



INTERNATIONAL  
EDUCATION  
SERVICES

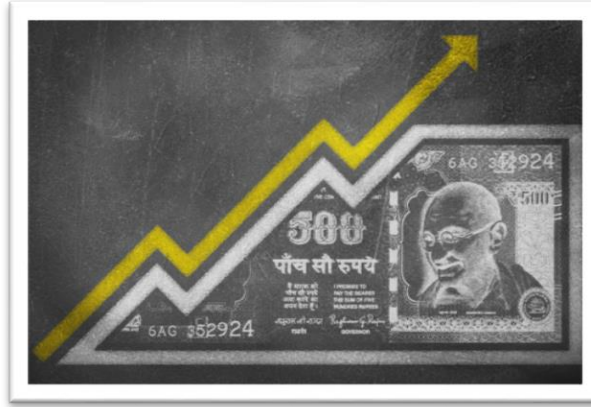
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## India market overview

Exploring potential for recruitment, partnership and research

<https://education-services.britishcouncil.org>

# Has India's time arrived?

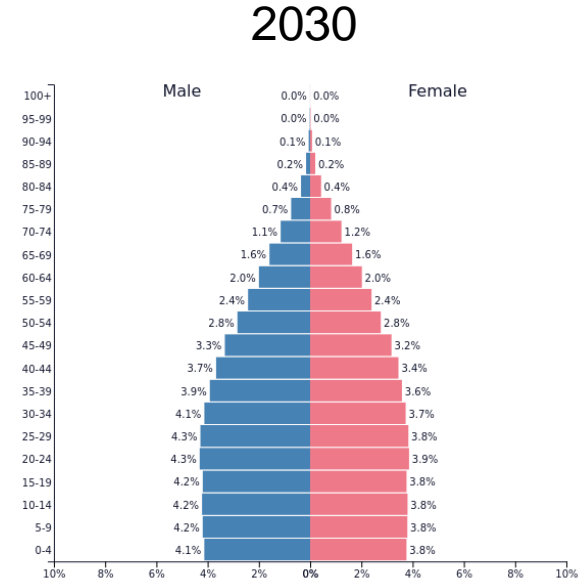
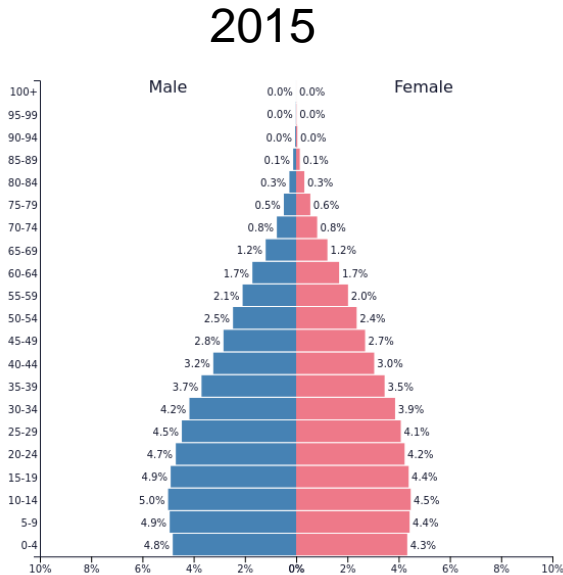


- Big market, big potential
- Favourable demographics
- Growing demand for HE

- Economic growth
- A growing middle class (shades of China)
- But watch the Rupee

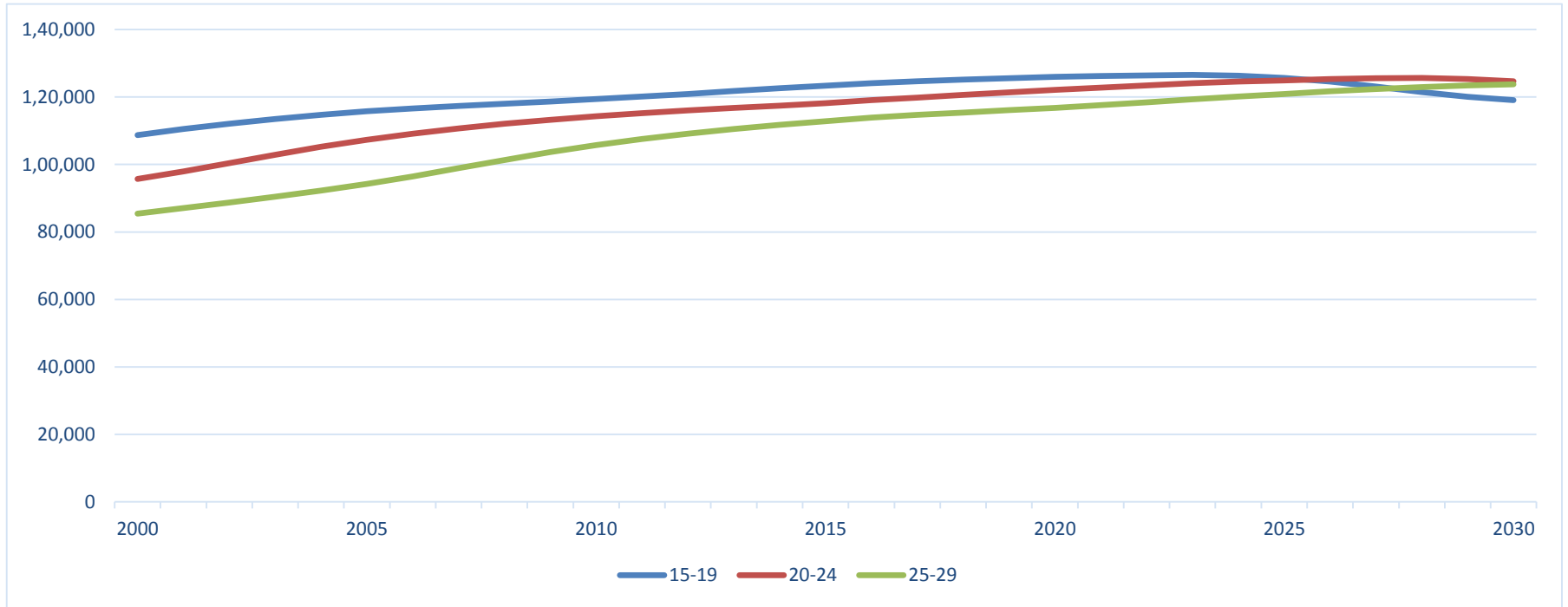
- TNE policies
- Research opportunities
- Partnership history

# A youthful population, for now !

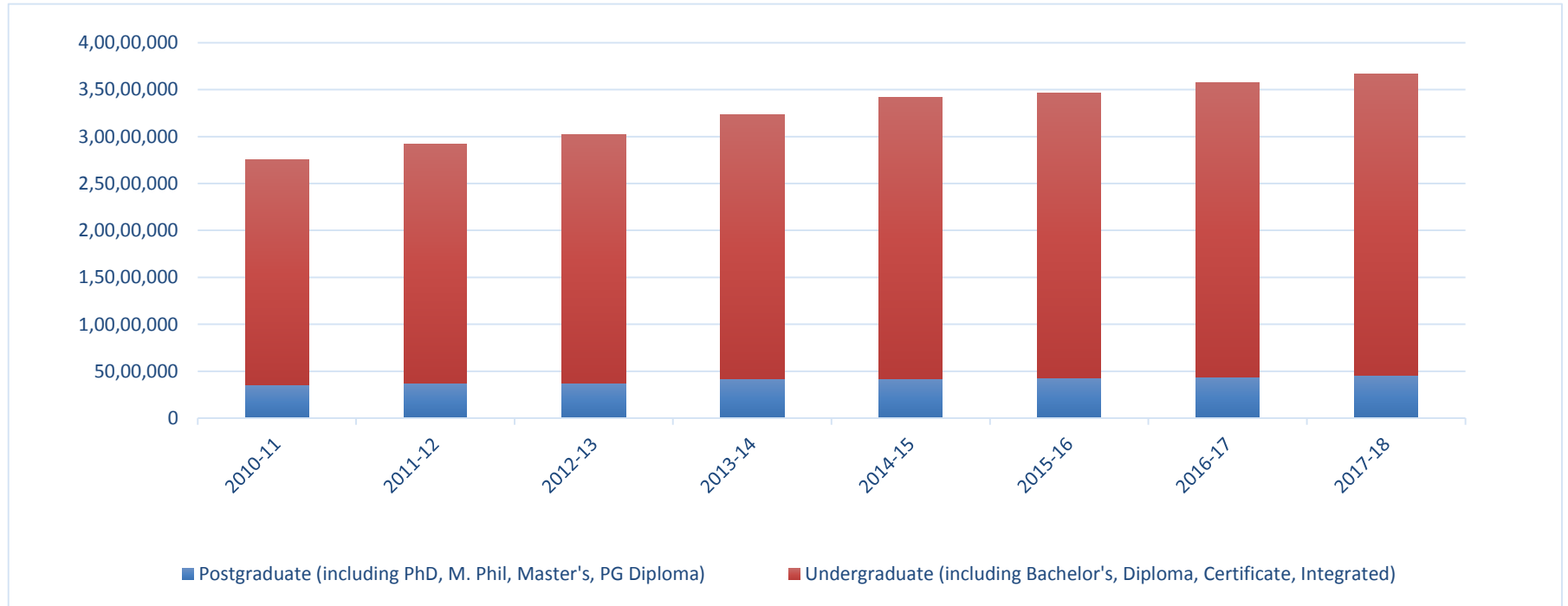


Source: PopulationPyramid.net

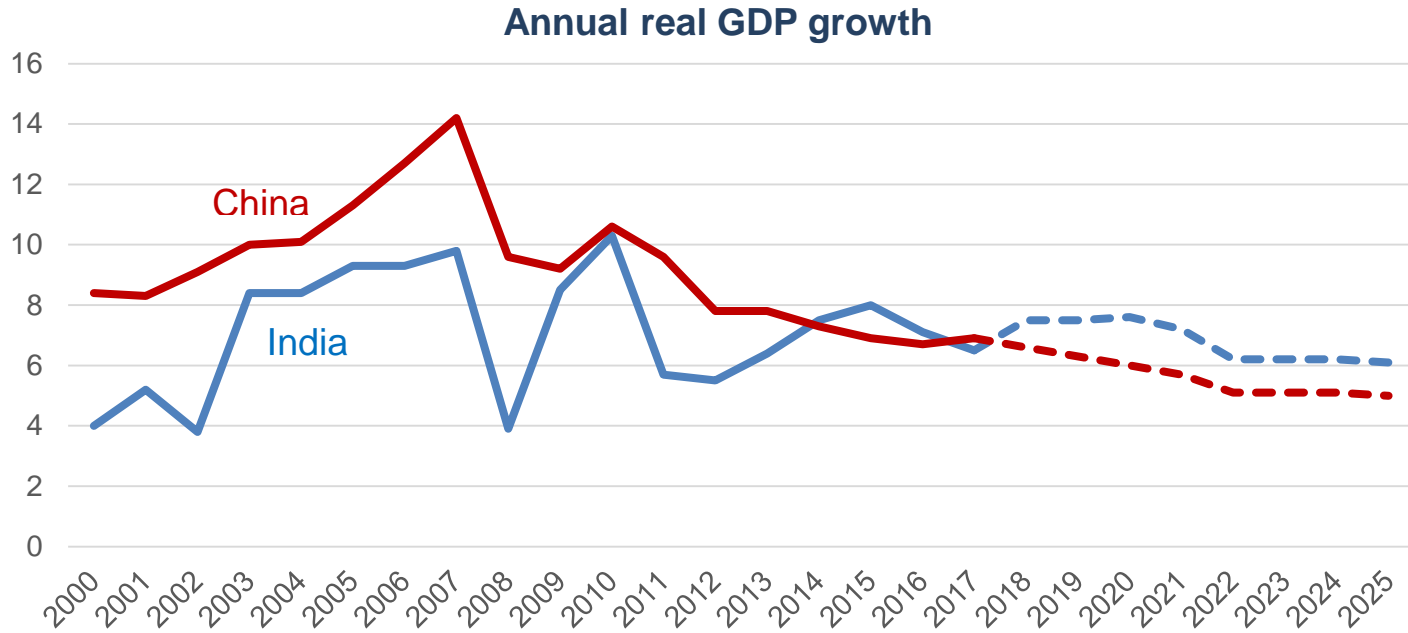
# Large student age population to peak within 5 years



# Postgraduate sector +34% since 2011



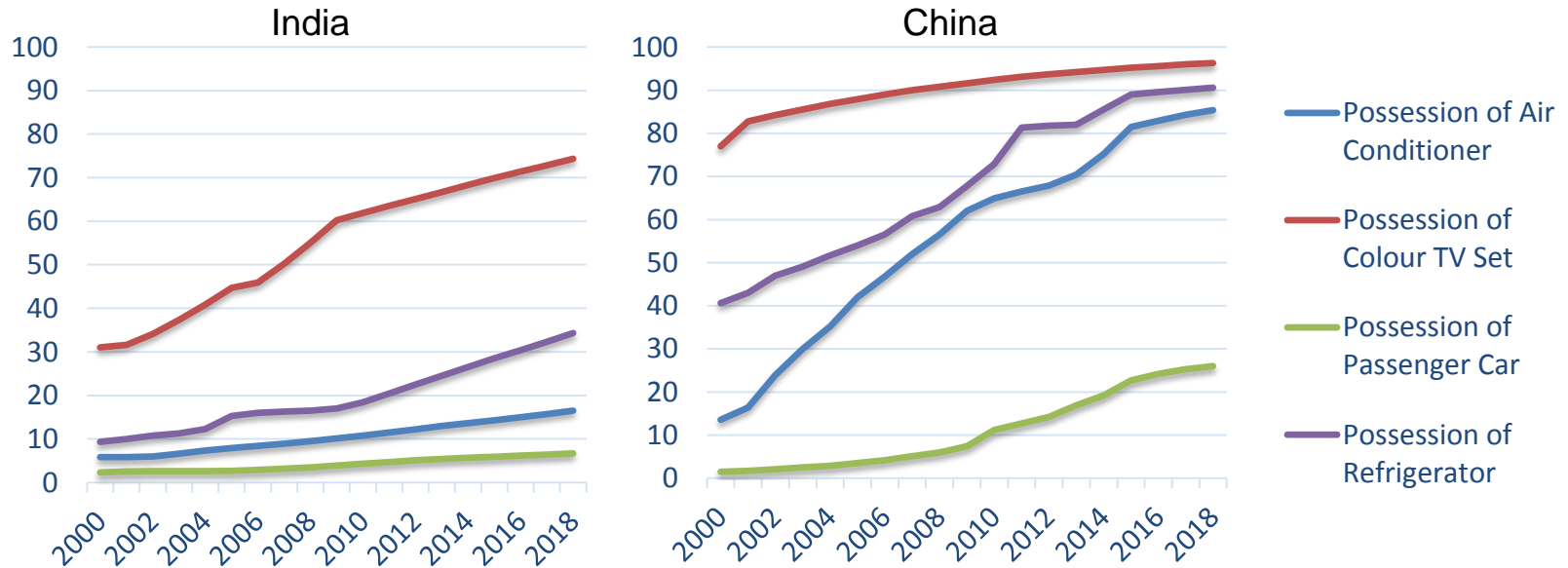
# India growth to outpace China?



Source: Euromonitor

# Back to the Future: Is India the new China?

## Possession of consumer durable goods (% of households)



Source: Euromonitor

# Exchange rate: Indian Rupee v GB£



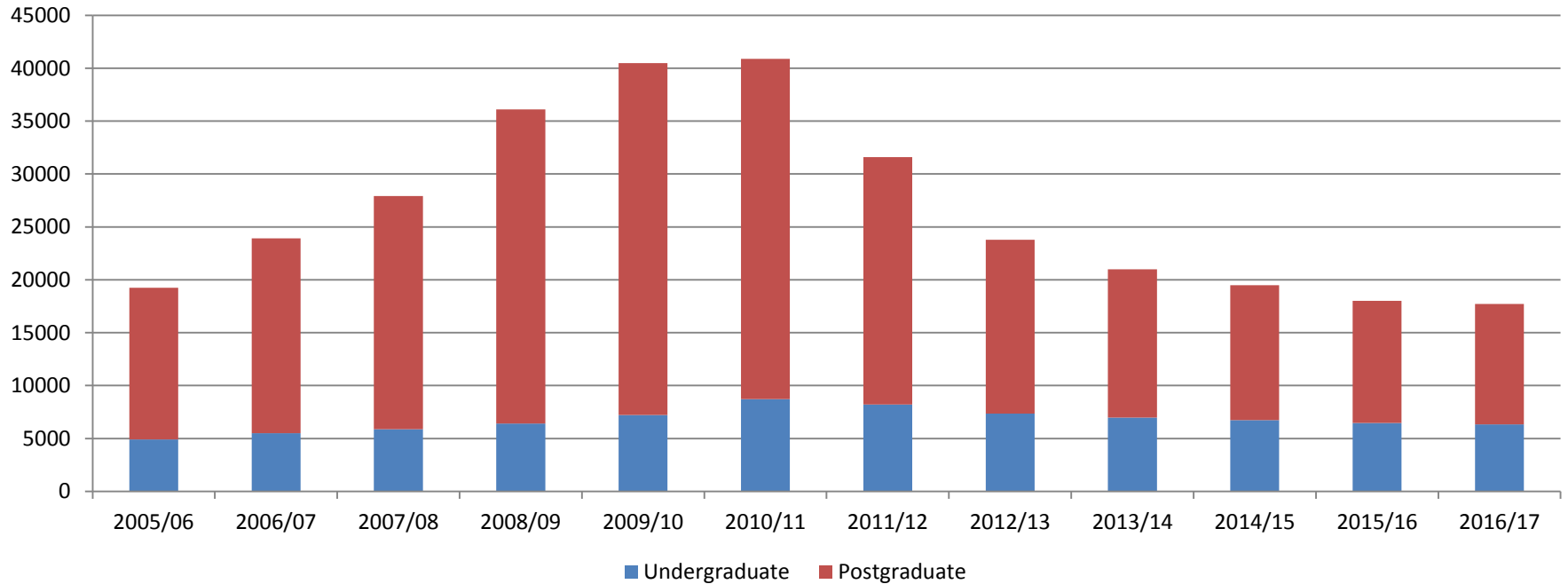
Source: XE currency charts

- The Rupee has weakened towards pre Brexit level.
- A weaker Rupee makes study abroad more expensive.

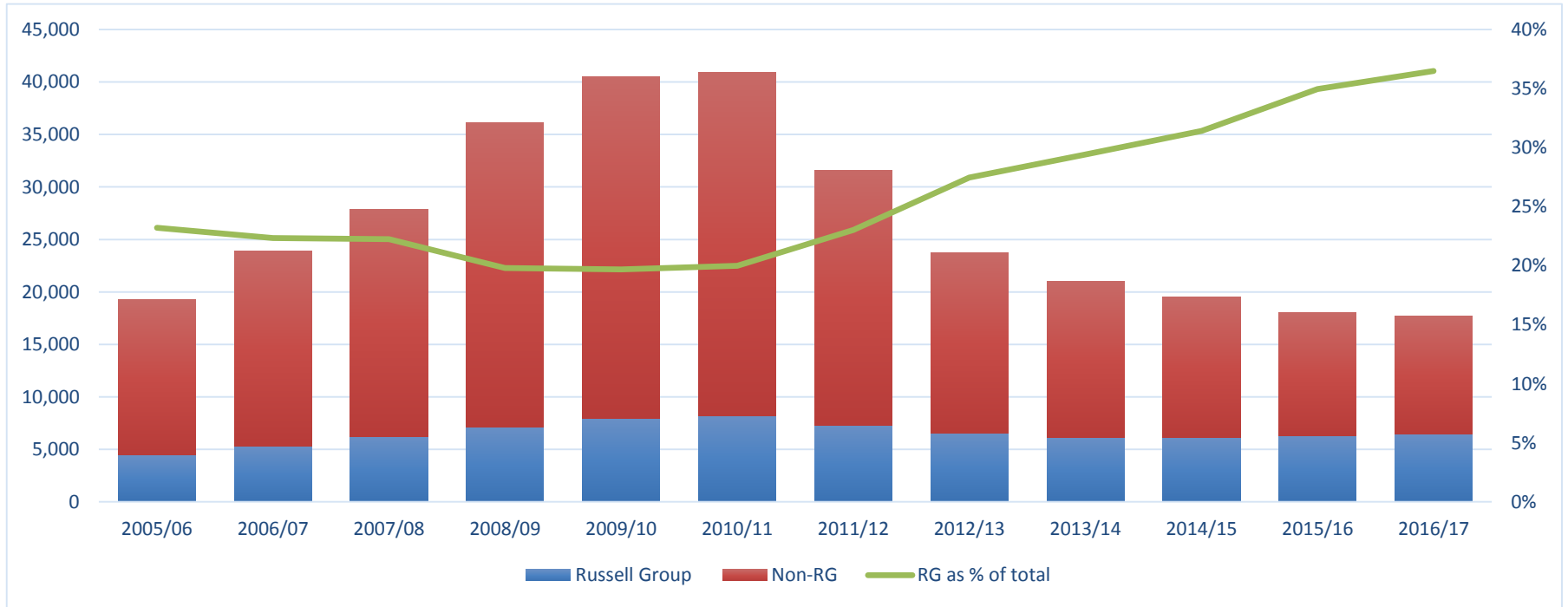


# Recruitment

## India postgraduate study in UK has taken the hit

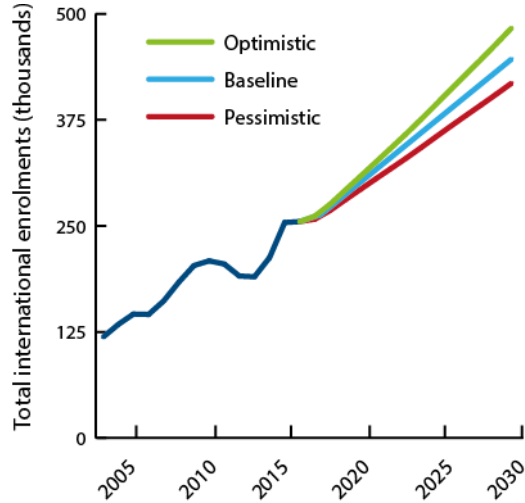


## Non Russell Group has also taken the hit



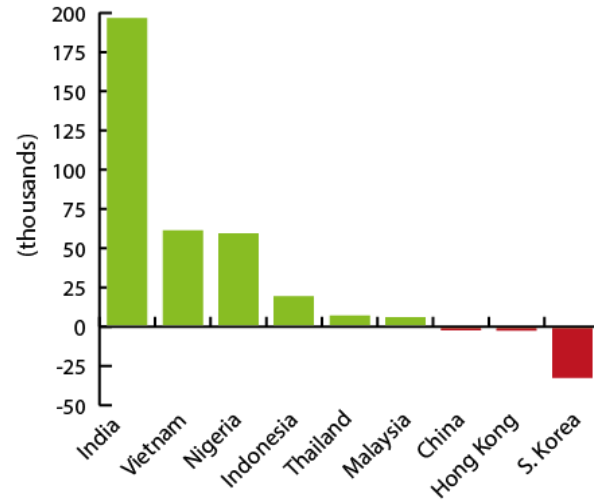
# India: a vast growth potential

## Forecast for India's total HE students abroad



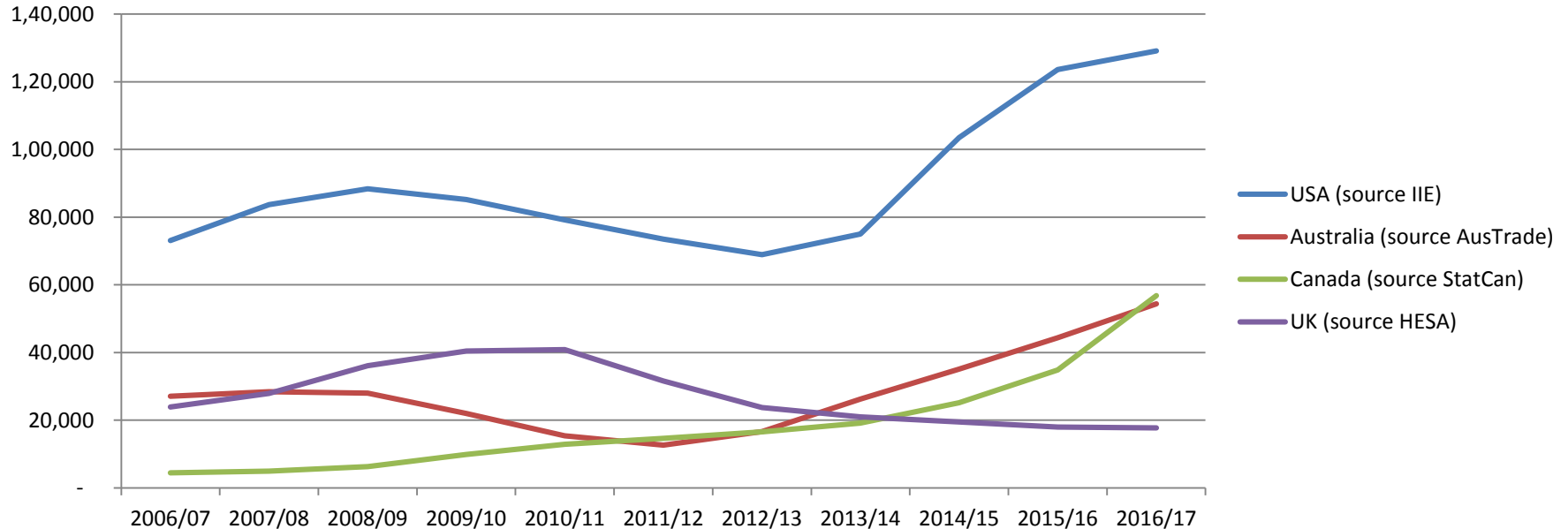
Source: British Council

## 2030 outbound mobility according to baseline forecasts



Source: British Council

# UK has fallen behind the main competitors

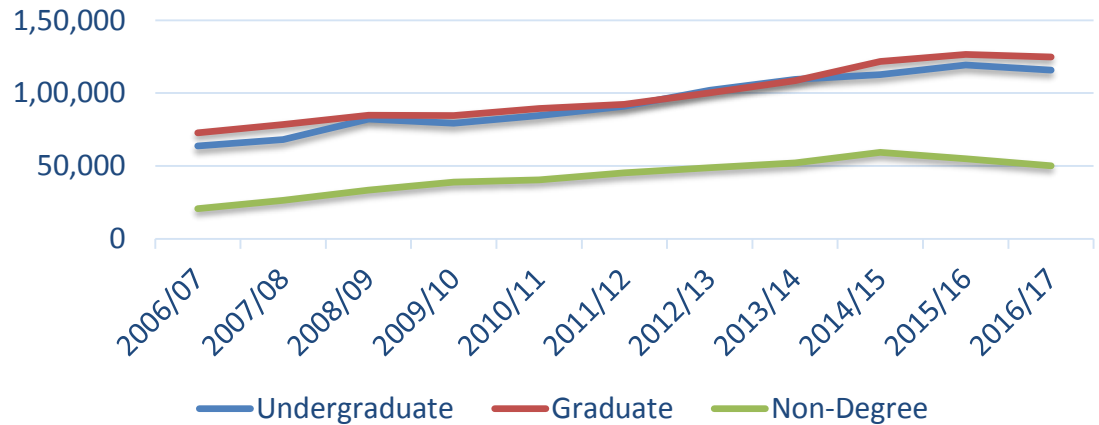


Note: non-UK sources use different methodology for measuring Int. students, which may overstate their enrolment relative to UK. However, trends are informative.

# Recruitment: Trump effect?



## US new international enrolments (all countries inc. India)



Source: IIE

# Partnership and TNE

# Partnership and TNE

## Two main statutory regulatory bodies for HE partnerships

### All India Council for Technical Education

Responsible for approval of  
Engineering, Technology or  
Business

### University Grants Commission

Responsible for  
approval of all other  
programmes



# Partnership and TNE: Regulatory reform

Press Information Bureau  
Government of India  
Ministry of Human Resource Development

20-March-2018 21:07 IST

**In a historic decision, 60 Higher Educational Institutions granted autonomy by UGC : Shri Prakash Javadekar**

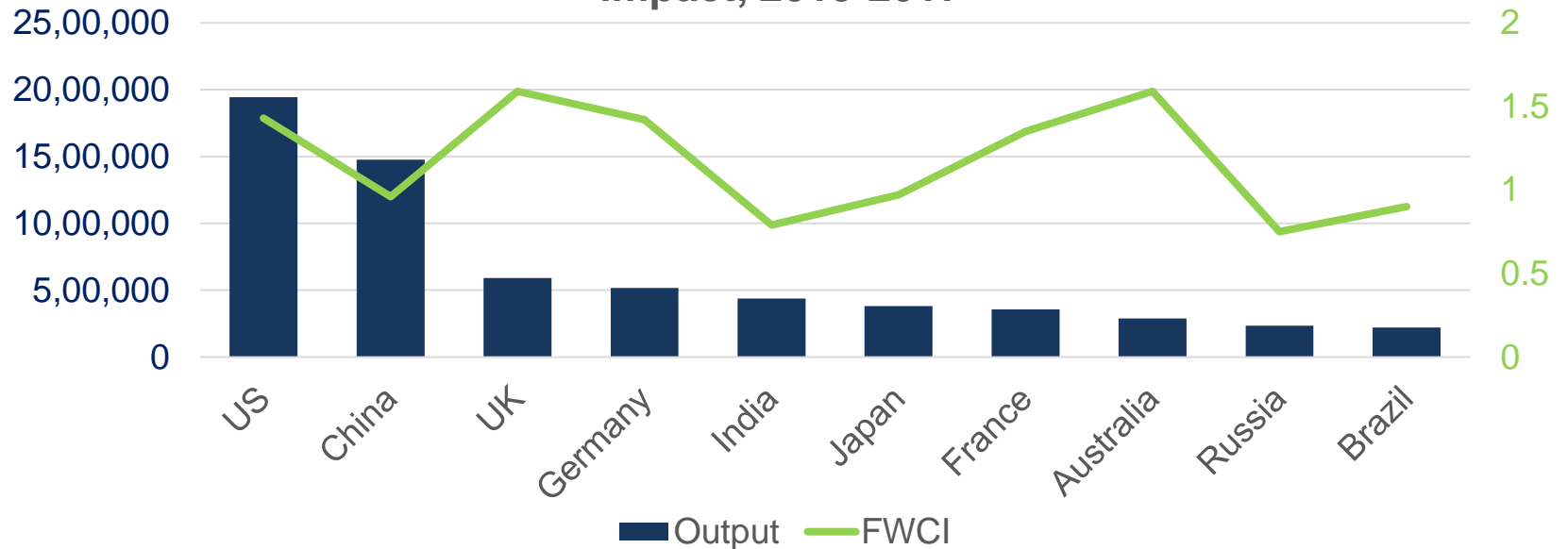
In a historic decision today, the University Grants Commission has granted autonomy to sixty Higher Educational Institutions which have maintained high academic standards. This was announced by the Minister of Human Resource Development, Shri Prakash Javadekar at a media briefing in New Delhi today. Shri Javadekar said that the Government is striving to introduce a liberalized regime in the education sector and emphasis is on linking autonomy with quality.

Giving further details, Shri Prakash Javadekar said that the sixty Higher Educational Institutions which have been granted autonomy includes 52 Universities i.e. 5 central universities, 21 state universities, 24 deemed universities, and 2 private universities. Shri Javadekar explained that these universities will remain within the ambit of UGC but will have the freedom to start new courses, off campus centers, skill development courses, research parks and any other new academic programs. They will also have the freedom to hire foreign faculty, enroll foreign students, give incentive based emoluments to the faculty, enter into academic collaborations and run open distance learning programmes.

# Research

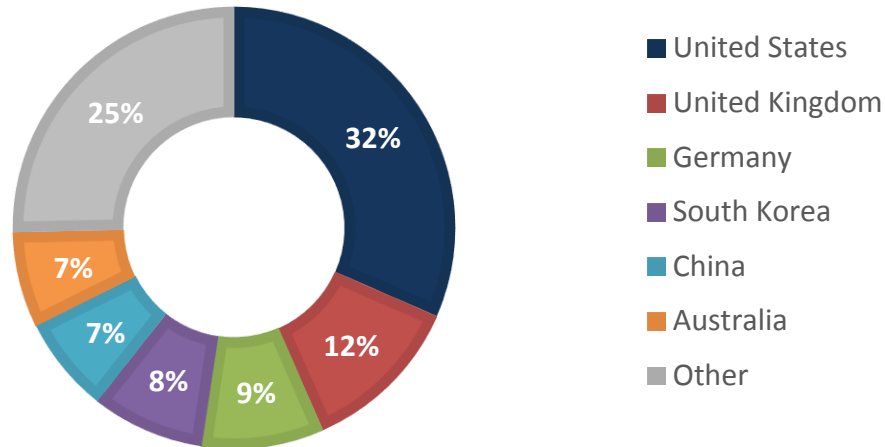
# Research

## Research publication output and field-weighted citation impact, 2015-2017



# Research: India's top research partners

India's research publications by foreign collaborator



# Research: UKIERI

**UKIERI**  
UK-India Education  
and Research Initiative

## SUSTAINABLE MANAGEMENT OF THE GANGA RIVER BASIN THROUGH SCIENTIFIC INNOVATION

**PARTNERSHIP**  
Indian Institute of Technology-Kanpur, India and Durham University, UK

**OBJECTIVE**

- Use remote sensing to examine and monitor river connectivity in the Ganga Basin
- Use reduced complexity modeling to get easy predictions of pollution levels in the Ganga
- Development of a GIS Platform: Spatiotemporal Observation and Analysis of Rivers (S.O.A.R)

**OUTCOMES**

- Developed understanding of dynamic connectivity structure of the Ganga river using remote sensing images
- Extended the study to Uttaranchal state and explored the potential of remote sensing for rapid & low cost monitoring of water quality
- Introduced the use of airborne sensors for mapping water pollution in the Ganga river

**IMPACT**

- Significant contribution to the Ganga cleaning effort which is one of the priorities of Government of India
- Leveraged funding of GBP 0.15 received from Durham University, and INR 22.5 lakh from Ministry of Earth Sciences, India
- IIT Kanpur has been awarded a project worth INR 2.52 crore for monitoring and mapping of water pollution using UAVs under the satellite programme of ISRO

**UKIERI**  
UK-India Education  
and Research Initiative

## MICRO/NANOFLUIDICS FOR HEALTH AND DIAGNOSTICS

**PARTNERSHIP**  
CSIR-Central Electronics Engineering Research Institute-Patna, India and Queen Mary University of London, UK

**OBJECTIVE**

- Explore possible applications of microfluidic devices towards biomedical use
- Study different technologies for realization of microfluidic system components
- Mask design for the desired components based on optimized parameters
- Realisation and characterisation of microfluidics based diagnostic platforms

**OUTCOMES**

- A working prototype of a microfluidic diagnostic platform developed
- Faculty & staff trained on developing chemical sensors and the chemistry behind their detection property
- Clinical training on designing and fabrication (conceptual) of microfluidic platforms
- More than 200 biochips/industry benefited

**IMPACT**

- Development of Micro-fluidic platforms or Lab-on-Chips (LOCs) is an effective, economically viable, portable alternative over the conventional health diagnostic tools.
- LOCs will provide the patients an added advantage of health check-ups at home rather than necessitating visit to diagnostic facilities.
- CSIR-CERI and UoL have planned to open 2 Micro fluid platform research centres in Patna and London.
- Sponsorship received from 10 industries and 12 institutions for long term sustainability

**Device with channel, well and capping**

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UK-India Education  
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## A COLLABORATIVE RESEARCH FRAMEWORK FOR STRUCTURES SUBJECTED TO EXTREME LOADS

**PARTNERSHIP**  
Indian Institute of Technology - Bombay, India and University of Cambridge, UK

**OBJECTIVE**

- Establish common software platform for modeling and simulation of structures under extreme loading
- Explore experimental facilities for large scale testing for a variety of man-made and natural hazards
- Create a network of institutions and agencies responsible for hazard mitigation and emergency response

**OUTCOMES**

- Agreements have been created for development of a sub-stained analysis tool for structures in fire
- Successful development of two modules (one Transfer Module & one Module in Operation) open source software
- The survey of other facilities in UK and India enabled building of a network of researchers working in the area of Structural Fire Engineering

**IMPACT**

- Large scale structural fire testing facility access for UK partners and simulation and modeling software development for Indian partners
- IIT Bombay is now considered as India's foremost centre in the area of structural fire safety engineering
- Leverage funding of GBP 1 million received from multiple funding agencies of UK and India

## Final thoughts

- Window of opportunity for recruitment
- Student mobility will be built on exchange
- Joint programmes worth a second look
- Tremendous opportunities for research collaboration, but need to work cooperatively to meet scale of ambitions.