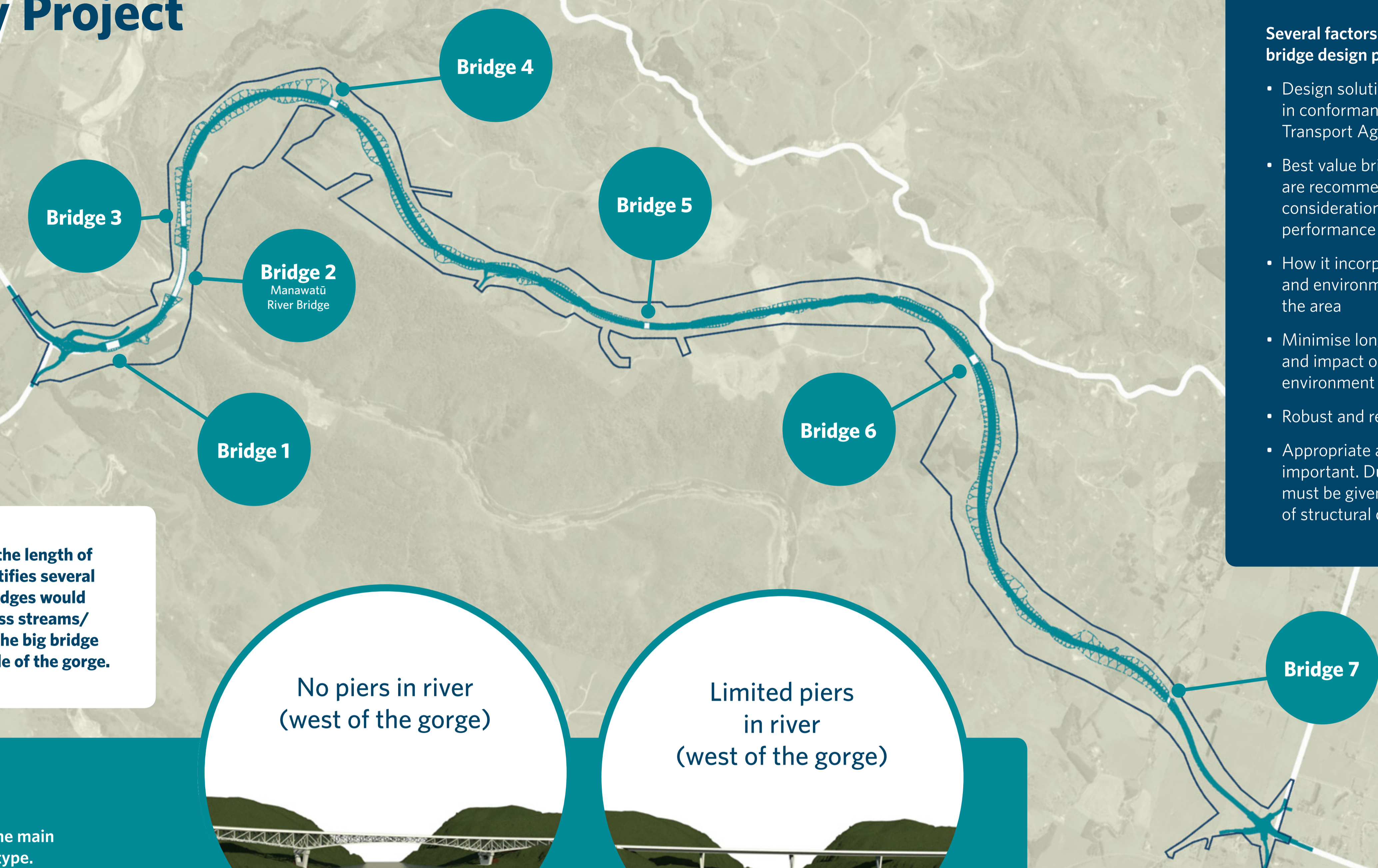


Te Ahu a Turanga: Manawatū Tararua Highway Project Bridges

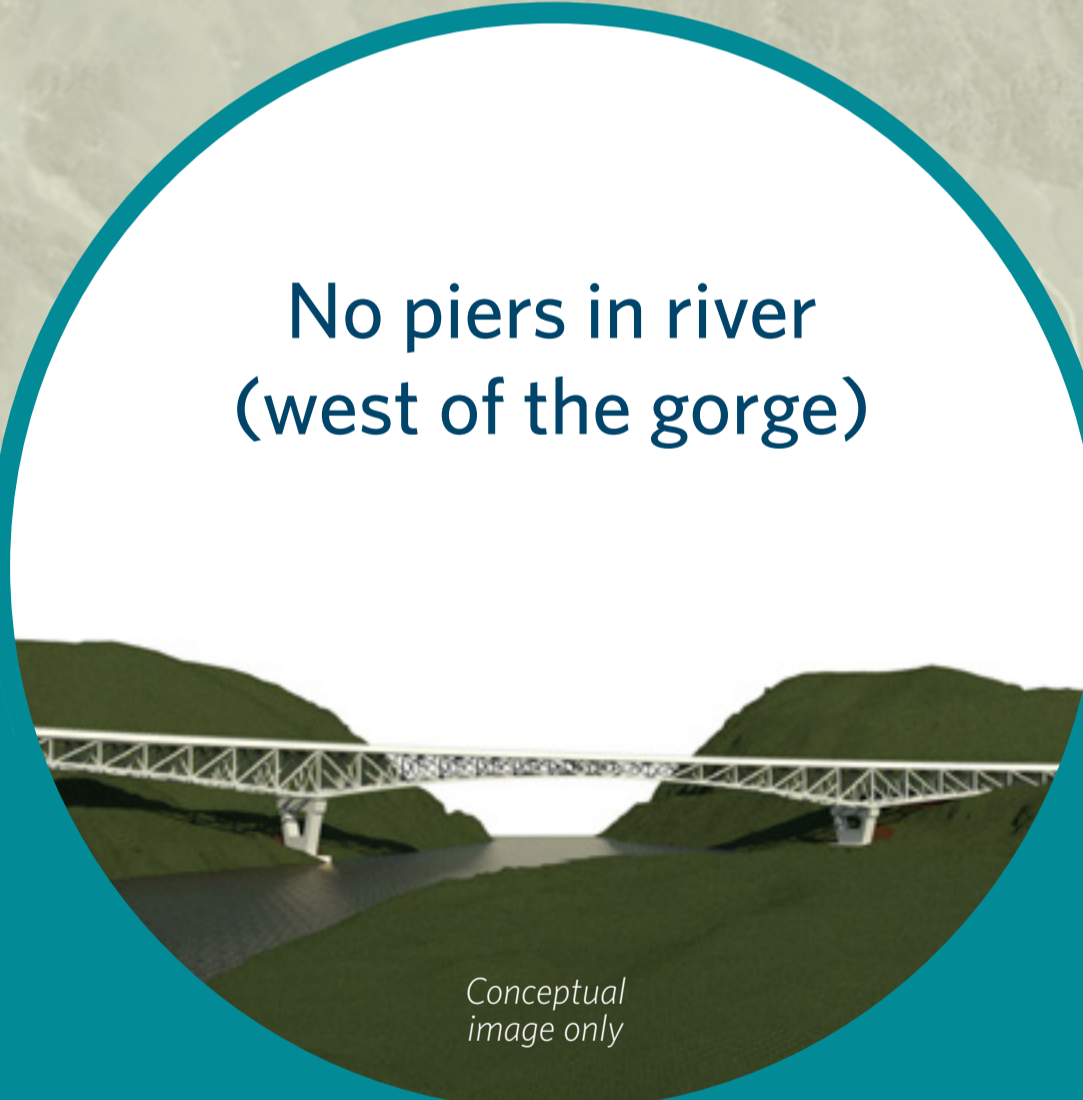


GUIDING PRINCIPLES

Several factors influence our final bridge design principles:

- Design solutions developed in conformance with the NZ Transport Agency Bridge Manual
- Best value bridge solutions are recommended, with due consideration for whole of life performance
- How it incorporates the cultural and environmental context of the area
- Minimise long term maintenance and impact on the surrounding environment
- Robust and resilient designs
- Appropriate aesthetics are important. Due consideration must be given in the development of structural concepts

A number of bridges will be required across the length of the new road. Our indicative alignment identifies several potential bridge locations. Three of these bridges would provide local property access, two would cross streams/gullies and there would be one just north of the big bridge crossing the Manawatū River on the west side of the gorge.



BRIDGE DESIGN

In the initial stages of bridge design, two of the main considerations are span length and material type. The project team uses indicative bridge forms to understand:

- What are the implications on design?
- What are the environmental impacts?
- What are the implications in terms of construction?

Once we commence detailed design, we will be able to determine whether more or less bridging may be required, and whether alternative bridge forms should be developed. We will develop a set of guiding principles and will place the bridge design in the right environmental and cultural context, focusing on what outcomes we are seeking from those perspectives.