

TSI2007-65677C02-01

(Octubre 2007)

GeoBuddies: Social Semantic Annotation With mobile devices in the "Camino de Santiago"

Project Coordinator: Asunción Gómez-Pérez, UPM

1 de Octubre 2007 - 30 Septiembre 2010





A pilgrim in St. James' Way (Camino de Santiago)

- Diverse routes for pilgrims (almost DIY)
- Self-emergent community of pilgrims
 - People that talk about their experiences during the way
 - People that join together in the joy of walking
 - Mobile users
- People want to
 - Find interesting locations
 - Find community services
 - Provide information





Join project UPM-USC

UPM



Asunción Gómez Pérez



Angel López Cima (Semantic Portal)



USC

Manuel Lama Penín (Service composition & execution)



Guadalupe Aguado de Cea



Raul García (Benchmarking)





Óscar Corcho García



Ma Carmen Suárez de Figueroa (Onto methodologies)



Inmaculada Álvarez de Mon



Miguel Esteban (Semantic Grid)



Rosario Plaza Arteche UPM)



Rafael González Cabero (SWS)

External Members



(Data transfer and reliability)



2 Full professor



2 Assistant Professors

4 PhD Students



Mariano Fernández López (CEU)



Antonio Pareja Lora (UCM)

Ana Ibarrola (Admon)

Pilar Herrero





Expertise

	UPM	USC	CEU	UCM
Project Topics				
Ontologies	Х	Х	Х	Х
Social tagging	X	X		
Collaborative filtering		х		
Service composition and execution		х		
Data transfer and reliability	Х			
Grid and Semantic Grid	Х			





Project Goals

User-centered geomatic information and services, anywhere anytime, for pilgrims in the "Camino de Santiago"

Main research topics

- 1. Ontology based integration information → Harmonize multilingual and heterogeneous geo-DB
- 2. Social tagging of resources and services \rightarrow to derive user communities
- 3. Collaborative filtering → recommendations based on user communities
- 4. Service composition and execution → creation and use of added-value services based on the user's context
- 5. Data transfer and reliability in mobile environments → relevant data is always available to services and mobile devices

Main outcomes:

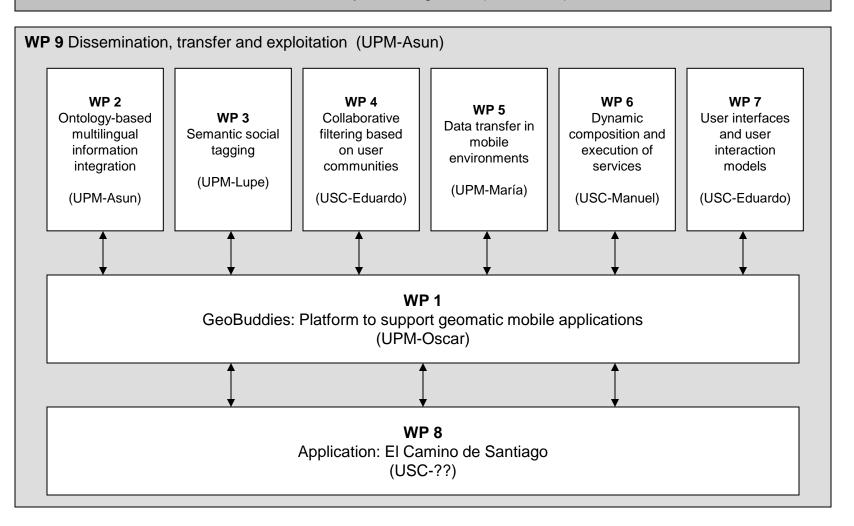
- 1. Geobuddies Platform (WP1)
- 2. Development of an application for pilgrims in the "Camino de Santiago" (WP8)
- 3. A set of services
 - 1. Ontology-based information integration from heterogeneous multilingual databases (WP2)
 - 2. Social tagging of resources and services (WP3)
 - 3. Collaborative filtering and recommendation based on user communities (WP4)
 - 4. Context-aware data transfer and reliability for mobile environments (WP5)
 - 5. for ontology-based service dynamic composition and their execution (wp6)
 - 6. Xxxxx (WP7)





WP structure and responsable person

WP 10 Project management (UPM-Asun)







MINISTERIO Objective & (A

Ontology-based information integration from heterogeneous multilingual databases

- Mapping discovery algorithm
- Implementation
- Validation

Objective 4

Development of a service for tagging resources and services

- Algorithm for Semantic Web 2.0 annotations
- Implementation
- Validation

Result

Objective 5

Development of services for collaborative filtering and recommendation based on user communities

- Algorithm for collaborative filterina
- Implementation
- Validation

Result

Goals, WP and main results Objective 6

Development of services for context-aware data transfer and reliability

- · Algorithms for transferring data
- · Algorithms for reliability
- Implementation
- Validation

Result

Objective 7

Development of a service for ontology-based service dynamic composition and their execution

- · Execution engine for ontologybased composed services
- · Algorithm for dynamic generation of composed services

WP6

Implementation and validation

WP2

Result

 The mapping discovery algorithm + service implementation

WP3

 The algorithm for Semantic Web 2.0 annotations + service implementation

WP4, WP6

· The algorithm for collaborative filtering + service implementation

WP5

· The algorithms for transferring data and reliability + services implementation

Result

 The algorithm for dynamic generation of composed services + service implementation



Objective 2

Development of a platform (GeoBuddies) to support user-centered geomatic applications

- Ontology-based multilingual information integration
- · Tagging of resources and services
- · Collaborative filtering
- · Context-aware data transfer
- · Added-value service dynamic composition and execution

WP1

Result

· The GeoBuddies platform



Objective 1

Development of an application for pilgrims in the "Camino de Santiago"

- · Ubiquitous access to resources and services
- Tagging resources
- · Upload to Web2.0

WP7, WP8

WP9 Dissemination, transfer and exploitation

Result

• The "Camino de Santiago" application

3 prototypes .- m12.24.36





Milestones

Month	Milestones
0	Kick off meeting
6	Specification of the application functionalities Identification of potential technologies Specification of the GeoBuddies platform requirements
12	First prototype: implementation with existing technology
24	Second prototype: implementation including research results
32	Third prototype: implementation including real data and refined research results
36	Final validation and exploitation





Management Structure

Project Coordinator: Asunción Gómez-Pérez

Proyecto UPM: Oscar Corcho

Proyecto USC: Manuel Lama

WP Leaders

- •WP1 (Plataforma): Oscar Corcho
- •WP2 (Integración información multilingüe): Asun
- •WP3 (Etiquetado social): Lupe
- •WP4 (Comunidades): Eduardo
- •WP5 (Transferencia de Datos): María
- •WP6 Composición Servicios: Manuel
- •WP7 (nuevas interfaces): Eduardo
- •WP8 (Aplicación): Manuel
- •WP9 (Diseminación, transfer, Exploitation): Asun
- •WP10 (Management): Asun, Ana





Management Tasks

- Gestión Operativa
- Gestión Técnica
- Gestión Financiera (Ana Ibarrola)
- Gestión legal y de conocimientos

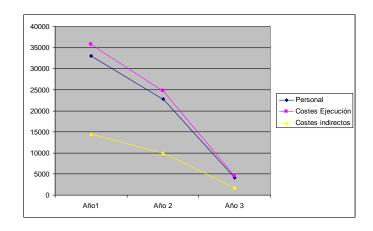
- Reportes anuales
 - Asun, Oscar
 - Manuel





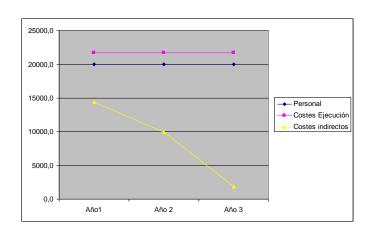
Distribución Presupuesto UPM del MEC

	Año1	Año 2	Año 3	Total
Personal	33000	22800	4200	60000
Costes Ejecución	35750	24700	4550	65000
Costes indirectos	14437,5	9975	1837,5	26250
Total	83187,5	57475	10587,5	151250



Distribución presupuesto UPM

	Año1	Año 2	Año 3	Total
Personal	20000,0	20000,0	20000,0	60000,0
Costes Ejecución	21666,7	21666,7	21666,7	65000,0
Costes indirectos	14437,5	9975,0	1837,5	26250,0
Total	56104,2	51641,7	43504,2	151250,0







Distribución Año 1 presupuesto UPM

• N. personas: 12

• Becario FPI → Anotación

Distribución Costes ejecución

• Viajes a Santiago: 0,2%

• Viajes Conf. 0,5

• Equipos: 0,25

• Otros: 0,05

- 1. Un viaje por Investigador
- 2. Directamente relacionado con Geobuddies.
- 3. Geobuddies en Acknowledgments

Personal		21.800,00
German	5.000,00	
Saquicela	16.800,00	
Costes Ejecución		21.666,67
V. Santiago	4.333,33	
V. Conferencias	10.833,33	
Equipos	5.416,67	
Otros	1.083,33	





Distribución Año 1 presupuesto USC

• N. personas:

Distribución Costes ejecución

• Viajes a Santiago: 0,2%

• Viajes Conf. 0,3

• Equipos: 0,25

• Pruebas: 0,2

• Otros: 0,05





Logística

- Reuniones
 - 2 plenarias
 - Reuniones de integración (Mayo Junio)
 - 1 reunión mensual virtual
- Listas de correo

