

LA MONTAGNE ROPEWAY TRANSPORT

A NEW URBAN SUSTAINABLE MOBILITY FOR CINOR – SAINT-DENIS, REUNION ISLAND

PRESS KIT
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MND ROPEWAYS

Transportation that brings structure to Saint-Denis

Supported by CÎNOR, La Montagne cable car is the city's next urban public transport that will :

- Ease the **commute for inhabitants from the La Montagne district to the Bellepierre district in the center of Saint-Denis on Reunion Island**
- Relieve congestion on the western access road to Saint-Denis **via La Montagne (D41)** used daily by 12,000 vehicles
- Strengthen the influence and attractiveness of this district, through a highly accessible transportation mode



Key elements of the project

- 1 **UNIQUE DESIGN**
- 2 **ENVIRONMENT AND LANDSCAPE INTEGRATION**
- 3 **SOLAR ENERGY**
- 4 **INTERCONNECTED BUS & TRAMWAY NETWORK**

AN ICONIC, SILENT AND INNOVATIVE URBAN ROPEWAYS

La Montagne's urban aerial tramway uses **state-of-the-art technologies** and a **sleek and smooth cabin design**.

The system chosen is a **jig-back reversible** system with a **16-meter-wide track** for high wind resistance (upto **120km/h**).

Thanks to this technology, cabins can travel at speeds up to 45 km/h.

The two **uniquely designed 50-seater cabins** will have wall-to-wall, high-performance, UV-protection

window glazing and provide unrivaled comfort to users who will be able to enjoy a **360° panoramic view of Saint-Denis and its fabulous surroundings**.

Installed on The Vigie station building, the 600 m2 of photovoltaic panels will produce the equivalent of 92% of the installation's annual electricity consumption.

The multidisciplinary consortium in charge of the project's implementation

Named after the famous tropicbird of the Island, Payenke consortium brings together players with unique international expertise with local companies that contributes to economic development of Reunion Island.



A LINE WITHOUT A PYLON ON THE CLASSIFIED WOODED AREA



A ROPEWAYS THAT PRODUCE THE EQUIVALENT OF 92% OF THE ITS ENERGY NEEDS...



... THANKS TO THE SUN

A ropeway designed for seamless integration

The **ropeway** has been designed for seamless **natural integration**, neutralize the individual carbon footprint and contribute to a significant reduction in **CO2 emissions**.

La Montagne urban ropeway is thought to **respect the biodiversity** of the **protected flora and fauna** area it flies over. Beyond the top and bottom stations, **only one pylon** will be installed near the Hospital station, thus **minimizing** the project's impact on the environment. The height of the rope was specifically designed to **avoid interfering with bird flight**.

PROJECT TECHNICAL CHARACTERISTICS

- | | |
|--|--|
| Length : 1,300 meters | Ride time : less than 4 minutes |
| Vertical rise : 305 meters | Number of cabins : 2 x 50 people |
| Travel speed
◦ initial : 27 km/h
◦ maximum : 45 km/h | Maximum initial transport capacity per year : 7.5 million passengers |

Insights from major project actors



Mikael
NACIVET,
Director
of CINOR's
Ropeways
Projects

« With this second transport project by cable on its territory, CINOR confirms its **ability to innovate** for the mobility of its inhabitants. Two new generation cable transportation in the same agglomeration, it is a first in France!

We are indeed convinced that ropeways are **forward-looking solutions** that will effectively complement the CINOR's public transport network.

In the specific case of this project, it meets the **need for mobility of the inhabitants of the district of La Montagne and to reduce congestion of the Road D41** which is heavily borrowed daily by nearly 12,000 vehicles.

Among the various possible cable transit technologies, we have selected the jig-back one with **2 large capacity cabins** that can accommodate 50 people.

It will allow passengers to **take advantage of the panoramic view** over the bay of Saint-Denis: the cable car will also have a strong tourist vocation.»



Nicolas
Chapuis
MND Ropeways
Business line
Director and
joint-venture
representative

« This project is a new success and the first **significant** one obtained for an **urban project** since the merging of the MND and BMF Remontées Mécaniques France teams, which therefore validates **the relevance of our approach**.

The industrial and commercial **alliance** between **MND and Bartholet** gives the necessary critical size to our ambitions and in particular to address this type of project.

With this new project, we confirm our **leadership in these technologies** and more generally on the integration of **cable technologies in urban areas**.

Our solutions and know-how are **flexible** to adapt to **customer demands** and **particular contexts**. About the project of La Montagne, the experience of our teams has made it possible in particular to **preserve the space classified woodland**, avoiding the implantation of the pylon that was considered in the studies foreplay.

Our teams will now be fully committed to develop **this flagship project**, of which we wish to do for the Indian Ocean, or even far beyond that, a **showcase for our know-how** in urban ropeways mobility.»



Eric Hugel
Director of the TT
architecture firm

« Get moved! Ropeway mobility turns **movement** into a **unique moment!** To share this movement with the user, TT has created an architecture that seamlessly blends the ropeways **into its environment**.

The La Vigie multimodal Hub's design is inspired by the **colors** and **jagged** terrain of the **surrounding cliffs**.

For us, the layout of the **lookout point** is the project's major challenge. It must provide users with a generously shaded space with breathtaking views of the city, ocean, and mountains. A **moment suspended** in time.

Hôpital Station will be **easily recognized** at the **south entrance of Saint-Denis**. We will design dense landscaping on the forecourt and on the façade of South Boulevard, which will act as a reminder that **vegetation is inseparable** from **urban space** quality in a **tropical environment**.

We want to make Hôpital station a cornerstone when entering the city and ensure that the conditions for **multimodality** are met with **success**. Only high-quality materials will be used and the landscaping will showcase local Reunion Island flora. TT architects are **excited and proud** to start working on this **exceptional project** for the city of Saint-Denis.»



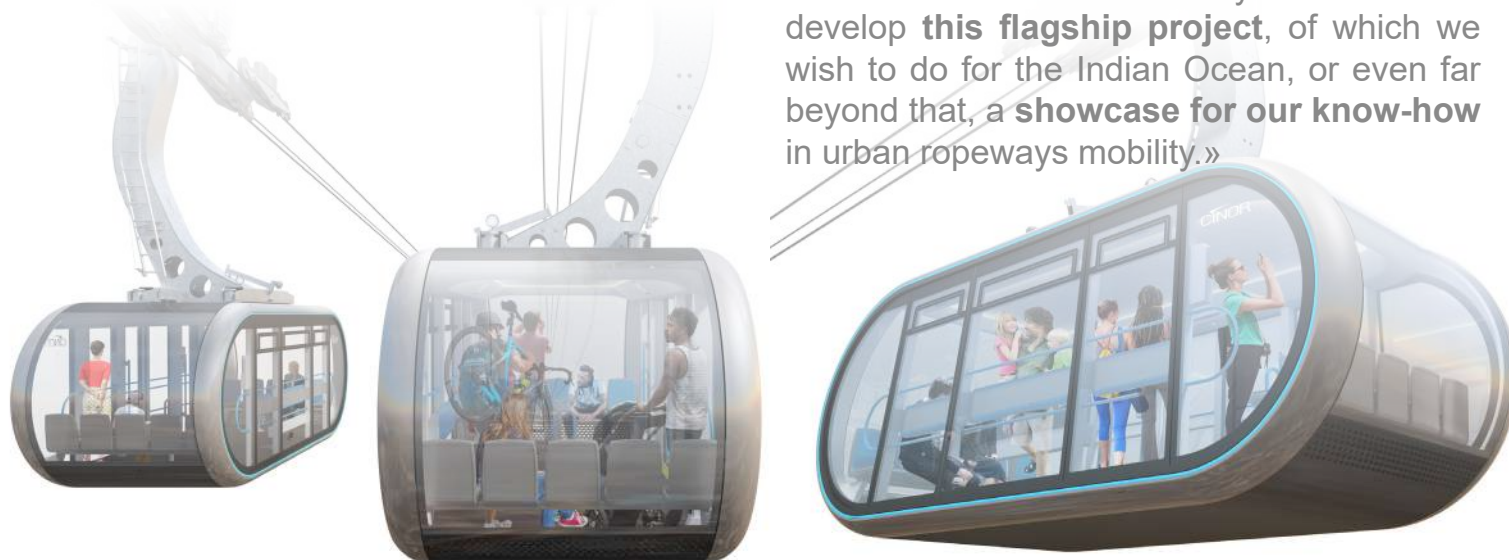
Mauro Lisa
Director of
SOGEA Indian
Ocean

« We are very **honored** to be selected for **La Montagne ropeway** project. After participating in the Sainte-Clotilde line, we are now associated with this second cable car project in the city. **Ropeway transportation** is without a doubt a lever for **dynamic** growth for the VINCI Group. These projects involve SOGEA's global expertise in conducting complex urban operations.

Our ability to **carry out this type of operation** has given the Payenke joint venture reason to entrust us with the role of **project managers**. One of the challenges of the project lies in our ability to carry out the work **without disturbing local residents and the environment**. The site will be secured and all measures will be taken to minimize its impact.

The La Vigie multimodal Hub is a major structure with more than **300 parking spaces** available to users.

To carry out the project, SOGEA will combine expertise with **SPBTPC**, another **VINCI** Group subsidiary, for the **earthworks and roads** and services infrastructures included in the project. Together, we are very proud to continue supporting **CINOR** in its development. »






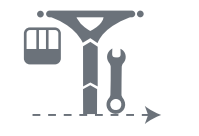

Our vision of ropeway transportation

In our cities that are constantly on the move, mobility is a major issue.

By flying over the obstacles, ropeway transportation is no longer held down by traffic. It offers an efficient, safe, and reliable transportation solution that can seamlessly integrate into any urban environment. As experts in this technology, our mission is not only to design, but also to manufacture, install, operate, and maintain urban ropeway facilities. We make a strong connection with our clients and their users by imagining customized solutions to ensure more fluid, efficient and sustainable cities.








... A MODE WITH MANY ADVANTAGES ...

-  A sustainable, ecofriendly and socially responsible choice
-  Bypass obstacles
-  Low construction costs
-  12-18 months to build
-  Smaller surface footprint

A MODE ANSWERING MULTIPLE URBAN USES ...

-  Access to a tourist attraction
-  Breaking urban isolation
-  Landscape integration
-  Direct routes

... A MODE MEETING THE CITY'S NEEDS

-  Comfortable cabins
-  Efficacy, security, fiability
-  Maintenance operation efficiency
-  Easy access
-  Intermodal

Our main references

The French industrial Group MND designs, manufactures, installs and maintains ropeways transport systems.

Alongside with its strategic partners, expert teams and international locations, MND carries out cable transport projects in mountain, tourist and urban areas in order to offer mobility solutions.
In Brest, Moscow and Istanbul, millions of passengers use these transport facilities every year.



 **Brest, FRANCE - 2018**
CABLE CAR 



 **Moscow, RUSSIA - 2018**
DETACHABLE GONDOLAS 



 **Istanbul, TURKEY - 2017**
AUTOMATED PEOPLE MOVER 



 **Narvik, NORWAY - 2018**
DETACHABLE GONDOLAS 

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ABOUT MND

MND is a French industrial group specialized in mobility and ropeway transportation, safety processes, snowmaking and leisure facilities. With three production sites, five international distribution subsidiaries and 28 distributors worldwide, MND operates on all major international markets. In the framework of their strategic commercial and industrial alliance, MND and Bartholet groups have more than 800 cable transportation facilities, capable of carrying more than 500 million passengers per year. MND employs 320 people and has approximately 3,000 customers in 49 countries. MND is listed on the Euronext Growth in Paris(FR0011584549 - ALMND)

More information on: www.mnd.com



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