



TEATRO DI SAN CARLO, NAPLES, ITALY

**PROJECT.** The Teatro di San Carlo, designed by the architects Giovanni Antonio Medrano and Angelo Carasale, was inaugurated in 1737, and today it is Europe's oldest continuously operating opera theatre. Internationally, San Carlo is regarded as one of the most beautiful classical balooned theatres and enjoys an excellent reputation with respect to its acoustics. In addition to renovating all of the auditorium's surfaces and to installing a ventilation system that meets highest standards regarding comfort and low noise, large extensions were realized. In the stage area, a state-of-the-art stage machinery was installed.

**Acoustic.** The focus of acoustical consultancy was put on preserving the auditorium's outstanding acoustics. Thus, all acoustical measures were planned meticulously, existing surfaces that had already been optimized in terms of acoustics were preserved and, if possible, further improved. Since a new foyer area was installed below the auditorium, the historical wooden floor construction had to be replaced entirely, and an air plenum was integrated. In terms of building acoustics, the perfect structural separation of the large rehearsal hall, situated directly above the ceiling fresco, nowadays allows the simultaneous use of both halls without any acoustical disturbances. The excellent acoustics in the Teatro di San Carlo was not only completely preserved, but even improved, as was unanimously confirmed by artists as well as by the press.



4

## CLIENT

Presidenza del Consiglio dei Ministri

Principal:

COBAR S.r.l., Altamura, Italy

Coordination:

Studio Associati Fuzio, Bari,

Italy

## ARCHITECT

Adolfo Natalini, Florence, Italy

## PROJECT DATA

Planning / construction period

2008 - 2011

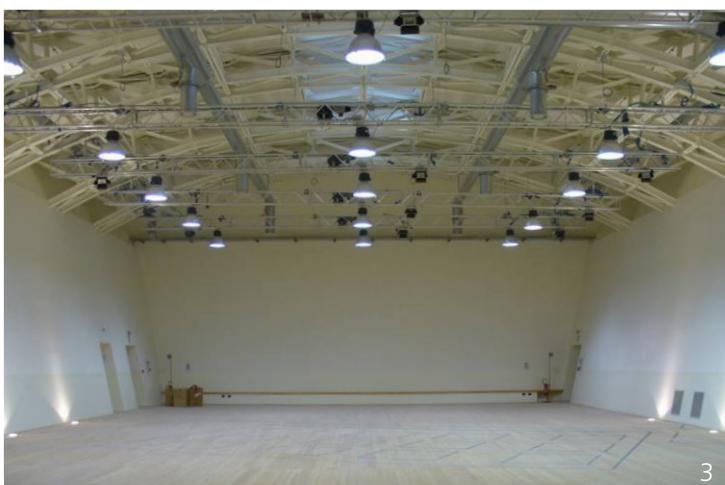
Construction cost

65 million euros

## SERVICES RENDERED

Room acoustics, building acoustics,  
protection against external noise

Planning, site supervision, final acoustical acceptance tests



3

1 Ceiling fresco

2 Auditorium: Royal Box

3 Large rehearsal hall above the auditorium

4 Auditorium

Pictures: Müller-BBM