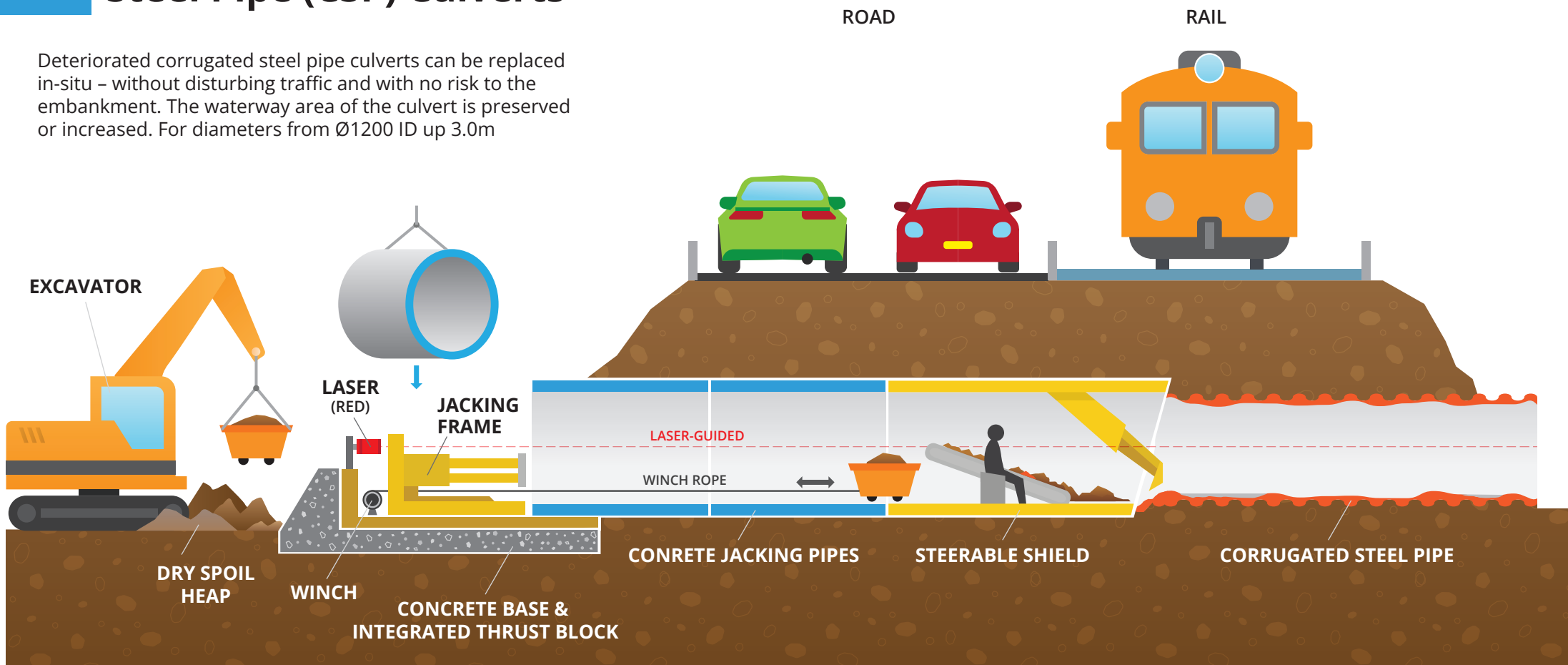


# 1 In-Situ Replacement of Corrugated Steel Pipe (CSP) Culverts

Open Face Pipejacking

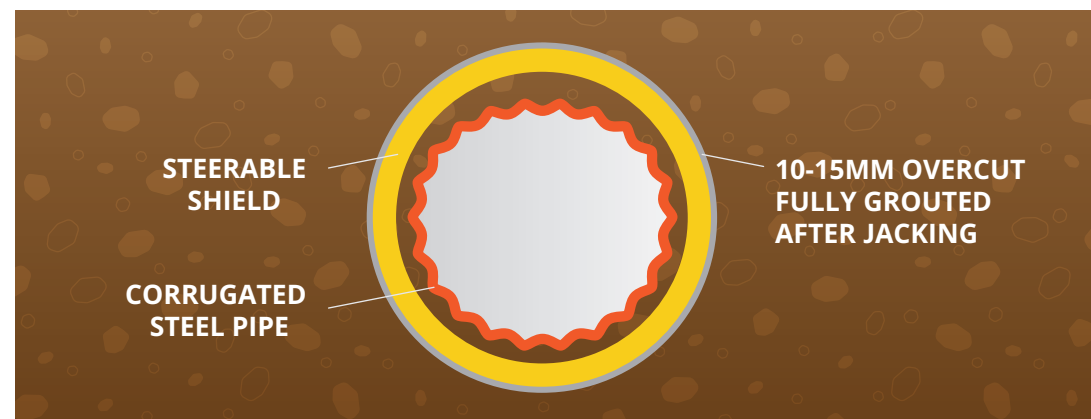
Deteriorated corrugated steel pipe culverts can be replaced in-situ – without disturbing traffic and with no risk to the embankment. The waterway area of the culvert is preserved or increased. For diameters from Ø1200 ID up to 3.0m



## Steerable Shield during pipejacking

The Steerable Shield / RCJP fully encapsulates the CSP, which is progressively removed as jacking proceeds.

The overcut around the RCJP is limited to 10-15mm and is fully grouted after jacking



### Contact:

Scott Wells | 0402 092 759  
scott.wells@pezzimenti.com.au

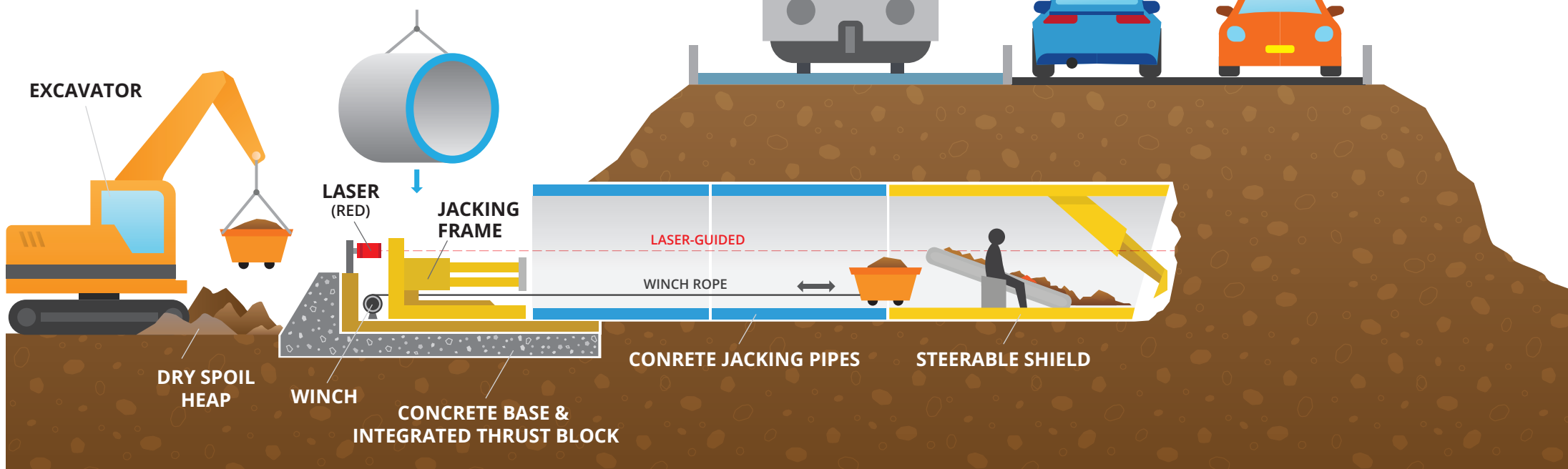
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RCJP's can be installed in a variety of grounds with no disruption to traffic and no risk to the embankment or surface.

## Diameters

Soil, Fill, Soft Rock: Ø1200 – Ø3m

Rock up to 20mPa: Ø1500 – Ø3m



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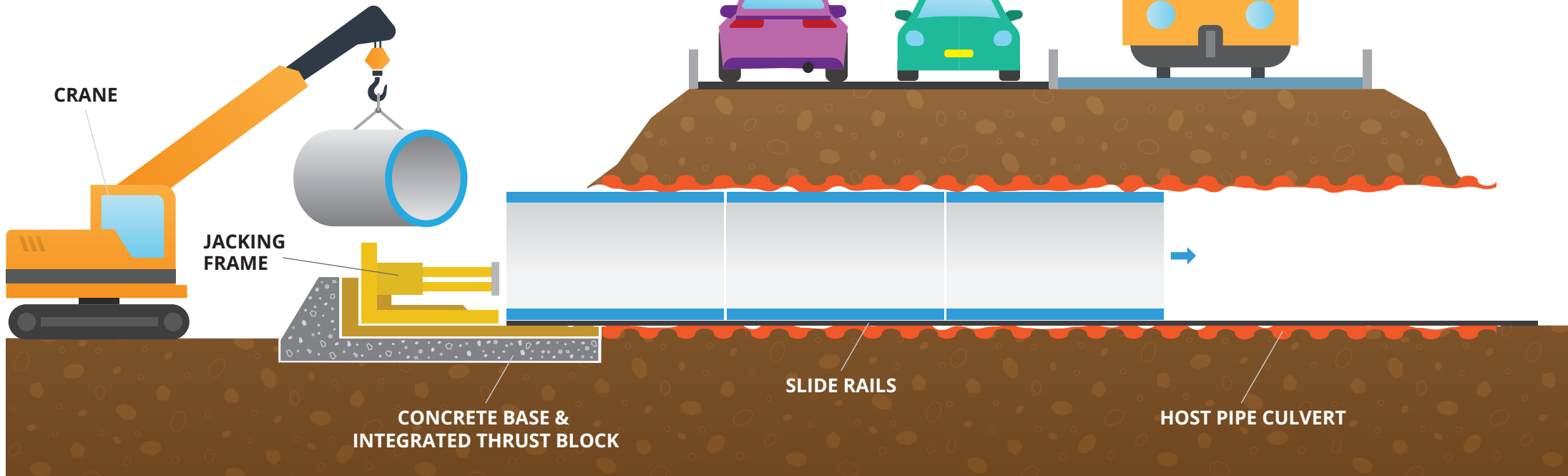
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## Cross section at completion

A RCJP is jacked into position as material is excavated by a mechanical excavator at the face. The undercut of 10-15mm around the RCJP is grouted after jacking



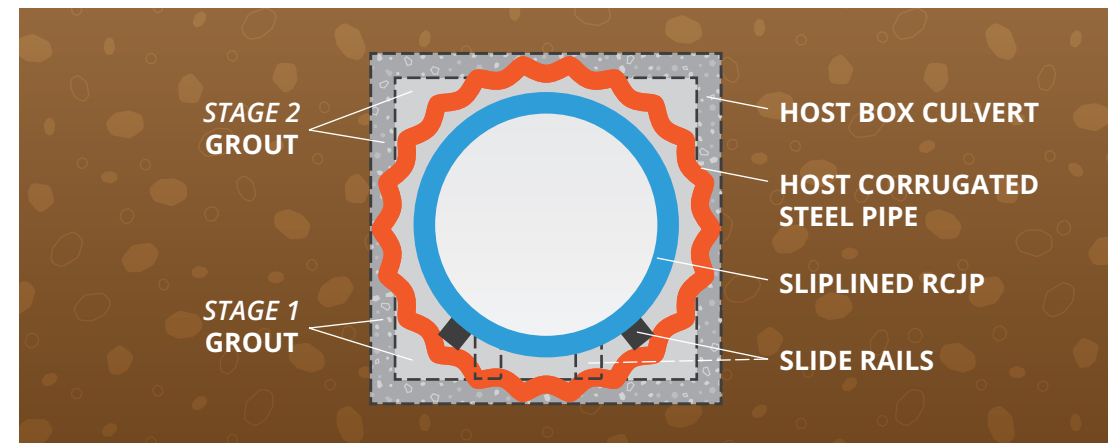
In practice, most pipes can be sliplined into a host pipe. Shown below are large diameter RCJP being sliplined into a deteriorated host pipe. The waterway area of a new sliplined pipe is always less than the original pipe. Often on projects, a new installation or CSP renewal is used to augment a sliplined pipe to maintain waterway area.



### Cross Section

A detailed survey is required to determine the maximum pipe which can be sliplined. Shown here is an RCJP being sliplined into a CSP and, alternatively, a box culvert.

Slide rails, accurately placed ensure accurate carrier pipe positioning. Grouting between the carrier pipe and host pipe is completed after sliplining.



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scott.wells@pezzimenti.com.au

pezzimenti.com.au