

Digital Transformation For The Reinforcing Steel Supply Chain

Lee Brankley¹

Ladin Camci¹, Ayhan Tugrul¹ and Andrew Woolnough¹

¹ CARES

Globalisation has triggered an intensification of organisational competitiveness spurred on by the volatility of market demands; shortened innovation spans; reduced product life cycles, and increasing complexity in the range of products entering the market and the processes driving their development.

Digitalisation is not simply the transfer of documents from analogue to digital data, but represents a fundamental transformation in core business processes enabling the creation of efficient interfaces and fully integrated data exchange and management.

The future of the global construction and steel industries is digital and the pace of change towards this future is accelerating. It follows that digital transformation is one of the core elements of an ongoing industrial revolution.

This paper describes CARES' approach to Digital Transformation covering all stages in the reinforcing steel supply chain from receipt of raw materials, on to the manufacture and processing of steel products through to delivery to the end user. CARES digital solutions are being developed in support of the drive by construction and steel industries towards greater traceability, safety and sustainability. Taken together, these solutions provide critical pieces in the provenance jigsaw through the provision of reliable, easily accessible product information and evidence of assurance.