

## SUSTAINABLE PROJECTS

Based on accumulated experience, fruit of the work of our 200 collaborators, and on the positive results obtained, enabling us to operate efficiently and sustainably (99.7% service availability - a coverage ratio of over 100%), we can provide a line of technical assistance based on:

- PLANNING
  - PROJECT
    - CONSTRUCTION
      - TESTS AND TRIALS
        - PRE-OPERATIONAL PHASE
          - SERVICE SIMULATION
            - OPERATION AND MAINTENANCE

MTSA is certified in Quality Assurance (ISO 9001), Health and Safety in the Workplace (OHSAS 18001) and in Environmental Management (ISO 14001). In 2010 the company became the first Spanish public transport operator to obtain the Universal Accessibility certificate, UNE 170001, in all its activities.

MTSA is a member of the UITP (International Association of Public Transport) Light Rail Committee and belongs to the Latin American Metro and Subway Association, Alamys. MTSA takes an active part in COST (European Cooperation in Science and Technology) on safety in Tramway systems.

### ANNUAL DATA FOR TENERIFE TRAMWAY

Patronage	14 million passengers
Km covered	2 lines / 1.5 million km
Operations staff	110
Maintenance staff	40
Revenue	22 million€
Operational & Maintenance costs	13 million€



### METROPOLITANO DE TENERIFE, S.A.

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## ASSESSMENT ON SUSTAINABLE MOBILITY PROJECTS



## SINCE 2001 OPERATING IN MOBILITY

Constituted on January 22, 2001, Metropolitano de Tenerife (MTSA) is a Public Private Partnership Company. The Cabildo Insular de Tenerife (the Tenerife Island Government) holds an 80% stake in the company, Tenemetro, S.L. 14% and Caixabank 6%.

MTSA was founded to launch an alternative means of transport in the form of railway lines on the island of Tenerife. To do so:

We drew up and developed all necessary plans and studies for the design and actual execution of an effective and efficient Guided Transport network, and for the building of other facilities that would provide auxiliary services for the operation of the network.

We designed, built and launched the first two tram lines in the metropolitan area of Santa Cruz de Tenerife, which contribute to alleviating traffic congestion, facilitate and meet the mobility needs of the population of Tenerife and of the millions of visitors to the island.

We drew up transport plans and projects for the execution of two high performance railway lines for Tenerife - 80 kilometres on the south corridor of the island and 40 kilometres on the north corridor, 13 interchanges and workshop and depot facilities.

We have been operating and maintaining Tramlines 1 and 2 (12.5 and 3.6 km respectively) since 2007, with a patronage of 14 million passengers a year.

DESIGN CONSTRUCTION OPERATION MAINTENANCE



YOUR OPERATOR IN MOBILITY

**WE LAY THE GROUND TO MEET YOUR NEEDS**

- Mobility studies
- Selection and adaptation of transport means
- Proposal for integrated urban transport
- Project feasibility studies

**AT YOUR SIDE IN MANAGING THE PROJECT**

- Technical assistance in project management
- Project planning
- Drawing up of technical and administrative specifications
- Management of invitations to tender
- Drawing up and reviewing of technical, functional and interface specifications.
- Study on public transportation reorganisation
- Defining the fare structure
- Accessibility plan

**TRANSPORT INTERCHANGES**

– Modal interchange: bus, tram, taxi, private vehicle and train.

Capacity:	
• Bus stances	22
• Private vehicles	250
• Taxis	6
Surface area	14,920 m <sup>2</sup>
Investment	6.7 million €

**WE ADAPT THE SYSTEM TO THE ENVIRONMENT**

- Development, programming and management of the Test Run
- Service demonstration
- Validation of procedures

**ALL OUR EXPERIENCE AT YOUR SIDE - FROM OPERATOR TO OPERATOR**

- Drawing up of operations plan
- Definition and optimisation of service
- Obsolescence management
- Revision and optimisation of maintenance plan
- Guarantee management
- Reliability, availability, maintainability and safety (RAMS) study

PLANNING

PROJECT

CONSTRUCTION

TESTS AND TRIALS

SERVICE SIMULATION

OPERATION AND MAINTENANCE

**TENERIFE TRAIN PROJECT**

- Project planning, financial model, basic and construction projects for the South Train and the North Train.
- Construction projects for transport interchanges.
- Substation and energy projects.
- Freight transport viability studies.
- Economical viability studies.

	SOUTH TRAIN	NORTH TRAIN
Length	80 km	35 km
Interchanges	10	7
Vehicles (100 m)	17	
Investment	1,800 million €	1,500 million €

PRE-OPERATIONAL

**WITH YOU ON SITE**

- Technical assistance on works
- Works planning
- Monitoring and certification of works
- Quality, execution and interface management

**TOGETHER WE WILL BUILD THE BASIS OF THE OPERATION**

- Assessment in Human Resources and Labour Relations
- Drawing up of operations documents
- Theoretical and practical training for staff
- Driver training

**WE MAKE SURE EVERYTHING IS IN ORDER**

- Development, coordination and monitoring during the testing of:
  - Systems
  - Interfaces
  - Integration
- System robustness testing
- System degraded modes trial

**TENERIFE TRAMWAY PROJECT**

- Project management, basic and construction project and supervision of Tenerife Tramway (lines 1 and 2), Workshops and Depot.

	LINE 1	LINE 2
Length	12.5 km	3.6 km
Stops	21	6
Vehicles	20	6
Investment	330 million €	70 million €

