

Fact sheet: **Accelerated Construction in the Transport sector**

Introduction

Reduced construction time, minimising traffic disruptions, reduced life cycle costs and improved construction quality and safety are potential benefits of Accelerated Construction (AC).

Transport design is an integral part of WSP's history and we continually seek to innovate across the asset life cycle including harnessing the benefits of the AC technique.

One of the key drivers for using AC is to minimise the disruption to the traveling public, however the additional benefits outlined above, allied with the potential for reduced construction and whole of life costs, makes AC an attractive proposition for many roading projects and all bridge structures.

The philosophy is to minimise the on site construction time by maximising the use of precast/off site manufactured elements. In seismic regions like New Zealand, the connections between the precast concrete elements must also be robust enough to maintain their integrity, WSP has implemented AC in NZ for integral connections to mitigate this.

A different approach to construction

AC uses innovative planning, designing, materials and methods in a safe and cost-effective manner. It reduces onsite construction time that occurs when building new, replacing or rehabilitating existing roads and bridges.

AC improves:

- Site constructability
- Total project delivery time
- Material quality and product durability
- Work-zone safety for the traveling public and contractor personnel

AC reduces:

- Community traffic impacts
- Onsite construction time
- Weather-related time delays
- Non-construction related overhead costs

AC can minimise:

- Environmental impacts
- Impacts on existing roadway alignment
- Utility relocations and right-of-way take

To find out more about AC please contact

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