Latest Developments in Trenchless Technologies – an overview

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1. Iranian-German Water Partnership-Day 2015
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The German Society for Trenchless Technology is promoting **trenchless technology**, which combines **economic efficiency** and **environmental protection**.

This modern approach for installing underground supply lines can be utilized for **drinking water, wastewater, gas, heating, telecommunications** or **electricity lines**.

This **modern technology** that has been **proven** and **tested worldwide for 30 years**.

Together with international partners, GSTT is continuously working on advancing the science and the practice of trenchless technology for the public and environmental benefit.

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The trenchless pipe construction offers **technical, economical and ecological opportunities**.

In certain conditions, for example:

- expensive road surfaces,
- soil exchange and
- high groundwater levels,

it can already be more economical to work with trenchless technologies in shallow level situations, than with conventional construction methods.
It is difficult to understand why the **significant advantages of the trenchless technologies**, in cities with difficult space conditions and high density traffic, **are used so little**.

The combined costs of:
- traffic jams,
- pollution of the environment and
- weather related down-times,

are not taken into consideration.
What happens here if a pipeline has to be repaired?

A look into the underground.

A pipework like a spider’s web.
worst case……
….a big trench
….a big building site
…. a lot of traffic jam and environment pollution

...or like this....

NO DIG technologies will be used!

why digging trenches......
..if there are better solutions?!
Concerning of the **short time I have**, it is not possible to explain all these Trenchless methods.

In so far, I mention only 3 important methods:

**For new construction:**
- Microtunnelling (Steerable method)
- Horizontale Directional Drilling (HDD) (Steerable method)

**For Renovation:**
- Cured in Place Lining (CIPP)
Trenchless Technologies have solutions for all geologies

Different machine types according to geological conditions
Trenchless Technologies for all kind of pipeline systems

Microtunnelling (Jobsite layout)
Horizontal Directional Drilling (HDD) (steerable method)

- Pilot Pipe / cutter head with radio transmitter
- radio receiver
- Backbroach (tunnel is supported by the water/bentonite suspension)
- levelled head

Horizontal Directional Drilling (HDD) (steerable method)
CIPP - UV curing technology - 1. pull the liner into the pipe

CIPP - UV curing technology - 2. bring the lamp train into the pipe
CIPP - UV curing technology

Possible up to DN 1300
(and next year up to DN 1500)

We invite you, to visit the NO DIG BERLIN 2017 in conjunction with WATER BERLIN INTERNATIONAL 2017
Here you can see life the newest Trenchless Innovations from Germany

Symposium and Exhibition
24 – 27 March 2015
www.NO DIG BERLIN.com
Berlin Exhibition Grounds

Approx. 500 Visitors will transported with 20 busses to more than 15 sitevisites
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Thank you for your attention

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