
GOALS

The goal of the Dicode project is to facilitate and augment collaboration and decision making in data-intensive and cognitively-complex settings.

To do so, it will exploit and build on the most prominent high-performance computing paradigms and large data processing technologies to meaningfully search, analyze and aggregate data existing in diverse, extremely large, and rapidly evolving sources.

More specifically, the project's S&T objectives are to:

- fully understand the practices and needs of diverse communities and organizations as far as data-intensive and cognitively-complex collaboration and decision making is concerned
- provide a suite of innovative, adaptive and interoperable services that satisfies the full range of the associated requirements
- provide innovative work methodologies that exploit the abovementioned suite of services and advance the current practices in terms of efficiency, creativity, as well as time and cost effectiveness
- ensure usability and acceptability of the above services and work methodologies through their validation in real use cases

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USE CASES

CLINICO-GENOMIC RESEARCH ASSIMILATOR

This use case focuses on scientific collaboration in the clinico-genomic research community managing translational research processes so that relevant findings and results are timely delivered. It helps to explore, evaluate, disseminate and diffuse relative scientific results. The Clinico-Genomic Research Assimilator links and mines disparate clinical and post-genomic data sources.

TRIAL OF RHEUMATOID ARTHRITIS TREATMENT

Focusing on medical decision making, this use case helps doctors and patients in the domain of Rheumatoid Arthritis treatment. Dicode services will enable more effective collaborative decision making to speed up the introduction of life changing treatments.

OPINION MINING FROM UNSTRUCTURED WEB 2.0 DATA

This use case concerns capturing traceable, commercially valuable information to support marketing decisions and strategies. Through this use case, we aim to validate the Dicode suite of services for the automatic analyses of voluminous amounts of unstructured information from Web 2.0 platforms like forums, blogs or social networks.



Mastering Data-Intensive Collaboration and Decision Making

Data mining on unstructured and multi-faceted data

Collaboration and decision making support

High performance Data Mining

<http://dicode-project.eu>

PARTNERS



IMAGE ANALYSIS LTD

combines leading expertise in medical imaging and advanced computer science to bring practical innovation to the computer-aided diagnosis market.

UNIVERSITY OF LEEDS

amongst the top 10 research-intensive universities in the UK. Two research institutes contribute to Dicode: Institute for Computational and Systems Science and Institute for Artificial Intelligence and Biological Systems.

UNIVERSIDAD POLITÉCNICA DE MADRID

oldest and largest Spanish technical university UPM, as a top quality academic establishment, has a strong commitment to R&D and Innovation.

FUNDED UNDER: 7th FWP

PROJECT REFERENCE: 257184

TOTAL COST: 3,51 million euro

EU CONTRIBUTION: 2,6 million euro

START DATE: September 1, 2010

DURATION: 36 months

CONTRACT TYPE: Collaborative Project (STREP)

COORDINATOR: Research Academic Computer Technology Institute, Greece

RESEARCH ACADEMIC COMPUTER TECHNOLOGY INSTITUTE

non-profit research organisation, supervised by the Greek Ministry of Education. Conducts basic and applied research in strategic areas of Computer Science and Technology, also acts as a Greek State Consultant for ICT operational programmes.

NEOFONIE GMBH

leading supplier of innovative technologies and convergent applications, specialises in the areas of search, social media and mobile applications. As a full-service IT company, neofonie accompanies clients from project conception to realisation.

FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V.

Germany's leading organization of research institutions for applied research.

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THE BIOMEDICAL RESEARCH FOUNDATION OF THE ACADEMY OF ATHENS

non-profit institute dedicated to understanding, treating, and preventing human ailments through biomedical research.

