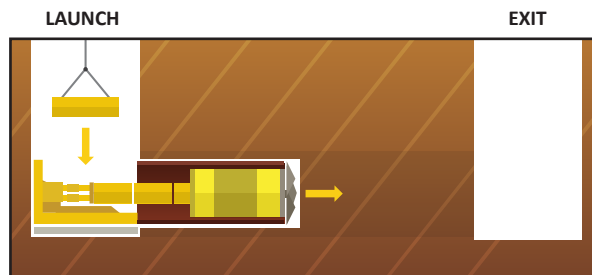
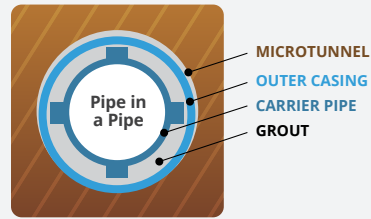
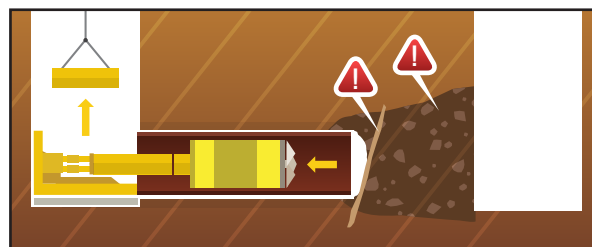


Using a retractable head for the
Pipe in a Pipe Bore Section with a
temporary outer casing.



Microtunnel

Head is inside front sleeve



Forward Progress Stopped

- Obstruction encountered
- Change of Ground
- Head Failure

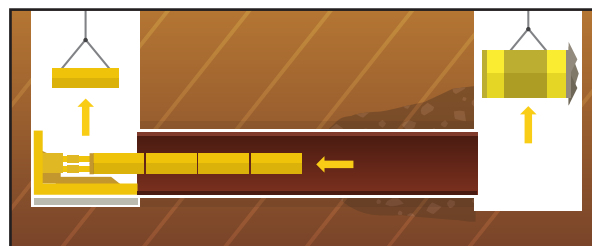
Head retracts while steel casings remain in place



Situation Remedied

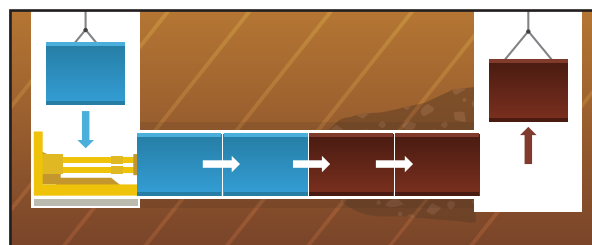
- Obstruction removed
- Cutters replaces
- Head Repaired

Head pushed back to the face and microtunnelling recommenced.



Complete the Bore

To the exit Shaft and remove the head **OR** retract the head back to the launch shaft. Outer casing is now in place.



Recycle Outer Casing Through

The permanent outer casing pipes are jacked in to replace the temporary outer casings, e.g. temporary steel casings are replaced by concrete pipes under a railway line



Slipline the Carrier Pipe

Carrier Pipe is Sliplined into the outer casing.