MADE SMARTER

Forth Engineering Immersed in

digitalisation

"

The application of immersive technology will be a valueadded service, offering our customers something no one else is. "



complex problems.

The Opportunity

Forth Engineering, based

in Flimby, are dedicated to

engineering excellence and

specialise in manufacturing

bespoke robotics that can be

used in harsh environments for

renewables sectors. They work

closely with industry leaders in

a wide range of sectors to help

them deliver cutting-edge and

ground-breaking solutions to

nuclear, oil and gas, marine, and

With the support of Made Smarter, Forth is investing in a hardware and software solution which will allow a client to step into a virtual room and interrogate a 3D model of their

They are adapting office space to create a mixed reality studio to enable customer demonstrations.

3D data of assets will be converted into a model using 3D visualisation software. This will allow the asset to be viewed within virtual/mixed reality environments in a true to life

Forth will use a leading Extended The use of digitalisation, reality (XR) headset to project a clear and precise visual representation of the asset into a room at their facility. Meanwhile, mixed reality smart glasses are

sent to the customer to access a virtual face to face meeting or inspection scenario from the safety and comfort of their own office. What is more, the smart glasses will create a hologram of the customer in the studio where they can interact and interrogate the asset, which can be animated and exploded into parts.

Mark explained: "We are creating a platform where two fantastic technologies meet. By taking the best of the headset's ability to project a high intensity AR image and the smart glasses' ability to import a hologram of a person, we can show clients their assets in staggering precision.

"We hope that more customers will come to us with dreams of realising their prototype dreams through the use of mixed and virtual reality.

"We also hope to be able to open up the scope of work to clients from around the world and include them on engineering decisions from wherever they are whilst feeling like they are interacting with us and the project in person."

The Benefits

immersion, and presentation technologies will mean that Forth's customers will now be able to interrogate a digital model of their assets from

anywhere in the world; opening up new markets and increasing services offered to customers.

The project will be at the forefront of immersive technology and will also help to upskill staff, reduce cost and travel, and create a safe inspection environment.

technology will allow innovative and novel solutions to complex Moreover, the team of employees believe the value-added service advantage as it is GVA by at least process create five new,

The Future

Forth believes this service will raise its profile in the global. harsh environment market and support its growth strategy to double turnover by £2m each year and help to upskill the team, secure jobs and increase job satisfaction.

is proud of the transformations taking place, stating: "Our engineering solutions are giving customers new and accurate insights into the state of their assets, without risking their workforce, and ultimately saving them a considerable amount of money.

"The application of immersive technology will be a value-added service, offering our customers something no one else is.

"We hope that we can create a place of technological brilliance us, not just our customers."

"Made Smarter has enabled fuller and faster adoption of the new technologies and training, accelerating implementation by years."









