Università La Sapienza
Rome, Italy
www.uniroma1.it

Industry:

Education & Research

Students:

140,000

Oracle Products & Services:

Oracle Database Enterprise Edition
Oracle Application Server Enterprise Edition
Oracle Sensor Edge Server

Oracle Partners:

Intel
www.intel.com

RFID Lab Di Roma
www.uniroma1.it/rfidlab

"Oracle and Intel data filing, processing, and transmission technologies allow users to enjoy our cultural heritage in a more interesting and personal way. The success of this project inspires us to hope for extension and fine-tuning of the services provided in the future."
–Alessandra Manfredini,
Curator of the Museum of Origins,
Univeristà La Sapienza

Università La Sapienza's Wi-Art Project Uses RFID Technology to Personalize the Museum Experience

Located in Rome, Università La Sapienza is one of the world's oldest and most prestigious universities. Many of the university's artistic and scientific artifacts are kept in its 21 museums, a testament to the university's contribution to science and technology in past centuries, as well as new scientific and cultural developments. One of the most important of these museums is the Museum of Origins, exhibiting prehistoric artifacts found in Italy dating from the Upper Paleolithic to the early Iron Age.

Challenges

- Create a single archive of all university artifacts, with radio frequency identification (RFID) cataloguing to ensure advanced access and security methods
- Offer high added value edutainment services to meet the expectations of an increasingly mature, demanding, heterogeneous public

Solution

- Enabled the creation of Wi-Art—a project in Università La Sapienza's RFID Lab in partnership with the Centre for Applications of Television and Remote Teaching Technologies (CATTID), Intel, and Oracle
- Implemented Oracle Database Enterprise Edition, Oracle Application Server Enterprise Edition, and Oracle Sensor Edge Server technology to file and process data for Wi-Art
- Created a multimedia guide system that includes a simple, user-centered graphic interface and Wi-Fi, RFID, and Text-to-Speech technologies with a Palmtop personal digital assistant
- Allowed each visitor to choose from a variety of customized guides, such as ordinary visitor or expert, teenager, blind or visually impaired visitor, etc.
- Developed a system to provide users with historical and artistic descriptions of each piece, available in different languages, and guide them through the museum with audio-visual content and internet research
- Expanded access to artistic information, improving the level of service offered by the museum for a richer museum experience custom-tailored to the individual visitor

Published December 2007