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Re-usable Pile

Revolutionising construction
with sustainability at our core



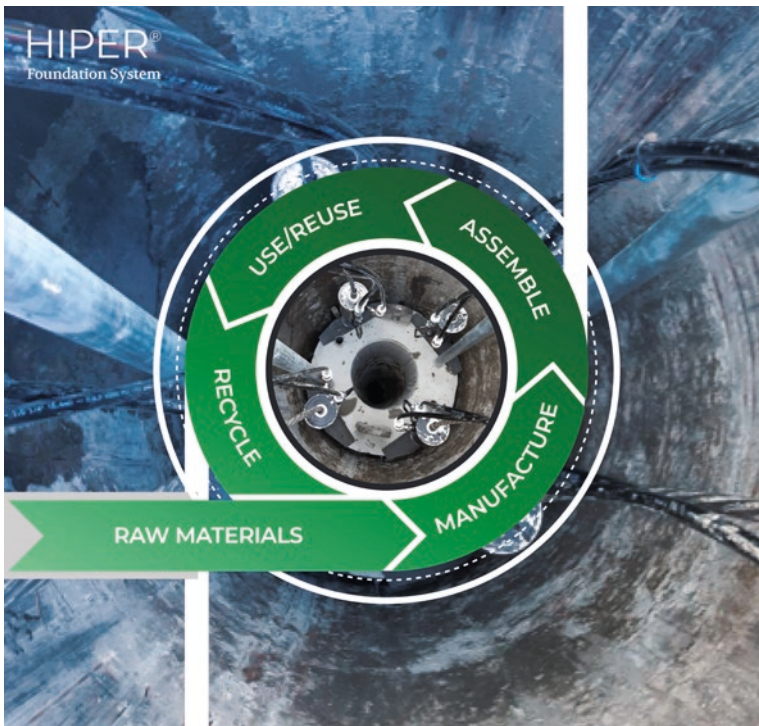
Redefining sustainable construction

Re-usable Pile

Reused and Redefined

Revolutionising construction with sustainability at our core

Hiperpile's align with circular economy principles to support the reuse of foundations beneath new and renovated structures.



Existing piles on heavily redeveloped brownfield sites are frequently removed to allow the construction of larger, deeper piled foundations.

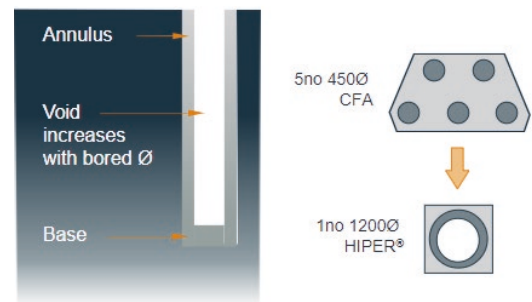
The Hiperpile's unique void allows the pile to be inspected, monitored and structurally validated. This information allows the Hiperpile to be re-warranted, enabling practical reuse and preserving the foundation at its highest value.

Technical benefits and features

- Eliminates any future requirement to remove the Hiperpile, owing to its unique ability to be inspected and re-warranted
- Eliminates the requirement for supplementary additional piles with the Hiperpile's unique ability to be extended
- If required, additional structural capacity can be achieved by in-filling the void
- Enables the uptake of standardised building grid-layouts in future developments

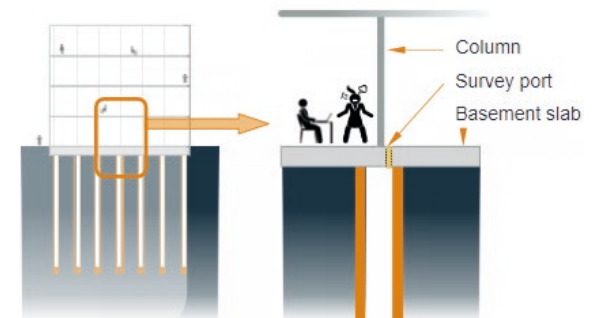
Construction Phase:

- 30-70% material reduction
- Larger, shallow mono-hollow piles
- Elimination or reduction of pile caps



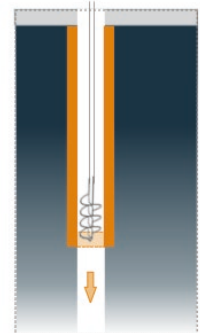
Decommissioning Phase:

- Inspection during occupancy
- Assessment for re-use early in project cycle



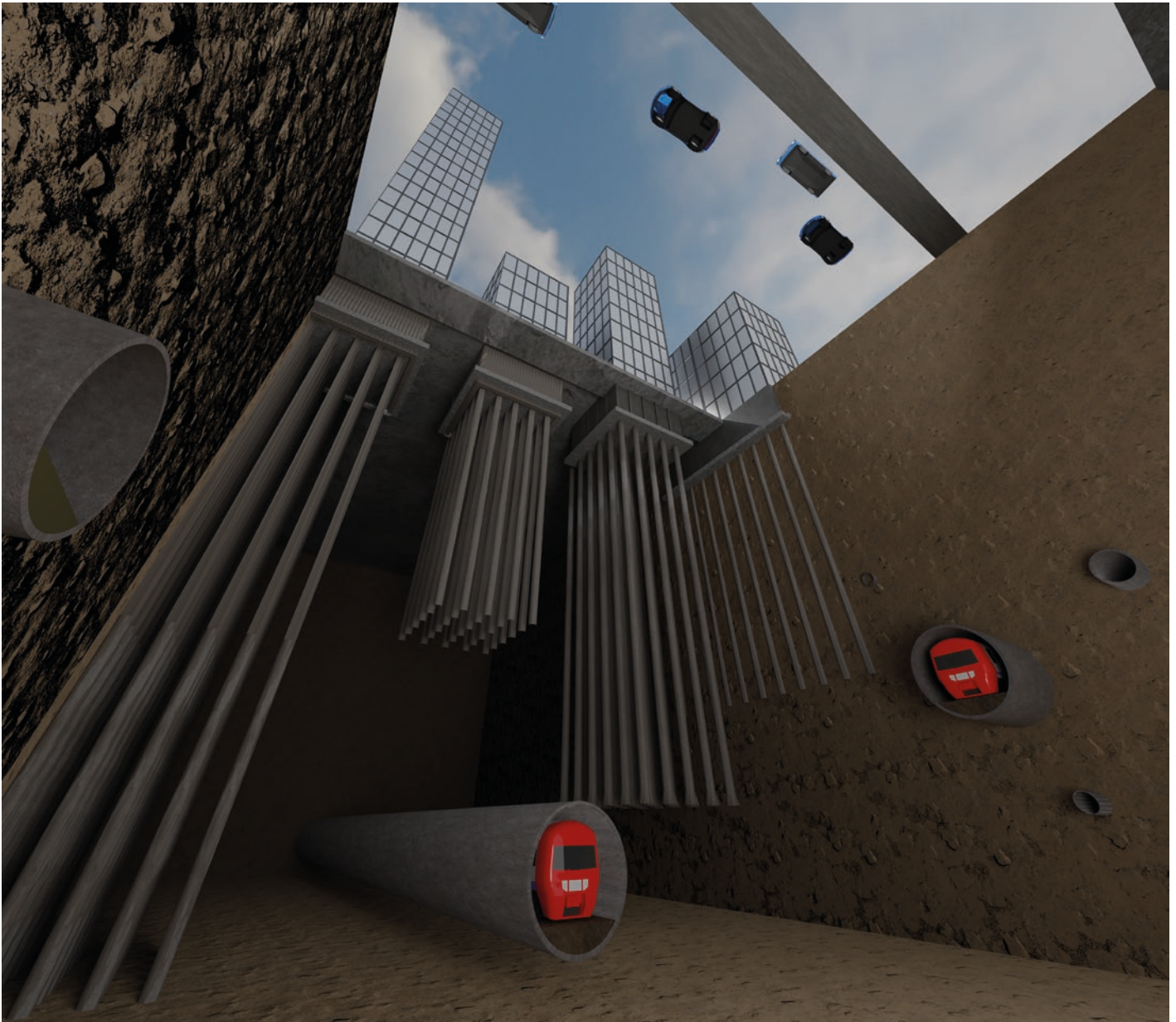
Reuse:

- Extend for higher future loads
- A circular economy foundation
- A circular economy



Tangible benefits

- A product that supports circular construction and contributes to a long-term reduction in embodied carbon
- Life-cycle extension and whole life carbon reduction
- Eliminate costly and disruptive coring activities associate with traditional solid pile removal
- In-situ pile monitoring supports the application for re-use warranties



In summary

Hiperpile truly redefines piled foundations as long-term, building assets.

The value provided is multiplied through its multifunctional use, reuse and potential for enhanced capacity for future generations.

Hiperpile is a practical readily available foundation solution which enables a carbon negative, climate positive future.



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