



View from Fori Imperiali street with Maxentius Basilica on the right and Colosseum in the front



THE LINE C OF ROME METRO

Line C of Rome metro, that is now under construction, will cross the city from North-West (Della Vittoria district) to the eastern suburb and will extend beyond the Grande Raccordo Anulare.

Line C will have a full-run of 25,6 km and 30 stations, passing through the old town centre. The Route will be characterised by the colour green.

The interchanges with the other metro lines will be San Giovanni and Ottaviano (Line A) and Colosseo (Line B).

The new Line C is excavated under the most wellknown historical buildings and artistic heritages of Rome such as the Colosseum, the Temple of Venus and Roma and the Basilica of Maxentius.

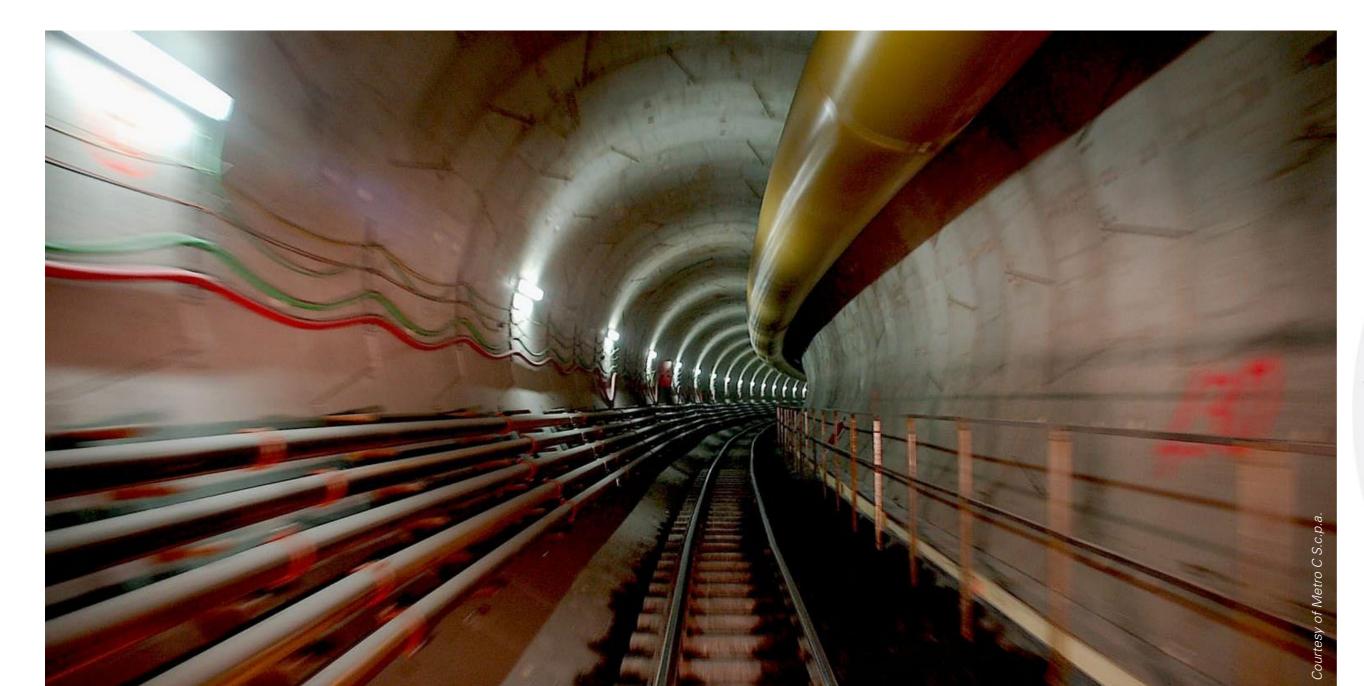
Sisgeo has supplied for the Line C project thousands of instruments and large number of data loggers for the monitoring of tunnels, stations, buildings and artistic heritages.



The General Contractor of the project is Metro C S.c.p.a., a group of Companies composed by Astaldi, Vianini Lavori, Ansaldo STS, Cooperativa Muratori e Braccianti di Carpi and Consorzio Cooperativa Costruzioni (www.metrocspa.it).

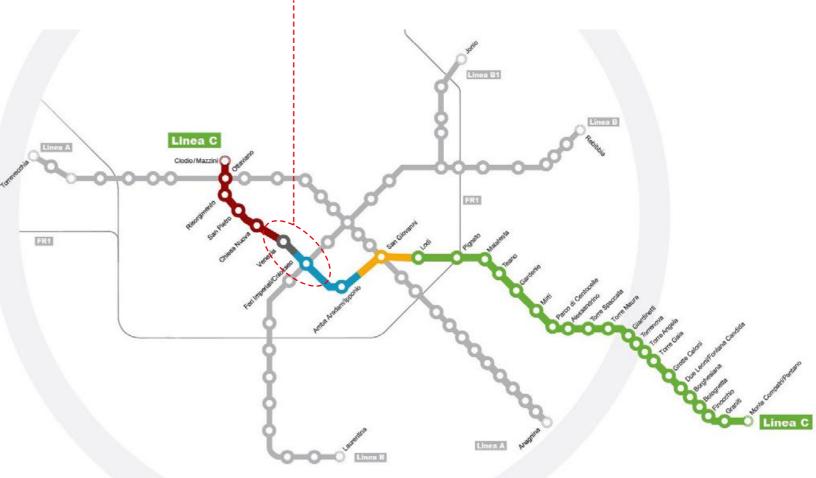


All the instruments and dataloggers are installed and managed by IMG S.r.l. (www.img-srl.com/)





COLOSSEUM TEMPLE OF VENUS AND ROMA BASILICA OF MAXENTIUS



New Line C tunnel excavated with TBM machine. Concrete lining are instrumented with Sisgeo vibrating wire strain gauges

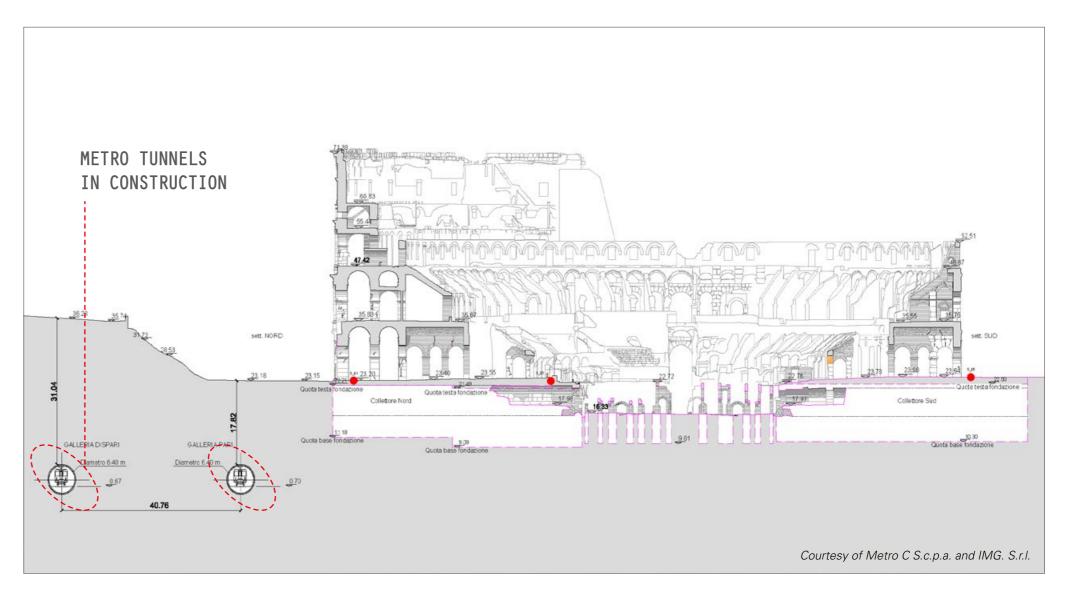
COLOSSEUM



The Colosseum's original Latin name was Amphitheatrum Flavium. The building was constructed by emperors of the Flavian dynasty, following the reign of Nero. Construction began under the emperor Vespasian in AD 72, and was completed in AD 80 under his successor and heir Titus.

The Colosseum today is the major tourist attraction in Rome with thousands of tourists each year, so that the maintenance of the structure is of primary importance for the City of Rome and for human history.





COLOSSEUM

SISGEO INSTRUMENTS INSTALLED IN THE COLOSSEUM AREA





12 wire deformometers

7 TILT METERS

4 THERMOMETERS



2 INCLINOMETER COLUMNS

2 MULTIPOINT BOREHOLE EXTENSOMETERS

2 CASAGRANDE PIEZOMETERS

2 VIBRATING WIRE PIEZOMETERS

IN THE GROUND

COLOSSEUM









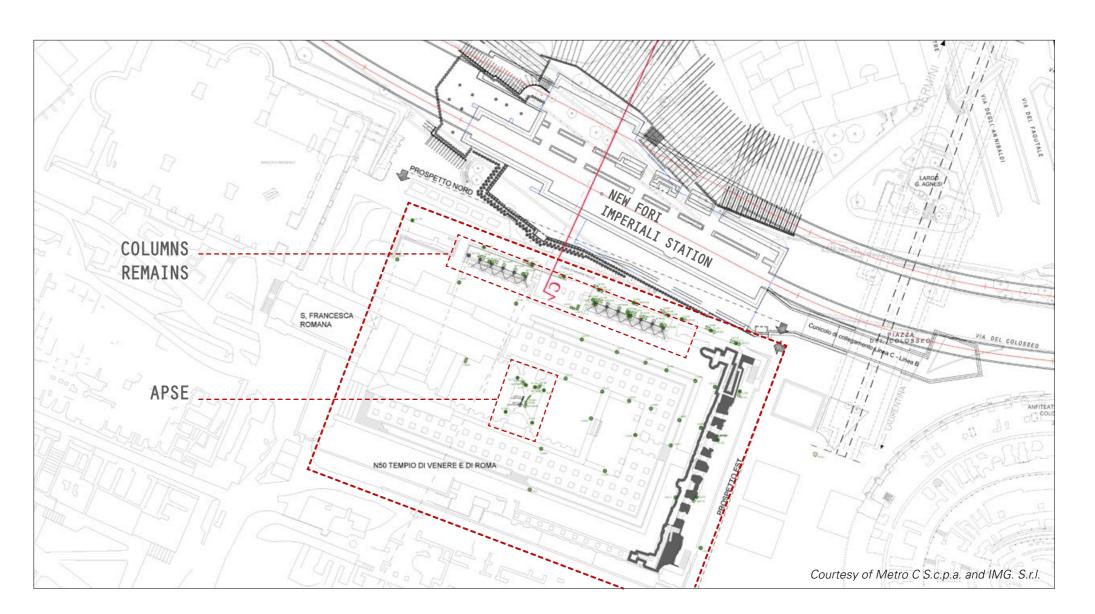


The Temple of Venus and Roma is thought to have been the largest temple in Ancient Rome. Located on the Velian Hill, between the eastern edge of the Forum Romanum and the Colosseum, it was dedicated to the goddesses Venus Felix and Roma Aeterna. The architect was the emperor Hadrian and construction began in AD 121.

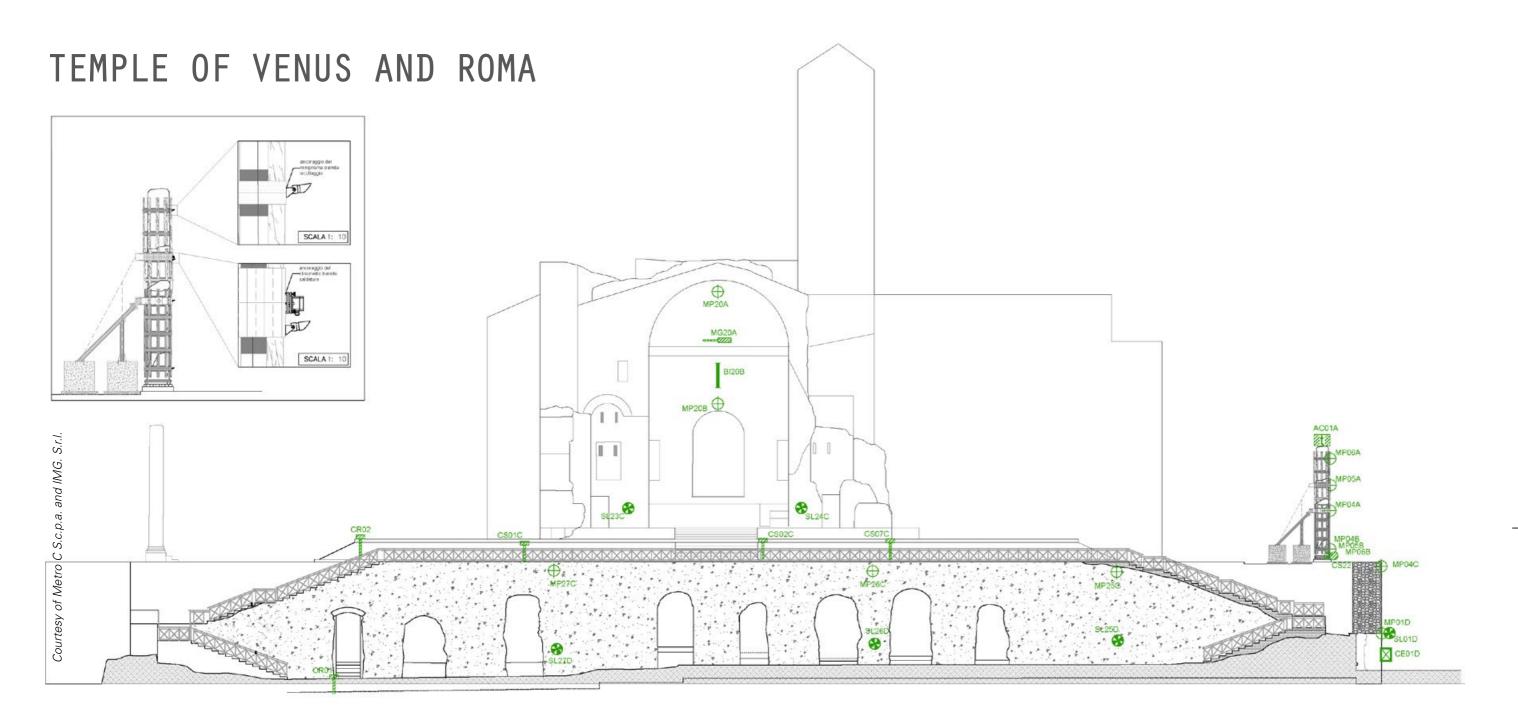
Sisgeo instruments are installed on the temple apse and on the metal frames that support the columns remains.



View of Temple of Venus and Roma from the Colosseum







SISGEO INSTRUMENTS INSTALLED IN THE TEMPLE OF VENUS AND ROMA

- 20 VW SPOT WELDABLE STRAIN GAUGES
- 10 TILT METERS
- 3 TILT BEAMS
- 2 JOINT METERS

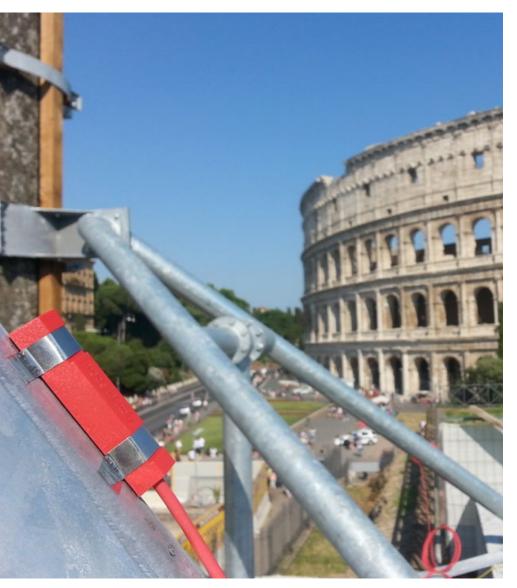


TEMPLE OF VENUS AND ROMA











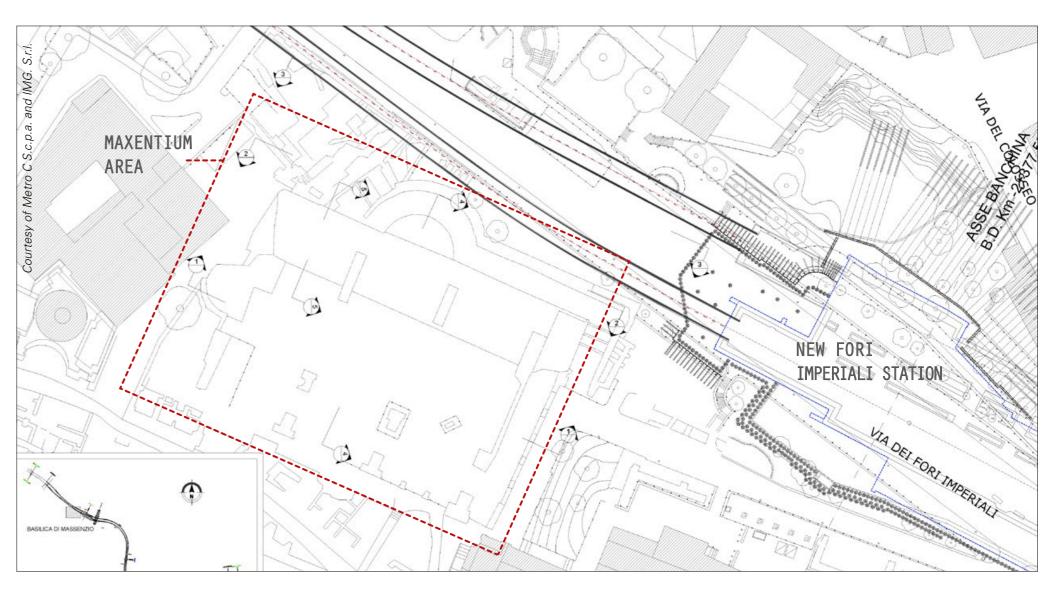


The Basilica of Maxentius and Constantine was the largest building in the Forum. Construction began on the northern side of the forum under the emperor Maxentius in AD 308.

The building consisted of a central nave covered by three groin vaults suspended 39 meters above the floor on four large piers, ending in an apse at the western end containing a colossal statue of Constantine. The lateral forces of the groin vaults were held by flanking aisles measuring 23 by 17 metres.

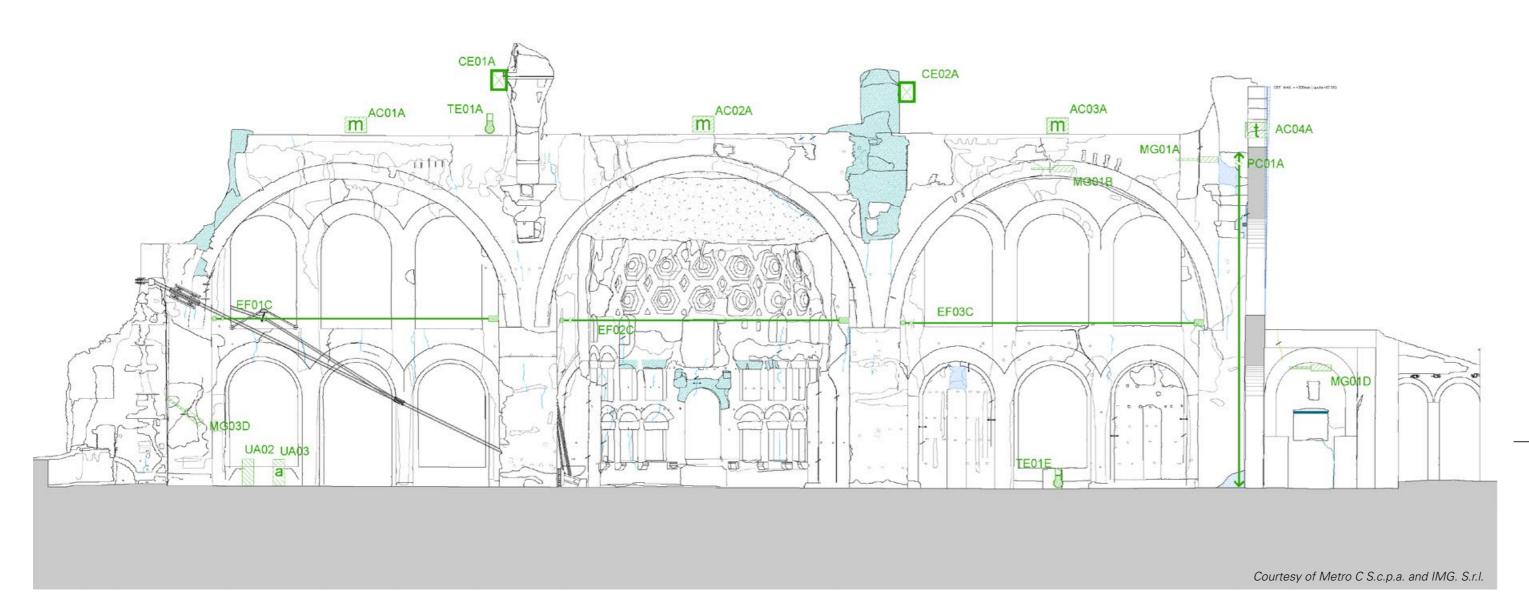
The south and central sections were probably destroyed by the earthquake of 847. In 1349 the vault of the nave collapsed in another earthquake. All that remains of the basilica today is the north aisle with its three concrete barrel vaults.





MAXENTIUS BASILICA





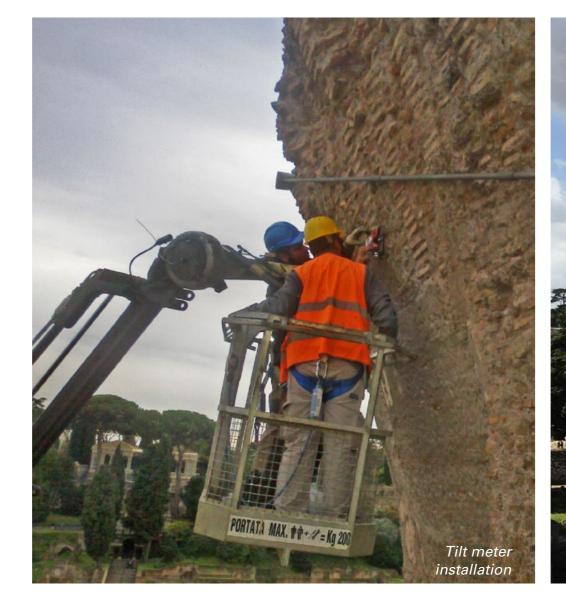
SISGEO INSTRUMENTS INSTALLED ON MAXENTIUS BASILICA

- 10 JOINT METERS
- 5 TILT METERS
- 5 WIRE DEFORMOMETERS
- 2 DIRECT PENDULUMS
 WITH AUTOMATIC READOUT
- 2 THERMOMETERS

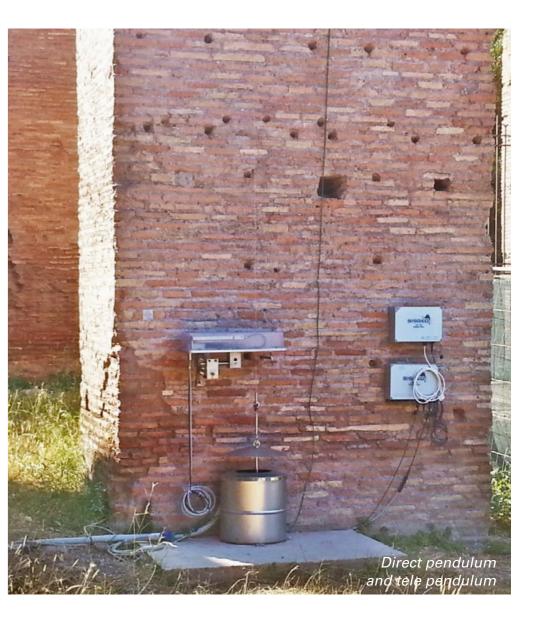


MAXENTIUS BASILICA













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