OVERVIEW: High Speed Two (HS2) Limited, (the contracting entity), are looking to put into place a contract via the Technology Services 2 framework for a requirement to create and maintain a digital, (virtual) representation of the railway, to support the production of its Physical Asset and ongoing operation.

The procurement scope will include the requirement for the “Virtual Railway” to be created progressively throughout the term of the agreement and shall comprise of an add-on to the existing Common Data Environment (CDE) in which high quality, reliable and accurate graphical and non-graphical data is collected, maintained and made available to appropriate, secure, role-based, user-focused interfaces and Integration and Visualisation Services to provide interactive, integrated access to the information collected to support key business decisions during capital delivery and operations and inform optimal usage and maintenance strategies.

The solution will be an integrated (including 2-D and 3-D representation of the railway system) digital characterisation of the physical railway that will enable HS2 Ltd to benefit from advances in software, network infrastructure, cloud computing and internet security to deliver cloud based visualisation services and provide robust, innovative and extensible capabilities that can handle the complexity and scale of HS2’s large estate and asset portfolio.

The services will be cloud-based to ensure a high-level of flexibility, scalability and collaboration while minimising maintenance management effort and costs.

The Integration and Visualisation Services implementation should be based on proven implementations of similar technology carried out by the successful Tenderer previously. The successful Tenderer should also be able to provide demonstrations of those implementations and show standard implementation methodologies for cloud services.

CONTRACT TERM: The contract will be for a total of up to sixty (60) months. The initial term of the contract will be thirty six (36) months plus options to extend up to a total duration, including the initial term, of sixty (60) months. . Please note: HS2 can only commit to the first thirty six (36) months at the time of this notice. Subject to further validation by HS2 of value for money in preparation for the end of the initial term HS2 may choose to remain a Contracting Entity or may choose to let an alternative contract opportunity at that time.

Suppliers are invited to confirm an expression of interest in bidding for this requirement by email to the HS2 IT Procurement Manager at [stephen.mann@hs2.org.uk](mailto:stephen.mann@hs2.org.uk) .

The deadline for suppliers who wish to submit an expression of interest is 17.00 on 20.02.2017.