



# CITY ENGINEERING





WHO  
ARE WE?



### MM Spa

is a Company founded in 1955 by the Milan Municipality to design and build the first Metro lines for the City. From then on, it has participated in the construction and management of the city's major infrastructures.

MM is today one of the biggest and most diversified Italian engineering companies with a growing international footprint and capable of providing bespoke solutions in engineering design, redevelopment and improvement of urban environment.

### What we do

- we develop sustainable and smart mobility solutions
- we plan and design efficient urban transit networks
- we ensure access to the public-owned drinking water
- we support public authorities in real estate management and upgrading
- we participate in all stages of urban development

### Our approach

Being aware of the basic role of infrastructure networks within urban settings and steadily focusing on sustainability, our architects, design engineers and other experts provide high-level consultancy required in managing and appreciation of local reality toward the smart city perspective with a consistent sense of sustainability.

### We create cities

...by transforming interconnected neighborhoods of today's cities into smart cities fitted with cybersecurity, smart metering and smart grids.

### CREDIBILITY: AN ADDED VALUE

We at MM know how to build and manage a city, we have done it for over 60 years by working on most big projects and supplying urban services that distinguish Milan. Our commitment involves:

- half of the underground assets, including the construction of the Metro (subway) network and the operation of the Waterworks
- purification of the public drinking water
- removal and recycling of wastewater
- property management of the public residential housing
- mega-events: construction and maintenance of the Smart City for EXPO 2015
- development plans for the transportation infrastructure
- community marketing (lobbying, public relations, events)



### HOW WE RESPOND TO THE CITY NEEDS?

We at MM are aware that the basic urban structures should be tackled to convert cities into efficient and sustainable systems and make them a better place to live and work in. Starting from there we have developed our core businesses:

-  **periurban mass transit**  
improving mobility
-  **the waterworks**  
taking care of the water cycle
-  **public residential housing**  
managing the social housing property
-  **mega-events**  
plan the unfolding and legacy

We provide value through engineering, by maximizing functionality, optimizing costs and time, minimizing environmental impact. In close co-operation with our clients (institutions and municipal authorities), we define operating solutions for each of these areas. We use our professional skills as the Tendering Authority for the Milan Municipality and as international tenderer to meet specific needs of each conurbation: taking a global view helps improve the local one. Ultimately, City Engineering means designing infrastructural networks in tune with human ones, using

Smart Technology to focus on the citizen and learn to listen and support their communities. The goal is continuous improvement in service delivery and in increase of infrastructure coverage within urban environments.

### NEW TOWN

We are there for the entire life cycle of a city: our expertise lets us undertake all phases of the planning process and engineering design: feasibility, preliminary and detail design required in community development, beside those pertaining to the operation and maintenance of urban heritage. We operate in all directions within the urban system: in diverse disciplines, from water engineering, roadworks, district transportation plans, facility management, e Government services and urban redevelopment.

**MM can be engaged to create a new Smart City in all its aspects as we had done as the sole operator for EXPO 2015.**





## SERVICES TO THE CITY



### WATERWORKS

We take care of the drinking water by following its entire cycle, from water table monitoring to the reuse of recycled wastewater for irrigation purposes.

Our water engineering services include drinking water supply, stormwater drainage and wastewater collection, managing of surface waterflow rates across the City, defense, cleaning and recycling of the wastewater.

**Optimizing the management in MM means prioritizing the introduction of new technology in terms of maintenance, remote control and lab analyses, in order to create a smart network.**

#### Water cycle

| Phases       | Processes   | Technology            |
|--------------|-------------|-----------------------|
| Water table  | Engineering | Modelling             |
| Catchment    | Maintenance | Trenchless technology |
| Purification | Monitoring  | Smart networks        |
| Distribution | Utilities   | GIS                   |
| Collection   | Information | ICT                   |
| Recycling    | Environment | Hydrogeology          |
| Reuse        |             |                       |

### PUBLIC RESIDENTIAL HOUSING

The heritage of affordable social housing is but one of the basic city networks, closely connected to the urban-development and land use policies.

Monitoring of the area, therefore of the people's needs and of political and institutional opportunities are the foundations of efficient planning and management: re-engineering the communication lets us know what should be done and how to improve the accessibility to the housing.

#### > FACILITY MANAGEMENT

MM manages more than 38,000 apartments in Milan, plus around 1,500 in its suburbs, taking care of:

- maintenance of the real-estate heritage: apartments, car lots and auxiliary spaces
- greenery
- heating and other condo systems
- cleaning
- utility management, user relations and communication
- tenders for service and supply contracts



## COMMUNITY DEVELOPMENT



### URBAN TRANSIT INFRASTRUCTURE

With more than 60 years of activity in the field of mass urban transit engineering, we know what it means to move people: over few decades the use of mass transit in Milan grew from 15 to 60 percent, and we have been at the origin of this major change in modal split. Functional benchmarking leads our way toward the best solution to the mobility demand in cities.

MM has done the engineering, the works management and safety coordination for:

- traditional (heavy), light and driverless metros,
- tram and LRT lines
- rail lines
- motorways and other roadworks.

Our services also include specialist studies (trackwork, noise & vibration, fire safety in tunnels, etc.), assistance to the public authorities and engineering design inspection.

### Inspection body

MM offers its type-B engineering design inspection services accredited in all UE countries and those adhering to the EAMLA ILAC MRA international agreements.



### MEGA-EVENTS: EXPO 2015

MM is a leading player in the field of community engineering, which is why we have been selected to engineer, build and manage the main areas of the Universal Exposition site.

**Our capabilities (waterworks, heritage management, periurban transportation, infrastructure, energy, utilities, community marketing) have all merged to form the new Smart City.**

We were there during the engineering, the construction site definition, the exposition itself, the post-events and the definition of everything that will become the legacy for the City.



**110 ha**  
(272 acres)  
surface area



**3.5 years**  
of work



Engineering design, Works Management, Safety, General Coordination, Testing & Commissioning, Maintenance



**16,472**  
maintenance operations

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