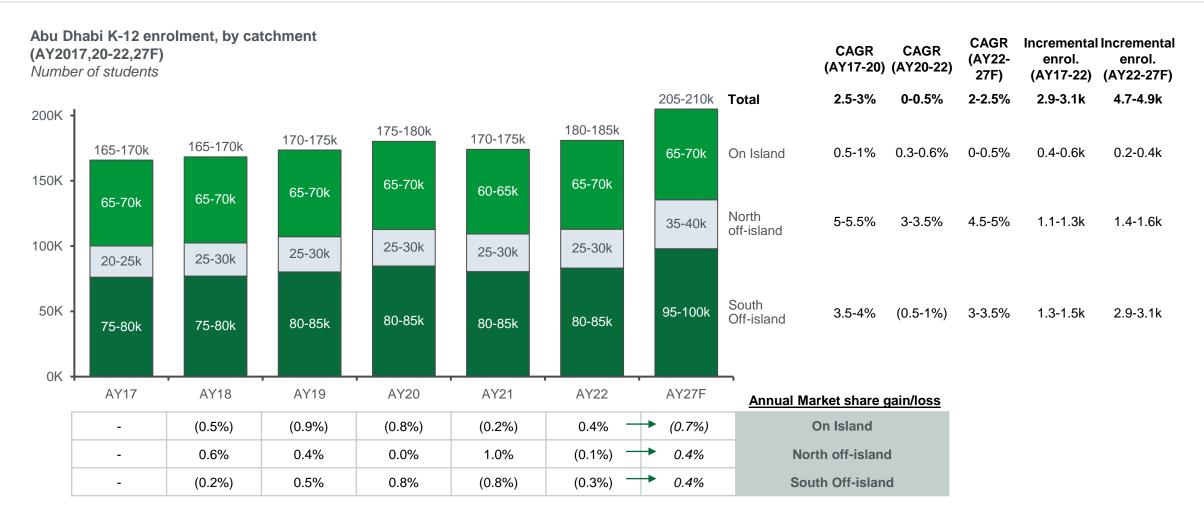


Within the premium segment, the IB curriculum segment is expected to grow faster than the market at 8-8.5% CAGR during AY22-27F





North off-island is expected to grow faster than market at 4.5-5% CAGR in the AY22-27 period





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