Designing for schools for the future

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DfES

20th November 2006
Ghent, Belgium
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• 21,000 Schools
  • Community
  • Foundation
  • Church

• 7 Million Pupils
• 500,000 teachers
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Age of Stock

- Pre-1919 (circa 80 years lifespan)
- Inter-War (circa 60 years lifespan)
- 1944 - 1966 (circa 30-40 years lifespan)
- 1966 - 1976 (inclusive of ROSLA blocks)
- Post 1976 (modern buildings)
- Temporary Buildings (including HORSA huts)
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Capital Expenditure is increasing sharply

1996/97 - £600 million
2006/07 - £5.8 billion
2007/08 - £6.4 billion
2010/2011 - £8 billion
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Capital Programmes

Building Schools of the Future

Primary Programme

Academies

One School Pathfinders
Building Schools for the Future

- 15 year programme - £2.2 billion per year
- 39 new authorities included in waves 1, 2 and 3
- Over 25% of all authorities in waves 1-3
- Around 240 (3400) secondary schools
- £6.5 billion of funding allocated by 2007-08
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Academies

– 46 Academies now open

– 200 Academies open or in the pipeline by 2010
Primary schools Programme

• £150 million 2008-09 – Pathfinders LEAs to be announced later this year

• £500 million 2009-10 onwards

• Aim to transform 8,400 primary schools over 15 years
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Educational Challenges

- Poor attainment levels
  - GCSE Results – 5 out of 10 low grades
- Underachievement by Boys
- Low Staying on Rate post 16
- Teacher Shortages
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Globalisation
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1. Based on Educational Vision

- helps to raise standards
- enhance teaching + learning
- new classroom pedagogy
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2. Inspirational Buildings

- A sense of identity
- Attractive landscape
- Design which captures the imagination
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3. Good Social Spaces – Better Behaviour

- Circulation
- Open access learning area
- Heart of School
- Dining Spaces
- Toilets
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4. ICT Developments
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• Where is school?
Personalised Learning

- Individual Learning Plan – joint responsibility
- Self Assessments and feedback
- Appropriate learning environments – access to different approaches
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Flexible + Adaptable

- Responsive to developments in ICT
- Allow for future changes
- Clusters of classrooms
- Range of spaces
5. Inclusive Design

• Inclusion of pupils with SEN and disabilities
• Community use outside school day
• Extended school
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6. Comfortable / Sustainable Design

- Natural daylight + ventilation
- Good acoustic design
- Low energy usage
- Use of sustainable materials
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6. Sustainable Design

- Good daylighting
- 4% DF
- Good uniformity ratio
- Natural Ventilation
- Stack effect
- Night cooling
6. Sustainable Design

Renewable energy sources

• Use of Bio mass boilers
• Wind turbines
• Ground source heat pumps
• Solar panels (hot water)

• Photovoltaic panels for demonstration purposes
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6. Sustainable Design

- Water conservation
- Rain water collection
6. Sustainable Design
City Learning Centres

- 85 CLCs completed
- Bristol CLC won the PM’s Better Public Buildings Award
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City Learning Centres
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Classrooms of the Future
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joinedupdesignforschools

- The exhibition at V & A proved a huge success and provided models for the BSF programme

- 30 of the 60 projects in the programme have either been implemented or are in the process of being implemented through the support of matched funding provided by DfES

- Exhibition has generated enormous enthusiasm and now be going on tour, 8 regional exhibitions planned
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Exemplar Designs – concepts and ideas

www.teachernet.gov.uk/exemplars
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Academies

- 46 complet
- Leading architects
- State of the art design
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Transforming Schools

www.teachernet.gov.uk/sftf
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Refurbishment
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Involvement of ‘Clients’

a. Views of pupils & staff

b. Consultation with wider community
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Innovate – a lot more