

High-speed Connectivity Offshore Helps Salmon While Bringing Farmers Closer to Home

ABOUT

Satelnet, a subsidiary of Latin American service operator Andesat, designs telecommunications and IoT solutions for the aquaculture industry. In Chile, the world's second-largest producer of salmon, Satelnet serves the industry professionals who make the country a top competitor in the global market.



CUSTOMER CHALLENGE

Out in the remote southern channels of the Chilean Sea, connectivity with the world is limited. Despite that, salmon farming centers were feeling pressure from industry regulators to meet more stringent reporting requirements. But capturing and sending massive amounts of data from remote sites was cost-prohibitive—and traditional satellite infrastructure could not guarantee the required bandwidth for the new levels of traffic.

Farming centers needed an efficient solution to ensure optimal farming conditions and fish vitality while maximizing productivity. They also wanted to increase job satisfaction and retention by offering a reliable link between pontoon workers and their families back home.



Reliable, high-speed connectivity needed to achieve real-time production control

HOW WE HELPED

Intelsat's high-throughput satellite (HTS) solution cost-effectively delivered realtime, reliable, high-volume transmission of data, voice and video. Intelsat, together with Satelnet, designed a future-proof network based on open architecture and engineered for backward compatibility with existing hardware and infrastructure.

Guaranteed bandwidth allocation enabled salmon farms to seamlessly transmit increased video surveillance alongside real-time production and environmental data. Data and video feeds aided operators in analysis for optimized feeding and caretaking decisions—improving fish welfare. And by enabling better communications between remote workers and the mainland, Satelnet connected salmon farmers to life at home—helping improve their quality of life.



High-throughput satellite solution cost-effectively delivered reliable transmission of data, voice and video



RESULTS



More efficient farming and pontoon operations



Optimized caretaking and improved fish welfare



Increased throughput without costly upgrades



Seamless transmission of compliance reports on farming production



Lower total cost of ownership using existing hardware



Improved quality of life for pontoon workers



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