## **C21st Schools Programme**

"Shaping the future of schools in Wales"

**Constructing Excellence in Wales** 

## Milica Kitson

# Chief Executive Constructing Excellence in Wales

## **Outcomes from today**

#### That you are:

- 1. Aware of this project and what it hopes to achieve
- 2. Able to inform, input to and help to shape the delivery of 21<sup>st</sup> Century Schools in Wales

# Agenda for the day

0900	Welcome – Milica Kitson, Chief Executive, (CEW)
0905	Introduction – to the C21st Schools Project – Ed Evans (CEW)
0935	Getting a school from concept to reality – Jo Larner, Head of Capital Funding (WG)
0955	A strategy for standardisation – Jane Wade (CEW)
1025	Refreshments
1040	Workshop 1 – VFM criteria - what is important?
1110	Workshop 2 – is the current way we design and procure schools effective?
1140	Feedback from Public Sector Forum – the client's view?
1150	Summing up and next steps
1200	Close



# An introduction to the 21<sup>st</sup> Century Schools Project

**Ed Evans** 

**Constructing Excellence in Wales** 

## Overview - What I'll talk about

- Why are we doing this?
- What do we plan to do?
- How do we plan to do it? And when and with who
- What will we deliver in the end?
- How will we know if we delivered successfully
- Questions

## Purpose of the Project

To improve the design, procurement and delivery of the C21st Schools Programme and maximise long and short term value for money during the life of Band A of the programme and in readiness for Band B.

# **Project Context**

The 21st Century Schools Programme formally commenced in April 2014. The £1.4 billion programme will result in the rebuilding and refurbishing of over 150 schools in Wales. There is recognition, however, that, in these times of constrained resources, it is vital that opportunities are sought to extend the impact of this funding.

Maximise and share the impact, extent and value of the investment across **Welsh communities** by designing, procuring and delivering schools to an optimum size and specification with the right facilities to provide the **right learning environment** for our children but within a **reduced but deliverable cost envelope**.

## Workstreams

To provide a consistent approach to the design, procurement and delivery of Welsh educational buildings within the 21st Century Schools programme and securing greater value for money by:

- 1. Optimising design standards
- 2. Optimising procurement processes
- 3. Optimising delivery models

Via strong and clear evidence base

# Delivering the project

### Programme

2 years – up to Oct 2016

### Approach

- 3 stages:
  - Review data collection, benchmarking
  - Develop/Propose standards, best practices
  - Implement change management

#### Resources

- People Ed, Jane, others
- Pounds £400k
- Work packages

# Delivering the project

#### Risks

- Poor engagement
- Political
- Market conditions

#### **Engagement**

- Long list of stakeholders CLAW, WLGA, ADEW, WGov, F/w mgrs, suppliers
- Input, engage, inform

#### Extensive communications

- Reports, seminars, forums, social media, etc
- Briefings, workshops, individual/collective meetings

#### Governance

Delivery via CEW - Reporting to Programme Director C21st Schools

## **Deliverables**

#### Common outputs:

- Review of current costs and qualitative data
- Suite of cost and qualitative benchmarks

#### Optimising Design:

- Design toolkit/guidance/specification staged development and issue
- Implementation plan to share outputs

#### Optimising Procurement:

- Report on current procurement models
- Proposed procurement model
- Implementation plan to share outputs

#### **Optimising Delivery:**

- Report on current delivery models
- Proposed delivery model
- Implementation plan to share outputs

#### R&D: Linking educational attainment to building environment

## What will success look like?

- More schools
- Greater flexibility
- Greater certainty
  - Time, cost and quality
- Community benefits
  - Greater economic opportunities
  - Greater training and upskilling opportunities
- Long term cost effectiveness
  - Reduced energy consumption
  - Reduced maintenance costs
- Better educational outcomes?

## **Questions?**

Ysgolion yr 21ain Ganrif 21st Century Schools





www.cymru.gov.uk

# 21<sup>st</sup> Century Schools New Business Case Approach

Jo Larner

# Band A

- £1.4 billion investment over five years
- Funding split 50% Welsh Government,
   50% Local Authorities / Others

- Rebuilding and refurbishment Over 150 schools & colleges
- All 22 Local Authority Areas to benefit

# Main Aims

- Reduce numbers of poor condition school and college buildings
- Reduce surplus places
- Reduced running costs = more resources to invest in our learners

Includes provision for Welsh medium and Faith education

# Business Case approach

Full Business Case - projects > £5M

3 stage development –

Strategic Outline Case (SOC)

Outline Business Case (OBC)

Full Business Case (FBC)

Business Justification Case - projects < £5M</li>

A single stage document

# **Business Cases**

## Iterative approach

- SOC strategic. Justification, investment objectives, short list of options, management structure
- OBC outline. Commercial strategy, analysis of shortlisted options, match funding and spend profile
- FBC full. Finalised management structure, benefits and agreed contract

# Business Case – Welsh Government consideration

3 Stage process:

 Business Case Scrutiny Group – policy leads and technical specialists

 Capital Panel – Chaired by Director General DfES, DfES Directors & appropriate advisors

Ministerial Approval

# Constructing Excellence in Wales

 Changing economic climate underlines need to maximise value for money

 Releasing potential to invest in more schools and colleges

 CEW help drive better design/ delivery and more efficient procurement

# Revised business case guidance

In response to feedback from partners

 More focused approach - concentrates on what needs to be included

 Streamlined process – targeted questions, templates for all business case stages with word counts

Fully compliant with Better Business Case model

# The way forward

Pilot ended on 30 November

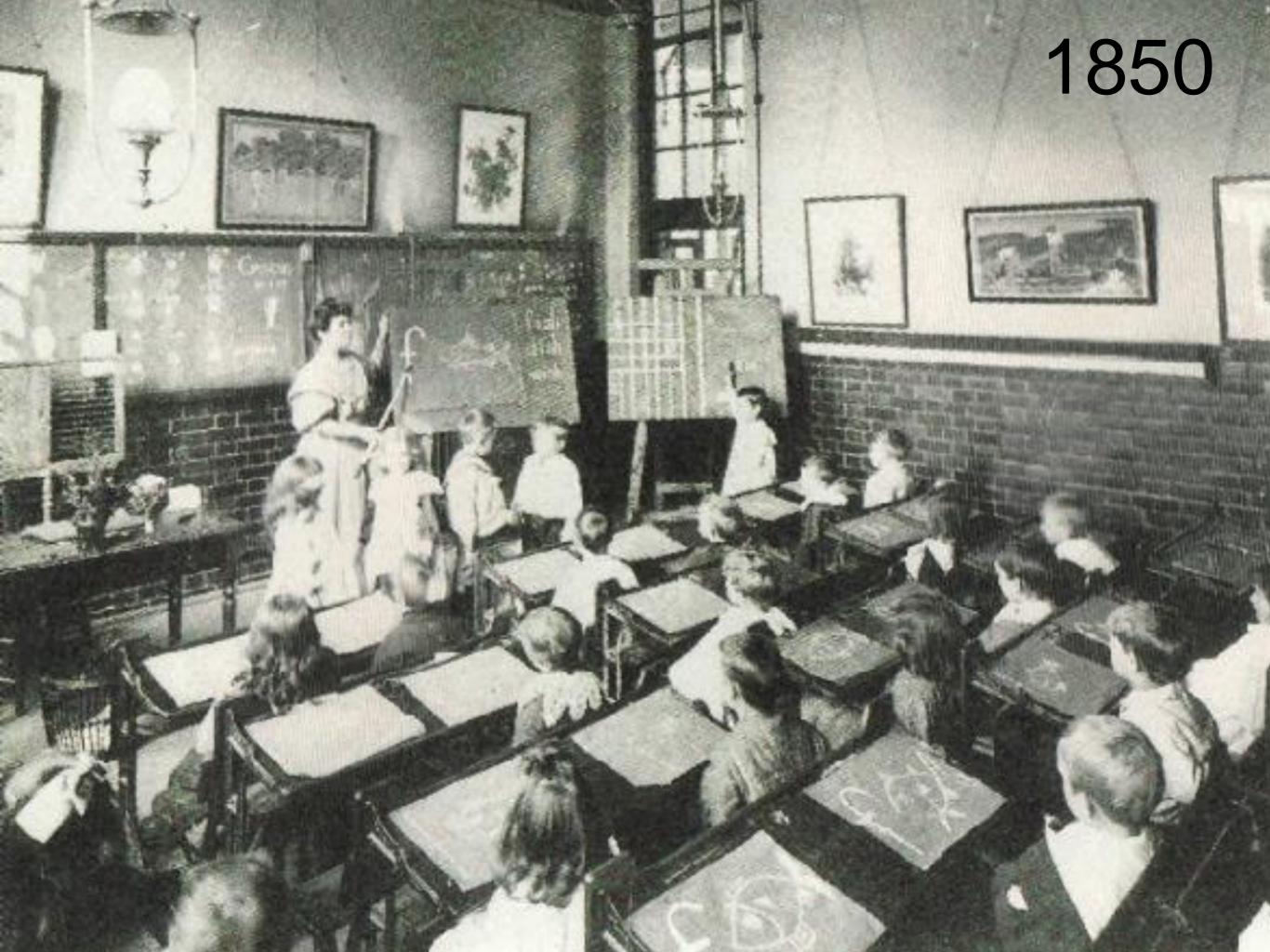
 Feedback reviewed and any changes incorporated into the document

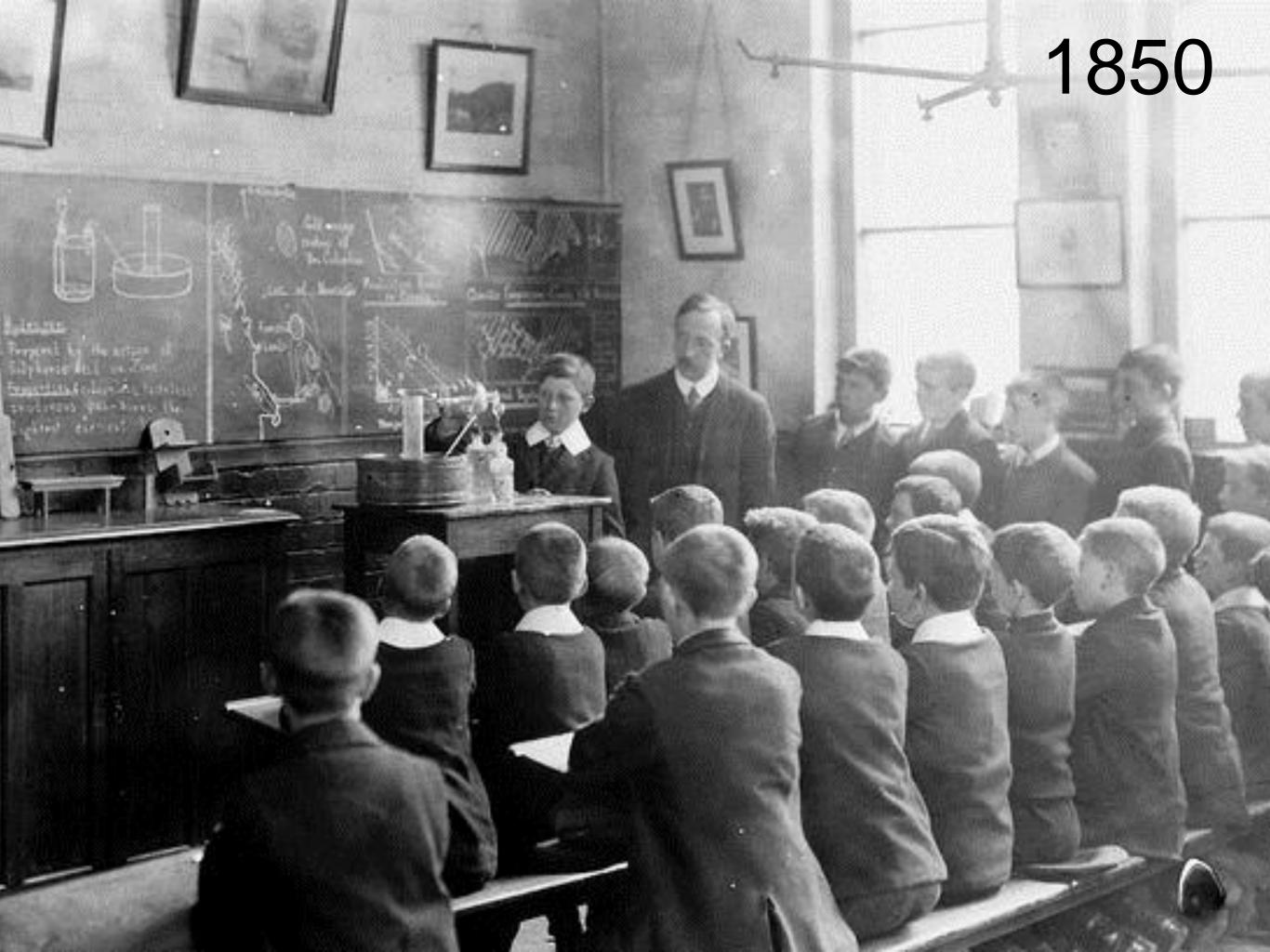
 Guidance now finalised and prepared for publication

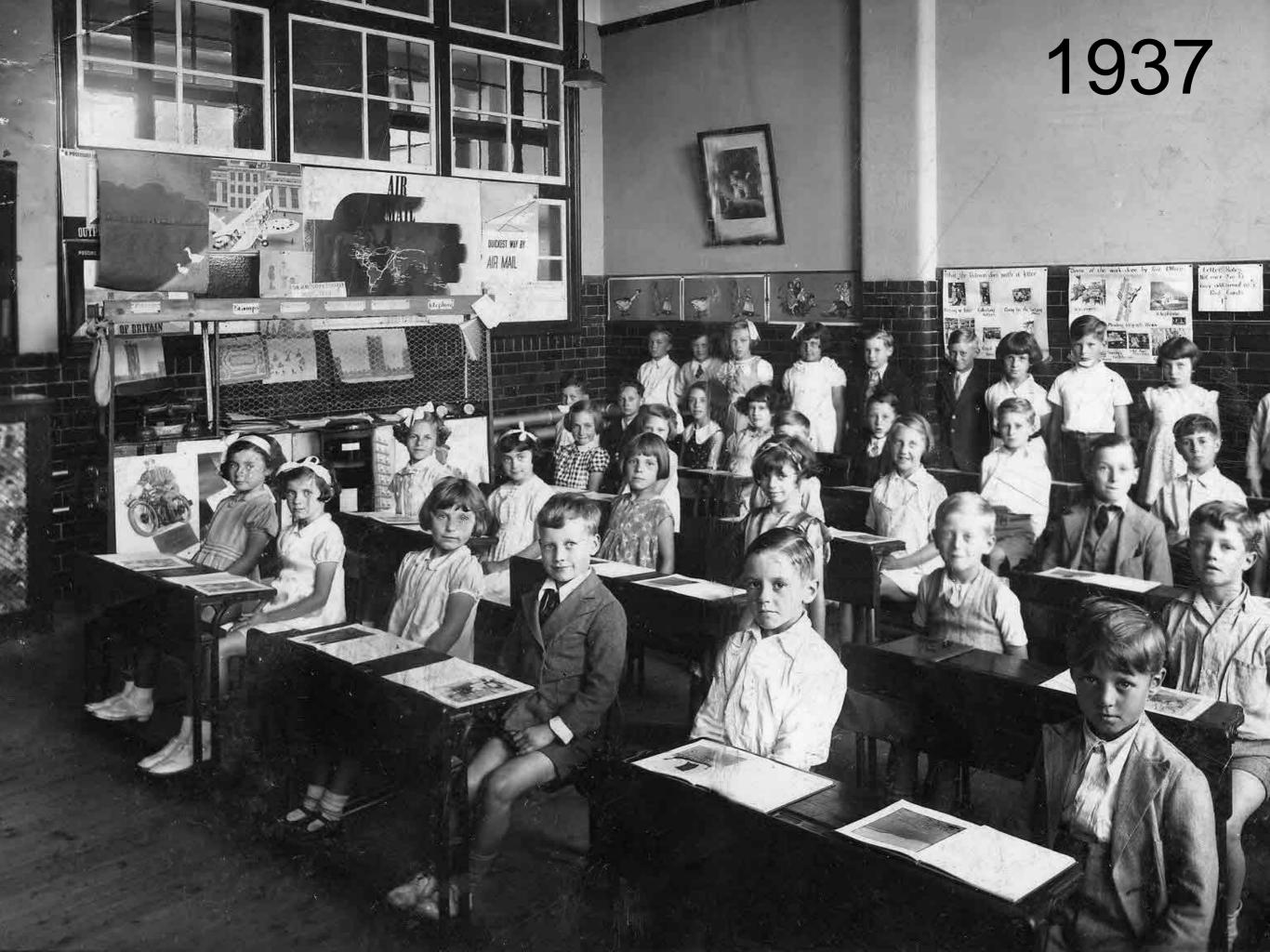
Continuous improvement

# Optimising school designs for greater value for money

A strategy for standardisation









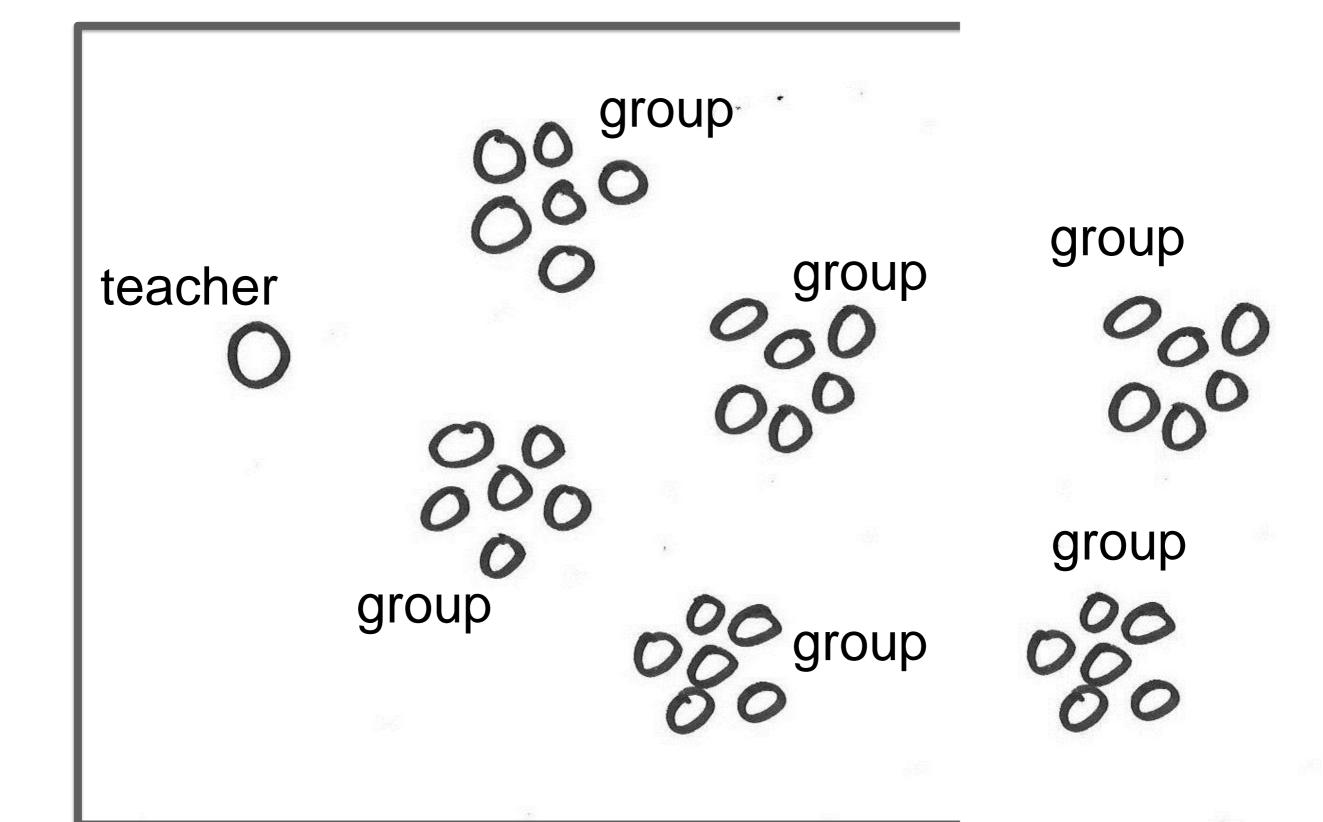






class 0000 teacher 0000

Warm
Dry
Light
Acoustics
Flexible
Ventilated



Bespoke
Contextual
Responsive
Engaged

Standardised
Unresponsive
Unengaged
Flat pack

Design Solutions

Expensive

Inexpensive





Bespoke
Contextual
Responsive
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Standardised
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Design Solutions

Expensive

Inexpensive





## Terminology

Modular
Off-site
Standardised
Template design
Optimised
Pre-fabricated
Pattern book



Bespoke
Contextual
Responsive
Engaged

Standardised
Unresponsive
Unengaged
Flat-pack

**Design Solutions** 

Cost effective

## A cost effective kit of parts

Component solutions



# Whole building solutions

Specifications
Ironmongery packs
Wall types
Common junction details

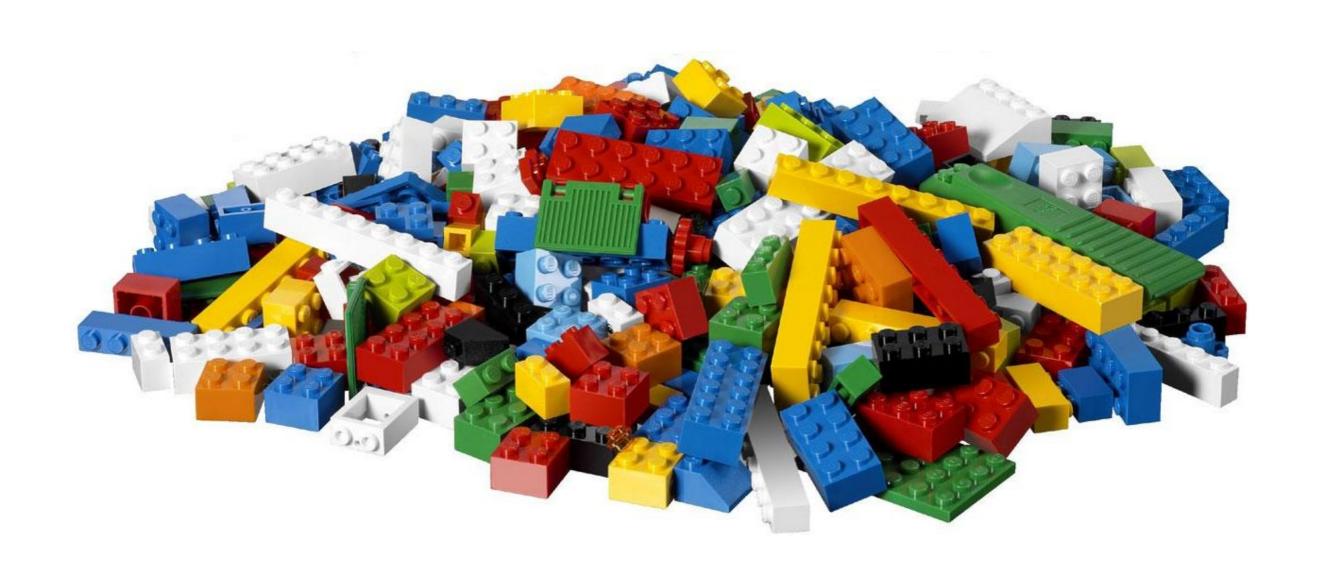
Ventilation strategy
Standard classroom layouts
Standard WC layouts
Door pattern types

External envelope solutions
Whole buildings
Superstructure solutions

## A cost effective kit of parts

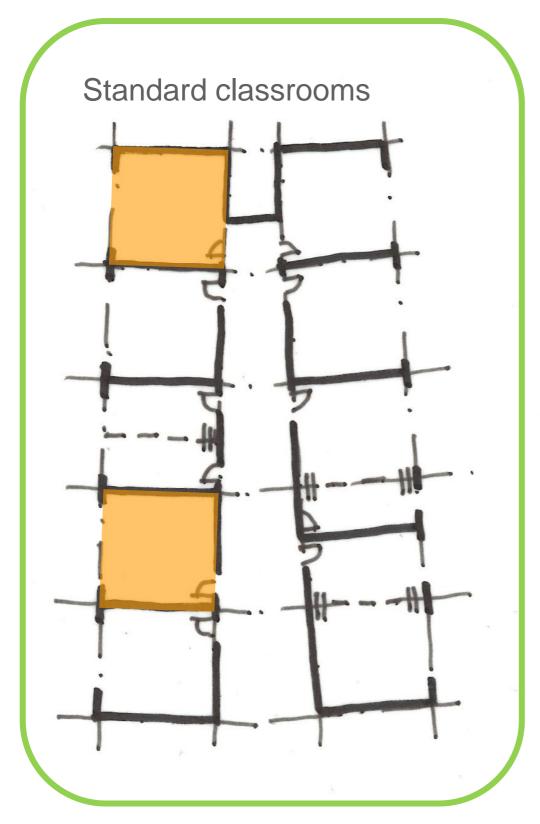
Component Solutions Whole building solutions

Constrained • - - - - - - Flat greenfield

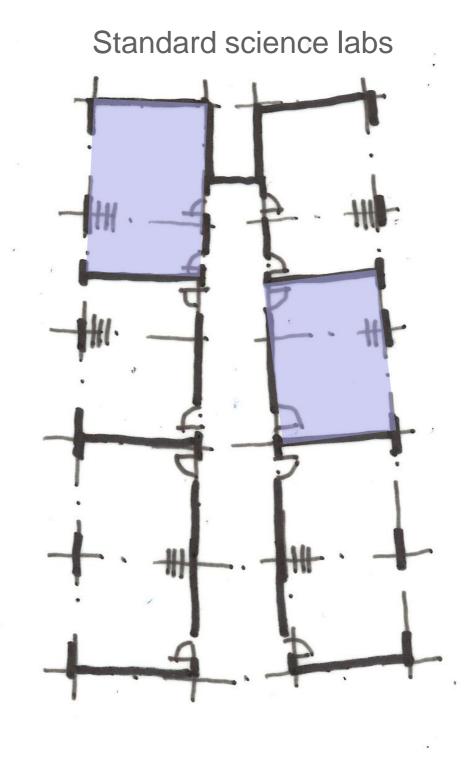




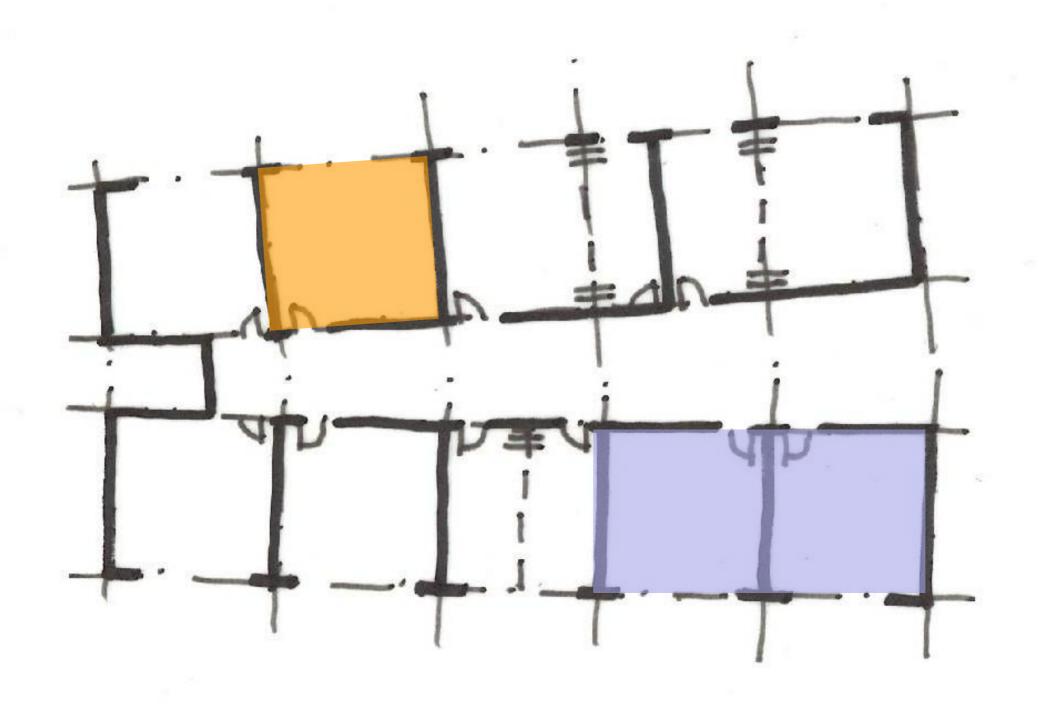
A standard kit of parts

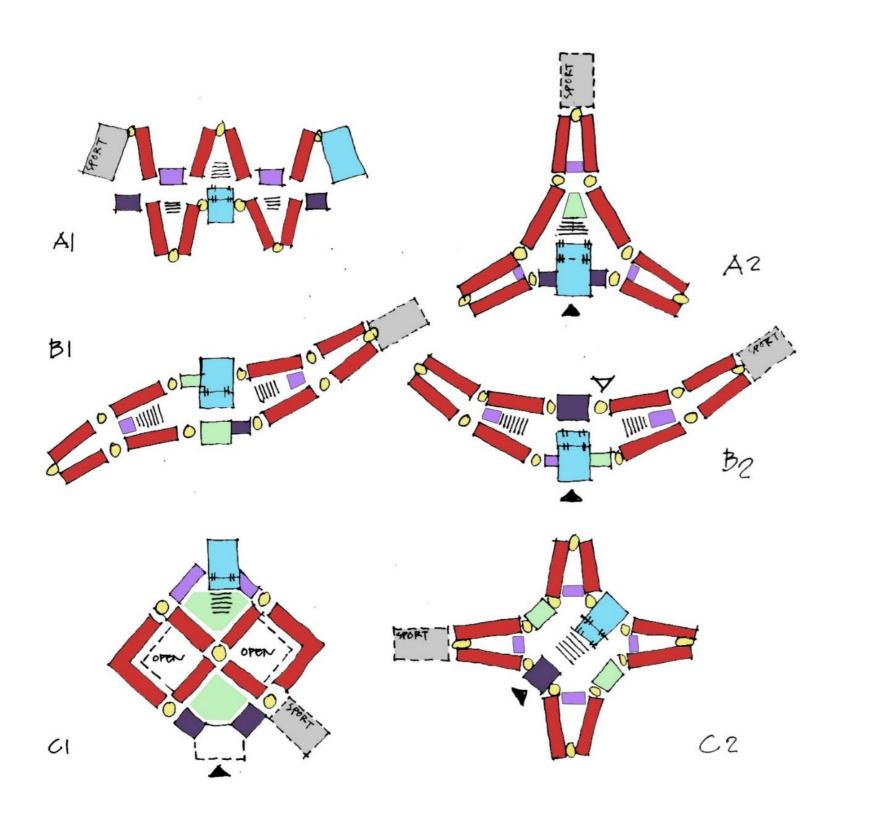


Standard school blocks



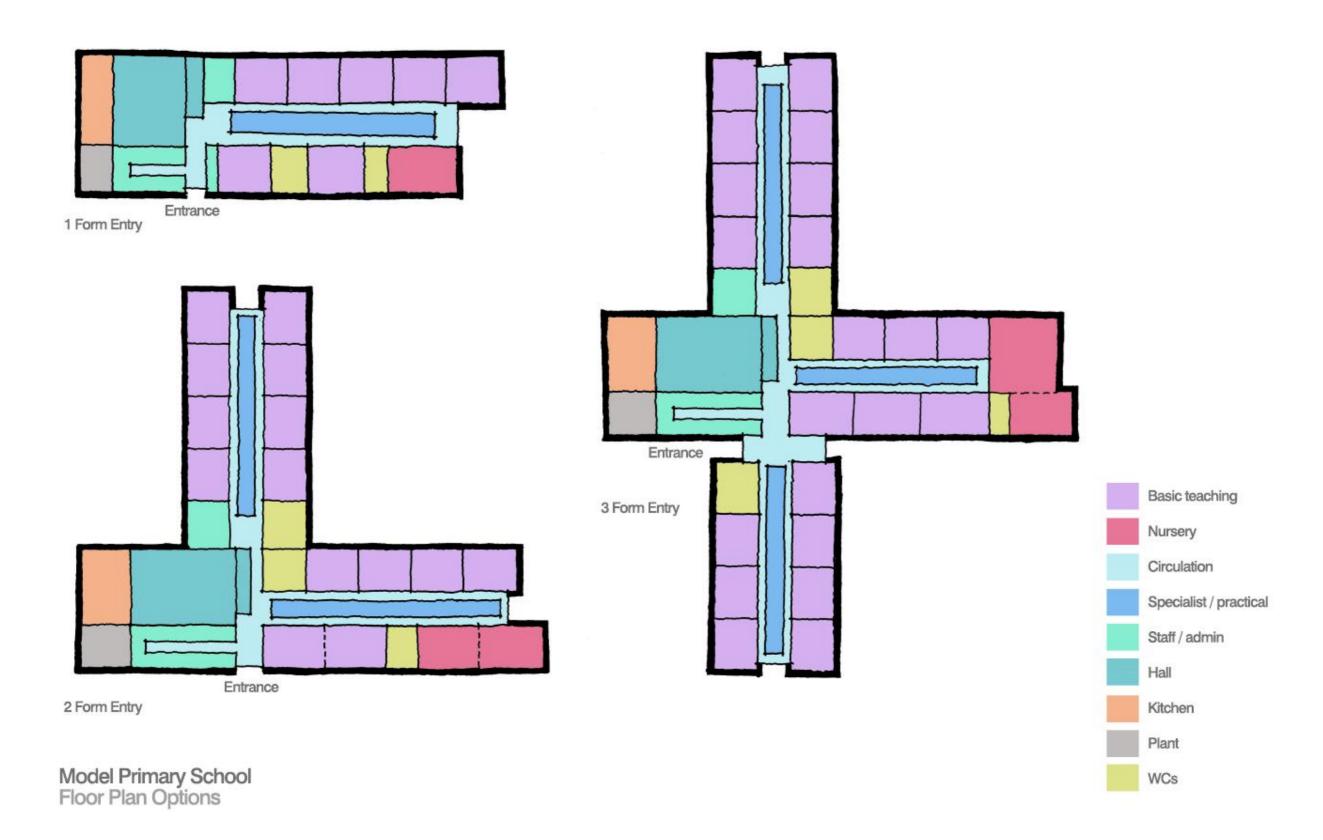
A standard kit of parts





Flexible
Adaptable
Responsive
Versatile

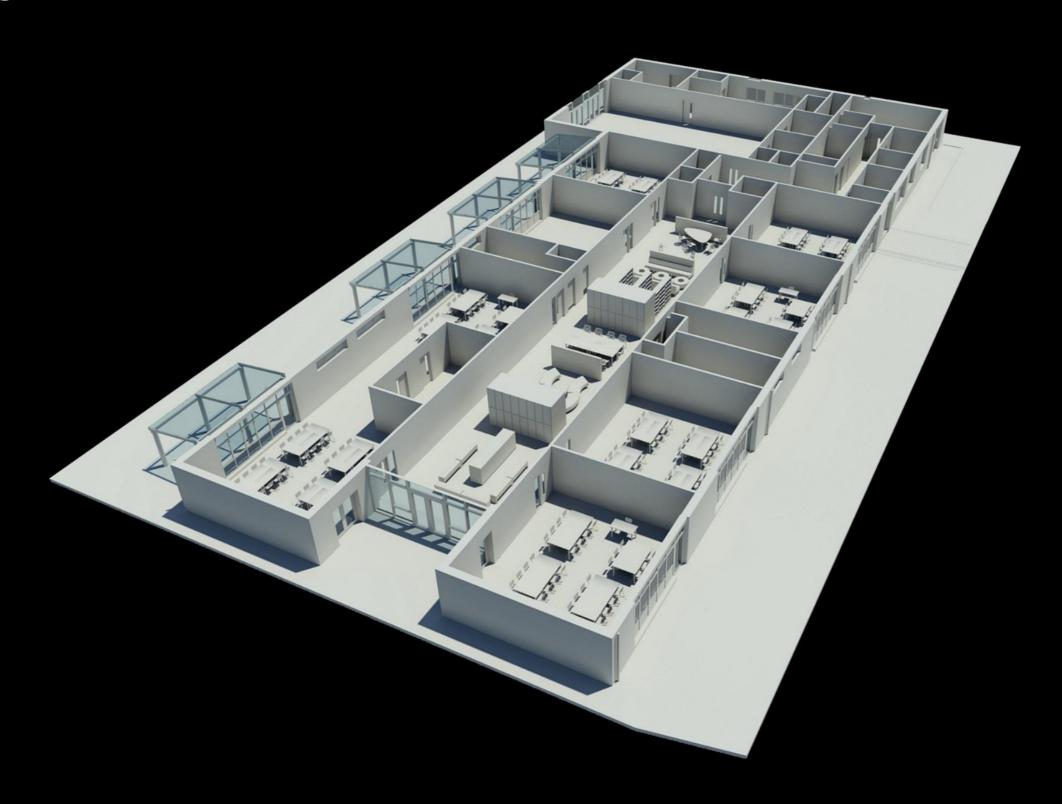
A standard kit of parts



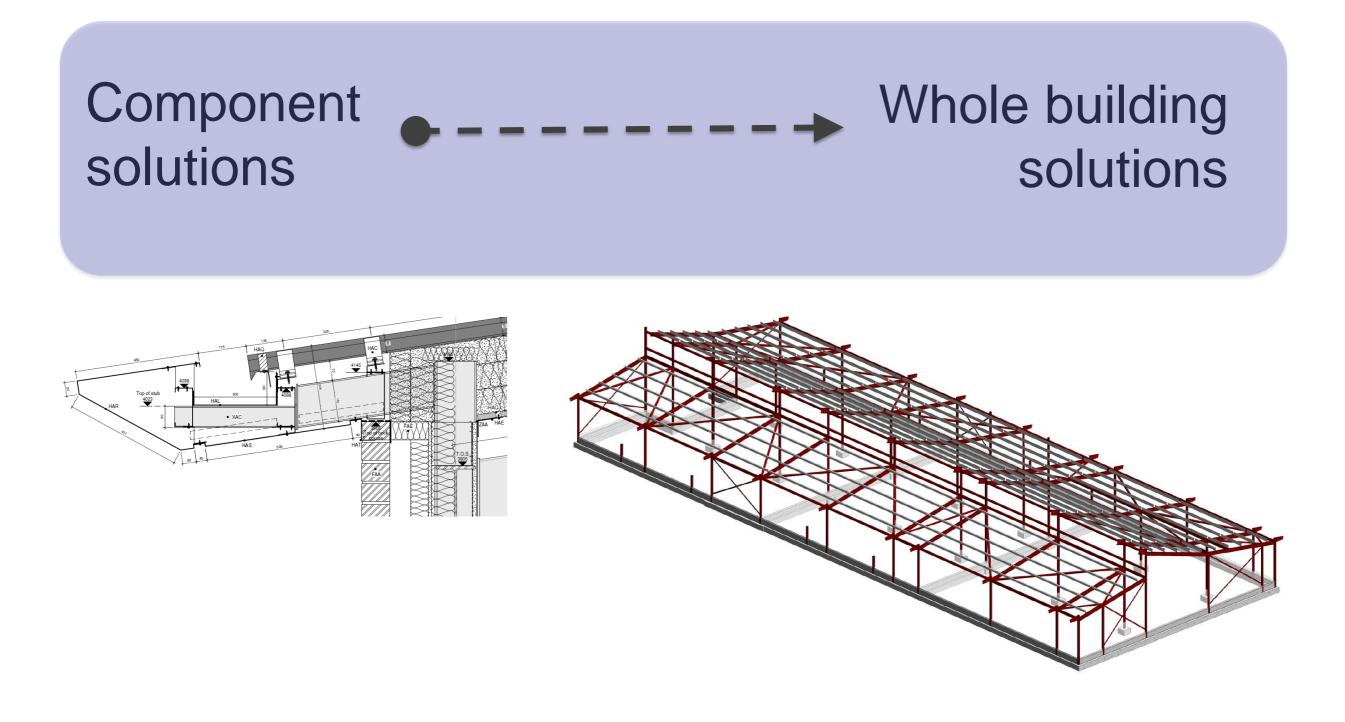


## YG Nant Talwg Vale of Glamorgan

## Agilis model school



## Building Information Models (BIM)



## Quality

Fit for purpose
Robust
Long life
Low maintenance
Low running costs
Regulatory compliance

Building Regulations
Building Bulletins
BREEAM
Secured by Design

Design Features

Signature design
Visual impact
Uniqueness
High end materials
Personalised
Contextual





## Questions

## 21st Century Schools Project

Workshop 1

What is Value for Money?

Ed Evans
Constructing Excellence in Wales



## Purpose of the Project

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What is Value for Money?



## Value for Money

"What is value"

Vs

"What things are valuable"

In the context of the 21st Century Schools Programme we need a common understanding of what things are valuable to us and their relative importance.

## Value for Money

"What's valuable to me may not be valuable to you"

Who is interested in value?

- Funders
- Stakeholders
- End users
- Delivery bodies
- Operators/maintainers

# Value for Money Workshop 1

Consider what's important/valuable

- As many issues as you want
- Draw together into no more than 6-7 categories/themes
- Assign relative importance to each (%age)
  - Must add up to 100%
- Consensus ideal but not essential record differences
- 20 minutes stay on your tables

## 21st Century Schools Project

## Workshop 2

# Does the current way we design and procure schools deliver Value for Money?

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Constructing Excellence in Wales



# Effectiveness of current approach Workshop 2

### Consider:

- The way we currently design/procure schools
- The strengths/weaknesses of current approaches
- What can the private sector do to improve delivery?
- Consensus ideal but not essential record differences
- 20 minutes stay on your tables

## 21st Century Schools Project

### Feedback from Public Sector Forum

The client's view?

Ed Evans
Constructing Excellence in Wales

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The client's view?

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# DEFINING VALUE FOR MONEY THE GUIDING PRINCIPLES

### **Educational Outcomes**

- 1. Educational attainment
- 2. Attendance
- 3. User satisfaction

The impacts on educational attainment, attendance and experiences of pupils and teachers

### Cost

- 1. Initial capital cost
- 2. Whole life cost
- 3. Income

Initial capital cost, costs over the whole life of an asset and the income that an asset can generate

### **Certainty**

- 1. Time
- 2. Cost
- 3. Quality

Certainty of delivery in terms of the cost of the asset, the time to deliver it and its quality

# DEFINING VALUE FOR MONEY THE GUIDING PRINCIPLES

### **Specification**

1. Size

2. Flexibility

3. Quality of environment

The size of the asset, its flexibility of use and the quality of the learning environment

### Sustainability

1. Energy efficiency

The long term energy performance of the

- 2. Adaptability to climate change asset, its adaptability to climate change and
- 3. Carbon footprint

its overall carbon footprint

### **Social Value**

1. Community benefits

2. Community use

3. Local regeneration

The benefits to the community during construction of the asset and the longer term benefits of community use and local regeneration

## **Summing Up and Next Steps**

## **Questions?**