Architype

- Team of 100+ across 3 studios
- 35+ years of exemplary sustainability leadership
- Committed to the research and development of a zero carbon future
- Multi disciplinary team, partnering with Higher Education and industry specialists to influence policy direction

Architype’s studio at Twyford Barn
Retrofitting Estates
Phase 1 – Estate Wide Strategy

400 buildings within the estate:
- Care Homes, Schools, Museum / Gallery, Offices, Stores / Garages / Industrial

Analysis:
- Typologies
- Cost and carbon emissions
- Set targets
Retrofitting Estates
Phase 2 – Pilot Buildings

1. Analysis
   ▪ Deep understanding of fabric and complexities
   ▪ Establish realistic results

2. Construction
   ▪ Ongoing analysis

3. Feedback
   ▪ Into estate wide strategy
Key Challenges
Delivering at scale

- Learn lessons!
- Feedback
- We need tangible, deliverable examples of what can be / should be achieved. And we need to know what’s not working. Promote what you’re doing!
Key Challenges

Delivering at scale

Knowledge share!
- Most buildings are different
- We need people who can apply their knowledge / experience to lots of types of buildings
- Too reliant on a few experts
- Share knowledge!!
Arbor Architects

• Based in Hereford

• Delivering low carbon new build projects – Passivhaus

• Retrofit and heritage projects

• Committed to reducing the performance gap and delivering low carbon and healthy buildings
Key Retrofit Skills

Working with Contractors

Collaboration and Communication

- Team work
- Planning, implementing, problem solving, commissioning and monitoring
- Engagement with resident
Key Retrofit Skills

Working with contractors

- Obsession with the details!
- Focus on performance targets
- Continuity of insulation
- Meeting airtightness targets
- Ventilation e.g. MVHR
Key Retrofit Skills

Working with contractors

Planning and Sequencing

- Complex construction works – often phased
- Multiple suppliers (often not local - long lead times)
- Avoid abortive work and costly mistakes
Key Retrofit Skills

Working with contractors

Knowledge of Materials

- Understanding of materials specified
- Skills to apply them e.g. lime plastering
- Ability to procure them to programme
Key Retrofit Skills

Working with contractors

Services

- Work with suppliers willing to engage in design process
- Consider how services interact and integrate
- Simple controls
- Good handover critical