

Avanti is an approach

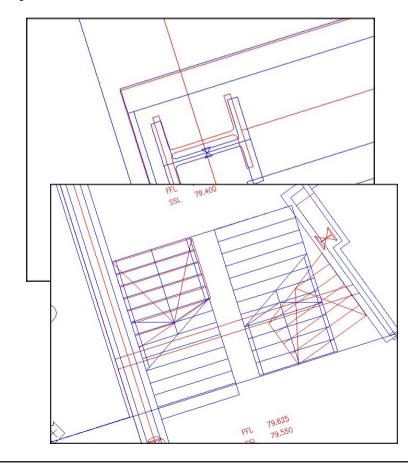
 An approach to collaborative working that enables construction project partners to work together effectively.

The Avanti approach is supported by handbooks, toolkits and

on-site mentoring.

 The Avanti approach improves business performance, by increasing quality of information and predictability of outcomes and by reducing risk and waste.

 Avanti is not an IT system or tool, nor an organisation or club.



Who has had experience of the Avanti approach?



Buro Happold







































1 hbg



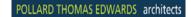










































GABLE

































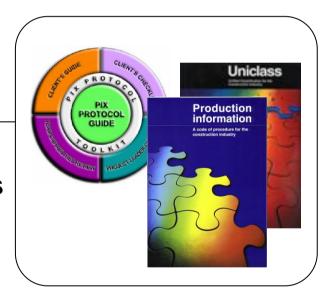




How did the approach come about?

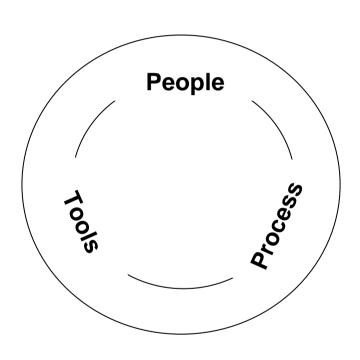
- An industry led improvement programme which brought together leading players in the UK.
- Government support from the dti
- Builds upon existing industry approaches
- Aim: to deliver improved project and business performance through the use of Information & Communication Technology (ICT) to support collaborative working.
- Now led and driven by





3 aspects of the Avanti approach

- Getting people to work together
- Providing processes to enable collaboration
- Applying tools to support collaborative working



The route to integrated projects

	Increasing levels of collaboration, process alignment and technical capability		
People: team integration	Separate black box organisations	Co-ordinated project teams	Fully integrated project teams
Process: compatible approaches	Sequential, independent project processes	Co-ordinated project processes	Concurrent project processes
Tools: technical capability	Exchange of paper, 2-D design representation	Simple 3-D design representation	Information-rich object modelling

Source: Building Design Partnership - modified

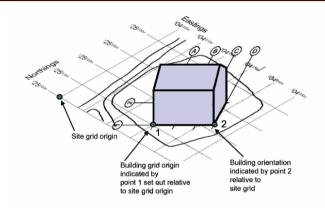
Principles of the Avanti approach

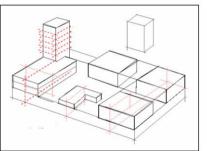
Information Standards

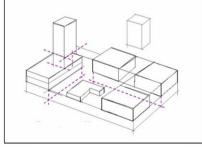
- Compatibility of information
- Accuracy of information
- Information structure
- Status, purpose and revision
- Information sharing

Design Process Management

- Roles & responsibilities
- Information planning
- Performance and resource monitoring
- Interface management
- Managing changes to information
- Information review, checking and approval







Fire Compartment zones

Movement/Expansion joints generate



How is the approach delivered?

1. Guidance & procedures



2. Expert facilitation& mentoring

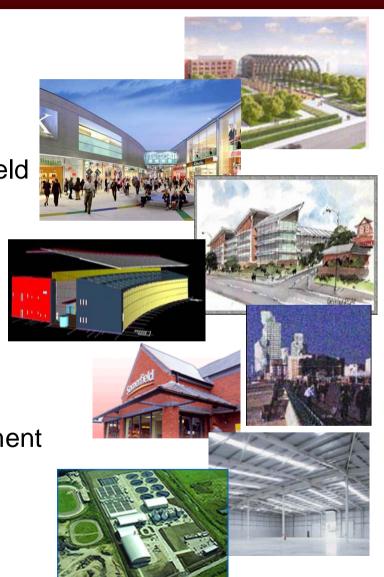




Avanti Projects

Over 30 projects, including:

- Farnborough business park
- PalaceXchange retail development, Enfield
- St Helens & Knowsley Hospitals
- Thames Water design framework
- Redhill community centre
- St Alfred Centre, Hove
- Voyager Park, Portsmouth
- Welsh Health Estates framework agreement
- Somerfield store, Kenilworth



Impacts of the Avanti approach

- Early commitment shown to offer 80% saving on implementation cost on medium size project
- 50-85% saving on effort spent receiving information and formatting for reuse
- 60-80% saving on effort spent finding information and documents
- 75–80% saving in effort to achieve design co-ordination
- 50% saving on time spent to assess tenders and award sub-contracts
- 50% saving on effort in sub-contractor design approval

Some specific impacts

- Full compliance with the Avanti approach shown to save equivalent of one full-time CAD technician
- Rigid compliance with the Avanti approach shown to have potential to save >£88K by removing design rework
- Time saving in preparing information for issue: shown to be 20 man-weeks in just one area of a medium size project
- Savings calculated at £500K in remedial works avoided through use of the Avanti approach



Avanti Success Stories























- Halcrow implement elements of the approach in their construction business.
- Costain put in place training programme for their Design Managers and implement the approach on further projects.
- Reid Architecture implement the approach on their projects.
- Capita Symonds put in place programme to adopt the approach company-wide.
- Taylor Woodrow start to roll out the Avanti approach on Schools projects.
- Thames Water roll out the approach into their eight design framework partners.
- The Avanti approach features in architect's training at Oxford Brookes University.
- Welsh Health Estates encourages bidders on its 'Designed for Life: Building for Wales' framework programme to adopt the Avanti approach.
- RICS preparing training in the Avanti approach for its members.
- A community of industry practitioners comes together to share experiences.
- DTI rate the development and implementation of the Avanti approach sufficiently highly that they provide further funding to put a new business model in place.