



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



### ROME METRO LINE C

Rome metro Line C runs through the city from North-West (Della Vittoria district) to the eastern suburb and is extending beyond the Grande Raccordo Anulare.

Line C has a full-run of 25,6 km and 30 stations, passing through the old town centre.

The Route will be characterised by the green colour. The interchanges with the other metro lines will be 
The General Contractor of the project is Metro C San Giovanni and Ottaviano (Line A) and Colosseo S.c.p.a., a group of Companies composed by Astaldi, (Line B).

most well-known historical buildings and artistic Costruzioni (www.metrocspa.it). heritages of Rome such as the Colosseum, the Temple of Venus and Roma and the Basilica of Maxentius.

Sisgeo supplied thousands of instruments and a large number of data loggers for the monitoring of All the instruments and dataloggers are installed tunnels, stations, buildings and artistic heritages.



Vianini Lavori, Ansaldo STS, Cooperativa Muratori The new Line C has been excavated under the e Braccianti di Carpi and Consorzio Cooperativa



and managed by IMG S.r.l. (www.img-srl.com/)





COLOSSEUM
TEMPLE OF VENUS AND ROMA
BASILICA OF MAXENTIUS



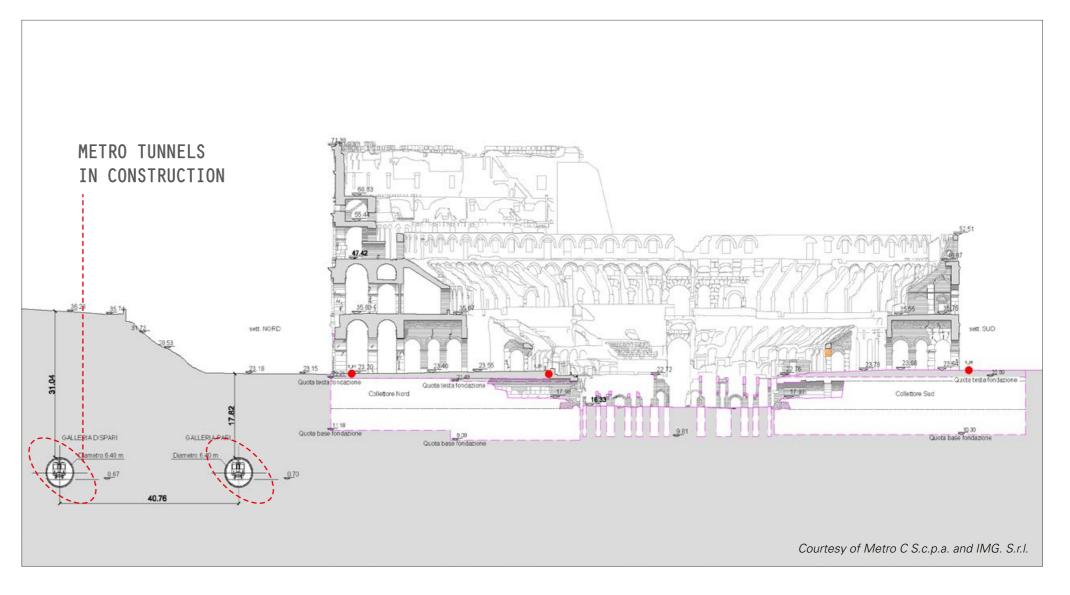
New Line C tunnel excavated with TBM machine. Concrete lining are instrumented with Sisgeo vibrating wire strain gauges

#### 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. 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

- 22 JOINTMETERS
- 12 wire deformometers
- 7 TILTMETERS
- 4 THERMOMETERS



- 2 INCLINOMETER COLUMNS
- 2 MULTIPOINT BOREHOLE EXTENSOMETERS
- 2 CASAGRANDE PIEZOMETERS
- 2 VIBRATING WIRE PIEZOMETERS



#### COLOSSEUM











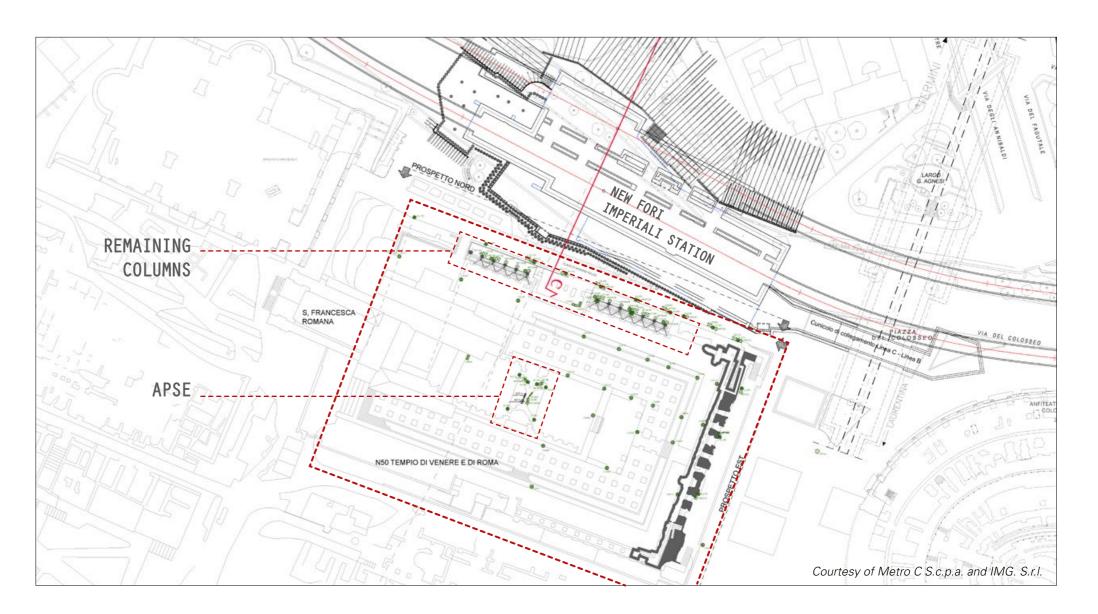
SISGEO

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.

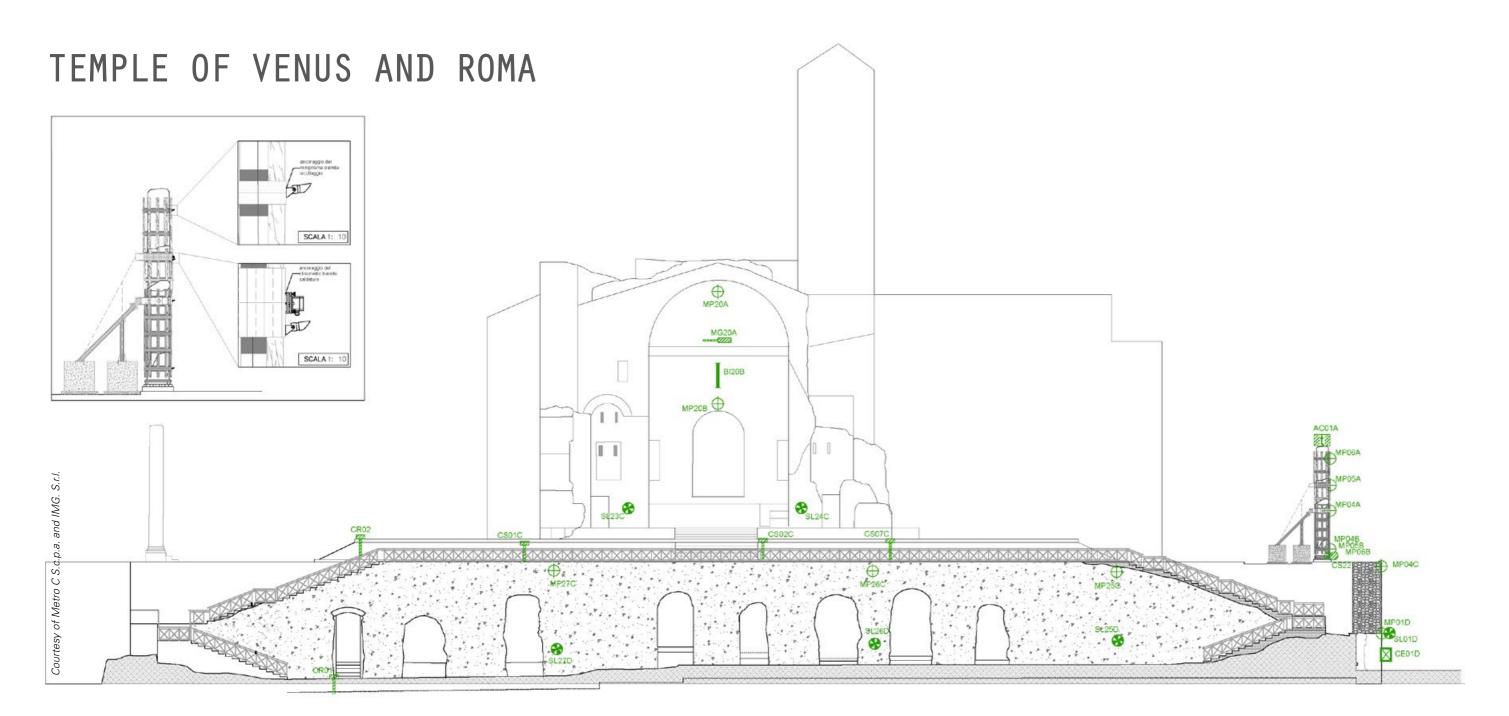
Sisgeo instruments are installed on the temple apse and on the metal frames supporting the remains of the columns.



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 TILTMETERS
- 3 TILT BEAMS
- 2 JOINTMETERS

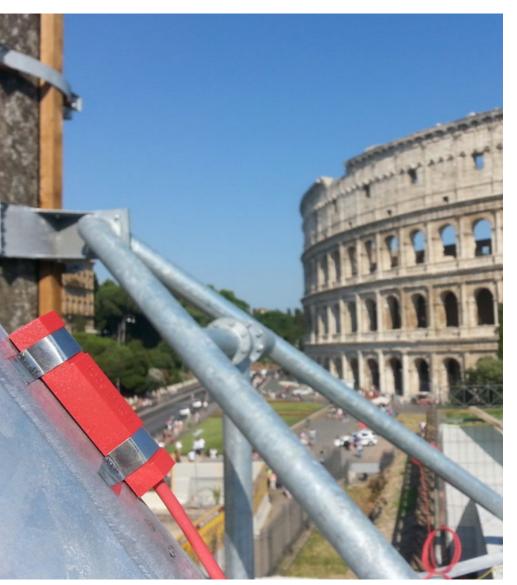


#### TEMPLE OF VENUS AND ROMA









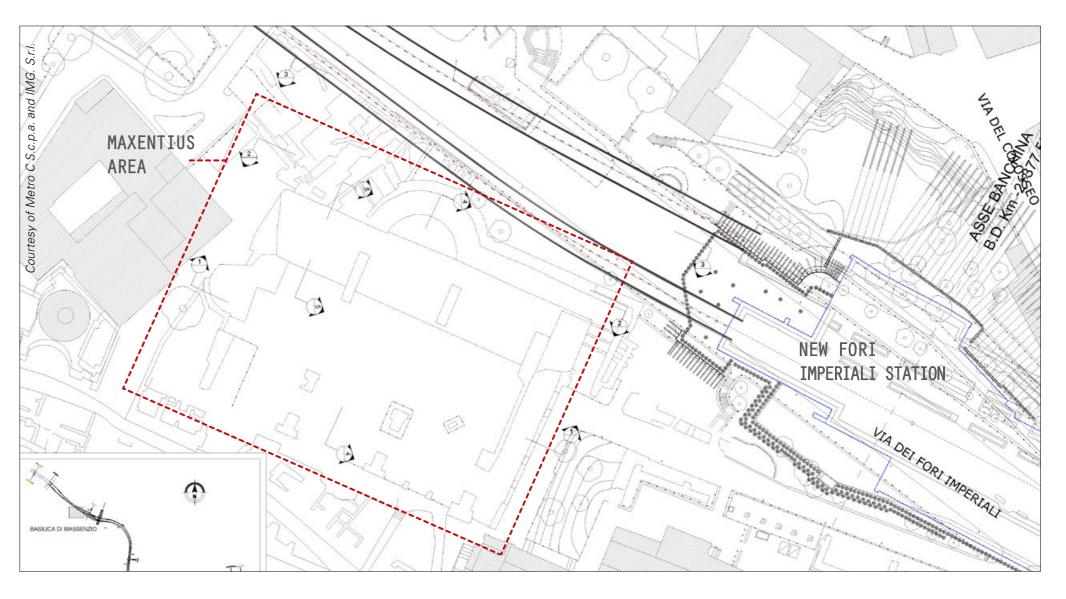




The Basilica of Maxentius and Constantine was the largest building in the Roman Forum. Construction began on the northern side of the forum under the emperor Maxentius in AD 308. The building consisted of a central nave covered by three groin vaults suspended 39 meters above the floor on four large piers, 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.

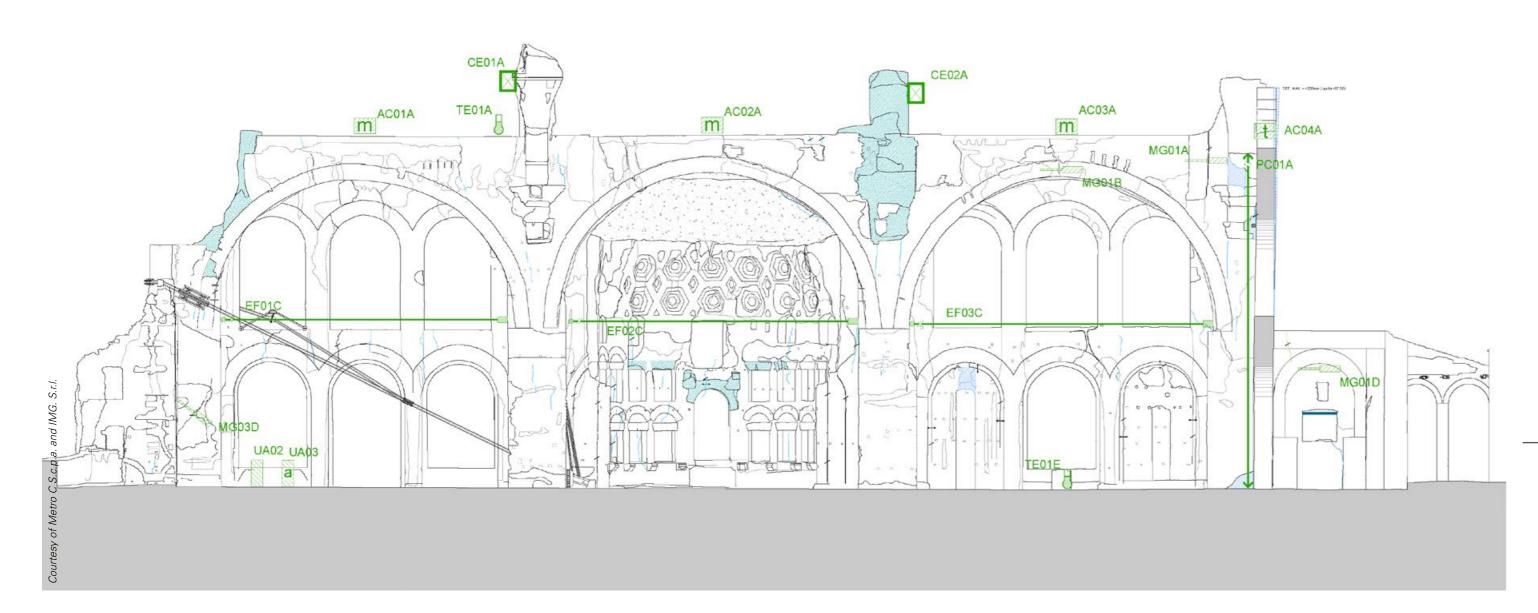
The south and central sections were probably destroyed by the earthquake of 847. In 1349 the vault of the nave collapsed in another earthquake. All that remains of the basilica today is the north aisle with its three concrete barrel vaults.





#### MAXENTIUS BASILICA





### SISGEO INSTRUMENTS INSTALLED ON MAXENTIUS BASILICA

- 10 JOINTMETERS
- 5 TILTMETERS
- 5 WIRE DEFORMOMETERS
- 2 DIRECT PENDULUMS
  WITH AUTOMATIC READOUT
- 2 THERMOMETERS



#### MAXENTIUS BASILICA













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