



# Widening Participation and STEM

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**November 2009**

## Bradford's Context

- The University's Income for 2007/08 was £113 million, made up of: -
  - 35% from HEFCE
  - 9% from Research Grants
  - 42% from Academic Fees & Support Grants
  - 12% from Other Operating Income and
  - 2% from Endowments & Interest



## Bradford's Context

- Our student profile for 2007/08 was: -
  - 8,300 Undergraduates
  - 2,250 Postgraduates
- These were made up of: -
  - 75% Home/EU students
  - 25% Overseas students



## Bradford's Context

- Our profile of 2,900 staff is made up of: -
  - 46% Male
  - 54% Female



## Bradford's Context

- We have seven Academic Schools at the University. They are: -
- Engineering, Design & Technology
  - Electronic/Electrical, Civil, Mechanical and Medical Engineering
- Computing, Informatics & Media
  - Computing, Media, Mathematics and Creative Technology

## Bradford's Context

- Health
  - Bradford Dementia Group, Nursing, Midwifery, Healthcare, Radiography and Rehabilitation
- Life Sciences
  - Archaeology, Geography & Environmental Sciences, Biomedical Sciences, Pharmacy & Pharmacology, Chemical & Forensic Sciences, Clinical Sciences, Optometry
- Management
  - Business, Management, Law



## Bradford's Context

- **Social & International Studies**
  - Economics, History, Peace Studies, Philosophy, Social Policy, Social Work, Applied Criminal Justice, Languages
- **Lifelong Education & Development**
  - Leadership & Management, Public Sector Administration, Community Regeneration, Community Justice, Combined Studies, Local & Regional Studies, Islamic Perspectives, Foundation



## Bradford's Context

- 60% of students from minority ethnic groups (18%)
- 48% from low socio economic groups (28%)
- 41% live at home with parents
- 90% on low income with bursaries (42%)
- 50% of curriculum is STEM based
- 70% of curriculum professionally accredited





## The Bradford District

- Population to increase to 489,000 by 2011
- Only District outside London with growing youth population
- High Unemployment



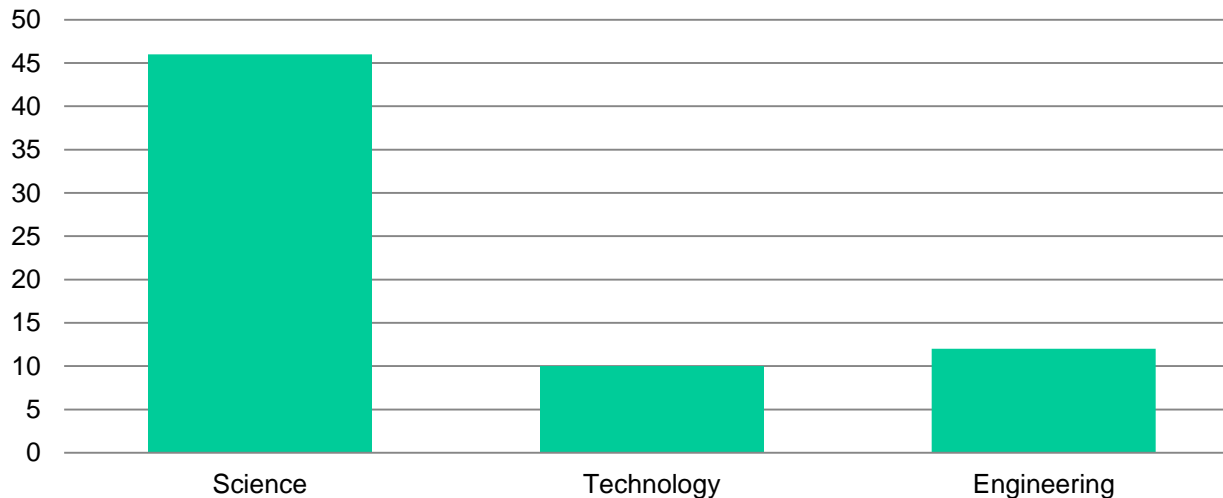
## Bradford District

- Attainment and participation in schools at relatively low level
- Population in local primary schools to raise to 40% from South Asian origin by 2010

## Background

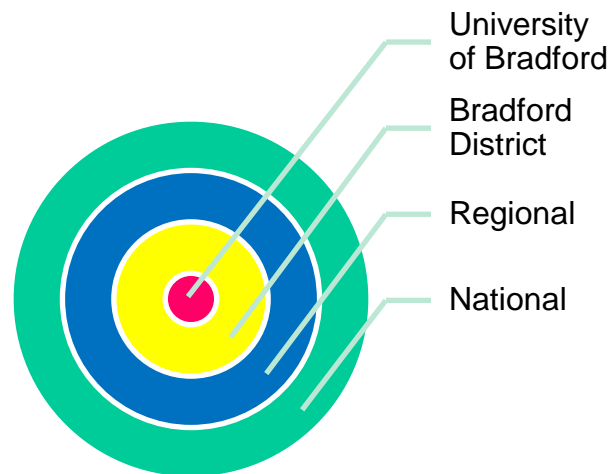
- National £20million HE STEM programme funded by HEFCE

**Percentage of Students at Bradford  
Studying STEM 2007/08**



## Leitch – Review of Skills

- Skills Shortfall
- Economically valuable skills
- Increase employer engagement
- Increase skills across all levels





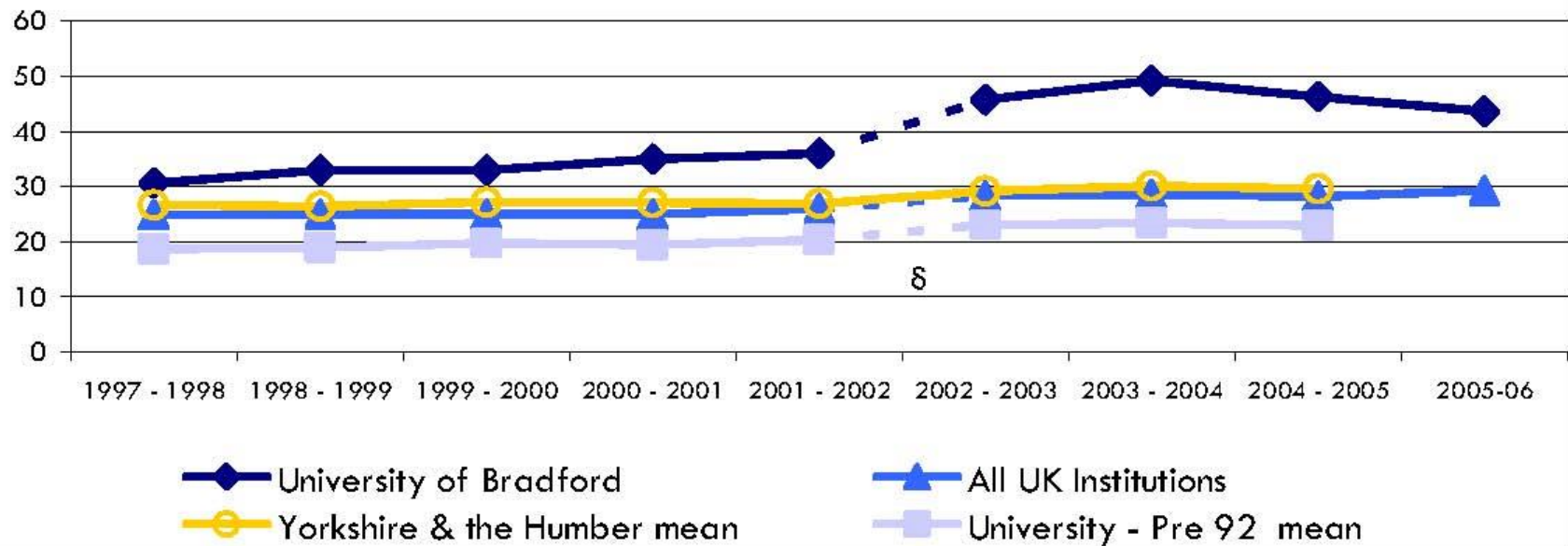
## Widening Participation – The University of Bradford

- Leading edge within widening participation and Higher Education
- Performed above national benchmarks
- Socially inclusive student body
- Good student retention



# Widening Participation – The University of Bradford

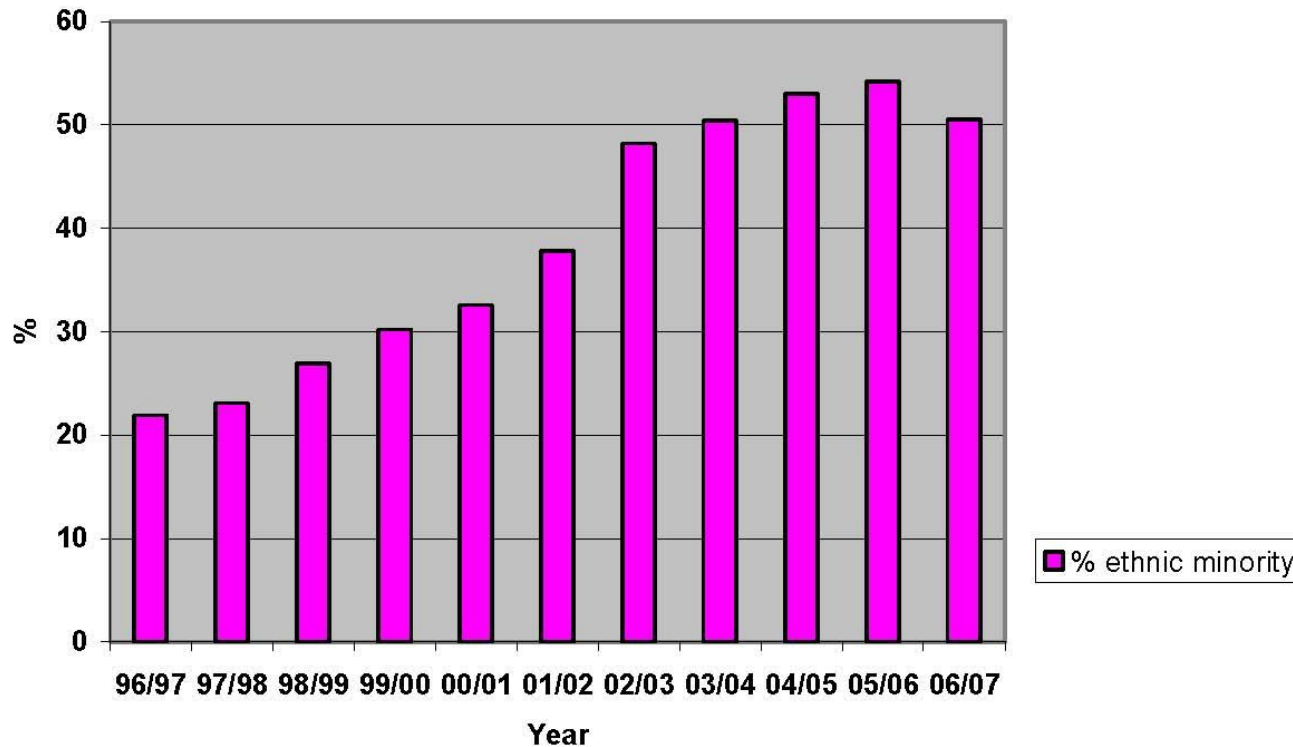
Percentage of students from low socio-economic groups





# Widening Participation – The University of Bradford

Known ethnicity of first and foundation years





# Widening Participation and our Corporate Strategy 2009 - 2014

*“Making Knowledge Work”*

*“Confronting inequality, celebrating diversity”*





## Corporate Objectives 2009 - 2015

- Widening Participation, achievement and social inclusion
- Enhancing the Distinct Learner Experience
- Working and learning in a diverse community
- A University at the heart of its community



## Widening Participation & STEM

- Raise awareness of STEM courses linked to careers
- Raise aspirations
- National and Regional needs
- Curriculum development in schools and HEIs
- Evidence based approach



# Science, Technology, Engineering and Maths

- University of Bradford committed to:-
  - Promotion
  - Development
  - Delivery
  - Partnerships



## Widening Participation & STEM activities



- Primary Fun Days
- ACE Days
- Junior University
- Compact Scheme
- International Space Olympics
- UBSA
- Re-opened Chemistry
- Learning in the community
- Ecoversity linked work with schools
- Mature Student Scheme
- Escalate

# Widening Participation & STEM activities

– Children’s University

– Primary Fun Days





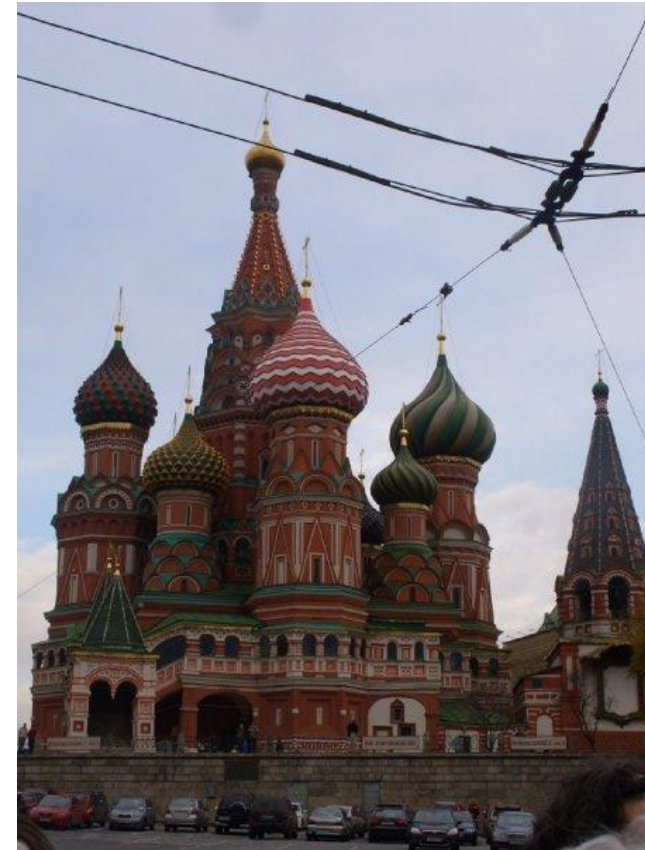
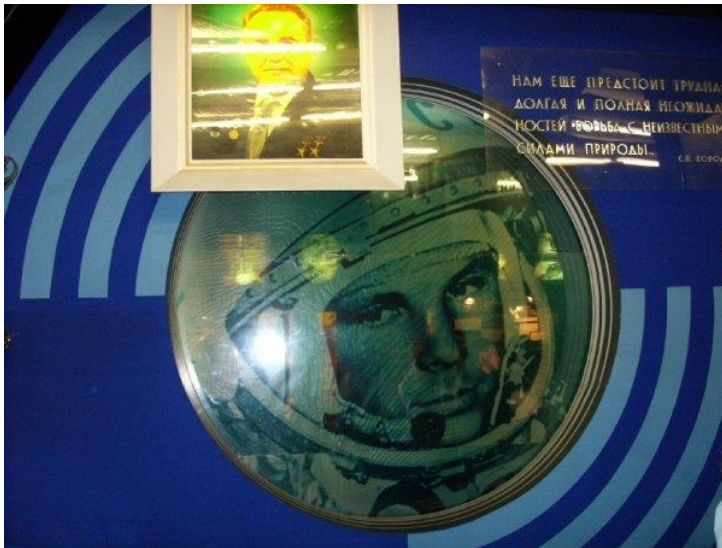
# Widening Participation & STEM activities

- ACE Days
- Summer Schools
- Junior University
- Compact Scheme



# Widening Participation & STEM activities

## – International Space Olympics





# Widening Participation & STEM activities

– UBSA



– Ecoversity linked work with schools







## Widening Participation & STEM activities

- Re-opened Chemistry
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- Escalate

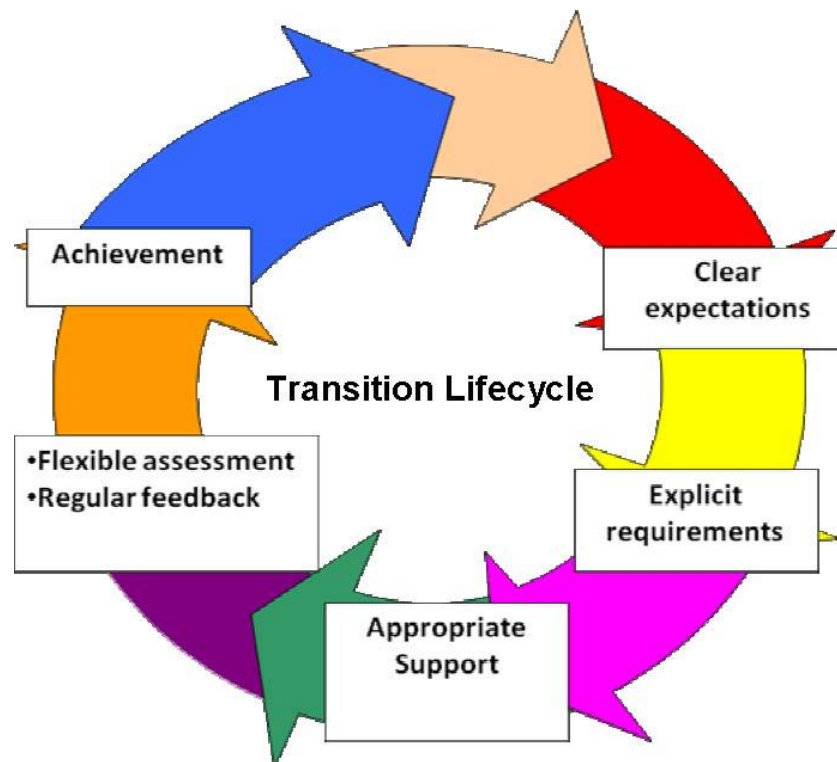


## Widening Participation & STEM

- Raising Attainment within STEM
  - Associate schools scheme
  - National Challenge Trust Schools and academies
  - AS-Level out of hours learning opportunities



# Student Support





## Student Support

- Developing an Academic Community
- Pre-Entry Activities
- Social Networking
- Central Welcome Activities
- Personal Tutoring/Pastoral Care
- Reality Checks
- SAPRA
- Develop Me



## Measuring the Impact of Widening Participation and STEM

- Who Comes?
- What are the barriers?
- What are they doing?
- What is their experience?
- How have they achieved?
- What difference are we making?



## This is “JOE”

