



PRESS KIT



THE POMA AERIAL TRAMWAY IN RIO DE JANEIRO





Jean Souchal,
Chairman
of the Board,
POMA

It is an immense honour for the Groupe POMA to have built the Complexo do Alemão aerial tramway in Rio de Janeiro, The Marvelous City. Our teams imagined and designed this technologically unique equipment for Rio, making it the longest urban gondola lift in the world to this day. This unique and highly technological challenge required the expertise and experience provided by POMA and the ODEBRECHT – OAS – DELTA consortium to design and build such an installation. After Medellin, Taipei and New York, the Rio de Janeiro aerial tramway once again proves to the entire world that rope transportation is a perfect solution within the context of the general evolution in public transportation, guaranteeing passenger safety and comfort. Rope transportation has a very small environmental footprint and adapts to harsh terrain, easily integrating city transit networks to meet the daily transportation requirements of populations around the world. Rope transportation has proven its legitimacy in dynamic, multiple and interconnected transportation networks. In one word, intermodality. With Rio de Janeiro organising the Soccer World Cup in 2014 and the Olympic and Paralympic Games in 2016, Brazil has begun modernising its infrastructures to host two of the most important sports events in the world. Everyone at Groupe POMA is honoured to have contributed to the Complexo do Alemão tramway in Rio de Janeiro. On their behalf, I would like to thank our Brazilian partners deeply for having entrusted us with this project.



Ícaro Moreno Júnior
Chairman of Public Works
for the State of Rio de Janeiro

The approval of the 85 000 inhabitants of the Complexo do Alemão Community has confirmed that the Government was right in its decision to build the aerial tramway. We are currently in the process of carrying out mobility studies for urban development in other Rio de Janeiro districts which need it, and our research shows that transport by aerial tramway is really the best solution to solve problems of access to areas with rough, hilly terrain. This type of transport integrates the population by linking them to the city centre and to the social structures which are being built in various communities; this is a major part of our public policy to reduce inequality. This is why it is essential for the Public Authority to be able to count on its partnership with POMA, the French company which leads the world in the construction of aerial transport solutions. I am sure that we shall be meeting again very soon.



Paulo Santos,
Architect

Rope transportation is most certainly an evolution in urban methods of locomotion. Because of its inherent layout characteristics, it can connect different points of a city without damaging existing buildings, and providing users with a minimally invasive, reliable transportation service that leaves a small ecological footprint. Even though initial conditions in the Alemão district of Rio de Janeiro were difficult, this ground-breaking experience in Brazil provides an efficient, rapid and cost-effective solution that not only integrates this neighbourhood, previously cut-off from the urban life, but also encourages social integration within this community. It is without a doubt that the combined efforts of all the players involved in this challenge will leave us with an unprecedented feeling of integration and citizenship. Its implementation, due to the courageous attitude of Brazilian politicians, would never have been possible without the technical and expert partnership between the Brazilian infrastructure companies, Delta Construção, Odebrecht and OAS, and POMA. Because of its originality, this professional experience was gratifying for all those participating in this ground-breaking initiative from near and far.





A world premiere for POMA in Rio de Janeiro

Say Rio de Janeiro and you think Carnival and cultural diversity. For centuries, visitors from all over the world have come to admire the beauty, enjoy the big beaches and get a taste of the spirit and unique character of this city. It is in this megalopolis, with a population of 6 million, that the Groupe POMA, leader in rope transportation, imagined and built this one-of-a-kind, complex and highly technical equipment. Beyond its innovative aspects, it is the longest urban gondola lift (3.4 km), connecting the Alemão district to the city centre. After Medellin, Taipei and New York, POMA is providing Rio de Janeiro with a low carbon emission, fast, efficient and reliable transport solution.

Brazil is undergoing a multitude of changes and has proven to be a country that counts. Its growing population and booming economy have made Brazil the world's seventh largest economy. With Rio de Janeiro organising the Soccer World Cup in 2014 and the Olympic and Paralympic Games in 2016, Brazil has begun an intensive campaign to modernise its infrastructures. In Rio, this impressive program to modernise the transportation system is transforming the city and will leave a durable and beneficial mark with sizeable social implications.

The Rio aerial tramway is committed to sustainable development in urban transportation systems. POMA aerial tramway technology is the best choice since it is the method of transportation that leaves the lowest ecological footprint. The ratio of air pollutant emissions to the number of passengers transported is the best in the field. With aerial rope transportation, Rio de Janeiro has bet on the future.

For this exceptional work, the Groupe POMA is working together with the Brazilian consortium Rio Melhor, comprised of the ODEBRECHT – OAS – DELTA

companies. This aerial tramway is a first in the world because of its technical characteristics and the complexity of its equipment: 3,456 meters of line and 24 towers installed on rough terrain. For the first time in the world, 5 interconnected sections serve 6 stations with angles of up to 80°. The 152 synchronised cabins can transport up to 3,000 passengers per hour in each direction, at a speed of 18 km/h.

Before, the 300,000 inhabitants of the Complexo do Alemão district had almost reached total isolation because of the hilly terrain and a population density that made the development of ground transit impossible. The overhead transport solution offered by the POMA aerial tramway provides the best answer to this problem.

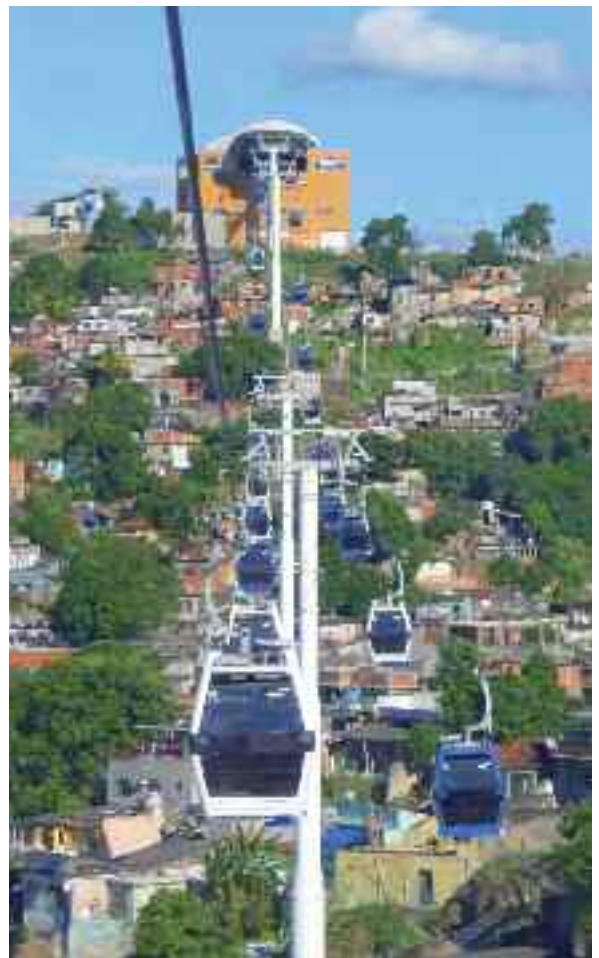
This unique and highly technological challenge required the expertise and experience provided by POMA and the ODEBRECHT – OAS – DELTA consortium to build such an installation in only 24 months.

Technical features

The Rio aerial tramway is first and foremost an audacious and technical route with angles of up to 80° at each station to bring homes as close as possible to the line, while providing a direct station-to-station trip. It also has low impact on the ground, as only stations and towers are installed. There are no trenches or separations as would be required by road or rail. Rope transportation enjoys a maximum level of durability with availability close to 100%.

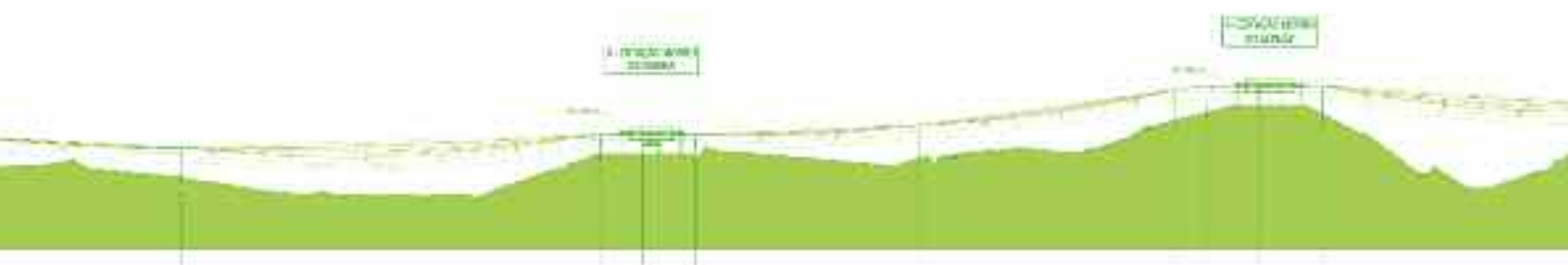
Localisation and socio-economic situation of the Complexo do Alemão

By designing a smart, innovative, reliable and safe installation, that has also become a new tourist attraction for Rio, POMA has met this formidable challenge with flying colours. The speed with which this project was implemented marks a major success in view of the many challenges Brazil must meet to host the Soccer World Cup in 2014 and the Olympic and Paralympic Games in 2016.



The Complexo do Alemão is a group of neighbourhoods located in the northern hills of Rio de Janeiro. This very dense urban district is filled with rough terrain, making rope transportation the obvious choice for urban mobility.

For POMA, the challenge consisted in inventing and installing innovative equipment, highly complex in design and implementation, in an area with heavy urban concentrations and where road traffic is difficult due to the narrow streets and lack of main



arteries. Before the POMA aerial tramway, the absence of public transportation other than the moto-taxi or minivans made trips long and random, due to the inevitable traffic jams. Connections to the suburban railway network were difficult, making it a big problem for inhabitants of a megalopolis like Rio de Janeiro. From now on, the trip from the Alemão district to the intermodal station Bonsucesso is only 17 minutes, instead of the one to two hours it used to take.

With mobility at stake, the solution provided by POMA is a technologically innovative and efficient way of opening up the northern section of the city. This aerial tramway is the cornerstone for urban and social development, with stations serving public service areas (cultural activities office, library, driving licences and registration administrative services, banks, social workers and legal assistance, etc.). The building's decorations were created by Brazilian artists such as Romero Britto, Eduardo Kobra, Edmar Moreira. The artistic impact is magnified by the monumental size of certain frescos on the station towers that reach heights of several tens of metres. The colourful buildings perfectly symbolise the festive spirit of the samba capital of the world.

With their past successes in aerial rope transportation imagined by POMA, Rio de Janeiro is experiencing a revolution that is looking to the future.

The numbers

The Rio aerial Tramway is comprised of 5 interconnected sections serving 6 stations

Length: 3,456 metres

Vertical rise: 121 metres

Rated speed: 5 metres/second, or almost 18 km/h

Total travel time: approx. 17 minutes from Bonsucesso to Fazendinha

Cabin type: Diamond

Cabin capacity: 10 passengers

Number of cabins: 152 synchronised and power-independent cabins thanks to the solar panel that supplies the lighting and radio communications systems.

Number of towers: 24

Capacity: 2,800 passengers/hour in each direction

Cost of electro-mechanic equipment and POMA services: 20 million Euros



Exceptional urban installations all over the world, by the Groupe LEITNER-POMA



NEW YORK, USA

By installing this ultra-modern aerial tramway, POMA is providing New Yorkers with the most advanced technology in urban rope transportation. The 960 metre long tramway connects Roosevelt Island to Manhattan above the East River in only three minutes, providing the 1,500 passengers per hour in each direction with the most comfortable ride and most breath-taking views of Manhattan seen from the two cabins' bay windows.

TUNG CHUNG, HONG KONG

In the heart of one of the most vibrant world megalopolises and linked to the Tung Chung subway, LEITNER-POMA installed a modern rope transportation system, which enables visitors and pilgrims to visit Lantau island. This is the fastest and most convenient method to reach the famed Lo Pin monastery to admire the monumental statue of Buddha.



PARIS, FRANCE

The funicular reveals its charm as a poetic form of transport in the discovery of an historic site such as Montmartre. Not only is this transportation system attractive and ecological, but also with its outstanding performance, this transportation system can climb the steep slope of Montmartre effortlessly. Convinced by the alternative that this system offered, the RATP chose the funicular over the many other options.

MEDELLIN, COLOMBIA

When a metropolis' public transport increases its network and needs to connect gondola lift and subway to manage the flow to and from densely populated districts, our MetroCable is the ideal choice with unique reliability and efficiency. For the creation of the very first urban gondola lift in the world, the company Metro de Medellin chose POMA's Ariana model gondola.



INNSBRUCK, AUSTRIA

Thanks to the Hungerburgbahn funicular in Innsbruck, the Groupe LEITNER-POMA offered the city of Innsbruck the best technical solution to link the city center with key recreational sites and other transport facilities and all this was achieved with astounding architectural flair. The stations were artfully designed by the famous architect Zaha Hadid.

PÉROUSE, ITALY

Perugia wanted to relieve the town centre of motorised vehicles. The Groupe LEITNER-POMA answered their needs by suggesting the MiniMetro. To ensure that the equipment and stations integrated perfectly into the city, they called upon the well-known architect, Jean Nouvel.



The Groupe LEITNER-POMA in brief

After decades of experience in the ski lift industry, the Groupe LEITNER-POMA knew how to make their mark as world leaders in cable transportation systems. All over the globe LEITNER and POMA have already demonstrated their know-how and expertise in urban cable transport. Cable car, MiniMetro, funicular, incline elevator, aerial tramway... a multitude of urban transit solutions offered by the LEITNER-POMA Group provide users with the benefit of the latest technology and the future of public transport.

www.leitner-lifts.com - www.poma.net

LEITNER
ropeways

POMA

Press contact: **Alternative Média** - Alexandre Bérard [alex@ampr.fr] and Sarah Francon [sarah@ampr.fr]
4, boulevard Gambetta - 38000 Grenoble - France - Tel. +33 (0)4 76 12 01 33

> High definition images available for downloading free of rights on our press site: www.alternativemedia.fr