Where we've been......
Where we’ve been......
Where we've been......

James Review More for less - £1100-£1500

Changing guidance Faster procurement routes More refurbishment Standard solutions Maintenance backlog Fragmented client base

Greater than ever need for good design

Primary "bulge" Operational budgets stretched

The Challenges
First newbuild BSF school to open

Sorrell Prize Shortlist

RIBA Sustainability Prize Shortlist

open

Brunel

Buro Happold

The significance of context

Getting it right – Bristol Brunel

north

south
Getting it right – Bristol Brunel

- Single sided lightweight
- Single sided heavyweight
- Cross vent to street lightweight
- Cross vent to street heavyweight
- Cross vent via chimney lightweight
- Cross vent via chimney heavyweight

Assumes good external solar control
SE/London figures 2 to 3 times higher

Hours > 28°C
Getting it right – future proof

Summary of results:

- No blind/window interface issues
- Robust – works even when not used as intended
- Solar gain and glare reducing use of blinds
- Popular with users – shading and orientation reduce
  higher than predicted
- Night vent not generally used so average temperature
  temperature very stable
- peak temperatures better than predicted

Getting it right – in reality
NUT Quote: "The Union should amend its current advice on high temperatures to: (a) recommend a maximum working temperature of 26°C; (b) include measures whereby classrooms and other teaching rooms should be vacated for other than very short periods..."
Getting it wrong

Natural ventilation
Climate change - adaptation

The wrong response
Refurbishment

Refurbishment
### User Issues

<table>
<thead>
<tr>
<th>Issue</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shallow water</td>
<td>Low</td>
</tr>
<tr>
<td>Overgrown vegetation</td>
<td>High</td>
</tr>
<tr>
<td>Inadequate drainage</td>
<td>Medium</td>
</tr>
<tr>
<td>Inadequate irrigation</td>
<td>Low</td>
</tr>
<tr>
<td>Lack of diversity</td>
<td>Medium</td>
</tr>
<tr>
<td>Inadequate sunlight</td>
<td>High</td>
</tr>
</tbody>
</table>

### Not Just Summer!

The concept of "summer" has expanded beyond the traditional season. There are numerous activities and events that take place outside of the traditional summer months, making it a period of endless fun and enjoyment. Here are some examples:

- **Festival of Lights**
  - A display of lights and decorations that takes place in December.
- **Winter Carnival**
  - A lively event that celebrates winter with music, art, and entertainment.
- **Spring Celebration**
  - A festival that marks the beginning of spring, with performances and cultural activities.
- **Autumn Festival**
  - A gathering that celebrates the changing leaves and harvest season.

These events and activities emphasize the importance of the seasons beyond the traditional summer, highlighting the diversity and richness of the natural environment throughout the year.
User Issues

The management of carbon

and training

7.1 User manuals
And then support the users

Only then be clever

Do it well

Keep it simple

(And then support the users)

(Only then be clever)

(Do it well)

(Keep it simple)