



Ocean Challenges

Texcel Technology has been supporting technological design and manufacturing for over 40 years. Based in the United Kingdom near Dartford, Kent, Texcel provides innovative electronic solutions to customer specific requirements in the marine, subsea and land environments.

Our internal teams are able to complement our client's with concept designs, circuit generation and PCB layouts, embedded firmware and complete validation testing. This, coupled with our internal electronic manufacturing services, make Texcel an experienced European based partner at the cutting edge of emerging technologies.

Texcel has extensive experience within the ocean environment, supporting a number of national and international projects offering a wide range of solutions.



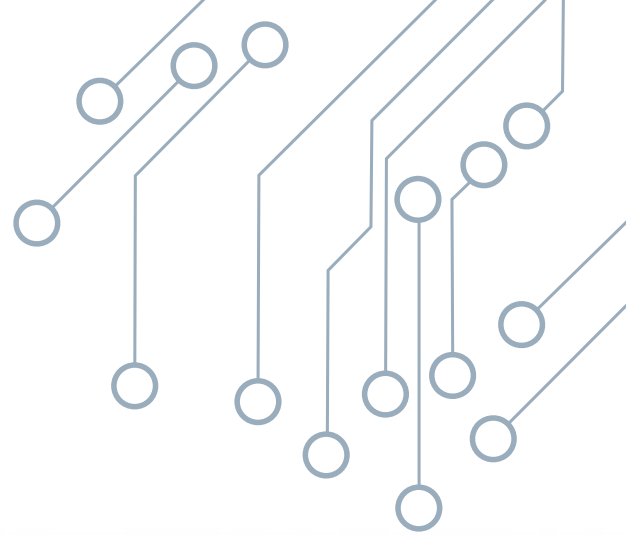
These Include:

- RADAR processing systems with image analysis and tracking
- Instrumentation systems for refraction measurement
- Gas analysis for O₂, CO₂, NO_X, NO, SO₂, CO
- High speed spectrum analysis of gas samples and storage of the sample data
- Ship and towed array high reliability gyroscope systems
- Nodes and shore control of the NEPTUNE, Canada's cabled observatory system*. Node control and monitoring elements have been designed and supplied by Texcel together with the shore server data collection system

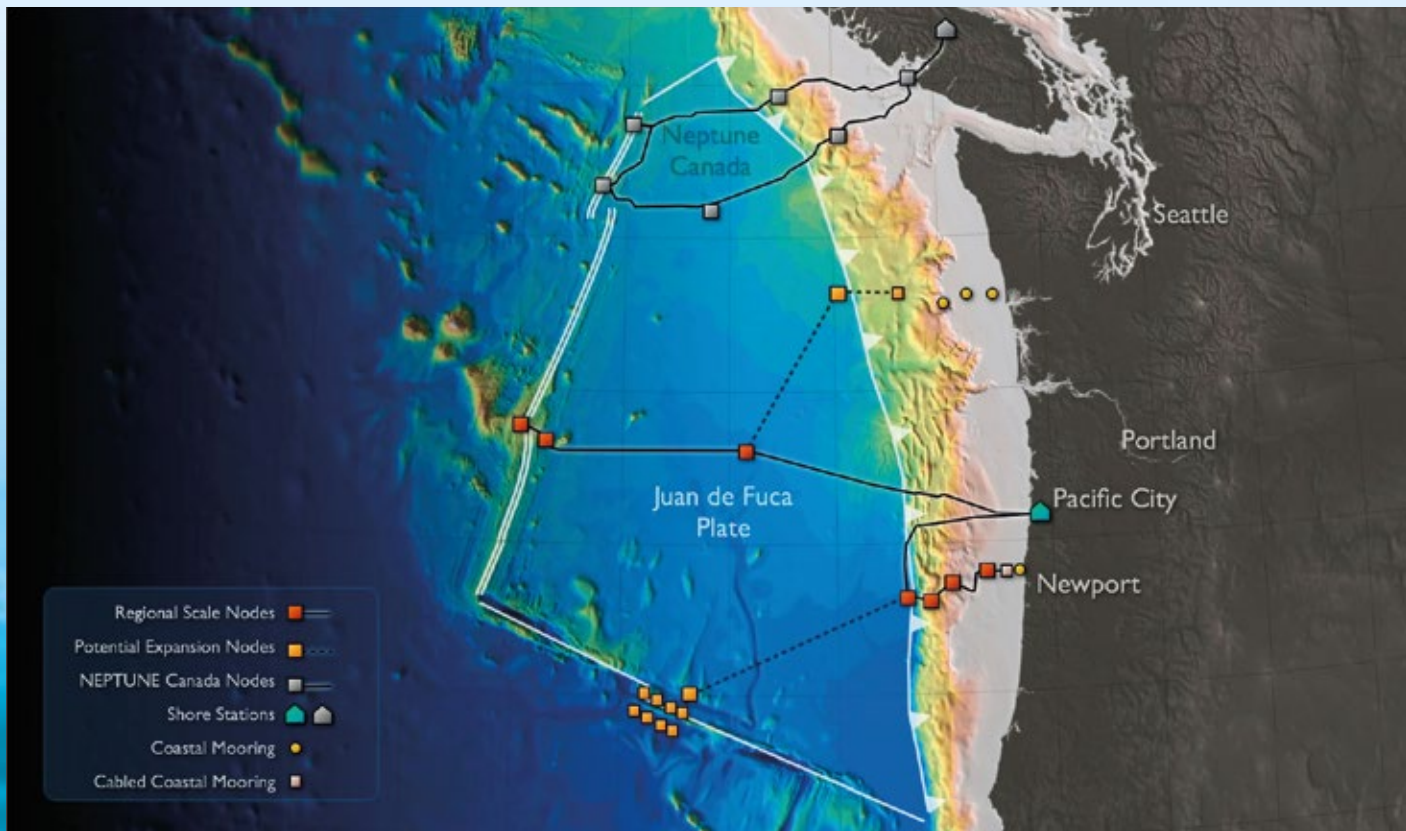
Texcel's in-depth understanding of telemetry systems and data transmission back to central servers allows us to provide full remote management and data gathering solutions. We pride ourselves on our strong and trusted client relationships.

Regional Scale Nodes

We worked with our partner L3-Maripro in the USA on the new Regional Scale Nodes, which is the cutting edge observatory system led by the University of Washington (UW) in Seattle and is a component of the National Science Foundation's (NSF's) Ocean Observatories Initiative (OOI). The system comprises a vast network of ocean observing sensors and mobile robots interconnected by nearly 800 km of fibre optic cable on the Juan de Fuca Plate off the Washington and Oregon coasts.



MariPro



Regional Scale Nodes Network (Photo courtesy of the Centre for Environmental Visualization, UW)

With the network providing up to 200 kilowatts of power and up to 240 Gigabits per second telecommunications bandwidth, the continuous data flow from these subsea sensors will be integrated by a sophisticated computing network and will be available via the Internet in near real-time to researchers, public policy makers and education and public engagement programmes.

**Texcel
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