

An aerial photograph of a large fleet of fishing boats, likely tuna seiners, sailing on the dark blue ocean. The boats are arranged in a loose, diagonal pattern, moving from the top right towards the bottom left. Each boat is a long, narrow vessel with a white hull and a dark superstructure. The water around the boats shows white wakes, indicating their movement. The overall scene is a vast expanse of blue water with a dense concentration of vessels.

## DEVELOPMENTS, APPROACHES AND CHALLENGES

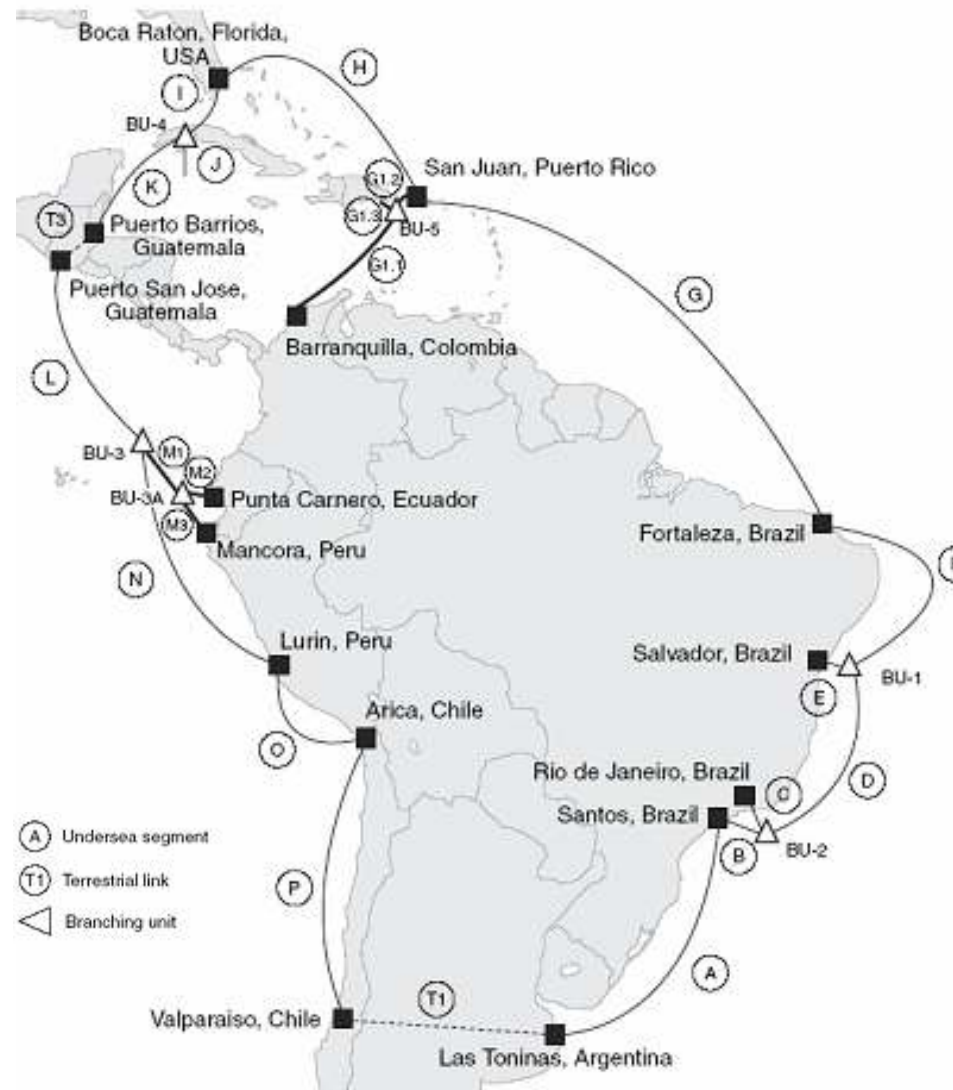
**Dr. Andrés J. Fígoli Pacheco LLM**  
Senior Legal Counsel  
Telefónica International Wholesale Services  
Rome, Italy – September 9, 2011

# Index





# Background



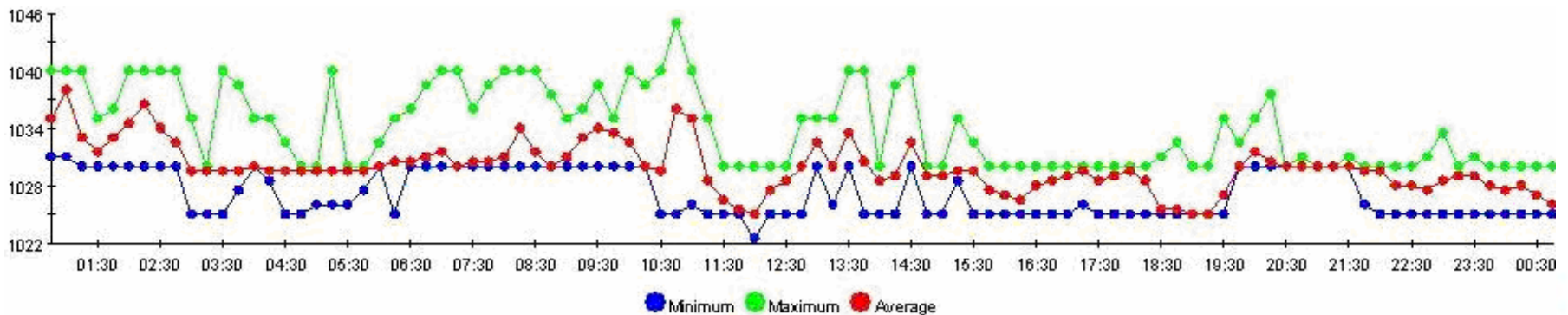


# Developments

- Energy efficiency plan in cable stations.

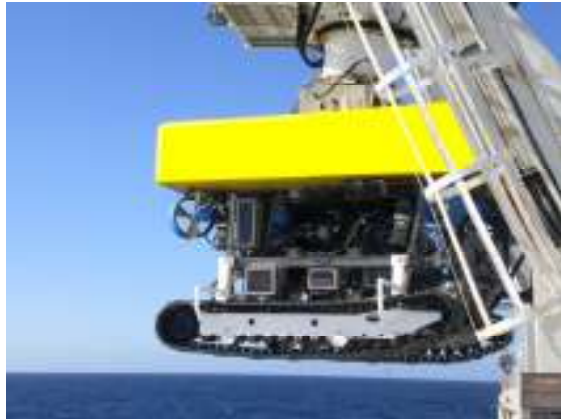


- Energy measurement tests by NOAA



# Developments

- Donation of seabed movies to research entities.



- Collaboration with scientific entities with data & enquiries.



- ✓ Landslides and earthquakes info.
- ✓ Fishing activity hazards
- ✓ Coral protection programme

# Approaches

- Alternatives sources to finance maintenance activities (scientific personnel onboard).
- Use of retired or abandoned cables.
- Contact Data Center between telco. and scientific entities.



	Repair events in Pacific Ocean	Repair events in Mediterranean Sea	Use of retired cables in South America
University XX, Mr XXXX Tel: +XXX	<i>Yes</i>	<i>Yes</i>	<i>No</i>
Institute of Sea. Ms. YY. Mail yy@yy	<i>No</i>	<i>No</i>	<i>Yes</i>



# Challenges – Active cables



## Governments interest

- Resilience: public service, hospitals, armed forces installations, primary use.
- Secrecy of communications (Peruvian new regulation, US FCC rules, threat/vulnerabilities tests).
- Constitutional obligations (prime rule, primary protection).



Regulatory entities penalties, permits denial (time/cost).

# Challenges – Active Cables



- Telecommunications regularity.
- Financial sector sensitivity (Bank for International Settlements Basil II).
- No increase rates of the market.



Change of provider, loss of data, legal actions



# Challenges – Active Cables



## Telecommunication companies interest

- No delays or additional permits for repair activities (operational barrier).
- No communications interference (customer pre-finance of the project).
- No system collapse, minimize risks.



Compensations, Damages, Public Image

*Telefonica*

---