



TRAMWAY LINE & PUBLIC TRANSIT STATION





 **AGORA**
MAKERS

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Ghm

metalco





Places for the people

The **AGORA-MAKERS** group redefines public spaces through its iconic brands: **GHM**, **Eclatec**, **Metalco**, **Bellitalia**, **CityDesign** and **MyEquilibria**.

They all share the same vision: to transform urban spaces into places dedicated to people, where functionality joins aesthetics and innovation meets sustainability.

Each brand in our group brings a unique experience, forming a coherent and diverse ecosystem at the service of placemakers.

Eclatec, a pioneer in public lighting, has been offering solutions combining performance and design since 1927.

NEXIODE AGORA-Connect contributes to the development of innovative, intelligent, sober and sustainable lighting environments.

GHM, thanks to its almost two centuries of knowhow, combines art and technology in Europe's largest artistic foundry.

Metalco, an internationally recognised leader in street furniture, is recognised for its ability to combine design and functionality to create exceptional and welcoming spaces aimed at sociality.

Bellitalia, the concrete specialist, creates durable, high quality street furniture inspired by timeless beauty.

CityDesign, at the forefront of street design, reinvents spaces with innovative and functional solutions.

My Equilibria, a unique brand dedicated to wellness, bringing together art and functionality, offering outdoor fitness equipment accessible to all, inviting people to relax and exercise outdoors.

All together, **AGORA-MAKERS** redefines the boundaries of creativity and engineering to create outdoor environments that inspire, connect and enhance everyday life.

Join us in creating places for people that respectfully shape the future of our communities.





PUBLIC BUS - TRAMWAY STATION

●	ALGIERS ALGERIA	05.07
●	CASABLANCA MOROCCO	29.31
●	FLERS FRANCE	21.23
●	ÎLE-DE-FRANCE FRANCE	25.27
●	LUXEMBOURG	09.11
●	NÎMES FRANCE	13.19
●	OUARGLA ALGERIA	33.37



TRAMWAY LINES

●	ANGERS FRANCE	61.63
●	BESANÇON FRANCE	65.67
●	DIJON FRANCE	96.97
●	FIRENZE ITALY	69.71
●	LIMOGES FRANCE	81.83
●	LUXEMBOURG LUXEMBOURG	73.75
●	LYON FRANCE	93.95
●	MARSEILLE FRANCE	53.55
●	NANCY FRANCE	77.79
●	NANTES FRANCE	49.51
●	NICE FRANCE	85.87
●	OUARGLA ALGERIA	89.91
●	ORLÉANS FRANCE	39.43
●	SAINT-ETIENNE FRANCE	57.59
●	STRASBOURG FRANCE	45.47
○	TRAM MASTS	98.99



TRAMWAY STATION



📍 Algiers | Algeria

TRAMWAY STATION

Customer:

Entreprise du Métro d'Alger (EMA)

Main contractor:

MEDITERRAIL / ALSTOM TRANSPORT

Date of entry into service: 2010

Length of network: 7.2 km

Number of stations: 13



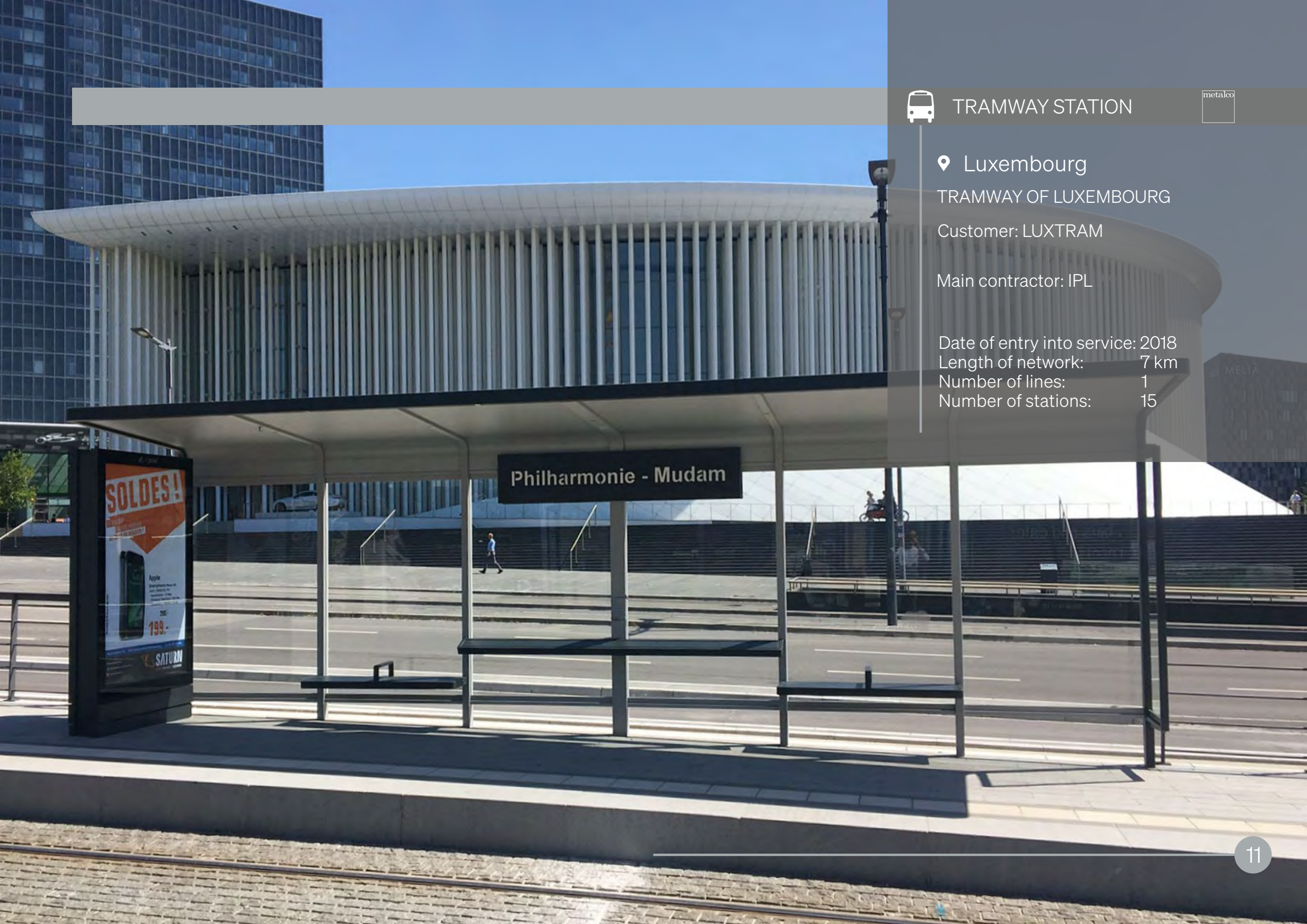
1ST TRAMWAY LINE

The development program launched by the Algerian government to meet the growing demand for public transport has resulted in the creation of Algeria's first tramway line.

The route is 7.2 km long and includes 13 stations served by 40-metre long trams capable of transporting up to 400 passengers during peak hours.

Each shelter is made of painted and hot-galvanized steel, complete with comfortable seats and characterized by large windows screen-printed with elegant floral motifs that enliven the entire structure.

To complete the project, air-conditioned kiosks were also installed as ticket offices, and stylistic continuity was achieved by adopting a decorative floral patterning.



TRAMWAY STATION



📍 Luxembourg

TRAMWAY OF LUXEMBOURG

Customer: LUXTRAM

Main contractor: IPL

Date of entry into service: 2018

Length of network: 7 km

Number of lines: 1

Number of stations: 15

Philharmonie - Mudam

SOLDES!

199.-

SATURN



TRAMWAY OF LUXEMBOURG

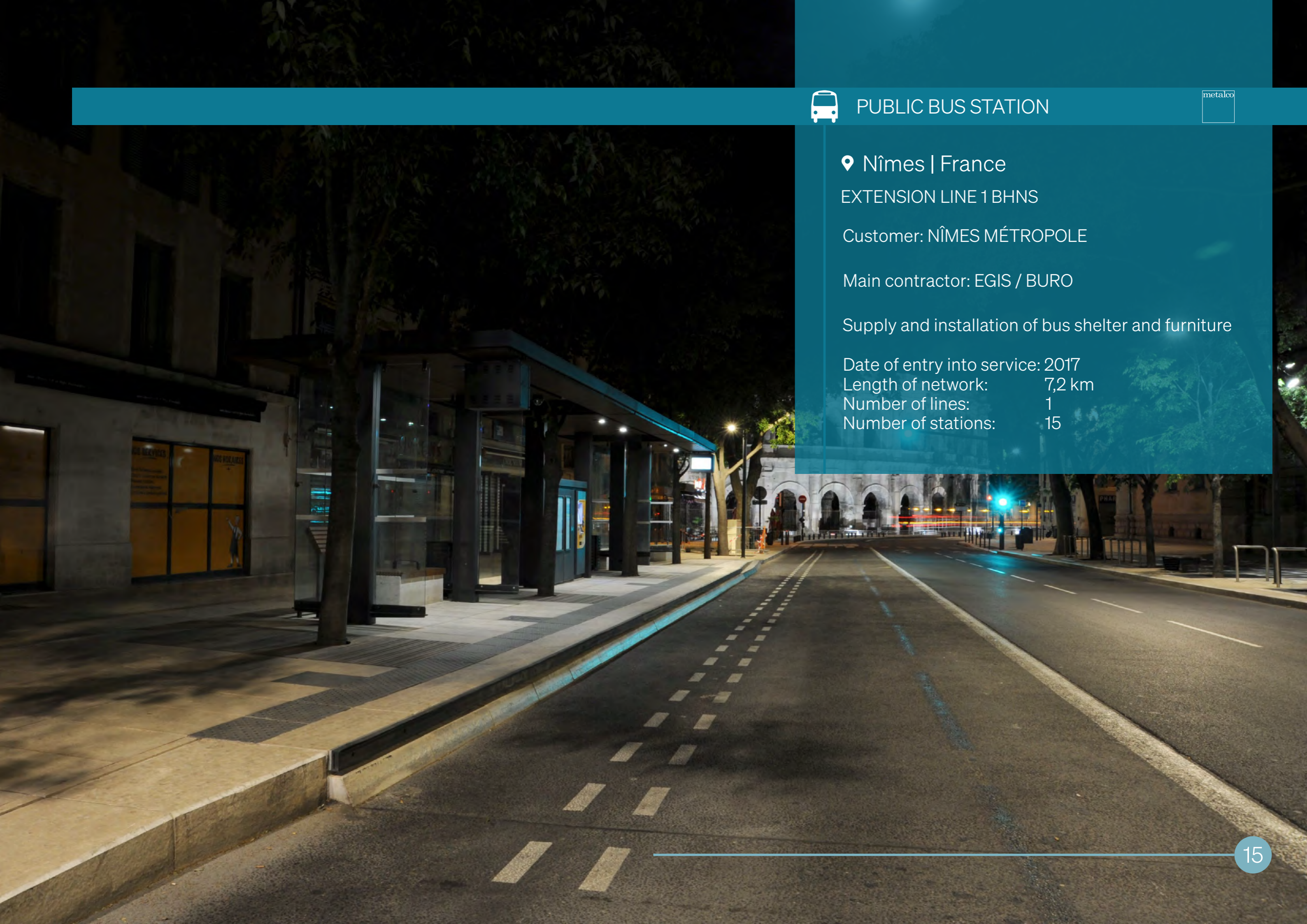
With its 7 km long and 15-stop route, Luxembourg's first tram line connects the Central Station to LuxExpo, on the Kirchberg plateau, providing an indispensable service which links the most important areas in the city.

The route has been carefully studied to serve a daily potential number of passengers of over 10,000.

It is along this section that modular shelters have been installed, designed to accommodate billboards and information panels.

These are grey in colour and the style has been designed to be sober yet elegant. The glass side walls, laser-cut steel panels ensure that they blend in perfectly with their urban surroundings.

The shelters offer maximum comfort to users thanks to their comfortable benches, perch seats and a lighting system that guarantees good visibility even at night.



PUBLIC BUS STATION



📍 Nîmes | France

EXTENSION LINE 1 BHNS

Customer: NÎMES MÉTROPOLE

Main contractor: EGIS / BURO

Supply and installation of bus shelter and furniture

Date of entry into service: 2017

Length of network: 7,2 km

Number of lines: 1

Number of stations: 15



EXTENSION LIGNE 1 BHNS

The project to extend the North line of the BHNS (Bus à Haut Niveau de Service) included the construction of a number of public transport stations in Nîmes.

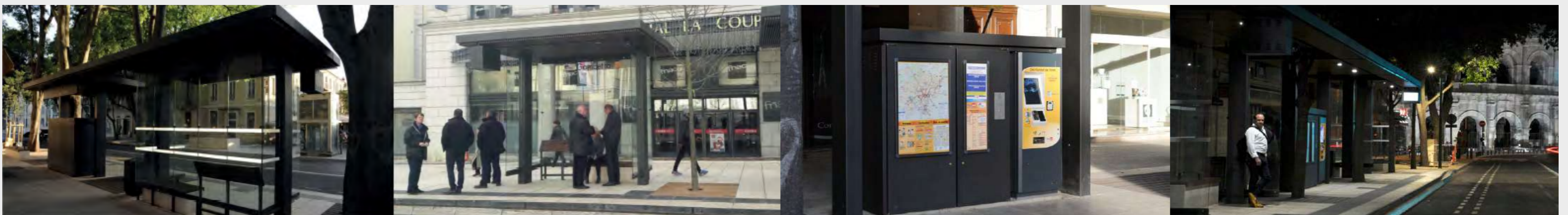
Each shelter features large windows and false ceilings with wooden slats, and has been designed to provide users with perched seating and benches.

In addition, in order to offer an extra service, the design includes the possibility of equipping the structure with automatic ticket machines.

The project was carried out with the utmost respect for the architectural context, characterised by the presence of monuments from ancient Rome and contemporary works such as Norman Foster's Carrè d'Art.

For this reason, the shelters were designed in black, to highlight the unique character of the city.







PUBLIC BUS STATION



📍 Flers | France

MULTIMODAL INTERCHANGE HUB

Contracting authority:
COM. D'AGGLO PAYS DE FLERS

Date of entry into service: 2010





MULTIMODAL INTERCHANGE HUB

Flers is an elegant French town, located in the charming Normandy region, characterized by architectural styling which is both clean and well-balanced.

The shelters have been specially made to blend in as harmoniously as possible with the urban context: the structures have simple lines and are made from hot-galvanized steel.

Comfortable perch seats run along the windows, and bright LED lights in polycarbonate have been installed in the roof, turning blue.



TRAMWAY STATION



📍 Île-de-France

TRAMWAY T4

Contracting authority:
ILLE-DE-FRANCE MOBILITÉS - TRANSAMO

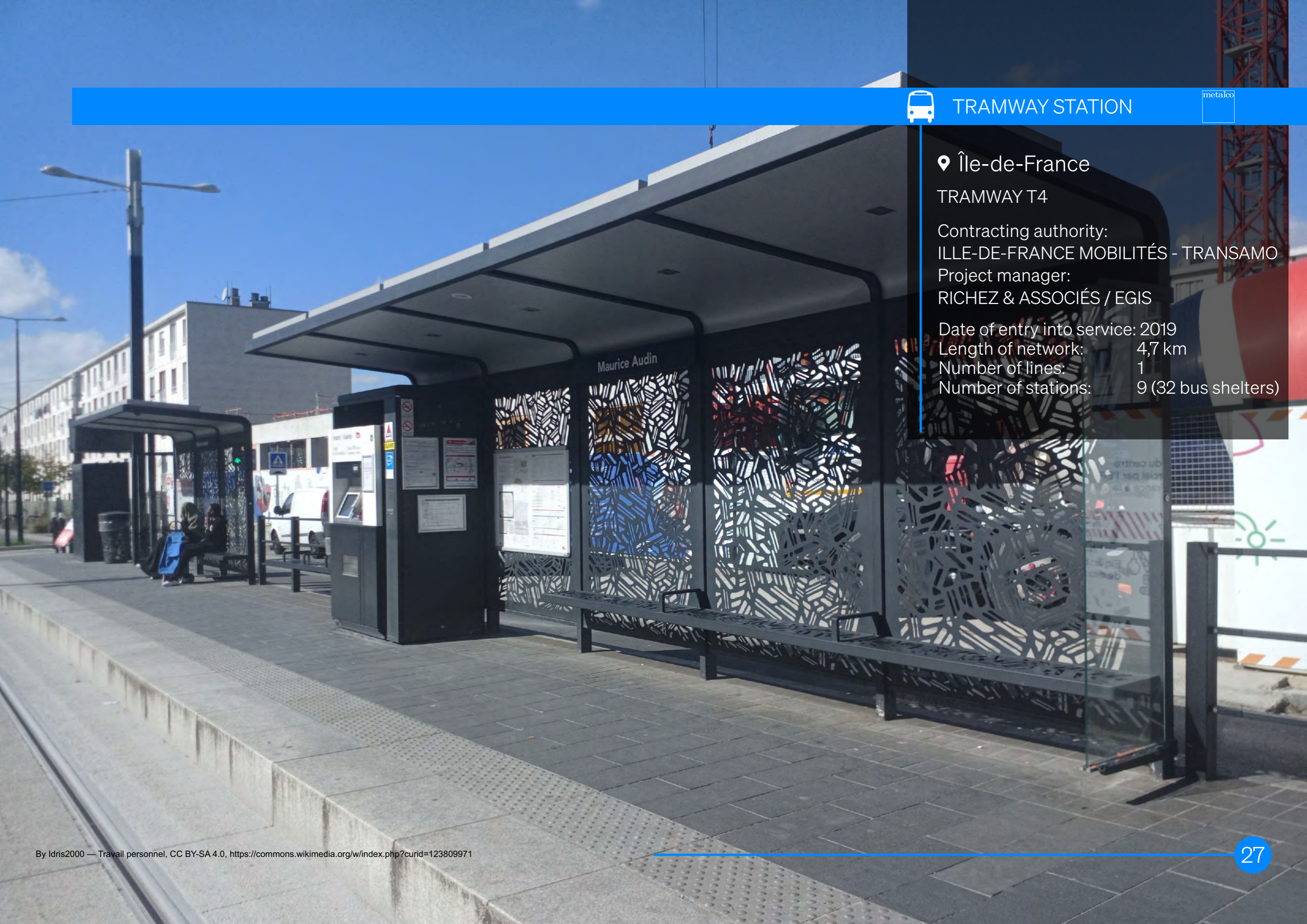
Project manager:
RICHEZ & ASSOCIÉS / EGIS

Date of entry into service: 2019

Length of network: 4,7 km

Number of lines: 1

Number of stations: 9 (32 bus shelters)





EXTENSION OF T4 LINE OF ÎLE-DE-FRANCE

The Île-de-France Line 4 (T4) is a tramway line in Île-de-France operated by the SNCF that connects Aulnay-sous-Bois on one side and Montfermeil on the other to Bondy in the Seine-Saint-Denis department.

The line is 12.6 km long and is divided into two branches.

In 2019, a branch of the line was put into service from the Gargan station, which is 4.7 km long and serves the towns of Clichy-sous-Bois and Montfermeil.

The special feature of the line is that it uses, for the first time in France, a tram-train vehicle, making a public transport system with this type of vehicle linking the tram and rail networks.

This project is an example of integrated urban design, in which shelters with integrated benches, waste bins and protective barriers all have a recognisable design thanks to a dedicated laser-cut decoration.

Each station is also equipped with technical cabinets.



TRAMWAY STATION



📍 Casablanca | Morocco

TRAMWAY LINE 1

Contracting authority:
CASATRANSPORT

Project manager:
SYSTRA / RICHEZ & ASSOCIÉS

Date of entry into service: 2013





TRANWAY LINE 1

Although not the capital, Casablanca is Morocco's main economic and financial centre and, along with Cairo and Algiers, the largest metropolis in the Maghreb.

With its first tramway line the city wanted to inaugurate a significant project whose aim was to rethink the road network, which would in turn lead to an ambitious urban transport project.

With its 48 stations and 30 km length, the Casablanca line is one of the largest in the world and runs through the city from east to west, linking the famous Sidi Moumen district to the university district.

This was a complete urban design project, where waste bins, barriers and carefully-finished benches were added to the shelters, which were in turn finished with laser-cut decorative panels to give the city a new image.



📍 OUARGLA | ALGERIA

Designer: GHM

Client: Entreprise Métro d'Alger (EMA)

Principal contractor: Systra

Installation done by
UTE Tranvia Ouargla (Elecnor)
Supply of overhead contact line supports
and lighting

Date of entry into service: 2018
Length of network: 9,7 km
Number of lines: 1
Number of stations: 16

Number of shelters: 32
Number of barriers: 924
Number of litter bins: 64
Number of litterdisplays: 16





1ST TRAMWAY LINE

Ouargla, a Berber city built on the site of a large oasis on the outskirts of the Sahara, is situated in a truly extraordinary location that makes it a real desert capital, as well as hosting a university and representing an important economic centre within the province. It is in this unique context that Algeria's fifth biggest tramway system is located; with a line of almost 10 km long, it connects the old city of El Ksar to the new one (Hai Nasr) crossing the entire city centre and joining the most important points on the outskirts of the city.

This complex project involved the construction of 16 stations comprising 32 shelters and completed by barriers, waste bins and information totems.

Its complexity was especially linked to that fact that high quality materials needed to be carefully selected to respond to the extreme climatic conditions found in the area, where temperatures can reach around 50°C in summer, and frequent sandstorms are common during the winter.

To ensure high standards and durability, the columns and beams are made of hot-galvanized and powder-coated steel, while the panels are in painted stainless steel, with laser-finished decorative elements and elegant red cedar finishes.

The Ouargla tramway was designed to improve mobility in a rapidly expanding city, offering an efficient and eco-friendly alternative to traditional transport modes.

The network is designed to serve the city's main points of interest, facilitating residents' movements.





TRAMWAY LINES



📍 Orléans | France

Designer: J-M WILMOTTE

Client: SEMTAO - TRANSAMO

Principal contractor:
SYSTRA - SETEC - GOVERNOR

Supply of overhead contact line
supports and urban furniture

Date of entry into service: 2000

Length of network: 29,3 km

Number of lines: 2

Number of stations: 51





TRAMWAY OF ORLEANS

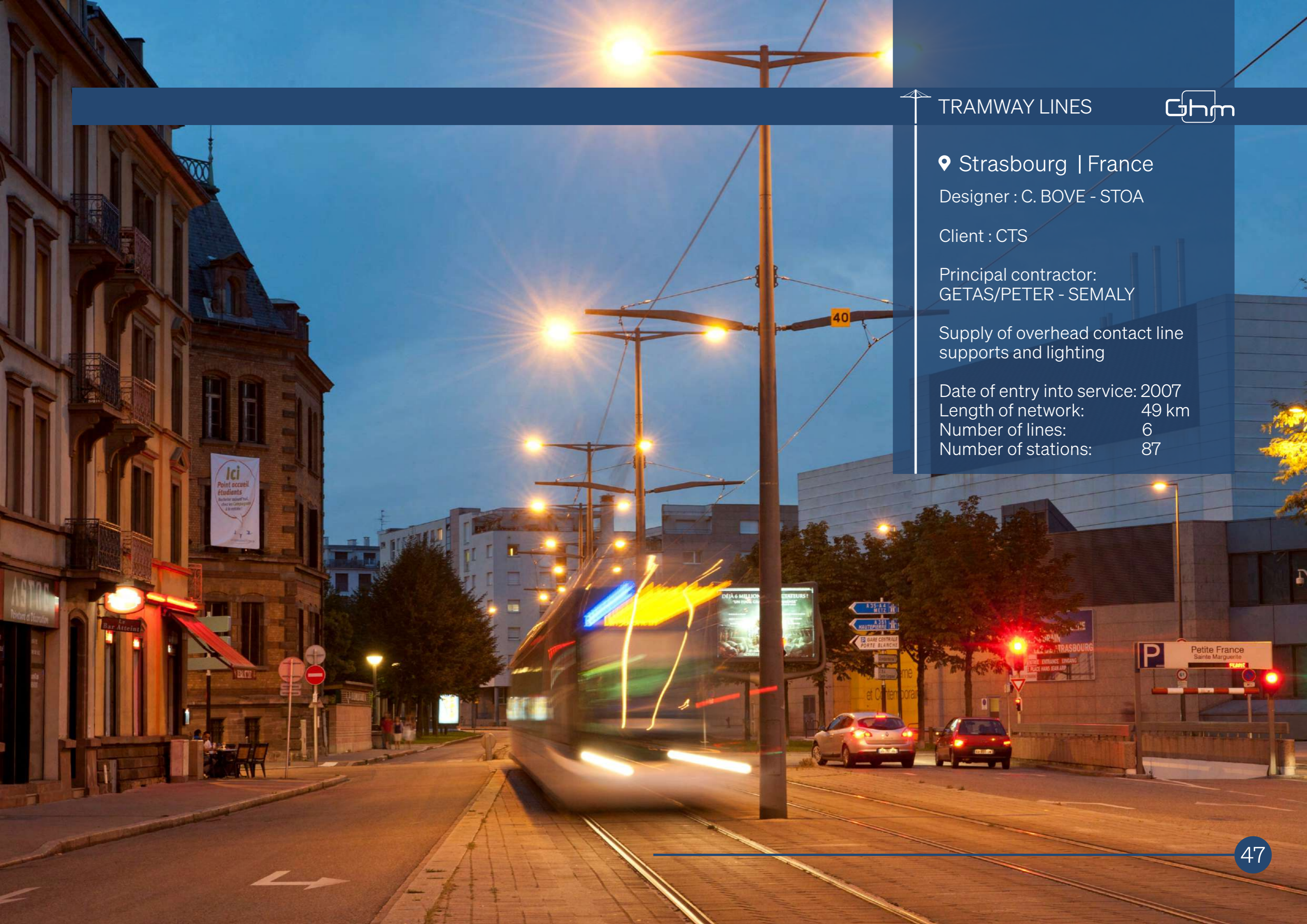
With its support post design featuring hollow sections topped with "multi-clip" arms, the Orléans tramway proclaims its technology, while incorporating precision design to great effect.

The accompanying street furniture, at the same time spare, precise, yet flowing, has broken, slightly rounded angles. With functional ease and the warmth of the material in all its simplicity, it catches the eye, evokes interest and quietly invites you to use it.

With a very small diameter, for reduced impact and overall dimensions, the range of poles used on the Orléans Tram has been specially designed to meet all installation and operational requirements (1 to 5 arms, with road and pedestrian lighting brackets).

Producing the entire range of street furniture and lighting for the whole Orléans tramway was a real performance in more ways than one.





TRAMWAY LINES



📍 Strasbourg | France

Designer : C. BOVE - STOA

Client : CTS

Principal contractor:
GETAS/PETER - SEMALY

Supply of overhead contact line
supports and lighting

Date of entry into service: 2007
Length of network: 49 km
Number of lines: 6
Number of stations: 87



TRAMWAY OF STRASBOURG

In a development that made it possible to rediscover the city, the street and traffic furniture equipping the tram routes unfolds clean-lined, refined, aerial "branches" lightly and with finesse.

Form and function unite here in a simplicity. The use of cast iron brings its own timeless brand of understated elegance.

Spheroidal graphite cast iron is an excellent solution for minimising the bulk of posts for overhead lines, taking into account the specific mechanical requirements of the site.

This material permits an appreciable reduction in diameter, or the same dimensions for different force ranges, and one-piece casting right down to fixing details.

Charles Bové has also developed an innovative design, with broken lines, for overhead line support arms and street lighting brackets.

To round off the technical elegance, a Halfen rail within the brackets permits great freedom in positioning the contact wires, reducing the number of different patterns needed.

To round off the technical elegance, a Halfen rail within the brackets permits great freedom in positioning the contact wires, reducing the number of different patterns needed.



TRAMWAY LINES



📍 Nancy | France

Designer: C. BOVE - STOA

Client: CUGN

Principal contractor:
THALES. INGEROP

Supply of overhead contact line
supports, lighting, and ticket machine

Date of entry into service: 2000
Length of network: 18 km
Number of lines: 1
Number of stations: 27





TRAMWAY OF NANCY

Faced with the much-needed modernisation of its public transport network, Nancy, the city of Art Nouveau, took inspiration from its familiar fluid forms and emphasis on nature and foliage in the equipping and dressing of the tram network.

These "multifunctional" posts combine a sensuous touch with technical efficiency.

The new design of, central and lateral, tramway support posts fully integrates the street lighting.

"One-piece" casting was a perfect solution for faithfully reproducing the "flowing" shapes designed by Charly Bové.

In this design, the formed steel arms also benefit from an original system of lateral racks. These brackets very discreetly continue the general design and replace clips.

The different types of posts are designed to accept various accessories, as required, such as banners, communication supports and other functional elements.



TRAMWAY LINES



📍 Lyon | France

Designer: J-M WILMOTTE

Client: SYTRAL

Principal contractor: SEMALY. AABD

Supply of overhead contact line supports and urban furniture

Date of entry into service: 2001

Length of network: 83,7 km

Number of lines: 8

Number of stations: 103



TRAMWAY OF LYON

The tram, with futuristic rounded contours, glides on its way in a magnificent rediscovery of the city.

Lyon's benefits from the development of new living spaces whose attractive organisation and simple, tasteful designs create the necessary landmarks and are paving the way for the advancement of the spirit of the city and its controlled development.

The mixed multipurpose posts, all built on the same base, have different functions: signage support, banners, street lighting ...

The "grooved" design of the posts takes accidents into account and limits the traces left by vehicle impacts.

The use of cast iron lends subtlety and harmony, whilst noticeably reducing the diameters at the top and bottom of the post, compared with steel.



TRAMWAY LINES



📍 Saint-Etienne | France

Designer: J-M. Verney-Carron

Client: Ville de Saint-Etienne

Principal contractor:
Atelier d'Architecture et d'urbanisme
JL Mathais

Supply of overhead contact line
supports

Date of entry into service:	2001
Length of network:	16,3 km
Number of lines:	3
Number of stations:	39



TRAMWAY OF SAINT-ETIENNE

A beam circled with a ligature, a "gadron", characterizes all the poles. This relief "work", which in its way matches the traditional grooves, is completed in an original manner with point spots on the top of the pole, white during the day and blue at night.

Developed for Saint-Etienne in association with designers and contract owners, the overhead power line supports have very interesting characteristics.

The overhead power line supports, positioned laterally, include single or double functional lighting on a moulded aluminium bracket. Performances of poles in terms of resistance, make them multifunctionals, such as support for a "kakemono", railway or road signals and information panels.

Stability, strength, looks and durability are the essential qualities of these supports, not to mention the fact that their raised surface limits illegal posting.



TRAMWAY LINES



📍 Angers | France

Designer: AUP

Client: Angers Loire Métropole

Principal contractor:
INGEROP / TRACTEBEL / ROLLAND

Supply of overhead contact line
supports

Date of entry into service: 2011

Length of network: 22,4km

Number of lines: 3

Number of stations: 42



TRAMWAY OF ANGERS

The Angers tramway was born of an ambitious vision to improve the quality of life in the city centre by offering a fast, environmentally-friendly alternative to car travel.

Angers Loire Métropole initiated this project to enhance the city's economic and tourist appeal, while promoting sustainable mobility.

The tram network is harmoniously integrated into the urban fabric of Angers, with carefully designed landscaping and enhanced pedestrian areas.

This exemplary urban integration enhances public spaces while creating a more pleasant, user-friendly environment for residents and visitors alike.



TRAMWAY LINES



📍 Besançon | France

Designer: STOA

Client: Grand Besançon Métropole

Principal contractor: EGIS Rail

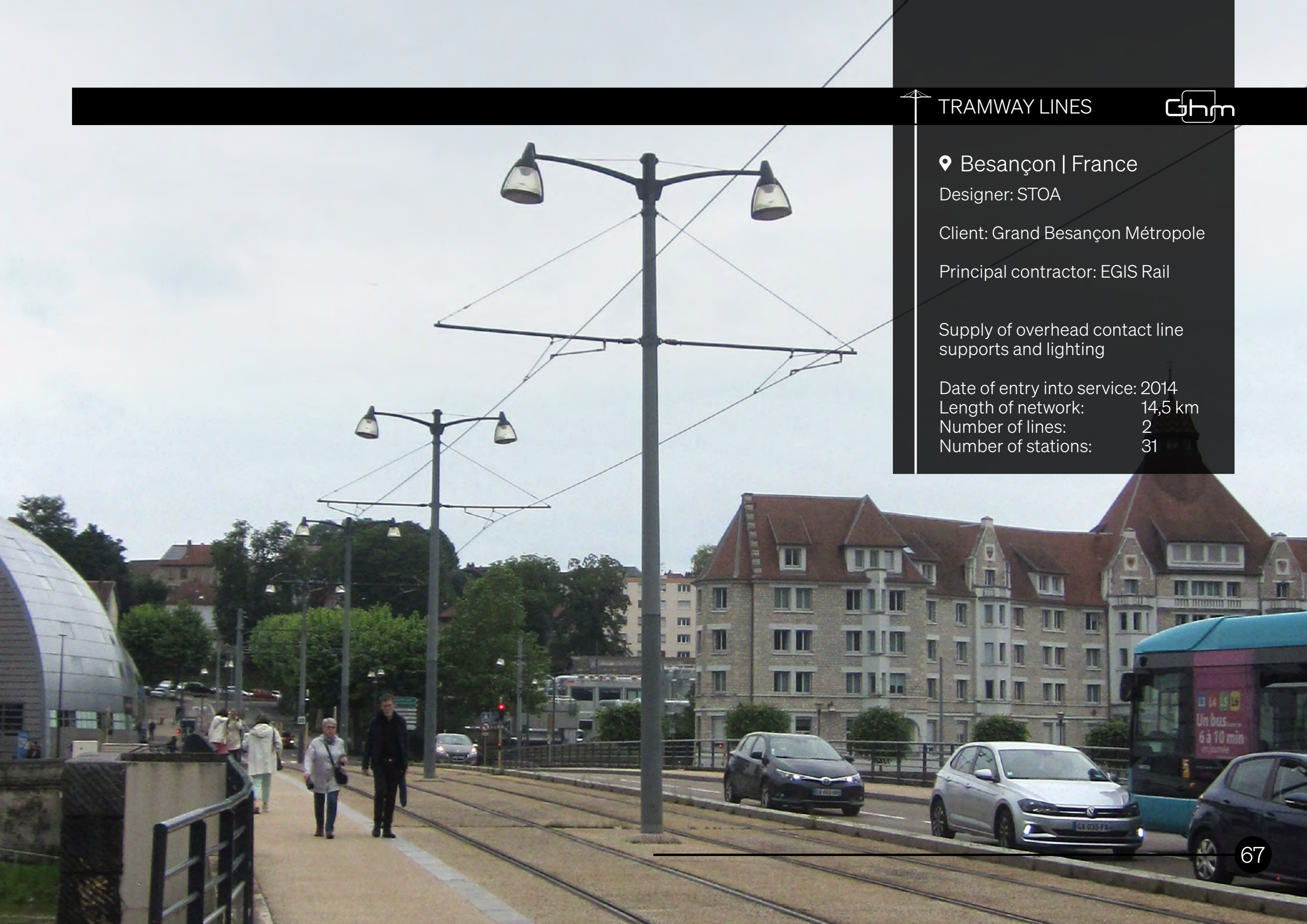
Supply of overhead contact line supports and lighting

Date of entry into service: 2014

Length of network: 14,5 km

Number of lines: 2

Number of stations: 31





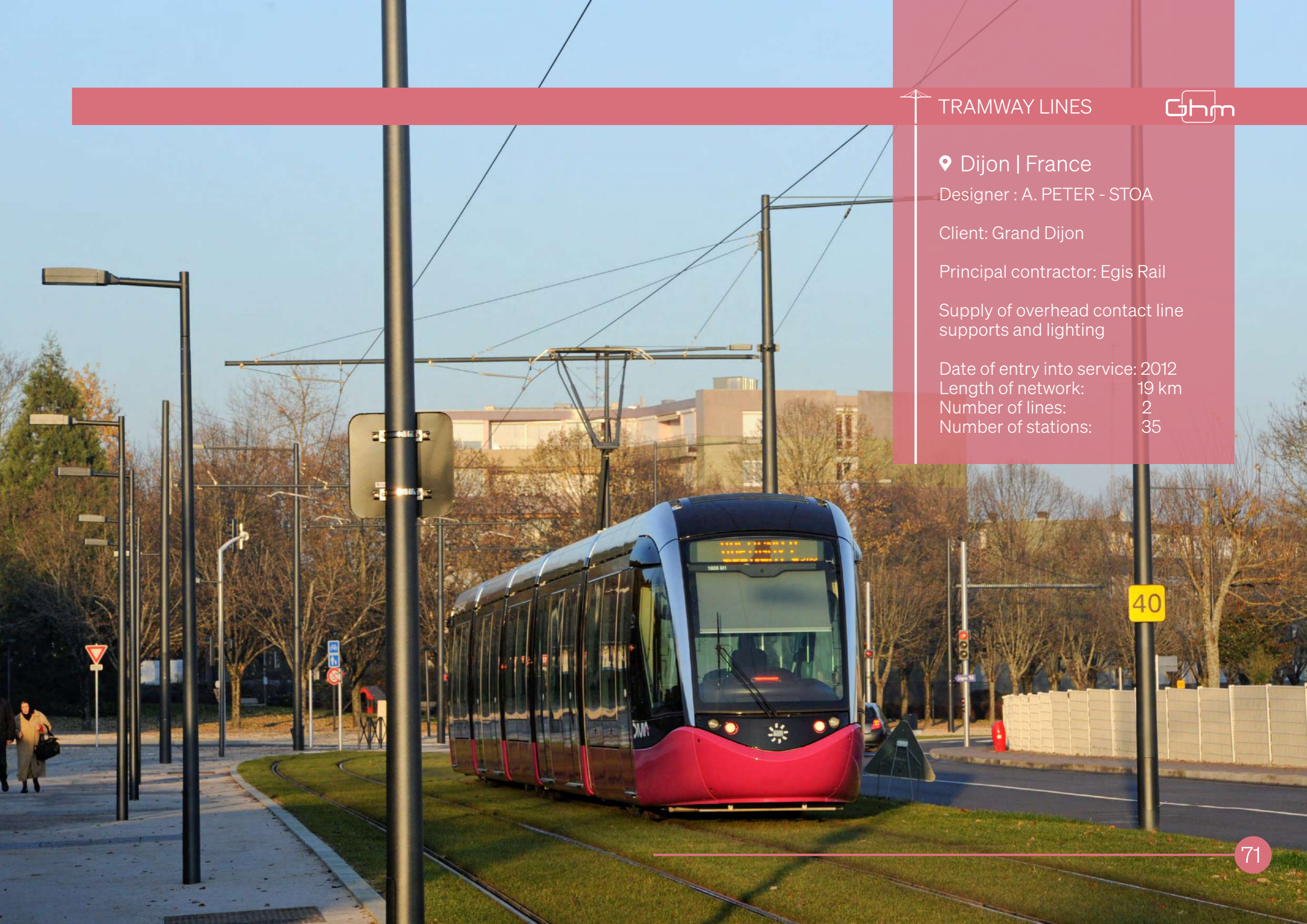
TRAMWAY OF BESANCON

Besançon has launched its tramway project with the aim of providing an efficient and environmentally-friendly alternative to private cars.

The project is a response to the growing demand for urban mobility and aims to revitalise several districts of the city.

The Besançon tramway stands out for its cost optimisation and exemplary urban integration.

The network is designed to blend in with the existing urban fabric, encouraging fluid, environmentally-friendly mobility while contributing to urban regeneration.



TRAMWAY LINES



📍 Dijon | France

Designer : A. PETER - STOA

Client: Grand Dijon

Principal contractor: Egis Rail

Supply of overhead contact line supports and lighting

Date of entry into service: 2012
Length of network: 19 km
Number of lines: 2
Number of stations: 35



TRAMWAY OF DIJON

The Dijon tramway project is part of an ambitious vision to modernise the public transport network, in line with today's demands for sustainable mobility.

Designed to alleviate car congestion and enhance the quality of life of local residents, this project embodies a model of environmentally-friendly, high-performance transport.

With its resolutely modern infrastructure, the Dijon tramway runs on two main lines, T1 and T2.

These lines serve a multitude of districts, creating fluid connections between the main urban centres and facilitating access to the city's major business areas.



TRAMWAY LINES



📍 Limoges | France

Designer : JM VERNEY CARRON

Client: Limoges Métropole

Principal contractor: CGC

Supply of overhead contact line supports

Date of entry into service: 1999

Length of network: 32,5 km

Number of lines: 5

Number of stations: 116



TROLLEYBUS OF LIMOGES

The Limoges trolleybus has been revitalised as part of an initiative to meet the growing need for public transport in a city historically characterised by car journeys that generate traffic jams and pollution.

Limoges Métropole is committed to a far-reaching modernisation of its network, adopting environmentally-friendly technologies.

This trolleybus network is distinguished by the use of electric vehicles, symbols of silent urban mobility with no direct emissions.

This transformation is part of an overall approach to improving the quality of urban life, by offering a sustainable and efficient transport alternative.



TRAMWAY LINES 

📍 Marseille | France
Designer: STOA - A. PETER

Client: CUMPM

Principal contractor: INGEROP

Supply of overhead contact line supports and lighting

Date of entry into service: 2007
Length of network: 13 km
Number of lines: 3
Number of stations: 32



TRAMWAY OF MARSEILLE

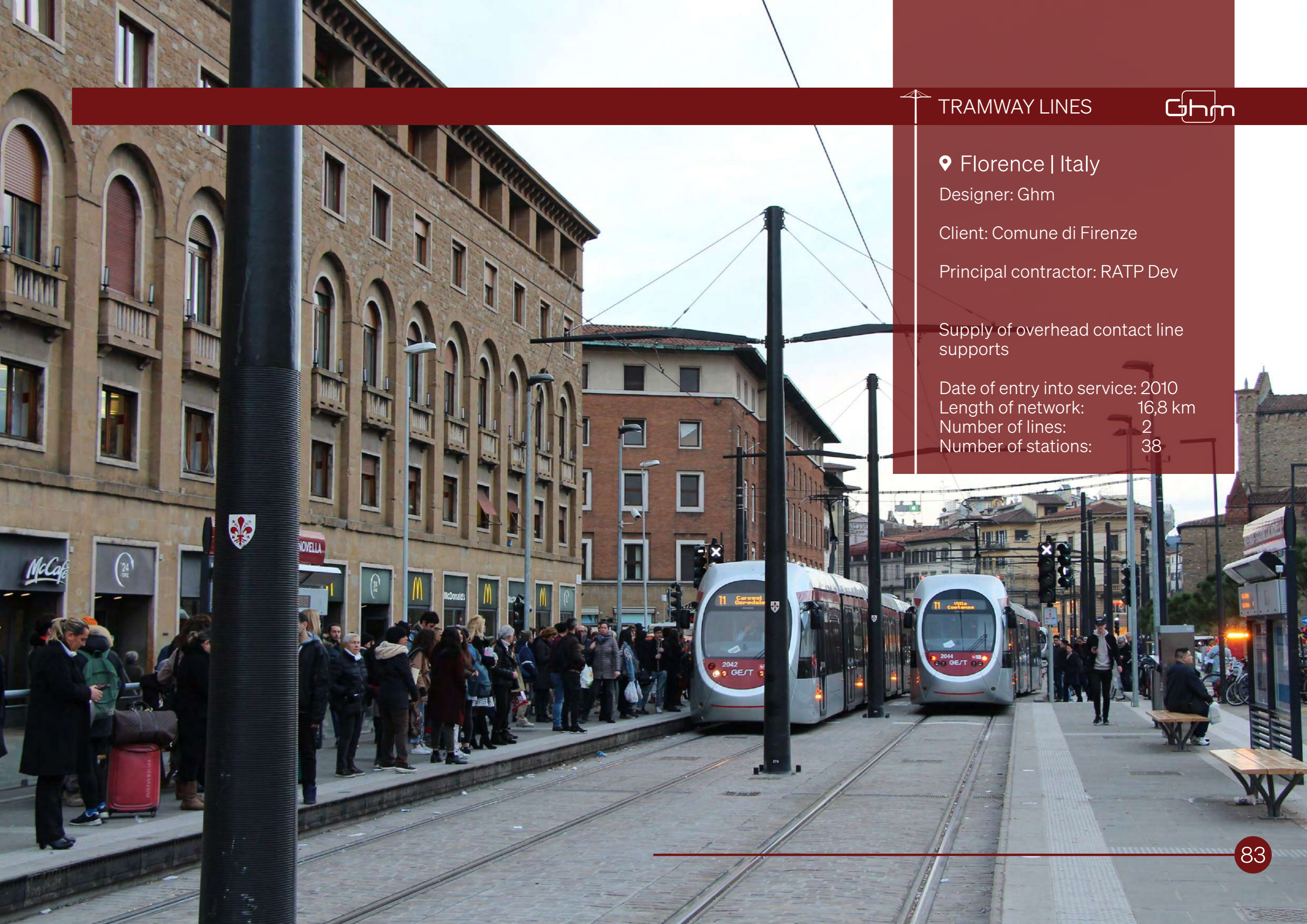
The Marseille tramway project was designed to improve the public transport network in response to increasing traffic and pollution problems.

Part of a wider urban redevelopment plan, the project aims to transform mobility and quality of life in the city.

The Marseille tramway stands out for its modern infrastructure and its exemplary integration into the urban fabric.

The tramway lines run through strategic areas, providing easy access to the city's main districts.

This approach not only relieves traffic congestion but also revitalises urban spaces, offering residents a sustainable and aesthetically pleasing transport solution.



TRAMWAY LINES



📍 Florence | Italy

Designer: Ghm

Client: Comune di Firenze

Principal contractor: RATP Dev

Supply of overhead contact line supports

Date of entry into service: 2010
Length of network: 16,8 km
Number of lines: 2
Number of stations: 38



TRAMWAY OF FIRENZE

Florence's tramway project was initiated with the aim of reducing car traffic in the historic centre, thereby helping to improve air quality.

The initiative also aimed to modernise the city's transport infrastructure, adapting it to contemporary needs.

Florence's tram network incorporates cutting-edge technology, guaranteeing a reliable and efficient service.

In harmony with Florentine architecture and heritage, this project represents a significant step towards sustainable, environmentally-friendly mobility.



TRAMWAY LINES



📍 Nantes | France

Designer: ROUSSEAU

Client: Nantes Métropole

Principal contractor: INGEROP

Supply of overhead contact line supports

Date of entry into service: 2003

Length of network: 44,3 km

Number of lines: 3

Number of stations: 83



TRAMWAY OF NANTES

Nantes launched its tramway project with a view to strengthening its public transport network and promoting sustainable mobility.

The aim of this ambitious project was to offer an efficient and environmentally-friendly alternative to the car, in response to the contemporary challenges of urban mobility.

The Nantes tram network blends harmoniously into the urban fabric, facilitating access to the city's various districts.

Thanks to its meticulous design, the tramway provides a fast, fluid connection between major centres, while respecting the urban aesthetic and contributing to the quality of life of local residents.



TRAMWAY LINES



📍 Nice | France

Designer: J-M BOURRY

Client: Métropole Nice Côte d'Azur

Principal contractor: SYSTRA

Supply of overhead contact line supports and lighting

Date of entry into service: 2007

Length of network: 24,2 km

Number of lines: 3

Number of stations: 46



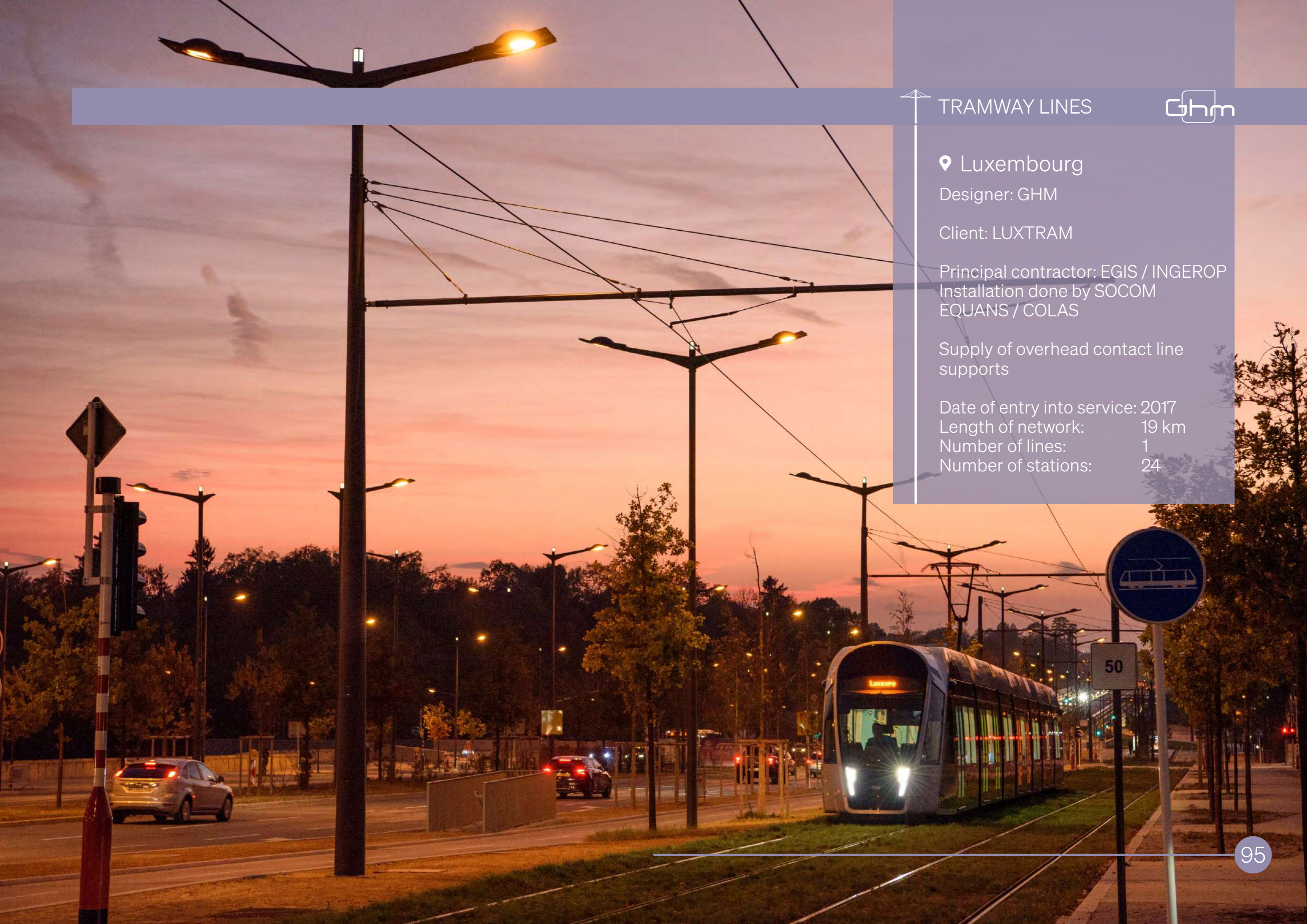
TRAMWAY OF NICE



The creation of the Nice tramway was part of an imperative need to relieve urban traffic congestion and reduce atmospheric pollution.


This project, supported by the Nice Côte d'Azur metropolitan authority, is an integral part of an ambitious sustainable development approach.

The Nice tramway stands out for its modern, inclusive services, including spaces dedicated to people with reduced mobility and real-time information systems.

This innovative transport infrastructure blends seamlessly into the urban landscape, contributing to smoother, more environmentally-friendly mobility.



 TRAMWAY LINES 

 Luxembourg
Designer: GHM
Client: LUXTRAM
Principal contractor: EGIS / INGEROP
Installation done by SOCOM
EQUANS / COLAS

Supply of overhead contact line supports

Date of entry into service: 2017
Length of network: 19 km
Number of lines: 1
Number of stations: 24



TRAMWAY OF LUXEMBOURG

The Luxembourg tramway was set up to improve urban mobility and offer a sustainable alternative to car travel.

This project is part of an overall policy of sustainable development and reduction of CO₂ emissions, aimed at transforming mobility in the city.

The tram network crosses Luxembourg's main thoroughfares, providing easy access to commercial and residential areas.

Thanks to its modern, well-integrated infrastructure, this project not only relieves traffic congestion in the city, but also contributes to the revitalisation of urban areas, while respecting the city's aesthetic and architectural heritage.

● MARSEILLE



● LIMOGES



● ● ● ● ●
 Plasticity
 and
 elegance

Cast iron is infinitely formable, and can be worked to give ideas life and volume.

That property has attracted renowned designers, who have taken advantage of its plasticity to move away from conventional forms.

Creators can invent new figures and motifs and give free rein to their inspiration

● NANCY



● NICE



● STRASBOURG



● ANGERS





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