

Article Overview

The Humboldt Cable is a 14,800-15,000 km submarine fiber-optic system connecting Chile to Australia and the Asia-Pacific region, establishing the first direct link between South America and Asia-Pacific.

Overview

The Humboldt Cable is a submarine fiber-optic project led by the Chilean government in partnership with Google and other stakeholders, designed to enhance digital connectivity between South America, Oceania, and Asia . The cable stretches approximately 14,800-15,000 kilometers, linking Valparaiso, Chile, to Sydney, Australia, with branches extending to French Polynesia, Juan Fernandez, and Easter Islands . This direct route eliminates the need for South American data to travel through the United States to reach Asia, significantly reducing latency and improving transmission efficiency .

Strategic Importance

The Humboldt Cable positions Chile as a regional digital hub, strengthening the resilience and reliability of telecommunications infrastructure in Latin America . By providing high-speed, low-latency connectivity, it supports critical applications such as telemedicine, financial transactions, industrial monitoring, AI, cloud computing, 5G, and IoT services . The project also enhances Chile's competitiveness in attracting investment in data centers, big data, and technology-driven industries .

Project Development and Partners

The initiative began as a Chilean government ambition in 2014-2016 and has evolved through multiple feasibility studies and international collaborations . Key partners include:

- o Google, providing technical expertise and investment support
 - o Desarrollo Pais, a Chilean state-owned enterprise leading the project
 - o Office of Posts and Telecommunications of French Polynesia (OPT), facilitating regional connectivity
 - o H2 Cable, a subsidiary of Singapore's BW Digital, contributing to construction and deployment
- The cable system was designed with input from Japanese NEC, which was selected to build the route connecting Chile to Australia and New Zealand, with funding support from the Japan Bank for International Cooperation and the Japan ICT Fund .

Technical Features

The Humboldt Cable is a fiber-optic system capable of transmitting millions of data streams at high speed, with greater bandwidth capacity and minimal latency . Its design allows for future expansion, including

potential connections to other countries and even Antarctica, enhancing scientific and research data relay capabilities . The cable is expected to handle significant intercontinental data traffic, supporting both commercial and governmental digital infrastructure needs .

Impact

Once operational, the Humboldt Cable will:

- o Provide direct connectivity between South America and Asia-Pacific, reducing dependency on U.S. routes
- o Boost digital economy growth in Chile and Latin America
- o Strengthen telecommunications autonomy and resilience in the region
- o Enable advanced technological applications such as AI, cloud computing, and IoT This project represents a strategic investment in Chile's digital infrastructure, reinforcing its role as a gateway for global data traffic and a leader in regional technology development .

Telecom in Chile has come a long way since its privatisation in 1980--having the most

Integrate the railway into the national and international logistics chain through rail connections at strategic terminals and the

An agreement was signed today between the tech giant Google and the Chilean government, fulfilling a commitment

The Humboldt cable system forms a transpacific subsea cable route connecting Australia, the French Polynesia and

The primary path of the Humboldt Cable extends approximately 14,800 kilometers (9,200 miles) from Valparaíso on Chile's central

Chile and Google have partnered to install the first submarine fiber optic cable connecting South America, Asia, and

The trigger is the Chile-China Express, a proposed submarine fiber-optic cable from

We never share your email. Chile, in partnership with Google, is launching the Humboldt Cable System, the first fiber

This report on the Chilean Railway Signaling Cables Market has been developed using a multi-faceted research

This incident, revolving around a proposed undersea telecommunications cable linking Chile to Hong Kong, forces nations to balance

In 2014, the Government of Chile had an ambitious initiative to build a direct fiber optic network link South America

Introducing Chile on Rails, the largest rail investment programme the country has ever undertaken, Piñera's choice of

Empresa de los Ferrocarriles del Estado (abbreviated EFE, lit. State Railway Company) is the national

Google signed an agreement with Chile on Wednesday to deploy an undersea fiber optic cable connecting South America with Asia

TeleGeography's comprehensive and regularly updated interactive map of the world's major submarine cable systems

Alphabet's Google signed an agreement with the Chilean government on Wednesday to build a submarine fibre-optic

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