



SOLUTIONS SANS TRANCHÉE POUR LA RÉHABILITATION DES TUYAUX

KAARLO BERGDAHL, PICOTE SOLUTIONS OY LTD



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TRENCHLESS SOLUTIONS
FOR
PIPE REHABILITATION

Kaarlo Bergdahl
Picote Solutions



2026

TRENCHLESS
MOROCCO

Picote Solutions Oy Ltd



- Globally active manufacturer of machines and tools for trenchless pipe rehabilitation DN32 - DN300
- Headquarters, Training Centre and production in Finland, additional locations in the UK and USA
- Since 2008 experience as an in-house rehabilitation specialist in Finland
- More than 250 patents
- ISTT Product of the Year Award for Smart Cutter™ at No Dig Show Brazil.



Pipe preparation – High-Speed Cleaning

- Blockages
- Greases, oils and lubricants
- Soft deposits
- Incrustations, corrosion



Cementitious Removal - Thames Water, London, UK 2025

Client – Thames Water

Main Contractor – Lanes For Drains

Technical Support – Picote Solutions (UK)

- Pipe Diameter **DN150** (6")
- Manhole access at both ends
- MH71H downstream to MH71C
- Distance between manholes **27m** (88 ft)
- **22m** (72 ft) of cementitious compound running downstream from MH71H
- Removal rate **0.5 - 1.5m/h**
- Project duration **3 days**



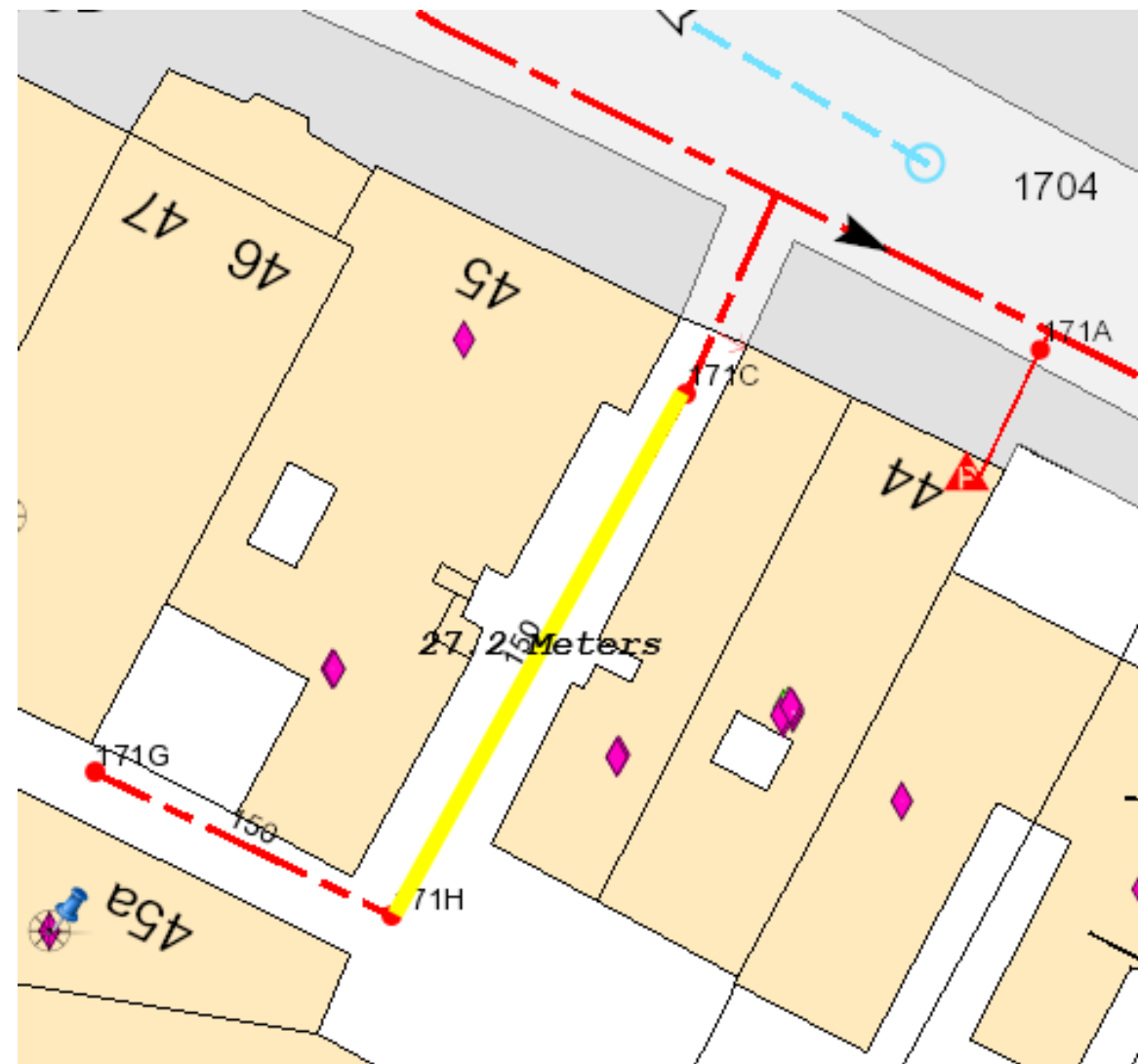
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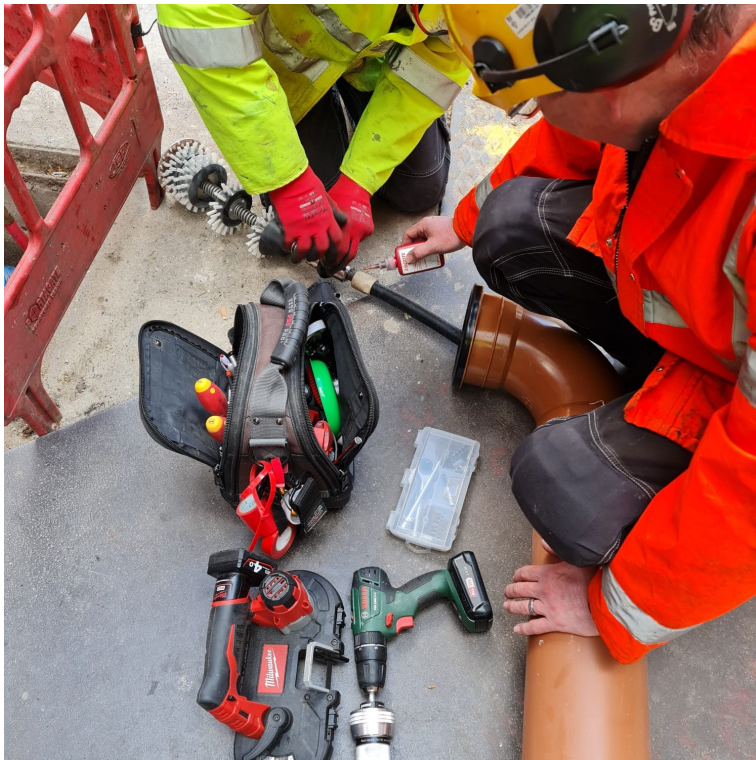
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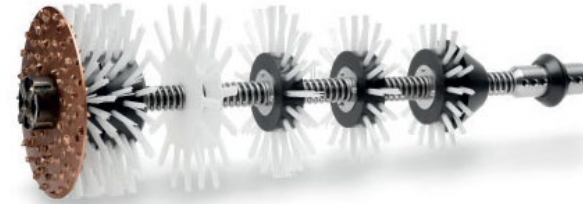
Cementitious Removal - Thames Water, London, UK 2025

Power+ in Action



Cementitious Removal - Thames Water, London, UK 2025

Selection of Loose Debris Removed



Cementitious Removal - Thames Water, London, UK 2025

CCTV Check



Cementitious Removal - Thames Water, London, UK 2025

Post CCTV Footage



Trenchless pipe rehabilitation - Possible procedures

Key factors

- Pipe material
- Diameter
- Pipe condition
- Accessibility
- Damage pattern



• **Brush Coating**

• **Lining**



• **Flexi-Sliplining**



• **Connection Collar System**



Picote Flexi Sliplining



Carcassonne , France

Picote Flexi-Sliplining Under Railway Lines

Trenchless Repair
Gare de Carcassonne
Read on for more details!

Flexi Sliplining Project Carcassonne, France 2025

ATTENTION PILE
OF CONCRETE
IN THE BOTTOM



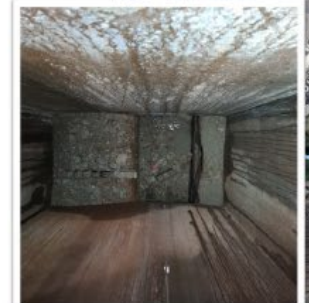
If sliplining outlet >> access to be
created 1000*1000 or DN1000
Preferred solution

SI DEPART DE GAINE >> ACCES A CREER
1000*1000 OU DN1000
SOLUTION A PRIVILEGIER



If sliplining outlet >>
enlargement to DN1000
or 1000*10000

LINE >> AGRANDISSEMENT
000 ou 1000*1000



Sliplining outlet >>
enlargement to DN1000
or 1000*10000

DEPART DE GAINE >> AGRANDISSEMENT EN
DN 1000 ou 1000*1000



Flexi Sliplining Project Carcassonne, France 2025

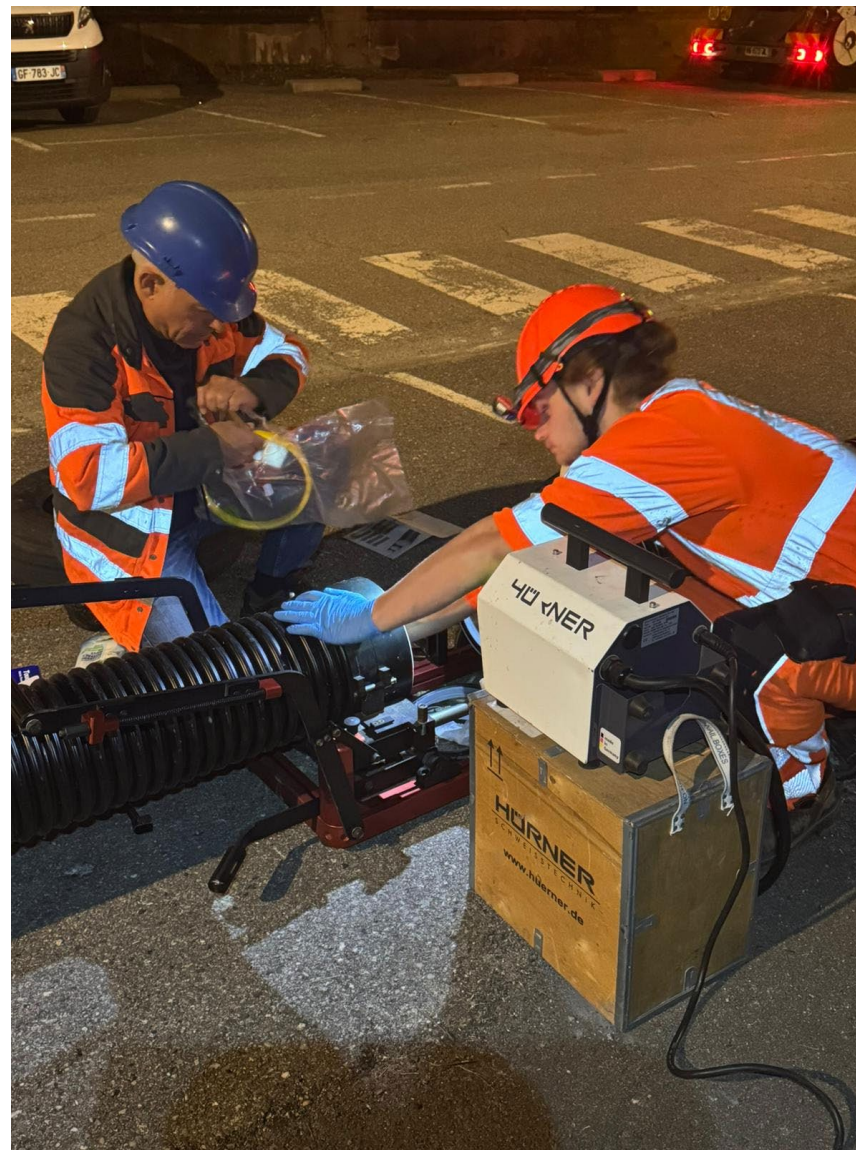
- October 2025
- 3x culverts/ducts, uneven surfaces, under multiple railway lines
- 3 nights
- 3 Flexi-pipes DN 235
9m, 31m, 32m
delivered in 6m lengths
- Welded on site
- Work carried out with Robocana and DPSM for SNCF



Flexi Sliplining Project Carcassonne, France 2025

Welding on site

- Access granted by 9:30 p.m.
- The pipe arrived at around midnight
- Installation equipment delivered on one pallet
- By 12:30 p.m. the first weld was underway just half an hour after delivery
- 6 minutes per weld + 5 minutes cooling time



Flexi Sliplining Project Carcassonne, France 2025



Flexi Sliplining Project Carcassonne, France 2025

- Access: 10:30 p.m - 4:00 a.m. at resume of train services
- Beneath two active railway lines
- First pipe in place by 1:27 a.m.
- Second pipe, 31m just 1,5h
- 3:00 a.m. installed beneath 6 active tracks and 2 double sided platforms
- Installation completed for the first trains at 4 a.m.

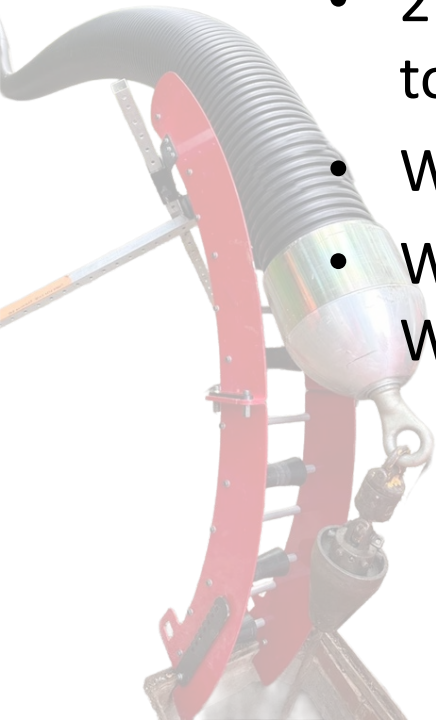


Flexi Sliplining Project Beaulieu, UK 2025



Flexi Sliplining Project Beaulieu, UK 2024

- April 2024
- 2x 80m severely corroded pipes running under a river
- 3 days
- 2 Flexi-pipes DN140 totalling 160m
- Welded on site
- Work carried out with Southern Water and Cappagh Brown



Flexi Sliplining Project Beaulieu, UK 2025





PICOTE

LIFE FOR PIPES

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