

Te.S.C.He.T.

**Technology System for Cultural
Heritage in Tourism**

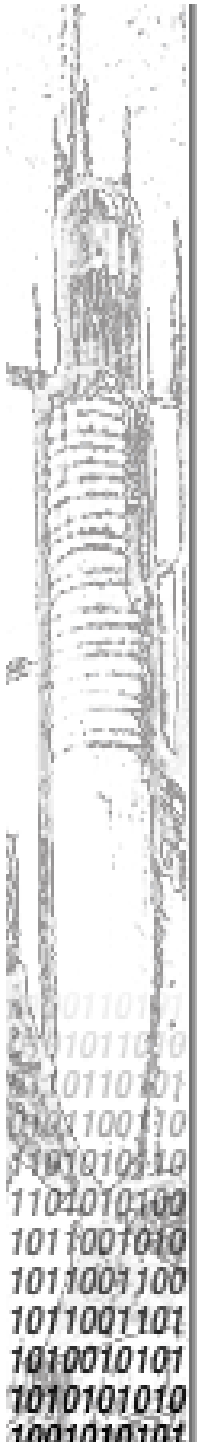
Vito Morreale
Engineering Ingegneria Informatica S.p.A.

FIPA Meeting
Palermo 10th February 2003



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Information about Te.S.C.He.T.

- **T**echnology **S**ystem for **C**ultural **H**eritage in **T**ourism
- **Research project** supported by MIUR (Department of Education, University and Research)
- **Duration:** 36 months
- Started on March, 2002
- ... **2 years** more
- Cost: 17.5 millions of € (2.6 M€ dedicated for education)

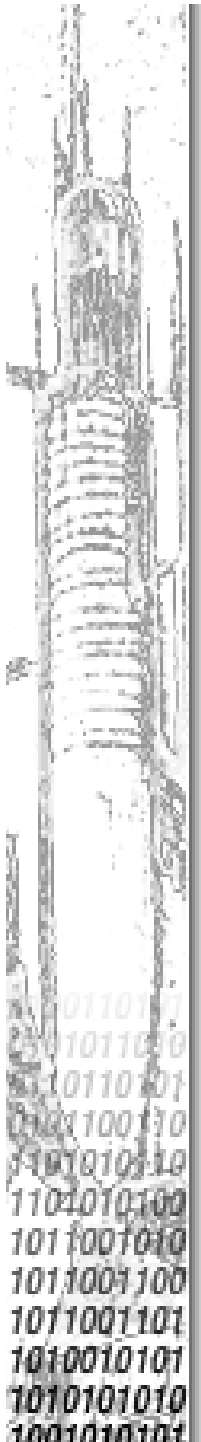
Partners involved in Te.S.C.He.T.

□ Partners:

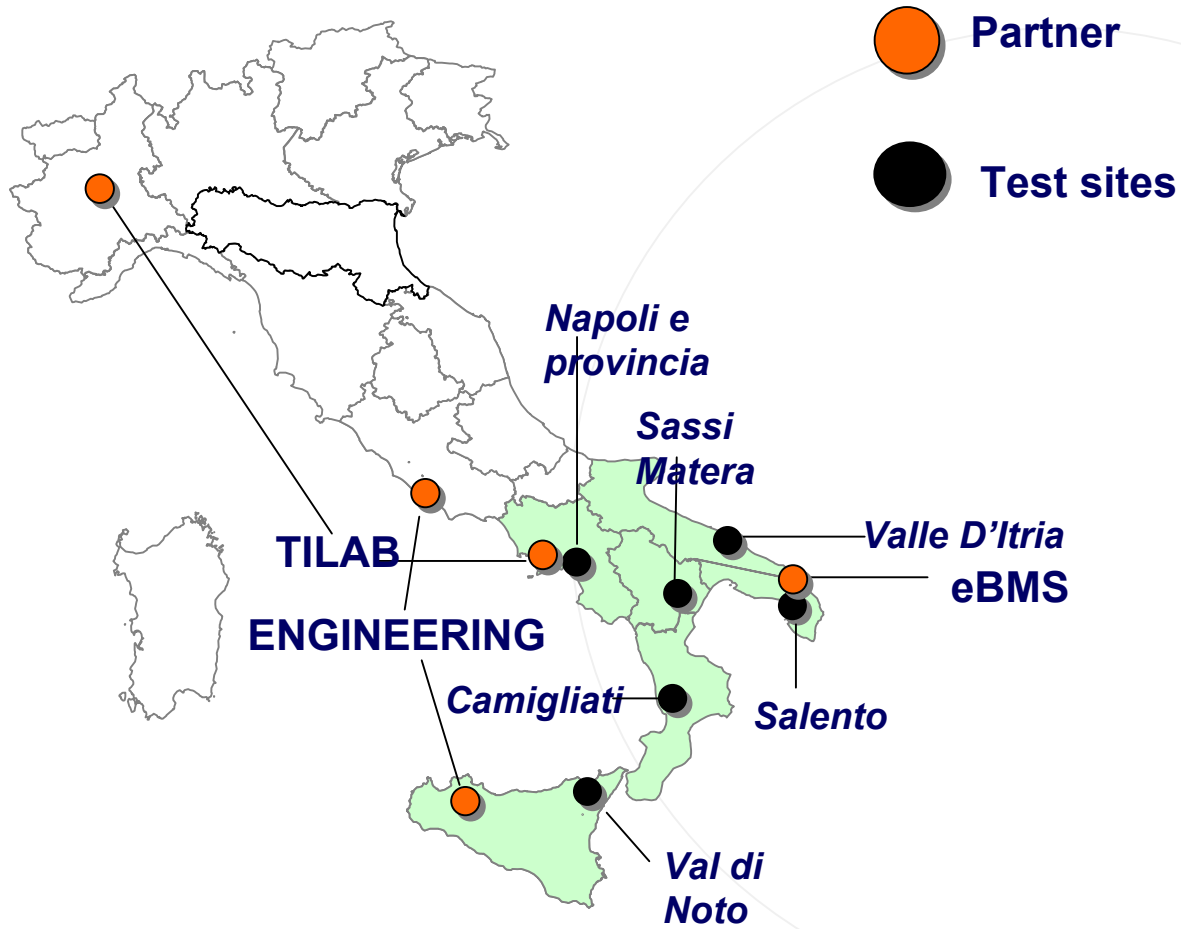
- ENGINEERING Ingegneria Informatica S.p.A.
- Telecom Italia Lab
- ISUFI-eBMS and University of Lecce

□ Subcontractors:

- University of Palermo
- Federculture
- Italtel
- ...



Partners and Test sites

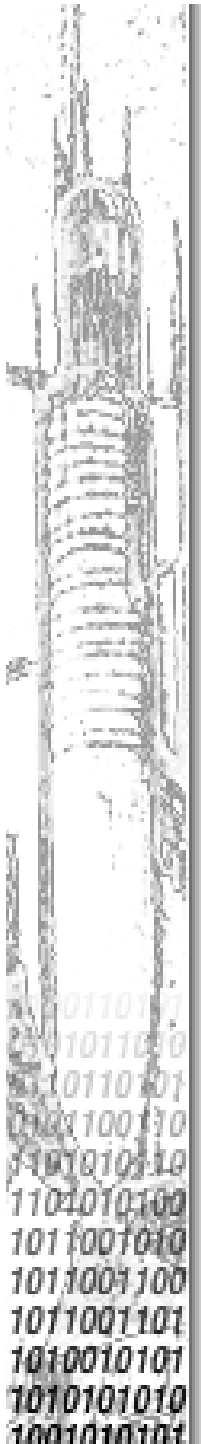


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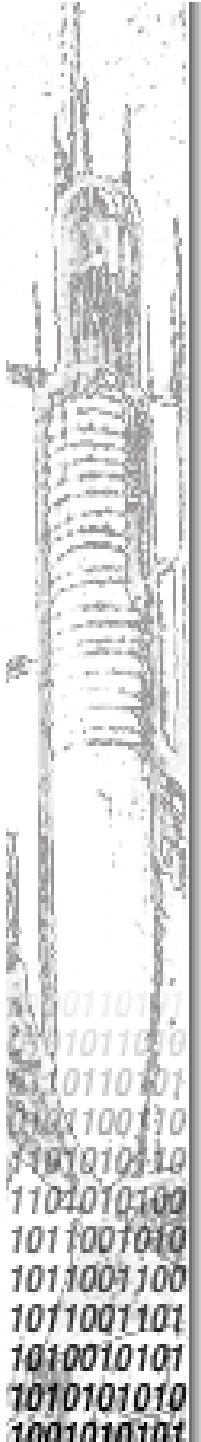
Partner – Engineering

- Coordination
- Research activities
- Make a software prototype
- Experimental activities
- Education activities



Partner - TILab

- Coordination
- Research activities
- Make a software prototype
- Experimental activities



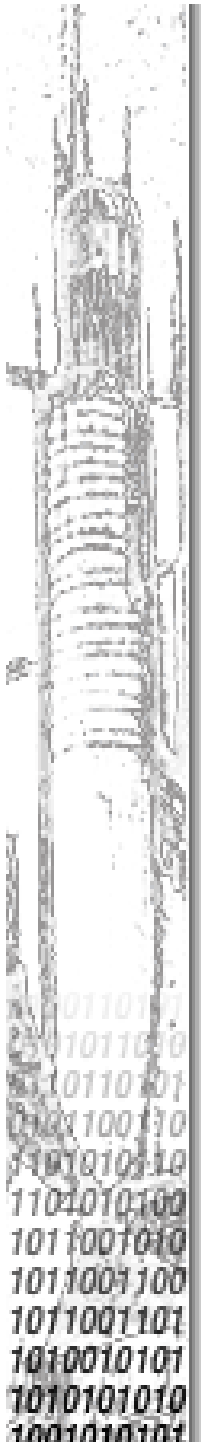
Partner - eBMS-ISUFI (UniLe)

- ❑ Coordination for scientific area
- ❑ Research activities
- ❑ Education activities

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Partner – Main consultants

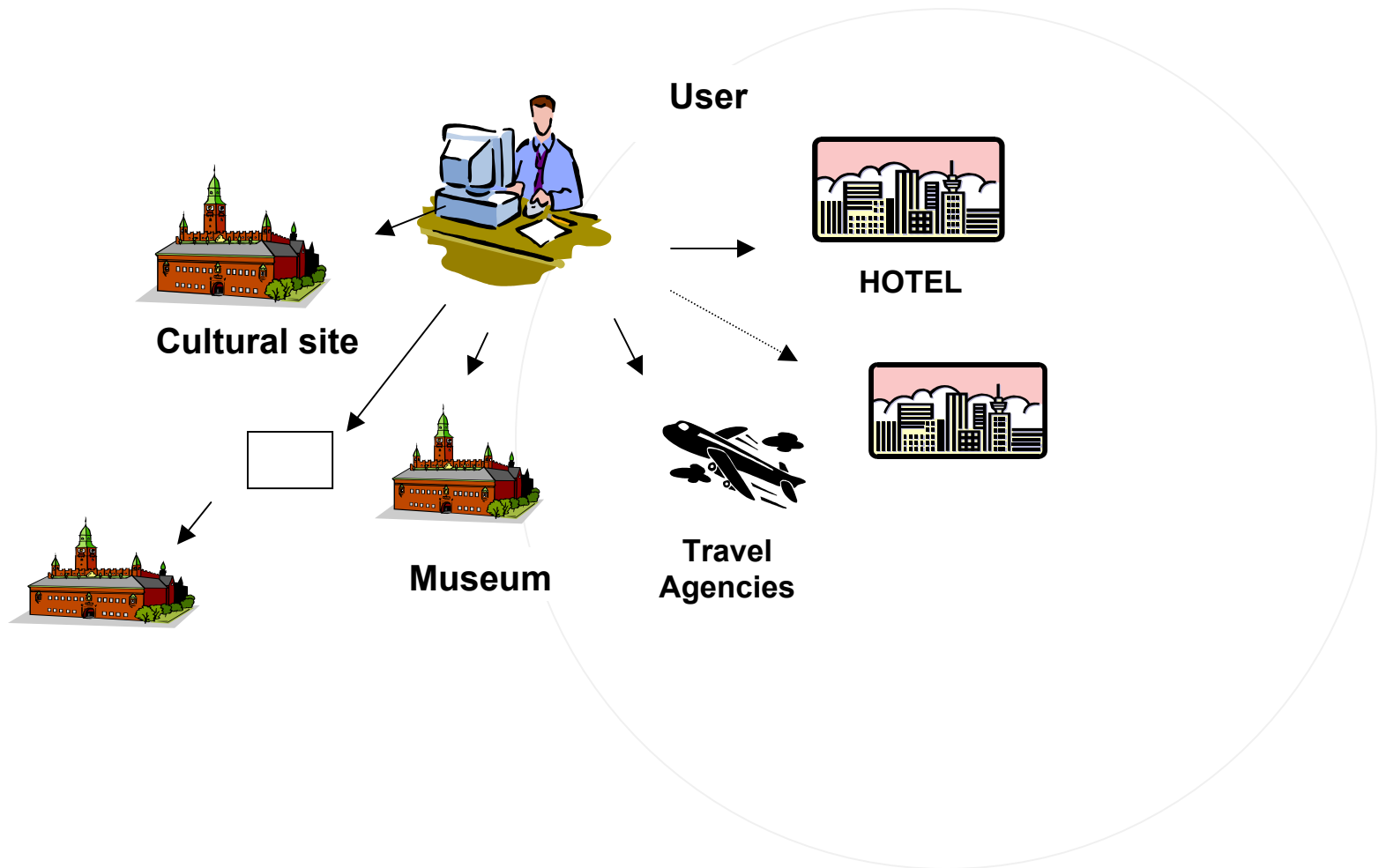
- **Federculture – Fondazione Rosselli – Valdani e Vicari**
 - Domain expert
 - Learning activities
- **Università di Palermo e ICAR–C.N.R. of Palermo**
 - Scientific Expert
 - Learning activities
- **Italtel SpA**
 - Expert on network problematic



What is Te.S.C.He.T.?

- **Project** that aims at creating a new agent-based infrastructure
 - Handling and organization of information
 - Creation of innovative services
- Dynamic, adaptive, intelligent, and autonomous **composition** of tourist services
- **Integration** of heterogeneous and distributed information sources
- **Interoperability** among heterogeneous information systems

Current Scenario

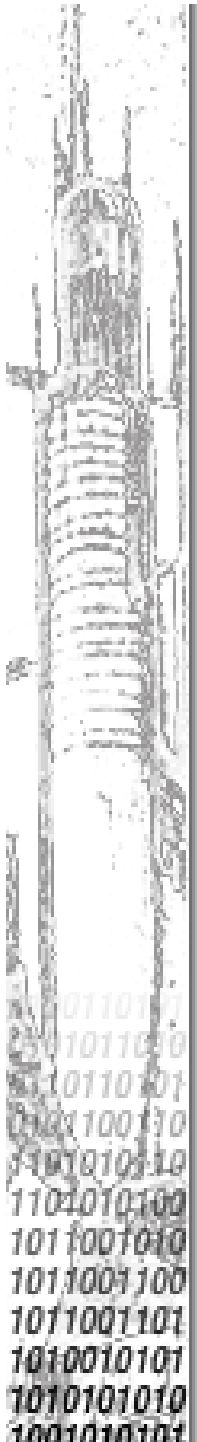


Usage of mobile devices

- To **access** services and information over Internet
- The slogan of the project is: "**Mobile devices become smart**"
- Mobile devices are evolving to **information-centric devices**
- Active** and **pro-active** elements in the network
- Personal Assistant**

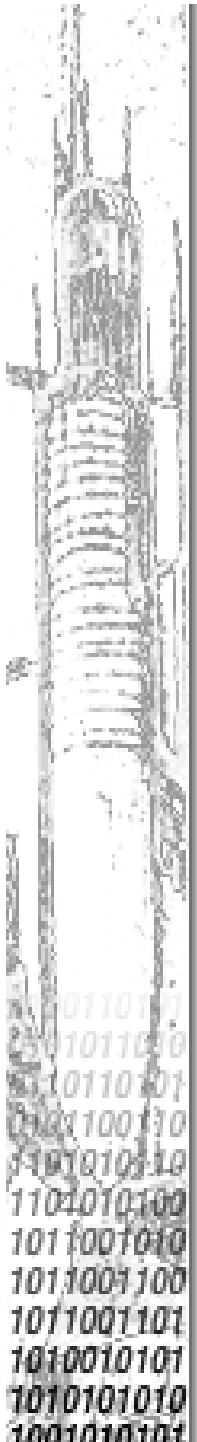
- **Information** is the most important resource of Te.S.C.He.T.
- Common **ontology**
 - Looking at existing ontologies
 - Standard XML-based representation languages (i.e. RDF(S), DAML+OIL, OWL; DAML-S and WSDL for services)
- **Peer-to-peer + agents**

- **Distributed** architecture
- Society of mobile and non-mobile **agents** living within JADE agent platforms
 - Communication through exchange of **messages**
 - Agents are going to be **pro-active** and **autonomous**
- The platform should be **as less invasive as possible**



Te.S.C.He.T. Software Architecture - 2

- ❑ Information and services should be accessed through **several channels and tools** (including web browser, PDA, mobile phones, ...)
- ❑ Information could be
 - **structured**
 - **semi-structured**
 - **unstructured**
- ❑ **Open** with respect to existing communication standards (i.e. Web Services, MOM, ...)



Te.S.C.He.T. network

