



UNIVERSIDAD DE GRANADA

PROPUESTA TÉCNICA

Autores

Juan Manuel Castillo Nievas
Kim Ouan
Víctor Torres de la Torre



MÁSTER PROFESIONAL EN INGENIERÍA INFORMÁTICA

—
Granada, 5 de noviembre de 2020

1. Convocatoria donde hubiera podido encajar nuestra petición en la web de la comisión europea

Se recuerda que el título de nuestra petición es: **Servicio de mantenimiento del Sistema de Información de Unidad de Cuidados críticos en el Hospital Universitario Regional de Málaga.**

La convocatoria que se ha elegido es la que se muestra en la Figura 1. Se llama **Prototyping a European interoperable Electronic Health Record (EHR) exchange**, y encaja muy bien en nuestro proyecto ya que se va a usar en la historia clínica electrónica del Hospital Universitario Regional de Málaga.

The screenshot shows the 'General information' section of a call page. Key details include:

- Programme:** Horizon 2020 Framework Programme
- Work programme part:** Health, demographic change and wellbeing
- Call:** Digital transformation in Health and Care (H2020-SC1-DTH-2018-2020)
- Work programme year:** H2020-2018-2020
- Type of action:** RIA Research and Innovation action
- Status:** Closed
- Opening date:** 07 November 2017
- Deadline date:** 25 April 2018 17:00:00 Brussels time

On the left sidebar, under 'Funded project list', there is a link to 'Go back to search results'.

Figura 1: Convocatoria elegida

Esta convocatoria se cerró el 28 de abril del 2018, con lo cual se han buscado los proyectos elegidos (ver Figura 2).

General information
Topic description
Conditions and documents
Submission service
Topic related FAQ
Get support
Call information
Call updates

Funded project list

Apr 24, 2018 11:51:03 AM
The submission session is now available for: SC1-DTH-08-2018(RIA), SC1-HCC-05-2018(CSA), SC1-DTH-07-2018(RIA), SC1-HCC-04-2018(CSA), SC1-HCC-03-2018(CSA), SC1-DTH-03-2018(RIA), SC1-HCC-01-2018(CSA)

Mar 1, 2018 12:31:19 PM
We bring to your attention the following notice regarding page limits applicable to proposals.
Applicants are allowed to remove the page break in the cover page of the template for the technical annex, i.e. the proposal text can start on the cover page.

Nov 7, 2017 12:30:06 AM
The submission session is now available for: SC1-DTH-08-2018(RIA), SC1-HCC-05-2018(CSA), SC1-DTH-07-2018(RIA), SC1-HCC-04-2018(CSA), SC1-HCC-03-2018(CSA), SC1-DTH-03-2018(RIA), SC1-HCC-01-2018(CSA)

show less...

Results: 2

TITLE	ACRONYM	PROJECT ID
Interoperable EHRs at user edge	InteropEHRate	826106
Citizen-centred EU-EHR exchange for personalised health	Smart4Health	826117

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Figura 2: Proyectos que fueron elegidos en la convocatoria

Se ha elegido el primer proyecto para consultar su información. Como se puede ver en la Figura 3, este proyecto empezó el 1 de enero de 2019 y tiene previsto acabar el 30 de junio de 2022. Los objetivos también se pueden ver en la imagen.

The screenshot shows a project page from the Horizon 2020 website. At the top, there's a navigation bar with links for HOME, RESULTS PACKS, RESEARCH EU MAGAZINES, NEWS & EVENTS, PROJECTS & RESULTS, and ABOUT US. On the far right, there's a LOG IN button. Below the navigation, the project logo 'HORIZON 2020' is displayed next to the project title 'Interoperable EHRs at user edge'. A horizontal menu bar below the title includes 'Fact Sheet' (which is selected), 'Reporting', and 'Results'. The main content area starts with a section titled 'Objective' which describes the challenges of citizen control over health data across Europe and the aims of the project. It lists three main objectives: 1. mediated by the citizen through a D2D standard; 2. authorized by the citizen through peer-to-peer protocols; and 3. open and incremental. To the right of the objective text is a 'Project Information' sidebar. This sidebar contains details such as the grant agreement ID (826106), project status (ongoing), start date (1 January 2019), end date (30 June 2022), funding under H2020-EU.3.1.5.1, overall budget (€ 7 192 592,50), EU contribution (€ 7 192 592,50), and coordination information (Engineering - Ingegneria Informatica S.p.A., Italy). There's also a small circular graphic.

Figura 3: Uno de los proyectos elegidos

En la Figura 4 se muestra el *reporting* de este proyecto elegido.

En las Figuras 5 y 6 se pueden ver algunos de los resultados del proyecto. Por ejemplo, al abrir la pestaña de *Documents, reports*, se abren una serie de documentos que se pueden descargar y que muestran los documentos e informes que se han hecho hasta el momento.

Fact Sheet

Reporting

Results

Periodic Reporting for period 1 - InteropEHRate (Interoperable EHRs at user edge)

Reporting period: 2019-01-01 to 2019-12-31

Summary of the context and overall objectives of the project

InteropEHRate project aims to improve continuity of care and exchange of Health Records (HRS) across Europe by the active involvement of citizens exploiting Smart Electronic Health Records (S-EHRs). InteropEHRate defines S-EHRs as mobile apps that store, in a secure way on a personal smart device, any health data of a user, including clinical data produced by healthcare providers (e.g. hospitals). S-EHRs will allow the citizens to move with their HRS and exchange them with healthcare providers in any country adopting secure and standard protocols. Since HRS will be stored on their smart devices, the citizens will be able to use and exchange them also when the Internet is not available, independently from cloud-based EHRs (systems that store, in electronic form, health data of several users).

In the InteropEHRate vision, the relationship between citizens and health research will also change. Citizens will be able to share their HRS, possibly anonymised, directly with specific research organizations for specific health studies, leaving to the S-EHR the processing and communication of data. On the other hand, the researchers will be able to easily invite citizens that use a S-EHR to participate in clinical studies, in order to ask and obtain a signed consent for receiving and using their data.

To realize this, the project will produce an open specification and a software framework simplifying the development of applications that fulfil the specification.

The InteropEHRate open specification will define:

- S-EHR conformance levels: constraints that a S-EHR mobile app (and related services) must fulfil to be secure, reliable and compliant to InteropEHRate.
- D2D (Device to Device) protocol: secure protocol for exchanging HRS between a S-EHR and another device nearby, without using the Internet.

Project Information

InteropEHRate	Grant agreement ID: 826106
Project website	↗
Status	Ongoing project
Start date	1 January 2019
End date	30 June 2022
Funded under	H2020-EU.3.1.5.1.
Overall budget	€ 7 192 592,50
EU contribution	€ 7 192 592,50
Coordinated by	ENGINEERING - INGEGNERIA INFORMATICA SPA
Country	Italy



Figura 4: *Reporting* del proyecto

HORIZON
2020

Interoperable EHRs at user edge

Fact Sheet

Reporting

Results

Deliverables

- Documents, reports (15)
- Demonstrators, pilots, prototypes (6)
- Websites, patent fillings, videos etc. (2)
- Other (1)

Publications

- Other (6)
- Conference proceedings (2)

Project Information

InteropEHRate	Grant agreement ID: 826106
Project website	↗
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Start date	1 January 2019
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Overall budget	€ 7 192 592,50
EU contribution	€ 7 192 592,50
Coordinated by	ENGINEERING - INGEGNERIA INFORMATICA SPA
Country	Italy



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Last update: 15 June 2020

Figura 5: Resultados del proyecto

**HORIZON
2020**

Interoperable EHRs at user edge

Fact Sheet Reporting **Results**

Deliverables

Documents, reports (15)

- Software requirements specification of an integrated EHR web app for HCP - V1**
It will contain the software requirements specification of the HCP Web App. (T5.1)
- Design of libraries for HR security and privacy services - V1**
This deliverable will contain the design of security and privacy services, in particular the components and the functional primitives regarding identity management, encryption and consent management. (T3.4)
- Software requirements and architecture specification of a S-EHR - V1**
Software requirement specification of the prototype of a S-EHR mobile app. (T6.1)
- Specification of remote and D2D protocol and APIs for HR exchange - V1**
This deliverable contains the specification of D2D (based on short-range wireless technologies and in particular NFC) and remote data exchange protocol. (T4.1)
- Design data mapper and converter to FHIR - V1**
Design a tool for defining mapping rules for health record data, usable both locally to serve the data integration needs of local services (such as a hospital) and Europe-wide for cross-jurisdictional data exchange (Output of T5.3).

Project Information

InteropEHRrate
Grant agreement ID: 826106
Project website [↗](#)
Status
Ongoing project
Start date
1 January 2019 End date
30 June 2022

Funded under
H2020-EU.3.1.5.1.
Overall budget
€ 7 192 592,50
EU contribution
€ 7 192 592,50

Coordinated by
ENGINEERING - INGEGNERIA INFORMATICA SPA
IT Italy



Figura 6: Algunos documentos del proyecto

2. Un socio potencial

Se ha elegido un socio potencial para la parte de la creación de la interfaz de usuario de la propuesta técnica. Como socio potencial se ha escogido **AZ V.U.B** (ver Figura 7). Se ha seleccionado de esta página.

The screenshot shows a search interface with three sorting options at the top: "Sort alphabetically" (selected), "Sort by EU Contribution", and "Expand all". Below the sorting options, there is a list of organizations. The first organization listed is AZ V.U.B., which is highlighted with a blue border. To the left of the organization name is a small circular icon containing a building symbol. To the right is a small flag icon representing Belgium. Below the organization name, its address is listed: "Laarbeeklaan 101, 1090 Brussels". A blue square button with a white upward-pointing arrow is located on the right side of the list.

Figura 7: **AZ V.U.B**

En principio se ha realizado una búsqueda de proyectos relacionados con datos en el ámbito sanitario. Tras encontrar un proyecto que se acerca a nuestras necesidades (ver Figura 8), se ha tomado la decisión de elegir este *partner* por la cercanía al ámbito sanitario. Más concretamente, con este proyecto sabemos que nuestro posible *partner* está relacionado tanto con el mundo de los datos médicos como con el diseño de interfaces o, al menos, con sistemas multimedia, lo que hace a nuestro posible socio belga **AZ V.U.B** el candidato idóneo para la participación en nuestro proyecto.

The screenshot shows a project details page for "EURIPACS European Integrated PACS in the Hospital". On the left, there is a thumbnail image of a laboratory flask. Next to it, the project title is displayed in bold blue text. Below the title, the ID "A2009" and the duration "From: 1 January 1992 to: 31 December 1994" are shown. The main description of the project is provided in a large block of text: "A Picture Archiving and Communication System, supported by a multi-media medical image data-base, will be integrated with all other components of a Hospital Information System (HIS), resulting in a second generation distributed PACS architecture test bed." Below the description, several metadata fields are listed: "Coordinated in: Belgium", "Programme: FP3-AIM 2", and "Last update: 23 June 1994". At the bottom right, there is a blue link labeled "Add to my booklet".

Figura 8: **AZ V.U.B**

En cuanto a los datos que se han encontrado de **AZ V.U.B** en la página mencionada, han sido escasos. Solo se ha podido ver el nombre y los proyectos asociados de dicha organización (ver Figura 9). Para asegurarse de que se adecúa a nuestras necesidades, se ha optado por buscar información de **AZ V.U.B** fuera de esta página. **AZ-V.U.B** es una universidad Belga que, según su página de Linkedin, trabajan en el sector de la atención sanitaria y hospitalaria. La organización cuenta con participación en diferentes y numerosos proyectos del sector y es una institución sin ánimo de lucro.

The screenshot shows a search interface with a sidebar on the left containing filters and a main search results area on the right.

Filters (Left Sidebar):

- Collection:**
 - Select all
 - Projects
 - Results Packs
 - Research&eu Magazines
 - Results in Brief
 - News
 - Events
 - Interviews
 - Report summaries
 - Project Deliverables
 - Project Publications
 - Exploitable Results
 - Programmes
- Domain of Application:**
 - Field of Science ●
 - Programme
 - Topic ID ●
- Show all filters

Search Query: AZ V.U.B.

Search Results (Right Side):

69185 results for 'AZ' AND 'V.U.B.'

Final Report Summary - GEFOS (Genetic Factors for Osteoporosis)

Executive summary: The AIM of the Genetic Factors of Osteoporosis (GEFOS) FP-7 project is to identify osteoporosis susceptibility alleles by meta-analysis of Genome-Wide Association Studies (GWAS) comprising a large collection of osteoporosis genetics cohort...

Project: GEFOS (ID: 201865)
 Programme: FP7-HEALTH
 Last update: 12 June 2013 Add to my booklet

SBNAF Small Bodies: Near and Far

ID: 687378
 From: 1 April 2016 to: 31 March 2019
 We propose a benchmark study that will address critical points in reconstructing physical and thermal properties of near-Earth, main-belt, and trans-Neptunian objects. The combination of the visual and thermal data from the ground and from astrophysics missions (like Herschel...
 Coordinated in: Germany
 Programme: H2020-EU.2.1.6.
 Last update: 4 October 2019 Add to my booklet

Final Report Summary - COMPOLOIDS (Physics of Complex Colloids: Equilibrium and Driven)

COMPOLOIDS Final Summary ReportThe present document summarizes the progress made

Figura 9: AZ V.U.B

3. Proyecto de cooperación que necesite el uso de TICs con algún país no europeo

Se ha encontrado el proyecto llamado **RAQMYAT – Estrategias digitales para la formación doctoral en humanidades y ciencias sociales en Túnez**.

En las Figuras 10, 11 y 12 se puede ver la portada, los socios y la descripción del proyecto, respectivamente.



Figura 10: Portada del proyecto cooperativo

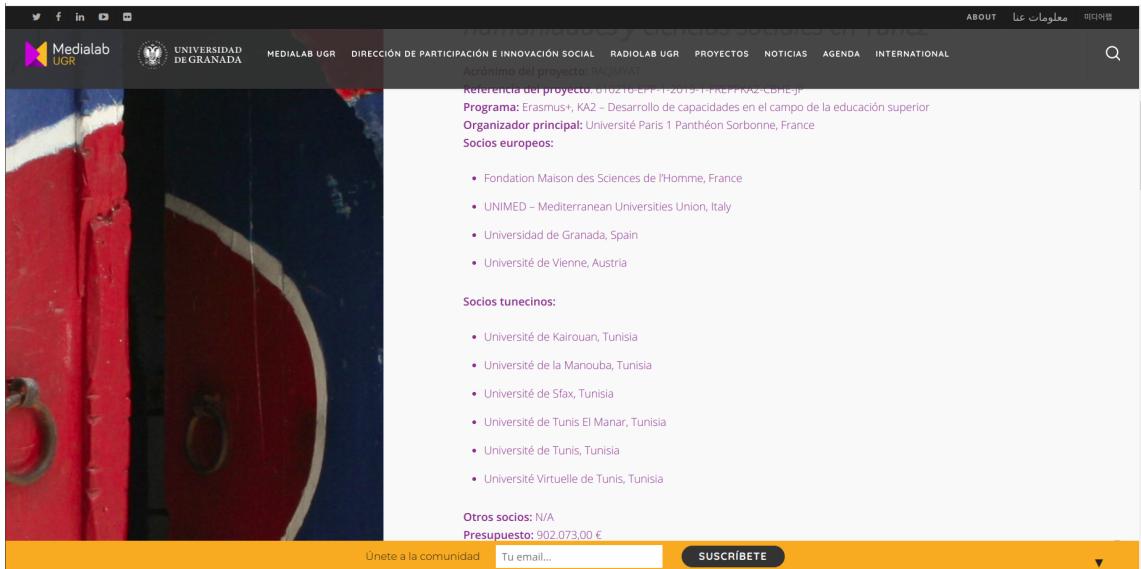


Figura 11: Socios del proyecto cooperativo



Figura 12: Descripción del proyecto cooperativo