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.





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 co capability	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



How is the approach delivered?

1. Guidance & procedures



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

COSTAIN

CAPITA SYMONDS

Taylor Woodrow

Thame Wate

🐼 RICS

dti

WELSH HEALTH ESTATES YSTADAU IECHYD CYMRU

architecture

- 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.