

# 'HS2 – Challenges and Opportunities'

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## Key Points:

- This Joint Venture (JV) has been formed to deliver the Area North Enabling Works for Phase 1 of HS2.
- Both companies have world-wide reputations in their respective fields. Their complementary strengths combine innovative construction and international best practice to provide industry excellence to the project.
- Their commitments and values: Integrity, Leadership, Strength and Safety.
- Specific skill sets of employees will ensure enabling works will be delivered on time, on budget and with care and consideration for the environment and all those communities impacted by the works.
- HS2 have pledged to establish innovative ways of working and design out health risks and hazards during construction, operation and maintenance. (In compliance with Regulations 9 and 10 of Managing Health and Safety in Construction.)
- Where this is not possible they will identify alternative materials, work methods, equipment and resources to minimise impact.
- The JV will use BIM (Building Information Modelling) – a 3D process to assist architects, engineers and construction professionals to identify/mitigate risks.
- DFMA (Design for Manufacture and Assembly) considers alternative construction methods such as the pre-fabrication of units off-site to avoid the manual handling hazards associated with on-site assembly. (It has often been the case that designers have failed to consider how workers will achieve their designs, for example how a large window will be safely installed into their building and thereafter maintained.)
- They will review traditional processes and consider the use of machinery and alternative methods in order to eliminate, so far as is reasonably practicable, risks to health – eg removing the need to work at height or come into direct contact with wood or silica dust.
- Hazard identification workshops are now held at the start of each project covering a designer's risk assessment associated with construction, maintenance and demolition of a structure..