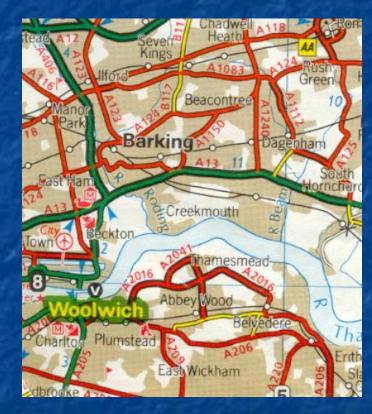
Barking & Dagenham



Barking and Dagenham is 15th in the index of 20 most severely deprived boroughs

High financial poverty and poverty of aspiration.

Great progress KS2 into KS3, but plenty to do:

3%of adults holding an HE equivalent qualification

Building schools for the future

"The aim of Building Schools for the Future is to ensure that secondary education in every part of England has facilities of 21st-century standard within 10 to 15 years from 2005-06."

The shape of things to come



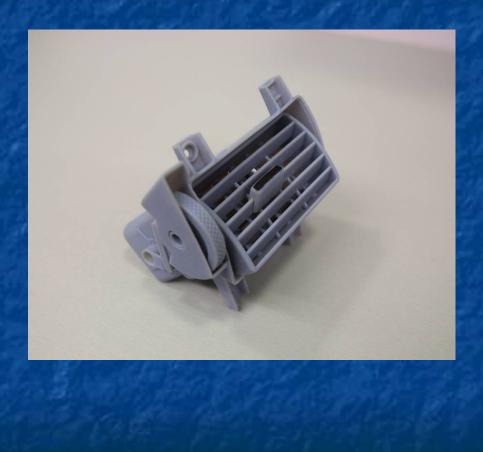




The non rapid prototyping machine

The rapid prototyping machine





School workshops & studios for the future

- Shaped by pedagogy: How do we teach and expect children to learn?
- Interactive whole class teaching
- A view of creative development
- Traditional drawing / 3d modelling
- Lighting
- Individual need for processes arising from design
- Frequent use / scarce use
- Mass component cutting / individual processes
- Mixed hazards

Real schools Jo Richardson Community School















Dagenham Park











CEME







Fusion of industry and education













Interactive whole class teaching



Influences and variety

- Universal access to 3d modelling
- Increased access to CAM as well as CAD (advanced manufacturing)
- Development of vocational pathways (traditional trade crafts & technical skills)
- Specialist diplomas
- Greater flexibility in post 16
- A need to develop Creativity

Influence of pre – vocational opportunities

Larger workshops
Use of external or outreach tutors
Continental comparisons
Specialist diplomas

Workshops in the Netherlands















English pre – vocational







Lessons from art Flexible studios for better 3d work and creative opportunities











New processes, New risks

Physical risk: machines are now interlocked behind panels. Procedures for avoiding abuse

Air quality is a much greater issue: Lasers... extraction or re – circulation? Routers.... High speed, light cut, fine dust

High volume... rapid turnover... large Quantity of particulates and fumes

New risks, New maintenance

Filters
Lenses
Seals
Safety interlocks
BS 4163: 2000

Router and laser

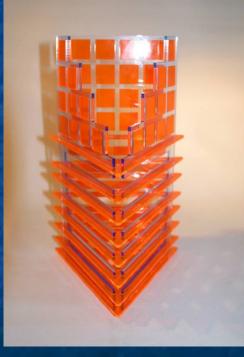






Coursework





New guidance, new B.S?

Will we have to develop new guidance
Disability discrimination
Every child matters places duty of care More formally than before
Shared roles in teaching / partnerships means that that there have to be reliable mechanisms for safe operation

of these spaces



The ABSOLUTE GUIDING PRINCIPLE:

"KIDS NOT KIT"

Mike Ive