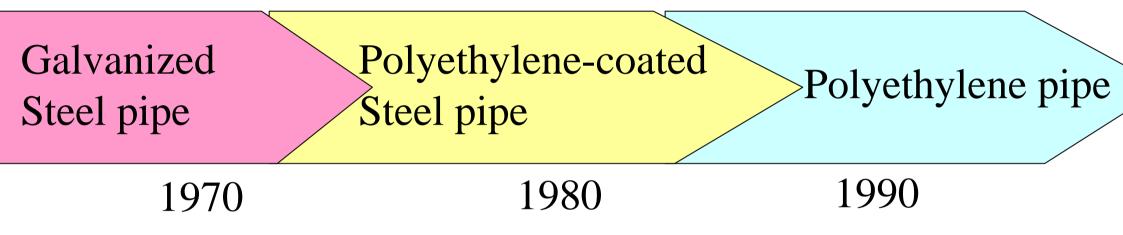
DEVELOPMENT OF BRANCH DRILLING AND CONNECTION DEVICE FOR PLASTIC GAS PIPE INSERTION METHOD

Tashiro The Japan Gas Association (Tokyo Gas Co., Ltd) i Higuchi The Japan Gas Association (Osaka Gas Co., Ltd)

Witana The Japan Cag Aggariation

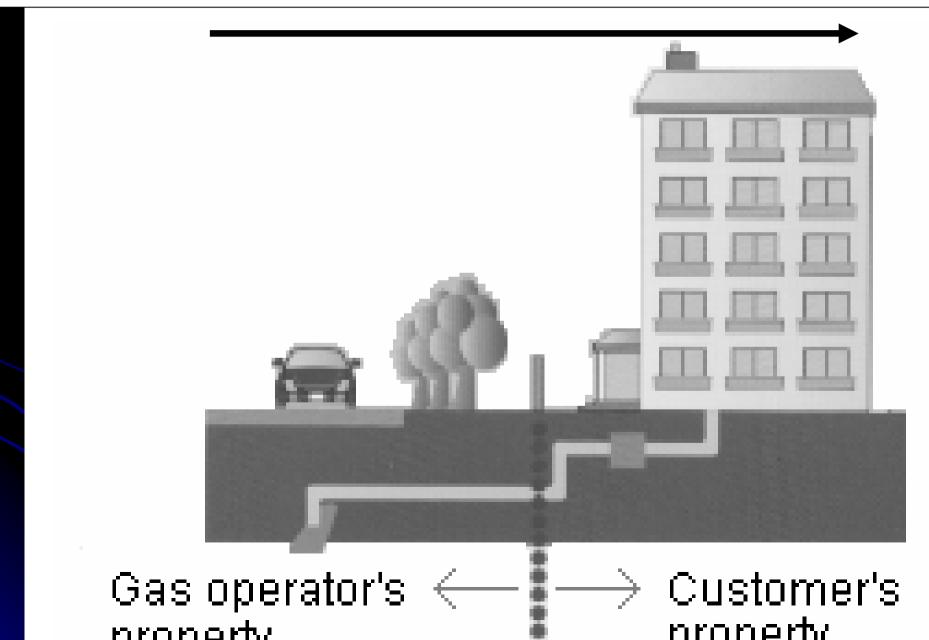
- saki Nose The Japan Gas Association (Toho Gas Co., Ltd)
- uhiro Toyoda The Japan Gas Association (Saibu Gas Co., Ltd

History of Materials for Buried Pipes

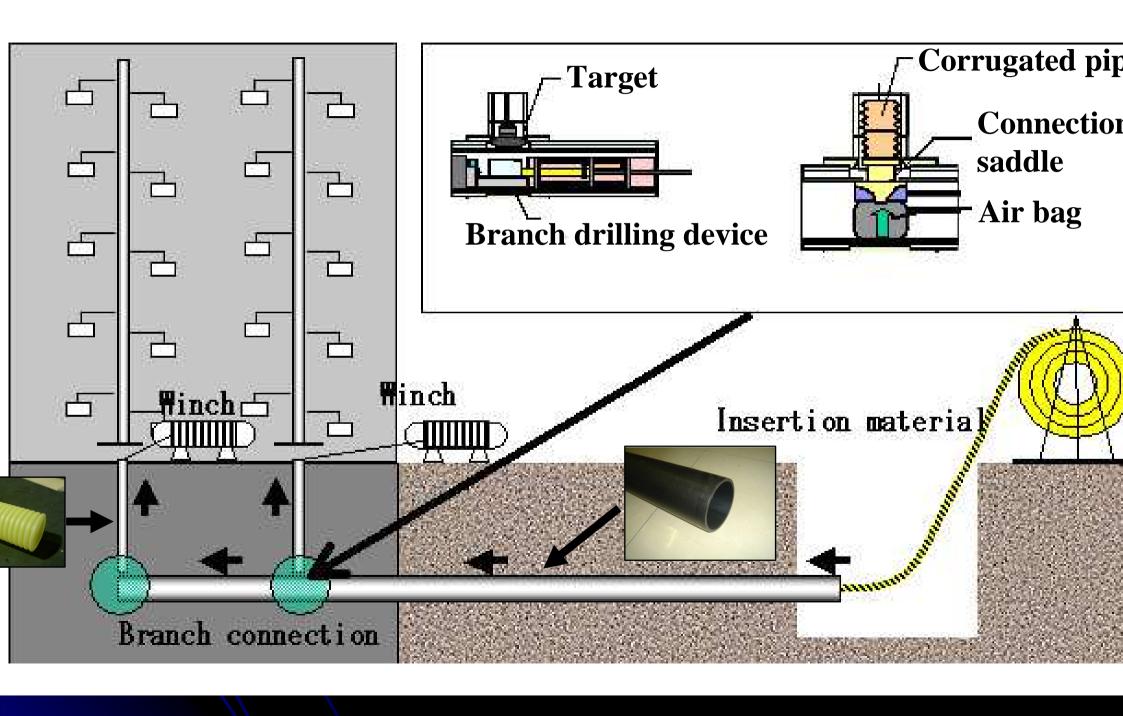


Risk of leakage from galvanized steel pipes by corrosion is increasing!!

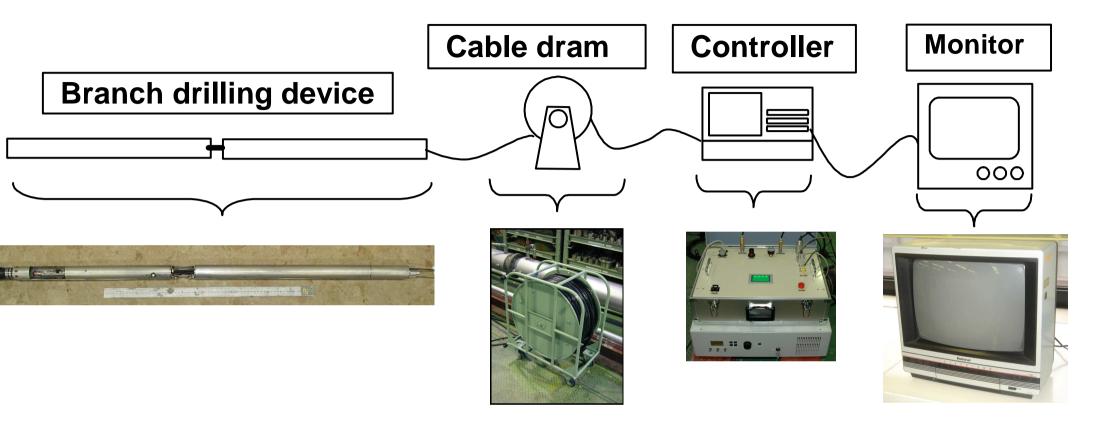
Gas operator's responsibility (as far as gas valve in the house)



Schematic of PE Insertion Method

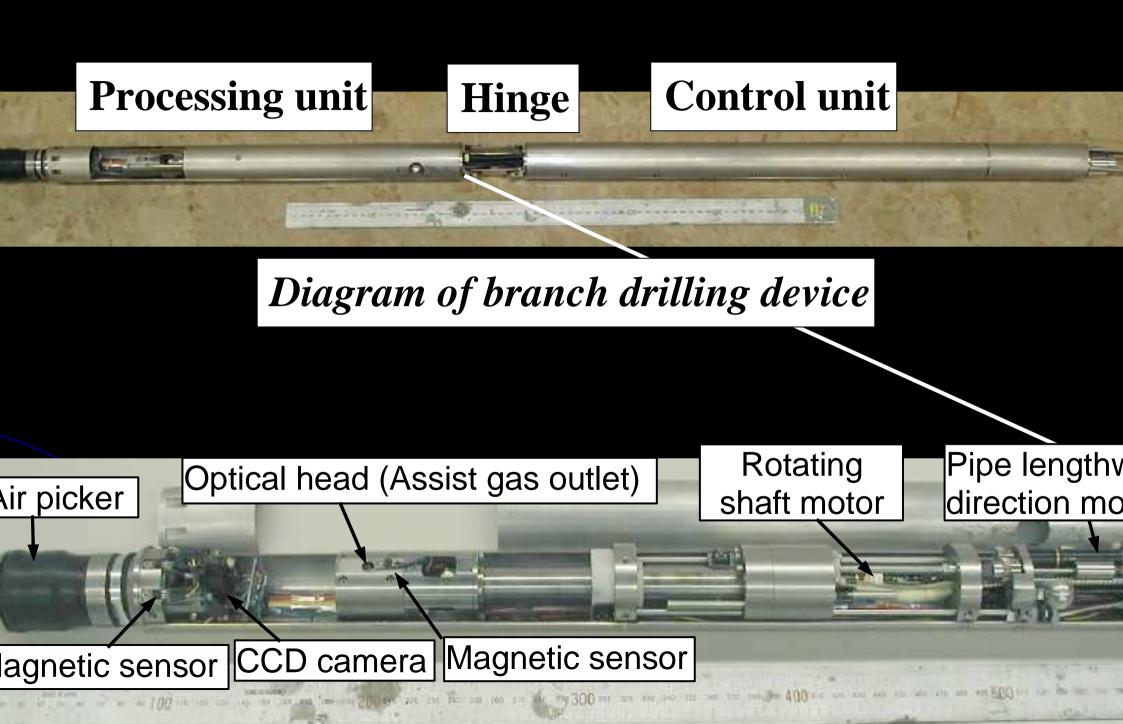


Device

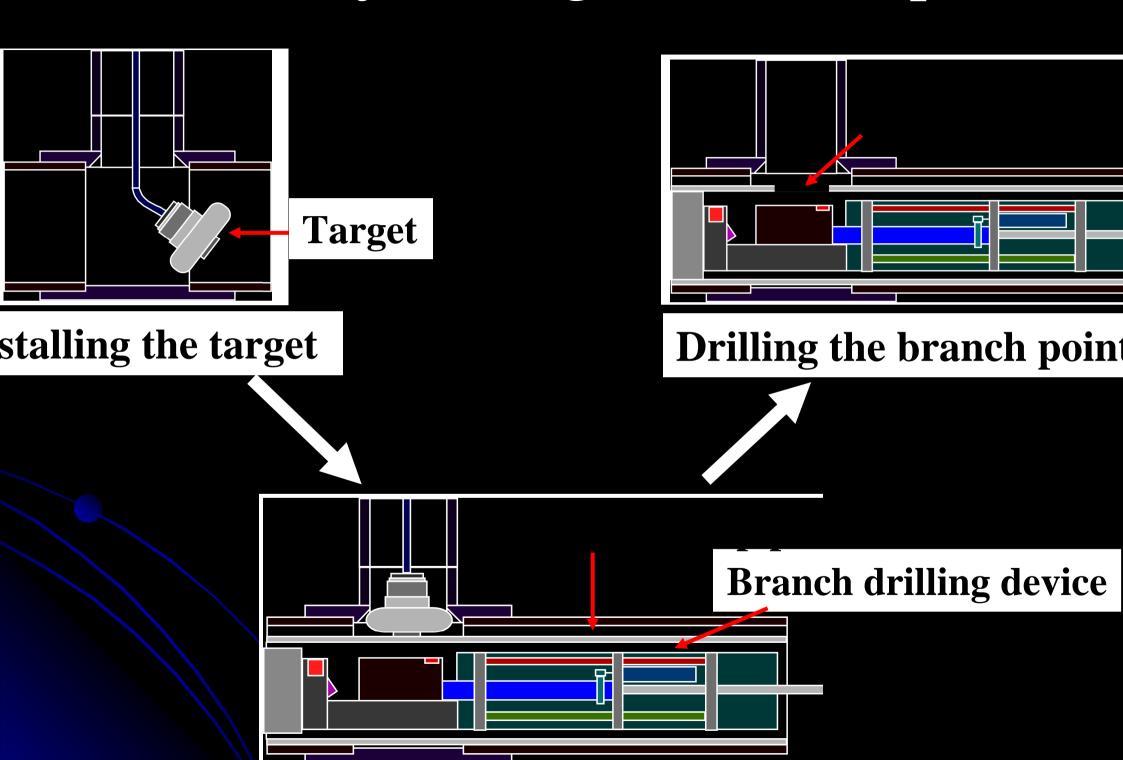




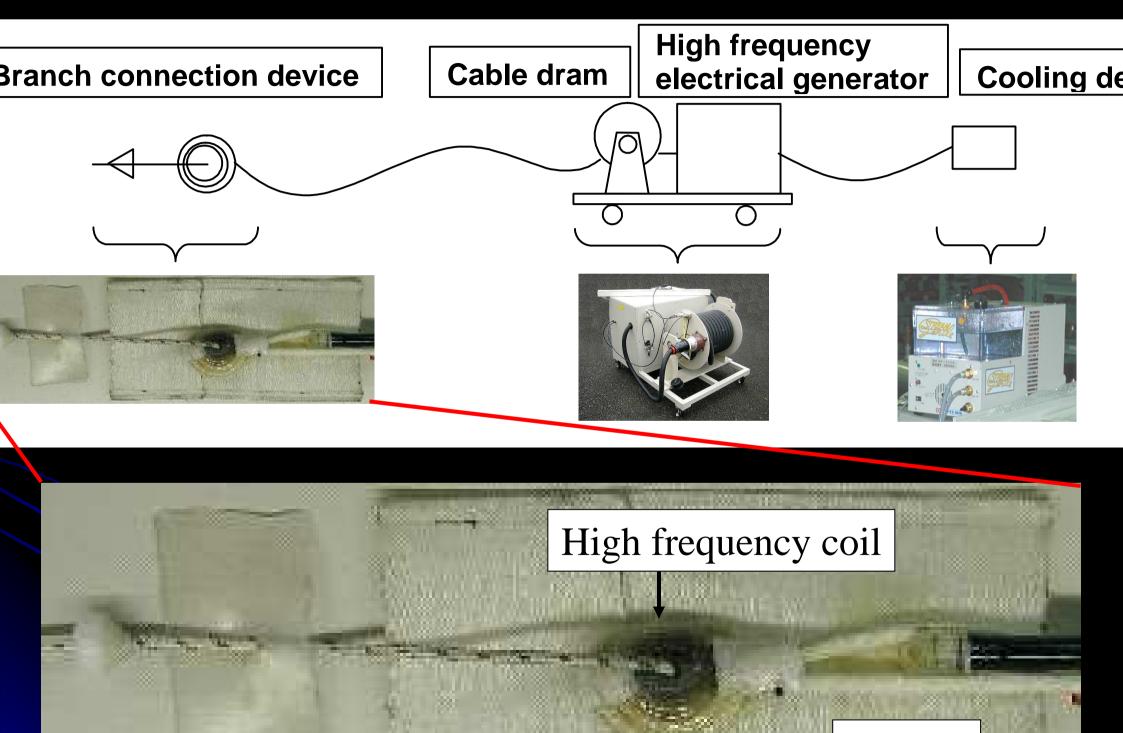
processing unit



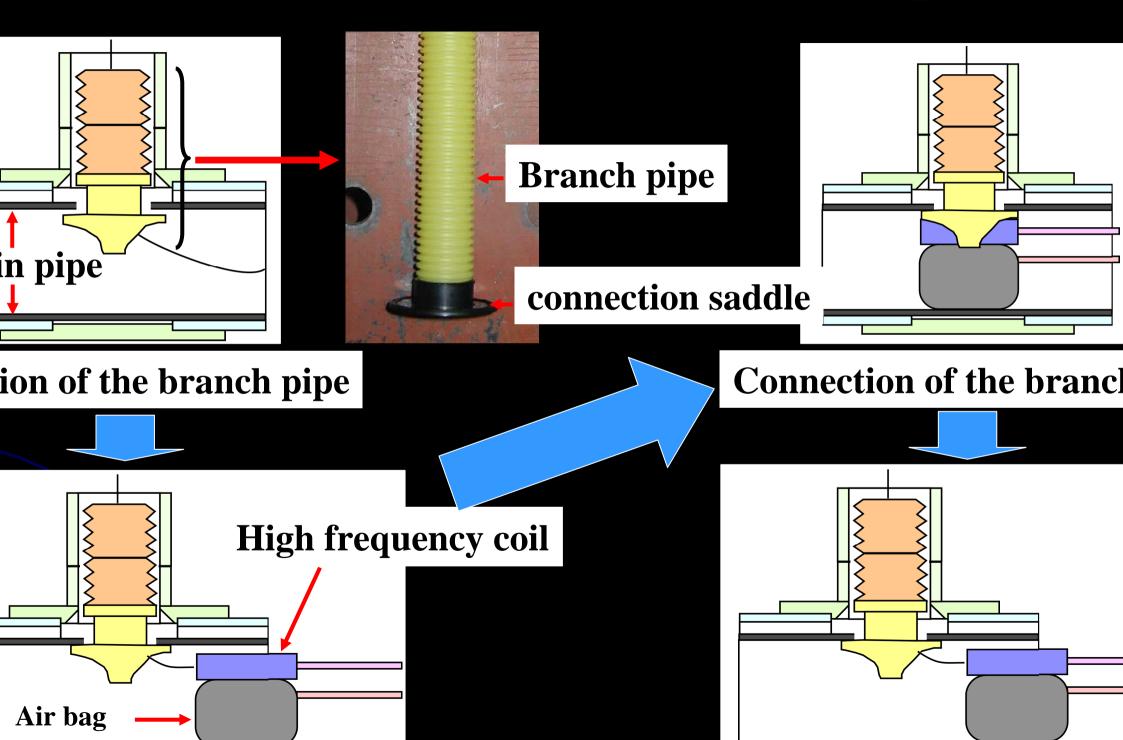
Procedure of ariting the branch points



branch connection device



Procedure of drilling the branch points



Conclusion

- We have successfully developed a Branch Drilling and Connection Device used to perform branch pipe connections to apply the PE insertion method.
- This device can be used in pipes with extremely small diameters of 50mm or 80mm.
- This device can sharply reduce the costs of the PE insertion method by drilling branches and connecting branch pipes very quickly without excavating.