

### **Report – DEWESoft Measurement Conference 15–19 April 2024 Slovenia**

The DEWESoft Measurement Conference 2024 took place in Laško and Trbovlje, Slovenia on the 15–19 April 2024. DEWESoft is headquartered in Trbovlje which has a long industrial history marked by the tallest chimney in Europe (Trboveljski Dimnik 360 metre) in the scenic Sava River valley. The company was founded in 2000 and has grown into a €100m annual turnover multinational business. It is 100% employee owned with a mission to provide customer-focused test and measurement solutions.

The conference brought together engineers from all over the world who were joined by common professional interest and enthusiasm in DEWESoft data acquisition solutions. There were technical presentations on products and measurement techniques, equipment displays and user show cases ranging from automotive to space applications. There was an excellent talk on the future of automotive data buses – the trend is to move from current domain to zonal architecture, which will be a combination of ethernet, CANbus and LIN governed by a central computer switch. It is needed to cope with the increasing use of Advanced driver-assistance systems (ADAS) which require high data transmission rates. It will require new diagnostics tools, different than current CANbus loggers, to deal with more complex and higher volumes of data.

There was a presentation on Open Data Acquisition Platform (openDAQ) which enables seamless integration of different data acquisition devices. OpenDAQ is a simple to use general purpose software development kit which allows the users to discover, configure, and receive data from any openDAQ compatible device using programming languages such as C++ or Python on any host computer (Linux, Windows, or macOS). It will be a very useful tool in integrating various devices into a coherent system.

On the final day we were shown around the factory – it was great to see the assembly of equipment, calibration, testing and research and development facilities. DEWESoft has more than 300 suppliers: 80% Slovenia, 17% EU and the remaining 3% non-EU. It is an excellent example of building a contemporary business on a location which has a great past in electromechanics, telecommunications, electronics and automation. Being customer focused, aimed at user friendliness and efficiency pays off judging by the passion of the employees and participants.

The conference has given me several ideas how to develop teaching and support students at Harper Adams University. The free DEWESoftX software has excellent user-friendly features (order analysis, FFT, noise vibration-harshness, reporting etc) which can be implemented in tutorials and practicals. Advanced functions are contained in datafiles and can be shared with students for later use without hardware present. In conclusion the DEWESoft Measurement Conference was excellent and very useful. I am very grateful to the Douglas Bomford Trust for the support.

Sincerely

Dr Sven Peets

Senior Lecturer in Mechatronics in Agricultural Engineering

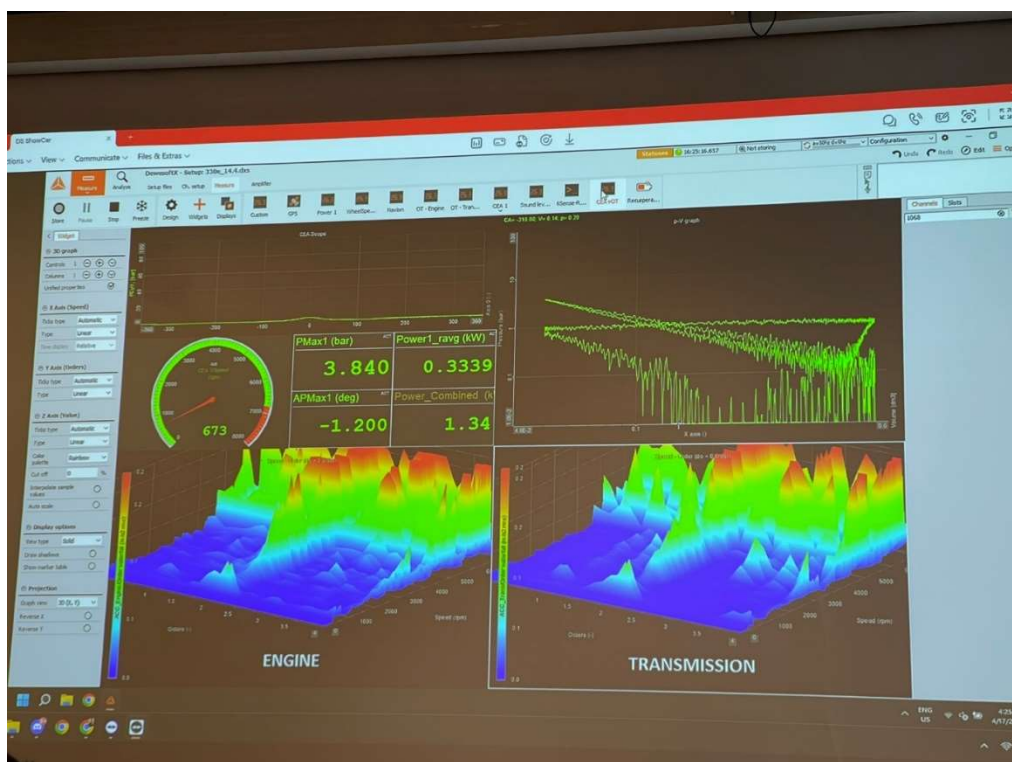
Harper Adams University

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A selection of photos (please see below):



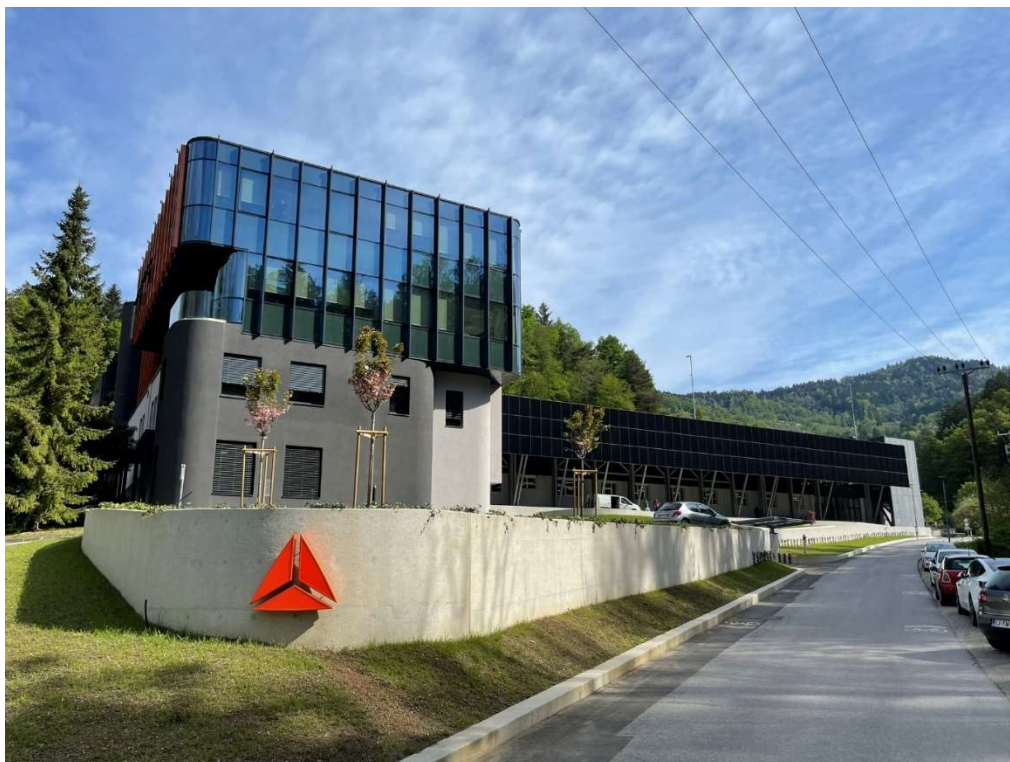
Vehicle data acquisition set-up.



Vehicle measurement display

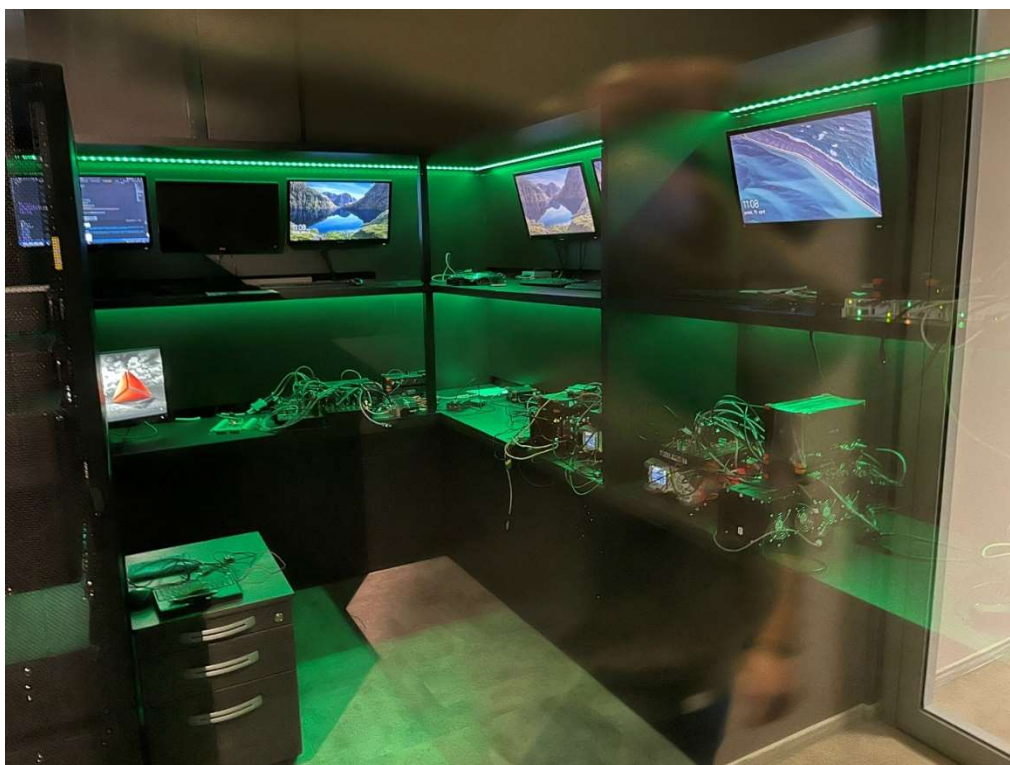


Vehicle in-cab measurement displays

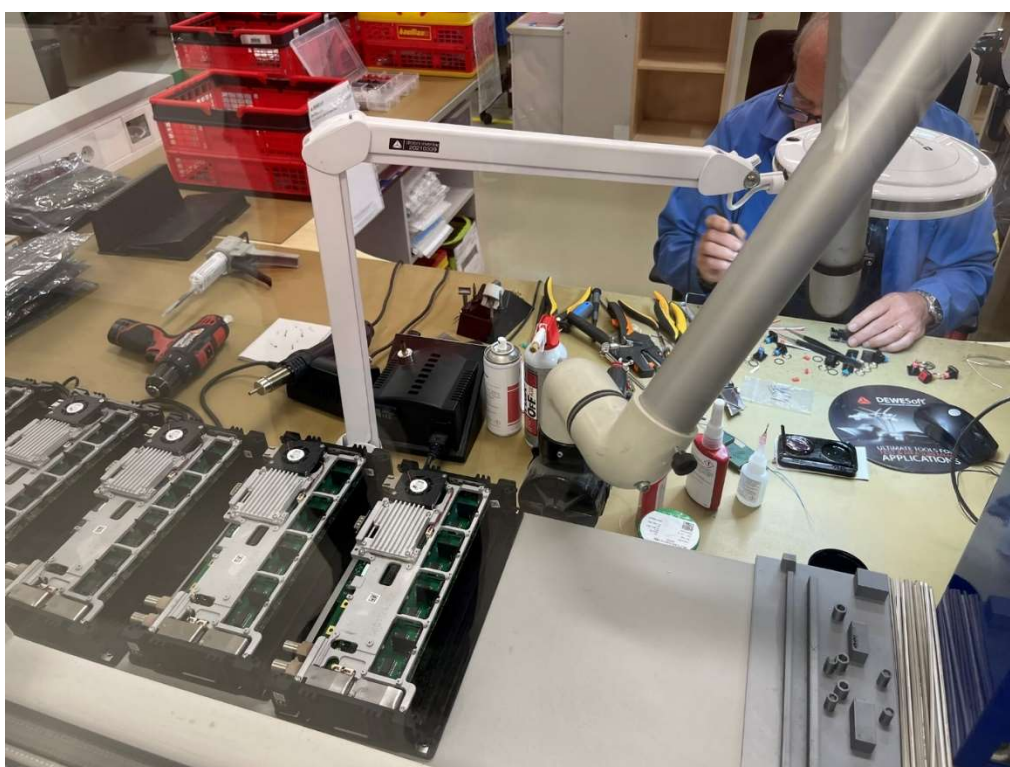


DEWESoft headquarter in Trbovlje, Slovenia

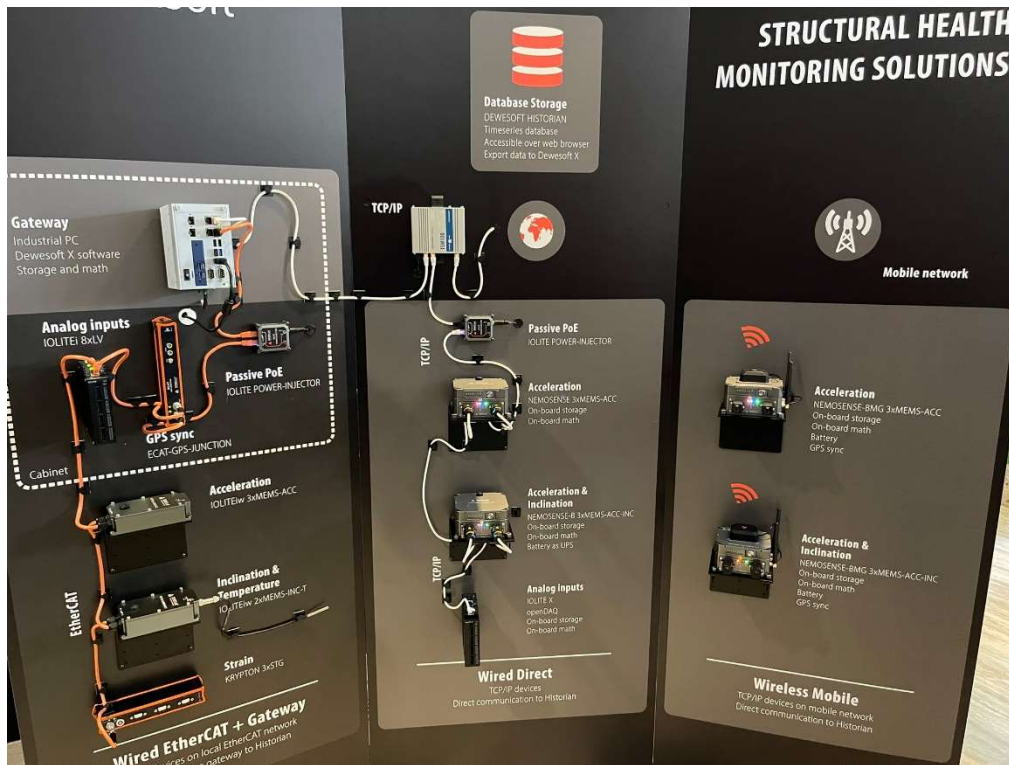




Product testing at DEWESoft headquarter in Trbovlje, Slovenia



Product assembly at DEWESoft headquarter in Trbovlje, Slovenia



Structural health monitoring system configuration



The tallest chimney in Europe (Trboveljski Dimnik 360 metre) in the scenic Sava River valley