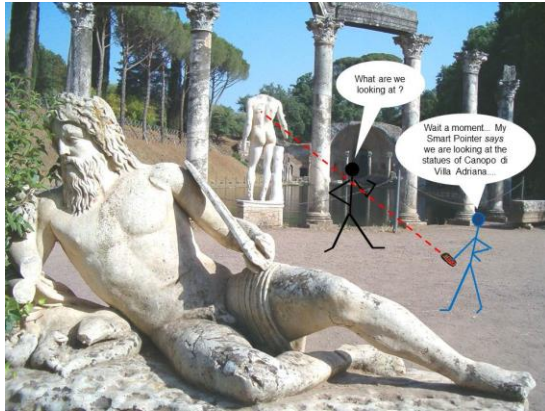


# CoIRICH

## Examples of Applications: Digital Guide Tour

### Multimedia Tourist Guide



#### APPLICATION

The smart-pointer, developed in the **CTIF\_Italy HASCON** Lab, is able to provide audio-visual turistic information on a point of interest for the user by just pointing it.



Module Bluetooth

#### RESEARCH GROUP

**CTIF\_Italy**, located at the University of Rome Tor Vergata, is the italian branch of the *Center for TeleInFrastructure* (CTIF) network of research centers, with headquarter in Aalborg University (DK). The objective of the network is to perform advanced research in the field of architecture, technology and applications of Information and Communications Technology (ICT). The Head of **CTIF\_Italy** is Prof. G della Cananea



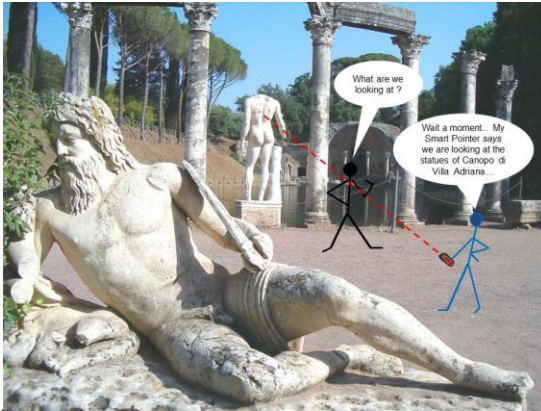
GPS Receiver

Module WiFi



CPU Cortex-M3

### Multimedia Tunist Guide



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#### APPLICATION

The smart-pointer is able to provide audio-visual turistic information on a point of interest for the user by just pointing it.

#### OPERATION

When the user point with the device the object of interest, the system recognize the object and extract information from a database recorded on a SD card. By the Bluetooth interface, the smart pointer transmits the information to one external terminal, which process them and make them usable for the user. The database is periodically updated via Internet, by using a WiFi access.

#### SISTEMA SMARTPOINTER

Subsystems of the smart-pointer

- Processing unit
- GPS Receiver
- Bluetooth 2.1 + EDR
- WiFi 802.11 b/g
- Accelerometer
- Three axis magnetometer
- SD card.



GPS Receiver

CPU  
Cortex-M3



Module  
WiFi

Module  
Bluetooth

