

# Australia's International Education Industry Analysis of Strategic Trends

February 2013



### Purpose of this document

The International Education Advisory Council (IEAC) was formed in 2011 to advise the Australian Government on the development of a five year national strategy to support the sustainability and quality of the international education sector

In late 2012, The Boston Consulting Group provided pro bono support to IEAC in the form of analysis of strategic trends affecting Australia's international education industry, including the potential impact of digital education

This document summarises BCG's analysis and conclusions

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# Summary: After a decade of success, Australian international education providers face challenges to remain competitive

International education in Australia has been extremely successful, delivering economic benefits in many ways, although enrolments and revenues have dropped since their 2009 peak

- Leading export industry, worth \$15b in 2011 (down from \$18b in 2009), plus revenue from transnational operations
- Internationalisation of experiences and curricula for staff and both domestic and foreign students
- Building business, community and government linkages with Asia and elsewhere

#### Some positive factors will favour Australia in the coming decade

- Growth in key countries of origin, China (up to 800k more students by 2020), and India as undergraduate courses are favoured (up to 340k more students by 2020)
- Attractive policy settings in Australia for post-university work

## However, the market dynamic has changed, meaning recent negative trends in commencements may reflect a fundamentally more challenging environment for Australian education providers

- Australia has become a relatively expensive education option (now costing ~20% more than US)
- Competing provider countries are becoming increasingly active with aggressive growth plans (supply growth expected to match or exceed demand growth)
- Growing online offerings will test brand strength and agility, threatening some segments with substitution, but also presenting
  an opportunity to greatly strengthen Australia's ties and influence in Asia

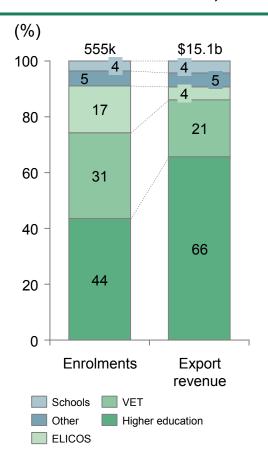
## To sustain international student populations and revenue mixes, Australian education providers need to play a different game, and play it well

- Addressing affordability, maintaining quality standards, and constantly assessing and reinforcing the broader value of Australian qualifications in the global marketplace
- Thoughtfully targeting new sources of demand, as competing supply grows
- Constantly innovating in the delivery of competitive educational outcomes
- Supportive national and state government policies are critical (e.g. work and migration rules)

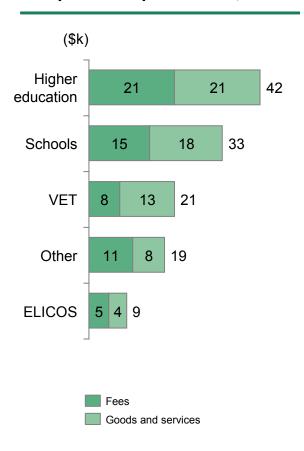
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# International students, especially those in higher education, benefit the Australian economy in many ways

#### **Enrolments and revenue, 2011**



#### Expenditure per student, 2011



#### Other benefits

## Support to wider higher education industry

- Cross-subsidisation of domestic students
- Contributes to overall financial sustainability and global standing of Australian universities

#### Support to other industries

- Tourism from visiting friends and relatives (>70% students expect visits from friends/family, worth >\$300m)
- Creates skilled base of migrant labour accustomed to Australian life

#### **Cross-cultural interaction**

- Cross-cultural exposure and exchange of ideas
- Building business, community and government linkages with Asia and elsewhere

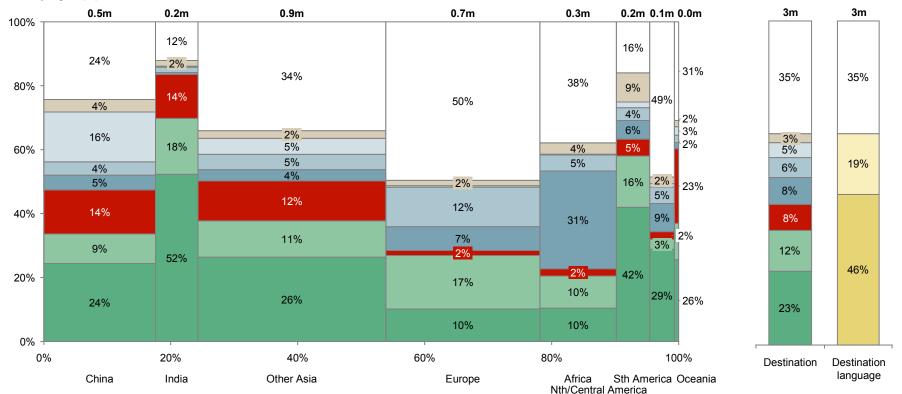
Note: Expenditure per student allocates all expenditure to the highest level of enrolment for those students enrolled in multiple sectors
Source: Australian Education International, monthly international student data release, August 2012, Australian Bureau of Statistics catalogue 5368.0 (Sep 2011); Glenn Withers "Reform now and we'll stay world class", Australian Financial Review 22 Oct 2012; Sustainable Tourism CRC, 2010

### Australia's int'l higher education market share was 8% in 2009

Ranked third behind US and UK, Australia has punched above its weight

#### International higher education students by country of origin and destination, 2009

Destination share per source country/region (%)



Source country/region share of total (%)

🔲 Other 🔲 Canada 🔲 Japan 🔲 Germany 🔲 France 📕 Australia 🔲 UK 🔃 US 问 Non-English speaking 🔲 English speaking

Note: Data set represents approximate total mobility of students in 2009 based on provider country reported data; Canada data unreported for 2009, so 2008 data used Source: UNESCO 2009

## A quarter of Australia's international students attend offshore campuses and generate an estimated ~14% of fee income

#### Australian universities' offshore campuses/centres



Number of Australian universities with offshore campuses/centres:

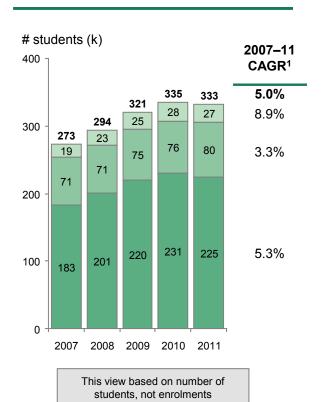




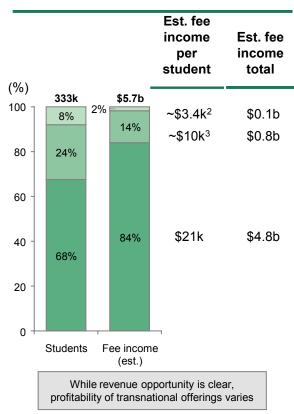
Students at offshore campuses

Students in Australia

#### Onshore and offshore international students, 2007-11



#### International student fee income. 2011



<sup>1.</sup> Compound Annual Growth Rate 2. Fee income per student estimate based on distance education economics published by University of Southern Queensland 3. Fee income per student estimate based on survey of basket of courses at various transnational campuses

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# Australia's strength in the international education market reflects a decade of highly favourable trends ...

#### Inherent strength in the Australian international education offering

- Large number of highly-ranked universities relative to population size
- Proximity to growing Asian student pools
- Desirability of English language for many international students

#### Structural incentives for Australian universities to actively seek full fee-paying international students

#### Australian education providers developing and delivering a compelling value proposition

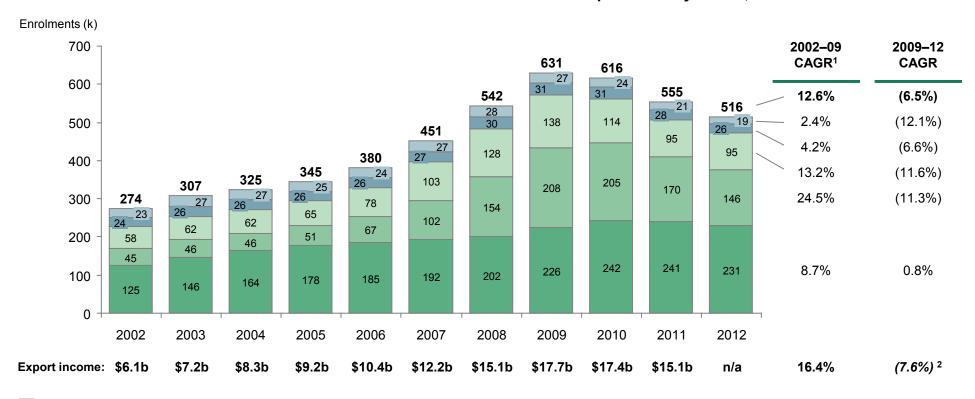
- Assertive, agent-based recruitment
- Successful back-office and support services for international students
- Innovations in language testing, educational pathways and internationalised courses
- Relatively low cost compared to other top destinations (US, UK)

#### Favourable external factors outside of Australia's control

 US reduced intake of foreign students post 2001, forcing large numbers of international students to look elsewhere

# ... However, total international student enrolments and export revenues have declined since 2009 peak

#### International student enrolments at Australian education providers by sector, 2002-12e



Schools
Other³
ELICOS
VET
Higher Education

# Enrolments down across all sectors, growth flattening in higher education

7

<sup>1.</sup> Compound Annual Growth Rate 2. 2009-11 CAGR shown 3. Non-award courses, enabling courses Source: Australian Education International, monthly international student data release, December 2012, Australian Bureau of Statistics catalogue 5368.0 (Sep 2011)

# Strategic context for international education in Australia looks less favourable over the next decade

#### Chinese-led global demand will remain strong, with undergraduates from India an emerging growth area

- OECD forecasting 7% growth in the pool of international students through 2020, adding ~3m new students
- Asian demand for high quality education will continue to outstrip domestic supply, with increasingly wealthy
  populations willing/able to fund overseas education
- However, competing providers are positioned to aggressively expand capacity

# Australia's competitiveness has dropped due to rising relative cost and tighter migration pathways and employer demand driven policy settings

- Exchange rate-driven cost increases have impacted Australia's global market share
- New student visa settings for universities support a competitive and high integrity international education sector

#### These influences are clearly reflected in Australian trends, with commencements declining since 2009

- Historically strong enrolments supported by cross-sectoral feeder pathways
- Declining competitiveness has affected commencements, but leading indicators suggest stabilisation; future increases in HE enrolments will depend on sustained growth in commencements

#### Additionally, online offerings will test the brand strength and agility of Australian providers

- Gaining reach and credibility
- Threatening to change industry dynamics with innovative models
- Also present an opportunity to greatly extend Australia's ties and influence in Asia

#### Historical trend: 2001-10

- Strong, Asian-led demand for higher education
- Limited domestic supply in source countries
- Proportionally fewer places offered to foreign students by competitors

#### Emerging trend: 2011–20

- Ongoing strong demand for higher education
- Some advancement in domestic supply in source countries
- Potential for significantly more capacity at competing providers

- Competitiveness of traditional Australian offering
- Varying policies on career prospects and migration
- Quality education and broader experience (with specific issue in India)
- Comparable costs

- Boosting career prospects and streamlining applications
- Recovering from hits to previously strong reputation
- X Exchange rate-driven high costs

#### Threat of disruption by online offering

- ✓ Low recognition of online qualifications
- Technology barriers to online education

- Growing credibility of online learning
- High-profile providers entering online space

# ... Impacts **Australia**

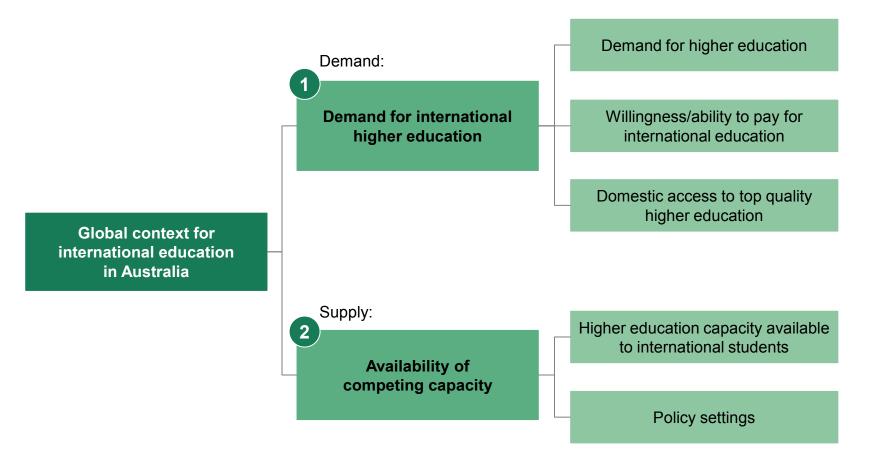
Australian trends

- Strong feeder pathways to higher education
- Strong international student populations, growth and revenues
- Negative momentum in feeder pathways
- Recovering from falling commencements

✓ ? ★ Favourable, unclear, or unfavourable implications for Australian international education providers

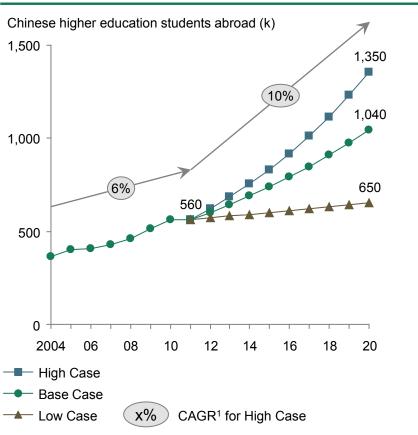
# Global context is the demand versus supply balance for international higher education enrolments

#### Drivers of supply and demand for international education

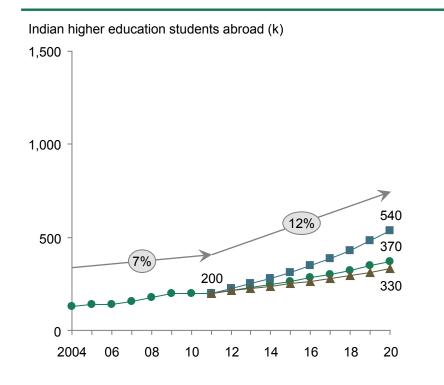


# Growing middle-class in China and India will continue to drive demand for international education through 2020 ...

## Additional 500-800k Chinese international higher education students by 2020



## Additional 170–340k Indian international higher education students by 2020

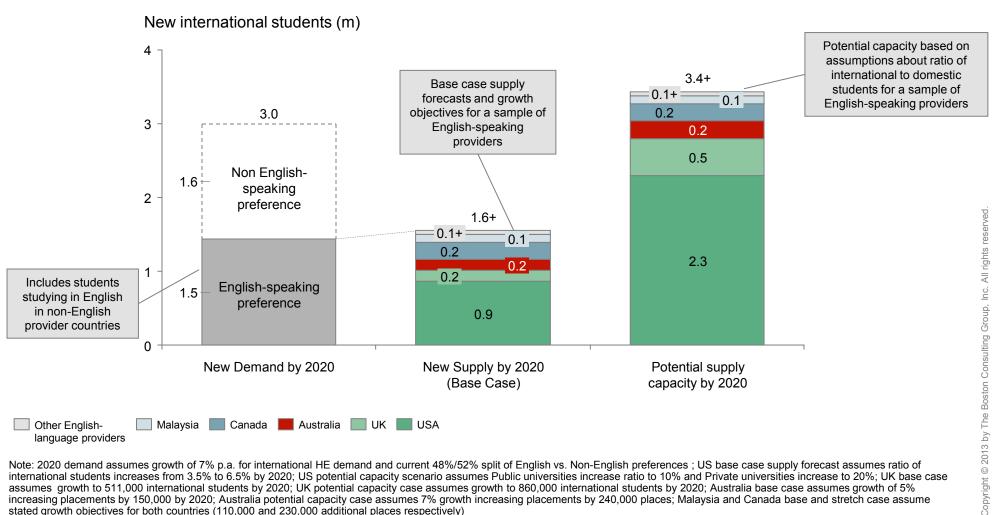


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<sup>1.</sup> Compound Annual Growth Rate Note: Base Case assumes OECD 7.1% CAGR projected forward to 2020; High Case assumes 4% and 1.5% (for China and India respectively) of 18–22 year-olds from top 3 income brackets studying abroad in 2020, based on 2010 figures; Low Case assumes overall HE domestic demand CAGR of 1.7% and 5.7% (for China and India respectively) applies equally to international HE demand

## ... However, supply of English-language international higher education places to meet or exceed demand by 2020

Demand in 2020 for HE in English-speaking countries compared to supply



Note: 2020 demand assumes growth of 7% p.a. for international HE demand and current 48%/52% split of English vs. Non-English preferences; US base case supply forecast assumes ratio of international students increases from 3.5% to 6.5% by 2020; US potential capacity scenario assumes Public universities increase ratio to 10% and Private universities increase to 20%: UK base case assumes growth to 511,000 international students by 2020; UK potential capacity case assumes growth to 860,000 international students by 2020; Australia base case assumes growth of 5% increasing placements by 150,000 by 2020; Australia potential capacity case assumes 7% growth increasing placements by 240,000 places; Malaysia and Canada base and stretch case assume stated growth objectives for both countries (110,000 and 230,000 additional places respectively)

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# Cost, career and migration are the most important drivers of international student choice

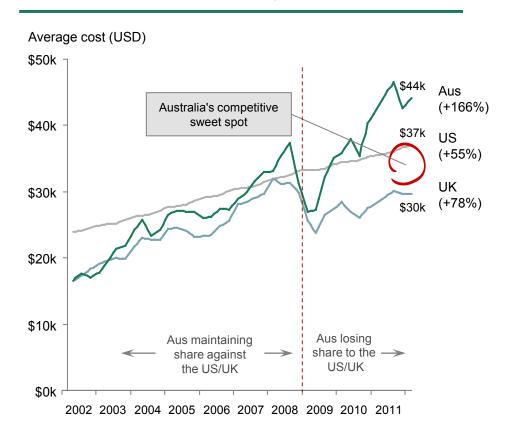
			Drivers	Importance	Ability to influence
Opportunities	The opportunities open as a result of course completion	Career prospects	<ul> <li>Reputation of the qualification/institution</li> <li>Reputation of country's education system</li> <li>Strength of alumni network</li> <li>Work experience opportunities</li> </ul>		2
		Migration prospects	<ul><li>Eligibility criteria, migration pathways</li><li>Efficiency and integrity of process</li><li>Strength of local job market</li></ul>		
Experience	The overall experience during the course of study	Education experience	<ul><li>Staff/student ratios</li><li>Quality of teaching and facilities</li><li>Screening rigor for admission</li></ul>		
		Broader experience	<ul><li>Personal safety</li><li>Culture and environment</li><li>Access to health and other services</li></ul>		
Accessibility	The extent of financial and other barriers	Financial costs	<ul><li>Tuition fees and living costs</li><li>Exchange rate</li><li>Income from part-time work during study</li></ul>		
		Visa process	<ul><li>Eligibility criteria and time required</li><li>Efficiency, integrity of application process</li><li>Visibility/popularity of education pathways</li></ul>		

<sup>1.</sup> The importance of migration prospects can vary significantly between countries 2. Reputation of institutions is difficult to improve in the short term, but recent visa policy changes will facilitate the obtaining of substantial work experience in Australia after graduating from a Bachelor's degree or higher Source: BCG analysis

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# As cost competitiveness declines, Australia must work harder on other drivers of student choice

# Cost for int'l higher education students (fees plus living costs)



#### Implications for competitiveness

## All else being equal, history suggests Australia is competitive on price when

- 10–20% premium against the UK
- 0–5% discount against the US

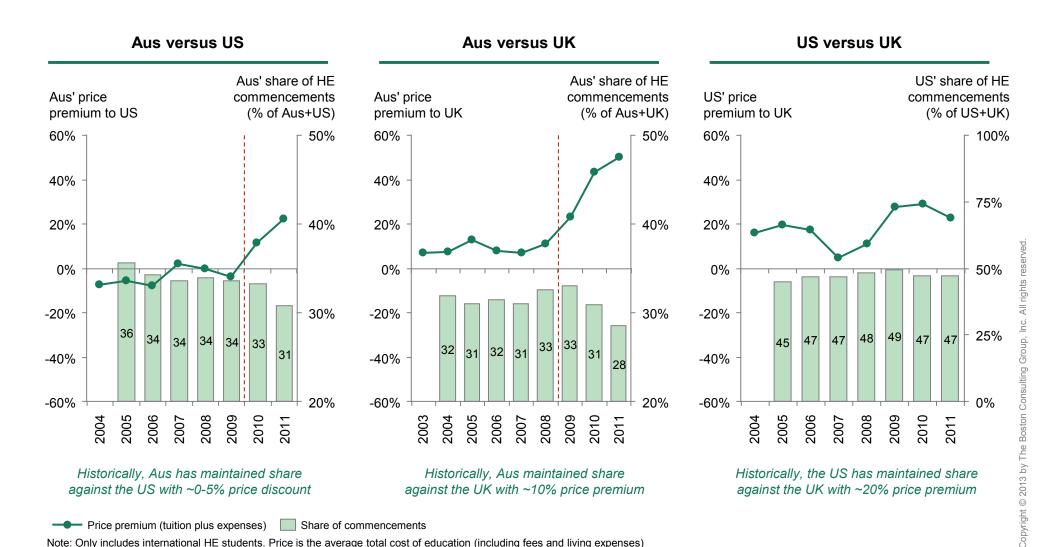
# This means Australia's average cost of education would need to be ~15–25% lower than currently

- = Tuition fees: ~25–45% reduction; OR
- = Living expenses: ~33–55% reduction; OR
- = Exchange rate: ~0.75–0.85 USD per AUD

Achieving this level of cost reduction is unrealistic

Therefore, significant improvements are needed on other drivers of student choice to stay competitive

### Deep dive: the impact of price on international student choice



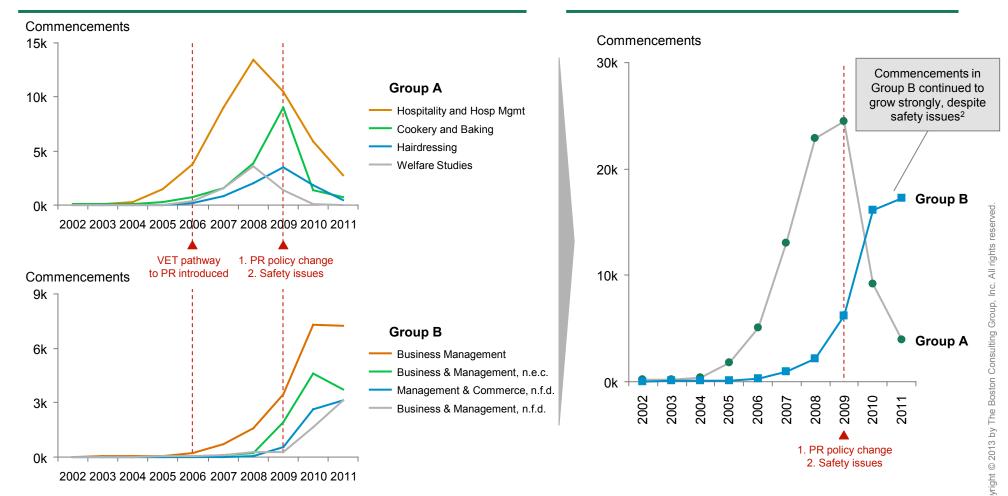
Price premium (tuition plus expenses) Share of commencements

Note: Only includes international HE students. Price is the average total cost of education (including fees and living expenses) Source: AEI, IIE, HESA, ABS, BLS, ONS, RBA, CollegeBoard, studyinaustralia gov.au, EducationUK, uk.internationalstudent.com, Charles Sturt University

# Of the other drivers, migration prospects had a much stronger impact than safety issues for India VET

#### Two major<sup>1</sup> groups of VET commencements from India ...

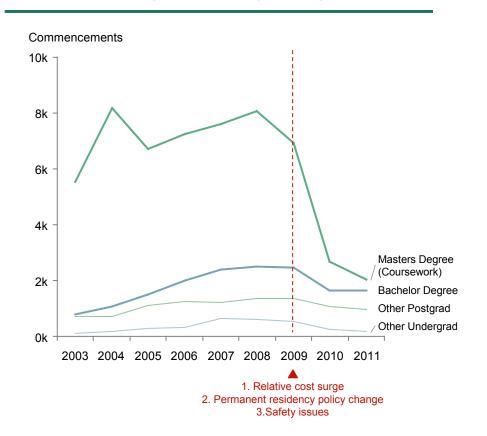
#### ... followed very different trajectories after 2009



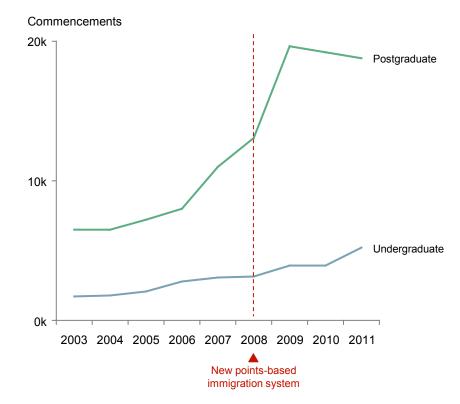
<sup>1.</sup> Group A + Group B accounted for ~75% of India's VET commencements from 2005-2011 2. Business & management courses are linked to Accounting, which is on the Skilled Occupations List. Note: Some commencements in Group B are attributable to existing students switching over from their current courses. Source: AEI

# Deep dive: migration policy settings are especially important to Indian postgraduate students

# Indian postgraduate commencements in Aust. dropped sharply after policy change in 2009...



# ...while surging in UK after immigration system changed to favour postgraduate study



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# Online education will test the brand strength and agility of **Australian providers**

#### Online education offerings are gaining reach and credibility

- Expanding presence across the education value chain
- Increasingly viable alternative to international education
- Most threatens management, commerce and IT courses for older students (~43% of enrolments<sup>1</sup>), protected to the extent that students seek access to Australian lifestyle and job market

#### Online innovations threaten to disrupt market for on campus providers, but also open up opportunity to expand into new markets

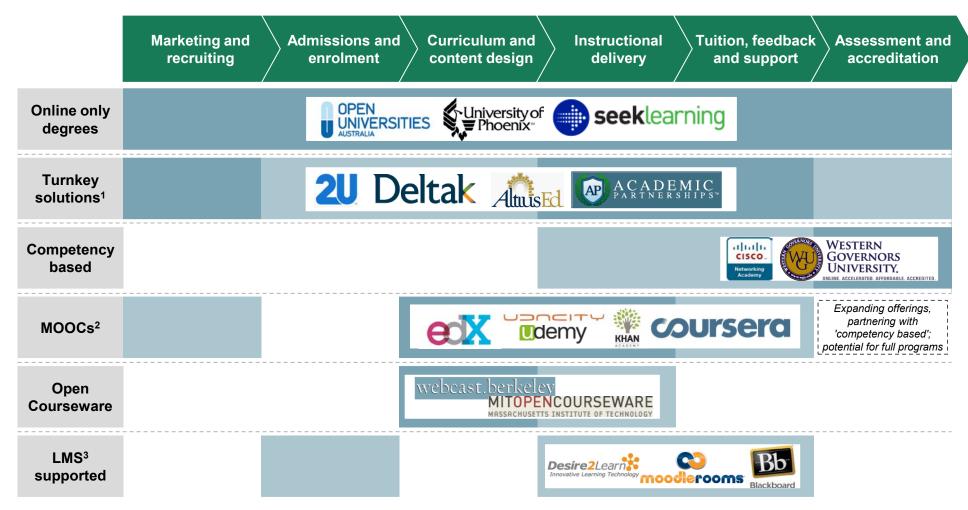
- Expansion of market to those previously unable to afford or access international higher education
- Global market dominated by top brands
- Decoupling of content delivery from accrediting institution

#### Digital education will produce winners and losers

- Winners will be those with best brands and agile business models that balance scale, selectivity and price
- Winners will include providers of large-scale technology platforms that deliver the best, branded content
- Losers will be those institutions that lack the brand status to compete in a global pool of suppliers, or who fail to reinvent their business models
- Supportive policy environment needed to assist Australian providers to adapt to and win in changing market

If delivered successfully by Australian providers, online education presents an opportunity to greatly extend Australia's ties and influence in Asia

## Online education providers play in all parts of the postsecondary education value chain



Depth of involvement (high/low)

<sup>1.</sup> Providers specialise in conversion of offline curriculum to online offering, aka 'School as Service' 2. Massive Open Online Course 3. Learning Management System (i.e. platform support). Note: Sampling of providers, not exhaustive list. Source: BCG analysis

# Online alternatives are increasingly viable for int'l students

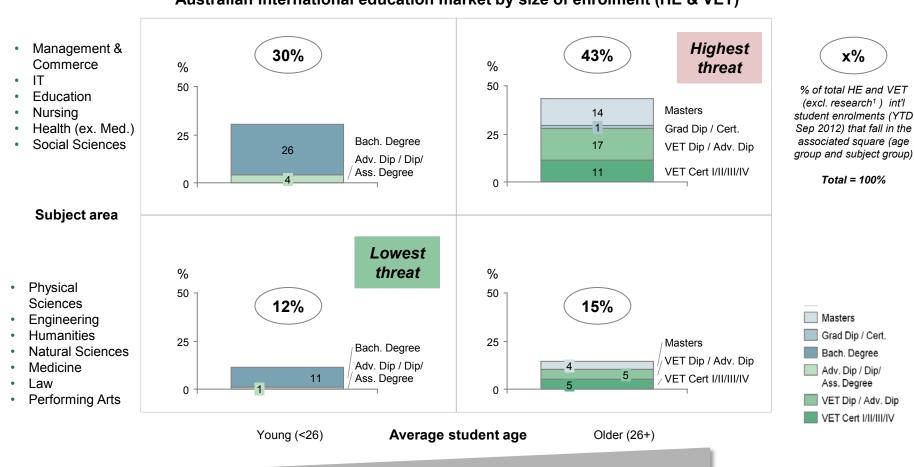
Improving in traditional areas of weakness, but lack of access to foreign job markets still a barrier

#### International students' choice of education provider Strengths **Improving** Importance<sup>1</sup> **Transnational** International **Online** Traditional weaknesses being overcome High quality providers High quality providers starting to participate Career Recognition of qualifications by employers Growing credibility of online qualifications prospects **Opportunities** Access to foreign job market during study Migration Access to foreign job prospects market post study Increasing Physical labs and practicum Hybrid models Education virtualisation of labs combine face to face experience Face to face instruction with online learning Increasing use of (partner with local **Experience** virtual classrooms provider or deliver and study groups On campus social interaction **Broader** part of course on experience English-language campus in Aust.) immersion Lower costs of living Lower costs of living Costs Potentially low tuition fees **Accessibility** Anytime, anywhere study Visa No need for visa No need for visa process

<sup>1.</sup> See slide titled "Cost, career and migration are the most important drivers of international student choice" Source: BCG analysis

# Significant parts of Australia international education market appear vulnerable to substitution by online offerings ...

#### Australian international education market by size of enrolment (HE & VET)



#### Tendency to study online

<sup>1.</sup> Excludes PhD and Masters by Research students (6% of total enrolments)

Note: Does not take account of other benefits of being onshore in Australia (e.g. access to Australian lifestyle and job market)

Source: AEI data on international student enrolment in Australian courses onshore, YTD September 2012; BCG analysis

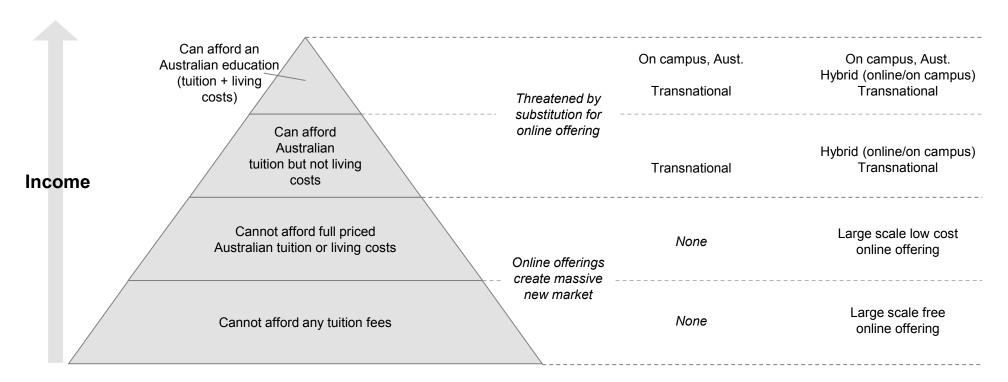
# ... But online education also opens up new student market opportunities

# Potential students in source countries (e.g. China, India)

#### Australian international student market

**Existing** 

Potential



# Digital education will bring challenges as well as opportunities for Australian providers

#### **Potential changes**



#### Global market dominated by top brands

- Elite brands unrestrained by geography
- Wider reach of elite degrees increases their relevance
- Innovative teaching models leveraging "star" professors



## Decoupling of content delivery from accrediting institution

- Greater scale enables large investments in high-quality/niche content
- Students able to access best content from multiple providers
- Growing demand for competency-based certification

#### Implications for Australia

## Top Australian universities less protected by geography

- High relative ranking within Australia less meaningful when facing competition from best in world
- Implications for both domestic and international students

## Greater need for best-in-class content, whether licensed or generated in-house

 Content licensees need to differentiate on valueadding services (e.g., dedicated teaching roles, tutoring, student support, etc.)



## International higher education more accessible in developing economies

- Affordable and flexible low end online offerings, driven by scalability and low marginal cost
- Large, previously untapped market

#### Australia well-positioned to capture share in Asia

- Similar time zones enable synchronous learning
- Strong regional presence enables a range of hybrid models to combine face to face with online learning
- Opportunity to materially contribute to development of Asian economies and strengthen regional ties, a "virtual Colombo Plan"

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### Higher education commencements are down from 2009

However, leading indicators suggest stabilisation followed by the possibility of growth

# Declines in higher education commencements post 2009 correlate with reduced Australian competitiveness

- Negative trend applies across most top countries of origin
- Reversal of earlier growth correlates with higher cost of Australian education and tighter migration pathways

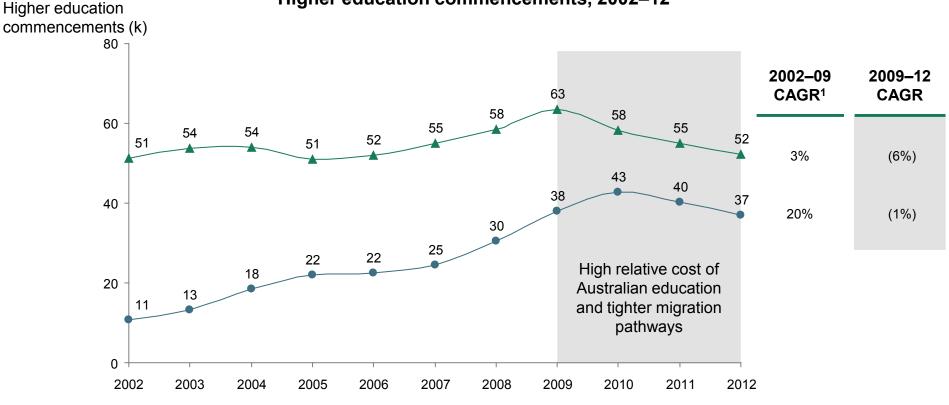
Commencements in other sectors provide a short-term forward view of higher education, given the strength of cross-sector pathways. While commencements have fallen across sectors since 2009, there are emerging positive signs in ELICOS

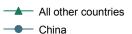
- Commencements dropped sharply since 2009 across feeder pathway sectors
- However, latest data (Jul-Dec 2012) is indicating an increase in ELICOS commencements

Based on the leading indicators, higher education enrolments are expected to stabilise around the 2009 level, with the possibility of future growth

## Declines in higher education commencements post 2009 correlate with reduced Australian competitiveness





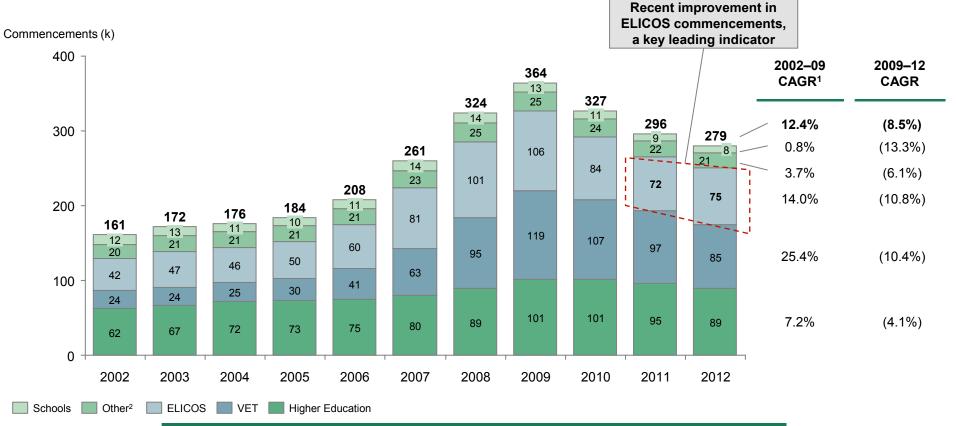


<sup>1.</sup>Compound Annual Growth Rate

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# To assess whether the emerging trend is likely to continue, need to understand cross-sector pathways

International student commencements at Australian education providers by sector, 2002–12



Based on cross-sector commencements, Higher Education enrolments are expected to stabilise around 2009 levels

<sup>1.</sup> Compound Annual Growth Rate 2. Non-award courses, enabling courses Source: Australian Education International, monthly international student data release, December 2012, Australian Bureau of Statistics catalogue 5368.0 (Sep 2011)

# Given changing strategic context, the international education sector in Australia is being challenged

Recent drops in commencements and sector revenue are significant and returning to sustained growth will require action:

#### Addressing competitiveness, now that Australia is a high cost option

- Rankings, teaching standards, and resourcing will be important
- Affordability of both fees and living costs need to be addressed
- The broader value proposition, including the value of Australian qualifications in a global marketplace, needs to be constantly assessed, and reinforced

#### Thoughtful targeting of future sources of demand in the face of increasing supply

- Focus on high growth markets (e.g. undergraduate demand from India)
- and the implications of maturing markets like China

#### Constant innovation in the delivery of competitive educational outcomes

and constant innovation in the mix of Australian and transnational campus, and online, models

#### Supportive government policies at both national and state level

but the individual performance of public and private institutions will ultimately drive the outcome



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# Thank you