

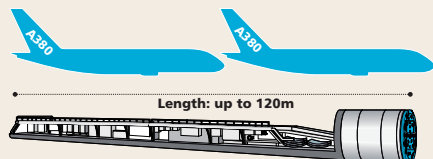
Surface level

5 tunnel boring machines (TBMs), including one specialised TBM for tunnelling under Sydney Harbour
15.5 kilometres of twin tunnels from Chatswood to Sydenham



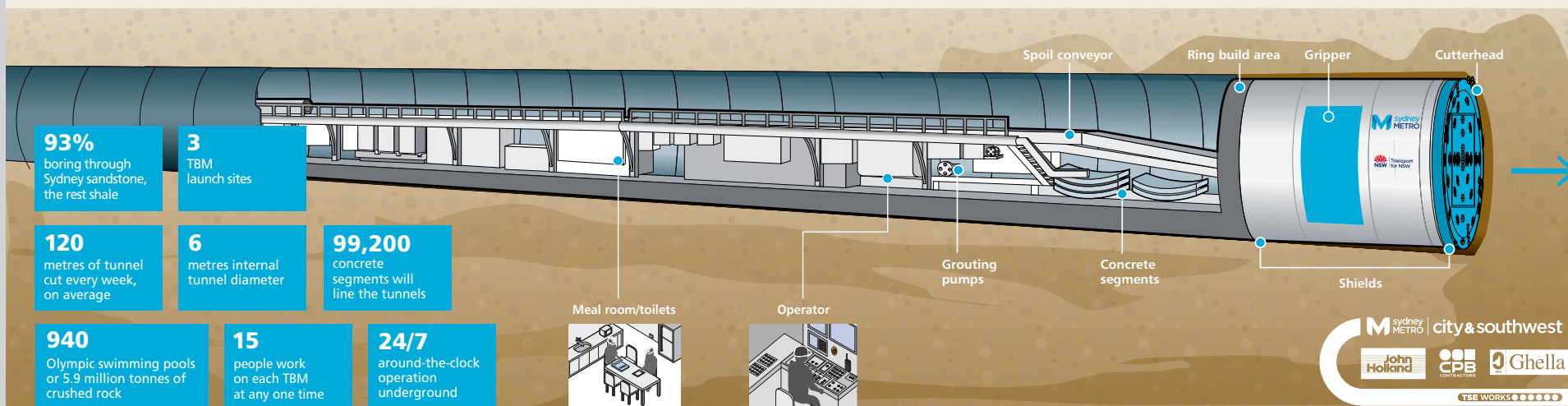
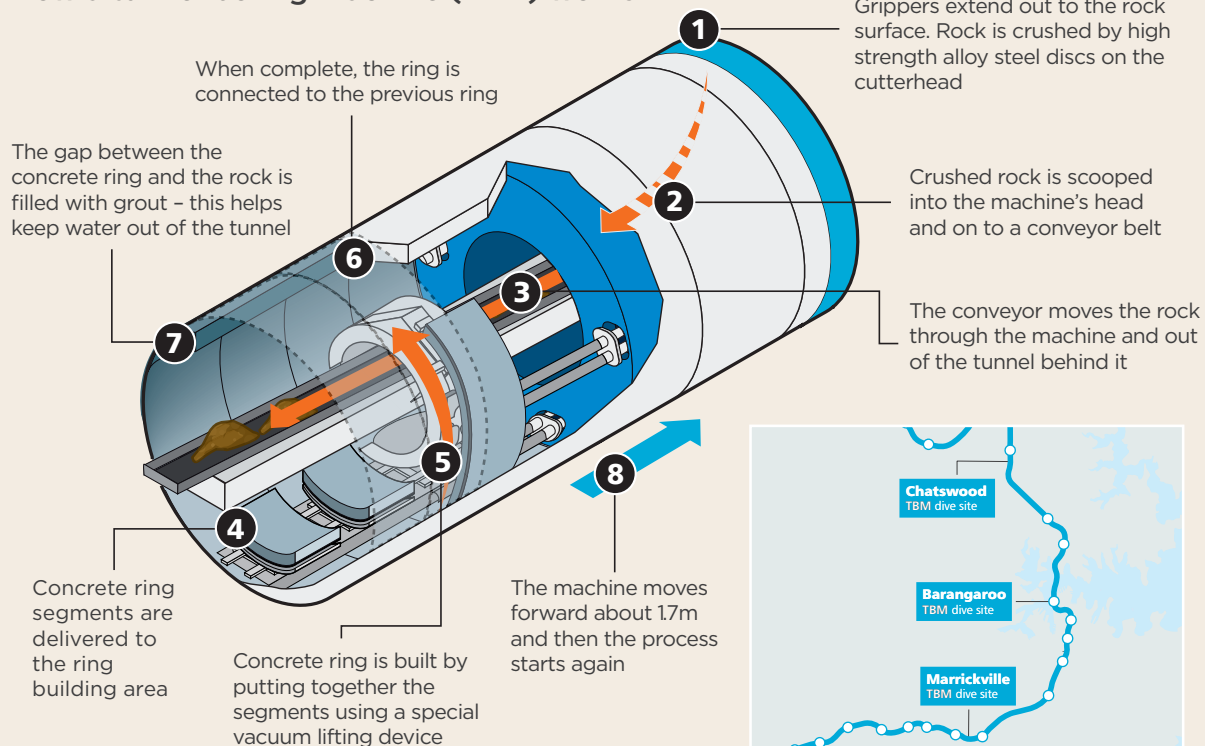
October 2015: Size and scale of a TBM in action at Castle Hill

HOW BIG IS IT?



>900 tonnes weight
= 570 Holden Commodores

How a tunnel boring machine (TBM) works



35 metres
Average tunnel depth



58 metres
Maximum tunnel depth

Specialised tunnelling technology

A slurry TBM will be used to tunnel through different ground conditions under Sydney Harbour.

The slurry TBM uses pipes and fluid to control the pressure in the machine, by turning the excavated material into a slurry and pumping it out.

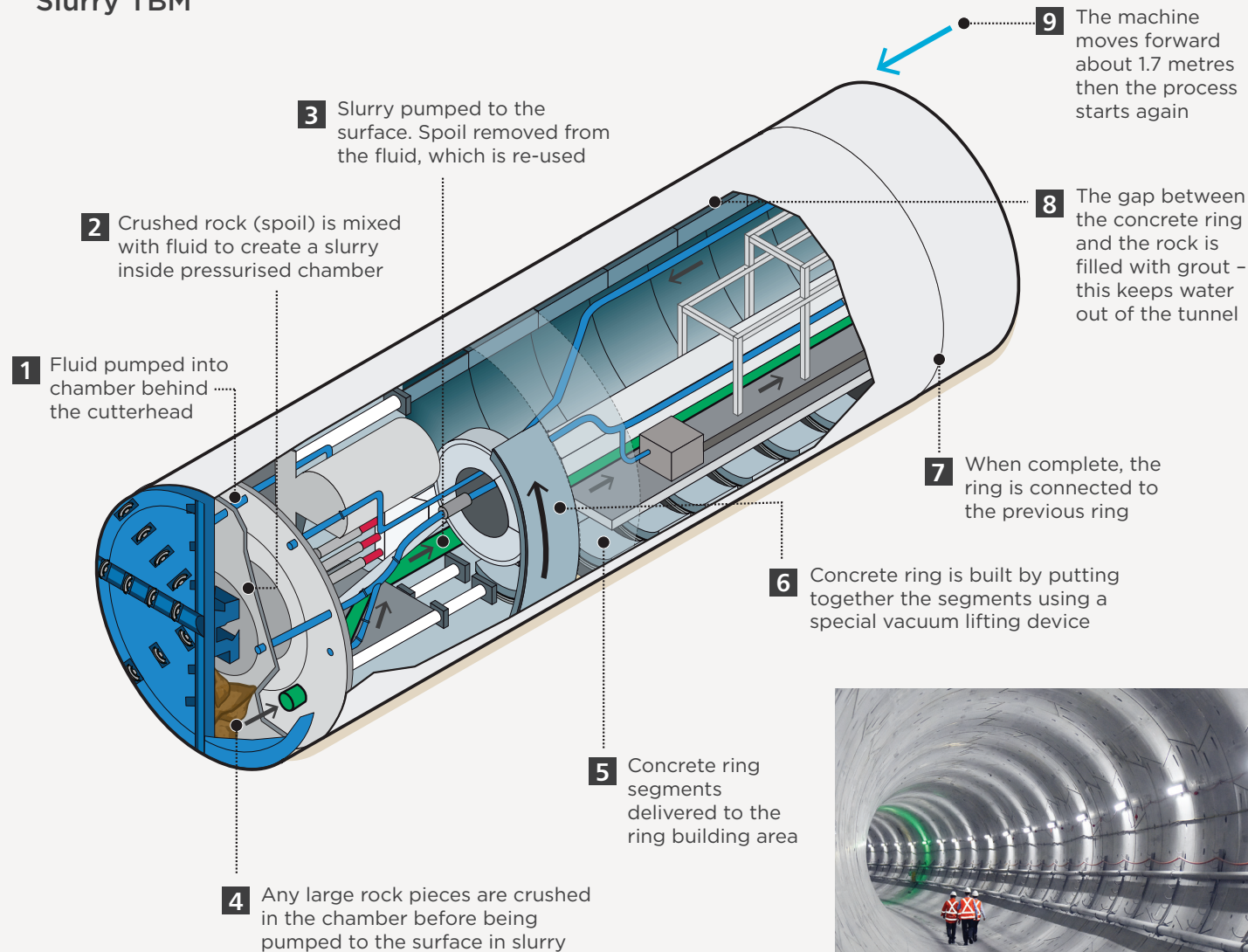


Tunnelling under Sydney Harbour



Inside TBM4 Maria, January 2015

Slurry TBM



The finished Sydney Metro Northwest tunnels

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