

Paris Session 2022



DAS (Distributed Acoustic Sensing) Technology:
an opportunity to use fibre optics for asset
monitoring and security applications in Electric
Power Utilities

SD D2 – PS1 – Q1.6

Sacha KWIK



red eléctrica
Una empresa de Redeia



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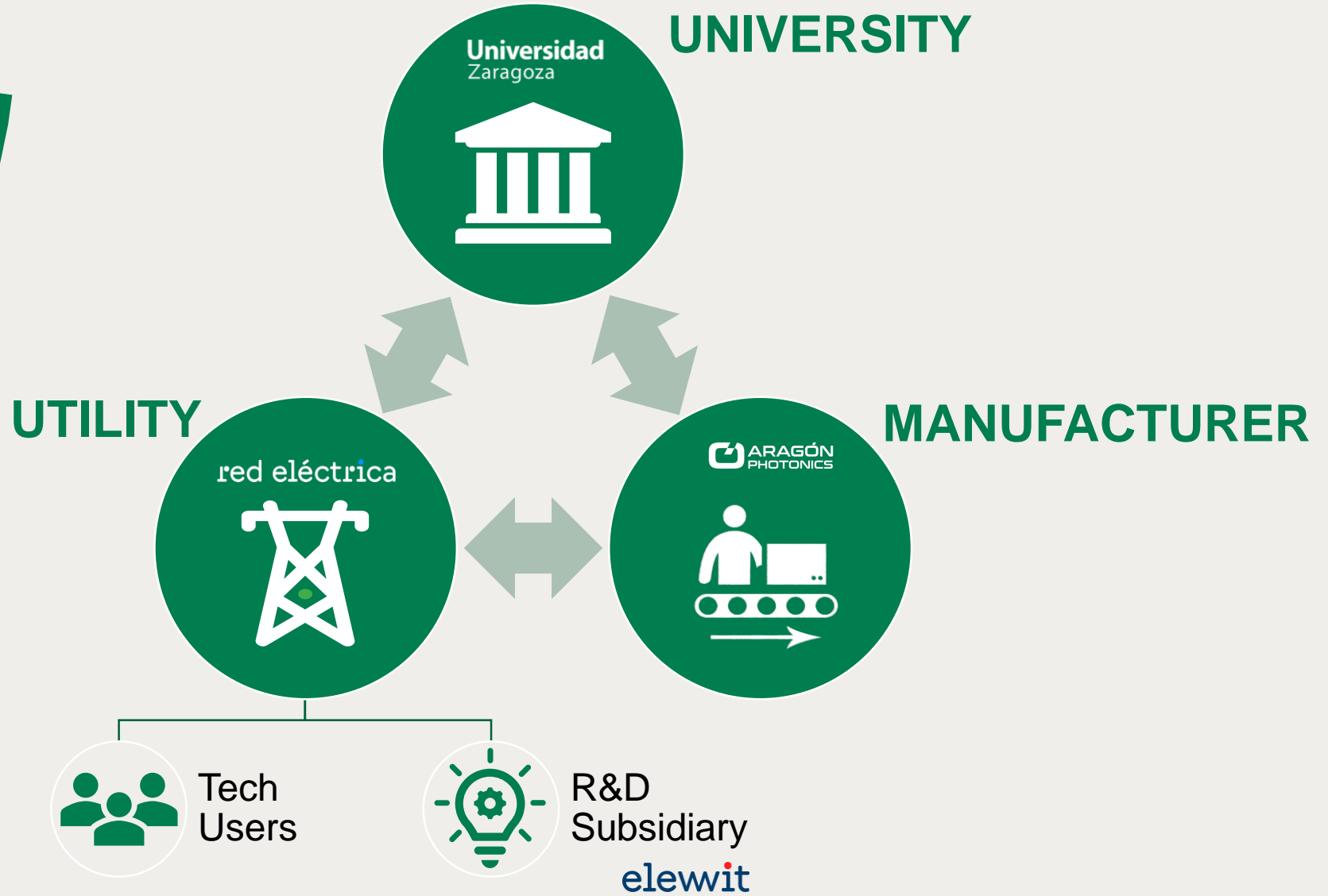
Question 1.6

Which of the following ways of implementing intelligent IT solutions is more effective for the power industry: creating internal R&D departments at energy utilities, working with outsourcing IT-companies and research institutions, working with international IT “giants” providing solutions for the power industry? What is the industry experience?

Group Discussion Meeting

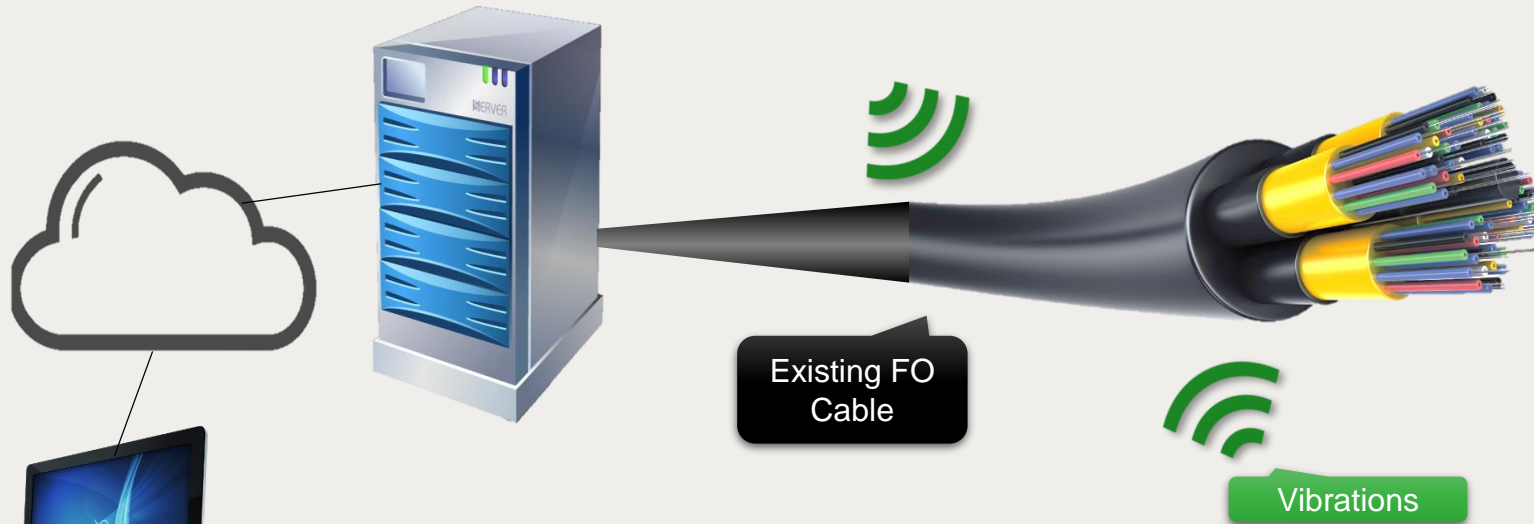


The Project's TANDEM!

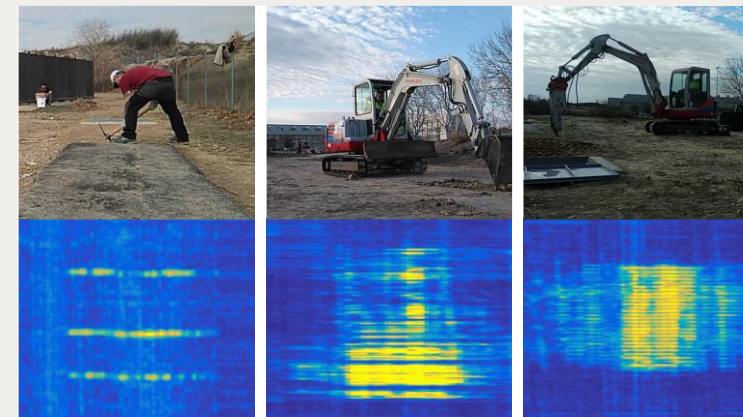


Group Discussion Meeting

DAS TECHNOLOGY



Group Discussion Meeting



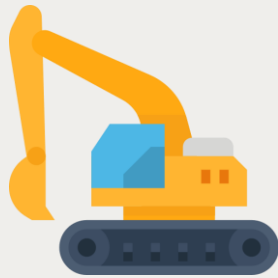
Uses of DTS Technology in EPU's



Examples



- **TPI (Third Party Intrusion) detection**
 - Subsea
 - Underground
- Group Discussion Meeting



- **Security applications**
 - Asset perimeter
 - Lines



- **Seabed variations**
 - Freespans



- Detecting & pinpointing **failures**