

## **DIRECT PIPE - DRILLING REINVENTED FOR UNDERGROUND TRANSPORTATION FACILITIES**

Arkadiusz Szot <sup>\*1</sup>, Szymon Masiulaniec <sup>2</sup>

<sup>1</sup> *Wrocław University of Science and Technology*

\*Corresponding author: [arkadiusz.szot@pwr.edu.pl](mailto:arkadiusz.szot@pwr.edu.pl)

---

**Keywords:** Direct Pipe, drilling, microtunnelling, pipeline

Direct pipe technology was identified as a unique upgrade of trenchless possibilities of underground facilities development. A method of making underground pipes (steel pipelines) according to the covered trenchless method is described. Due to the modernity of the technology and the short time of its use, several investments were presented in Poland, USA and New Zealand. Finally, the advantages of the method compared to similar solutions of trenchless engineering were indicated, as well as the main design areas that affect the correctness of the executed design and ensure no failures during the execution of the cable were discussed.