OpenReq

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D8.2 Public material and community report

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Abstract: This document outlines the public materials of the OpenReq project that are initially available to the public, such as the project brochure, website and social media channels. Of course, those materials will evolve during the development of the project

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1 WEBSITE

The OpenReq website can be found at:

http://www.openreq.eu

The main function of the site is to be the public window to the project and as such it will evolve in parallel with the development of OpenReq. The site also contains the Knowledge Base of the OpenReq project, now under construction and to be available after the first year of the project. The Knowledge Base is a public deliverable scheduled for Month 12 (end of December 2017)
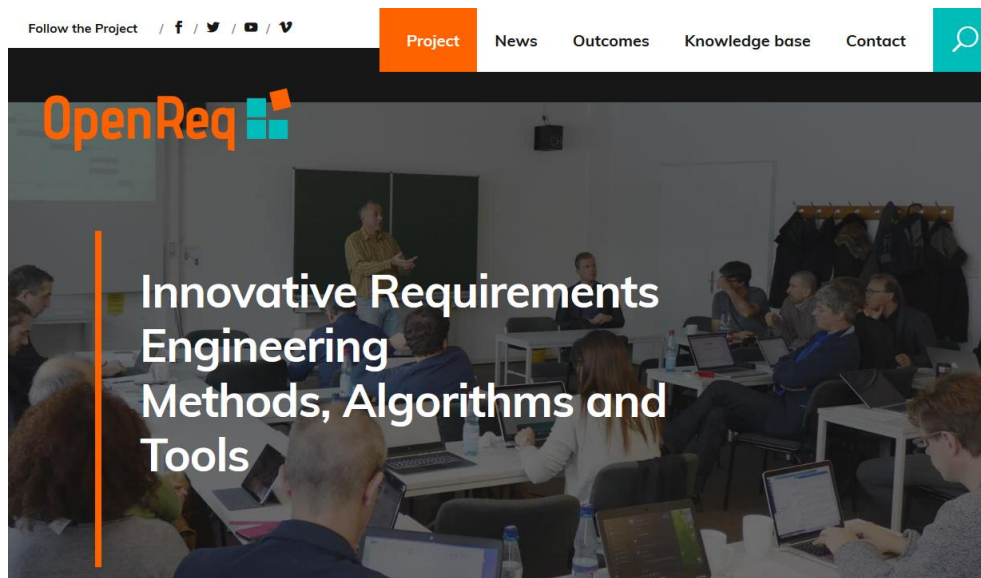
Initial Site Structure

- Main page
  - Key Facts
  - Team
  - Advisory Board
  - Media
- News
- Outcomes
  - Tools and Data
  - Publications
  - Deliverables
- Knowledge Base
  - Literature
  - Research Projects
  - Companies and Tools
- Contact

Main Page

The main page is used as the first contact point for people learning about the OpenReq project. It tells, in simple terms, what the project is about and provides links to relevant information, like News and the Knowledge Base.
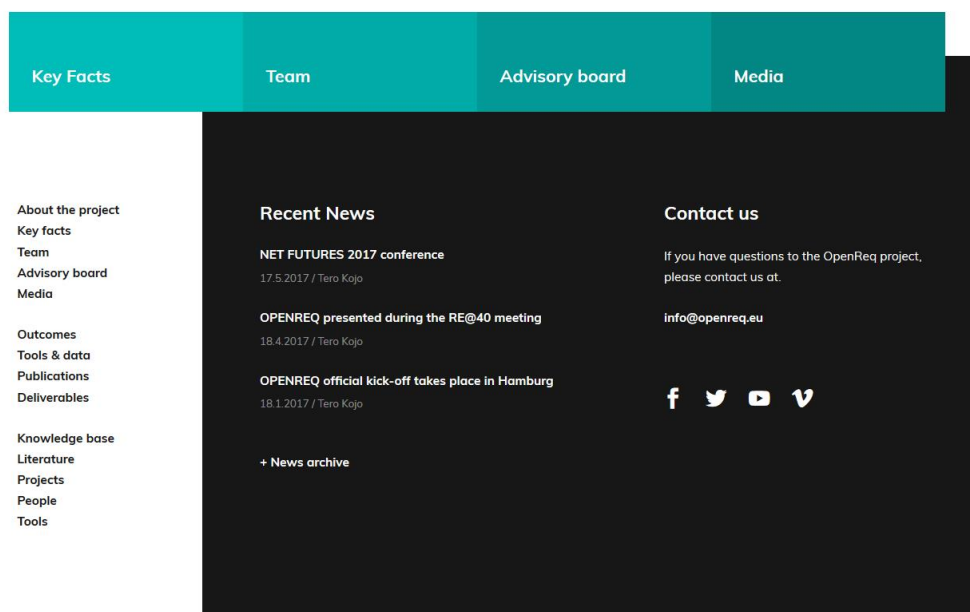
Once the user has taken a look at the information and scrolled the page a bit, he finds more links on the lower part of the page. This is intentional as a user who reads through the page will most likely want to read more about the project.

Figure 1. www.openreq.eu main page

News

Figure 2. News page

The News page contains articles from the project, the partners, or relevant facts in the field of RE. The target is to have new content at a regular pace on the news page, so that the site stays active and dynamic.

Knowledge base

The Knowledge Base is the public Deliverable D1.1 of the OpenReq project, to be submitted at the end of Month 12 (December 2017). It will contain the gathered information on literature, research projects and tools for modern requirements engineering and decision support.

The content is being prepared by the partner organisations and will be published and maintained in public in the Knowledge Base section of the website.

2 SOCIAL MEDIA CHANNELS

OpenReq is visible in several social media channels that cover most of the target audience groups the project is aiming to connect with.

Twitter

Twitter is the preferred social media channel among researchers and software engineering professionals. It is a practical and easy channel to be present in, and will be the main channel for OpenReq to be present, at https://twitter.com/openrequ

Compared to other channels (Facebook, Instagram, LinkedIn, YouTube, Snapchat, etc.), Twitter presents a good combination of ease of use, openness to everyone and availability on both desktop and mobile.
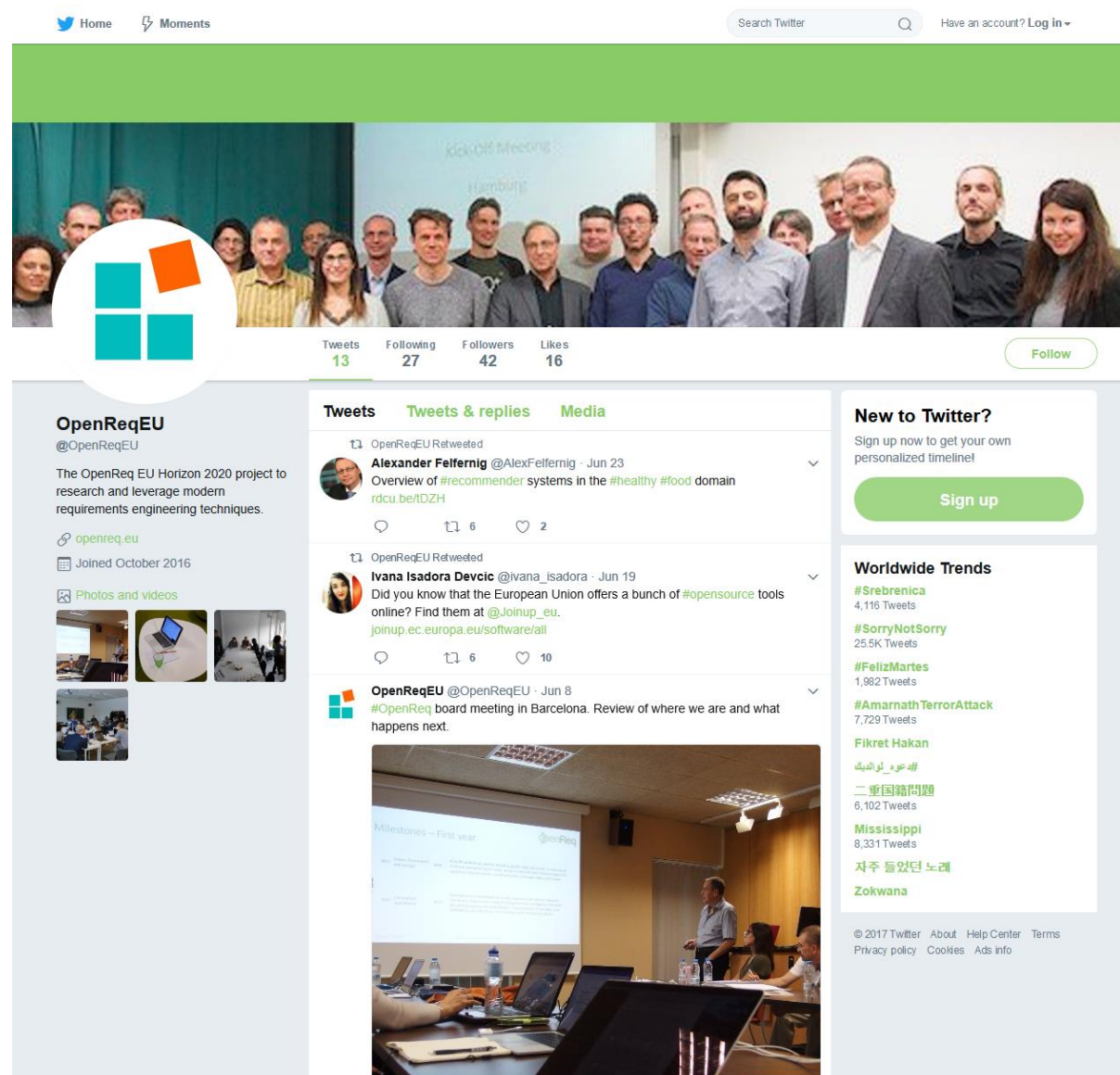
Figure 3. OpenReq Twitter page

Instagram

OpenReq has reserved an Instagram account, as that has been a rising channel among the current young population.

The selection of channels needs to fit the target audiences the project wants to reach at different points in the project lifecycle.

LinkedIn

On LinkedIn OpenReq is visible through its partners and groups. For example the Recommender Systems and Software Engineering group is run by our partner Technical University of Graz.
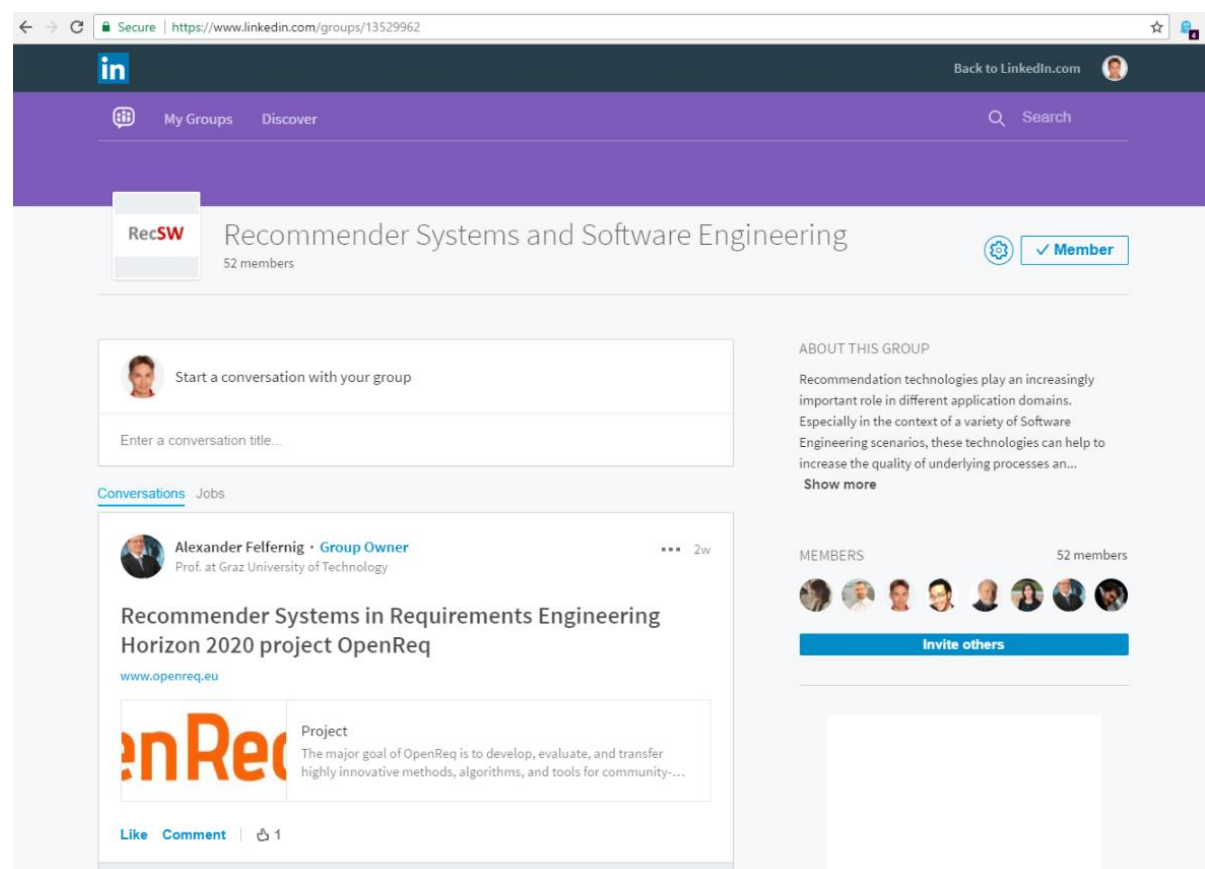
Figure 4. LinkedIn page

A separate own page for OpenReq on LinkedIn is considered, but the benefits of maintaining multiple presences is not clear at this point. It is probably easier to have LinkedIn groups when needed, like for the open call initiative later in the project.

YouTube

OpenReq is registering a YouTube channel for materials that will be filmed when the project has shareable results.

3 BROCHURE

The initial brochure of OpenReq was prepared on May 2017 to answer the request by the DG CNECT Cloud and Software Unit to produce a fact sheet to be published at the Unit webpage on the Commission website. In its current version the brochure presents the definition and initial status of the project, but future versions will show the progress of the project at relevant milestones. The brochure is reproduced in the following pages.

OpenReq

The goal of OpenReq is to develop, evaluate, and transfer innovative methods, algorithms, and tools for community-driven Requirements Engineering in large and distributed software-intensive projects. The continuous involvement of the stakeholders in the different requirements engineering activities enables an interactive and constructive requirements management, QA, and decision-making process. The project success will be evaluated in a series of trials in the domains of telecom, transportation, and cross-platform open source software.

AT A GLANCE

Project title
Intelligent Recommendation Decision Technologies for Community-Driven Requirements Engineering.

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01.2017 – 12.2019

Total cost
4.511.775 €

EC Contribution
4.511.775 €

Programme
H2020-ICT-2016-1

Further information
www.openreq.eu | info@openreq.eu

Context and motivation
Requirements Engineering (RE) is the branch of systems engineering concerned with the real-world goals for, functions of, and constraints on, software systems and services. RE is also considered one of the **most critical activities in ICT projects**. Therefore, a poor requirement engineering approach is a major risk which can lead to the failure of a software project. High quality requirements are essential for the success of an ICT project, since they are the basis for all subsequent development, deployment, and maintenance activities. Thus, improving the RE processes can reduce the overall costs of software, increase the stakeholders' satisfaction, and dramatically improve the time to market. Demanding tools that support the efficient development and management of requirements is, therefore, a must in today's highly competitive markets. OpenReq will develop highly innovative **methods, algorithms, and tools** for improving RE processes especially in large and distributed software projects.

Challenge
Requirements engineering is a key activity in ICT projects: what are the user's current needs and what requirements satisfy them? How much would a requirement

cost and in which release should it be delivered? Which requirements can be reused from similar projects? Are there hidden dependencies or inconsistencies among requirements? What are the acceptable trade-offs for the stakeholders, including the users? A satisfactory, efficient answer to these questions is essential for the success for nowadays software projects.

Solution

OpenReq will meet this challenge by developing new recommendation and decision-making methods. This is possible due to the recent advances in data and text mining, natural language and semantic technologies, social networks analysis, knowledge-based systems, requirements reuse, and interdependency detection and modelling. OpenReq will apply the latest approaches on user participation and decision-making techniques from the field of E-Democracy and E-Participation.

The OpenReq implementation architecture (Figure 1) will consist of three parts: the OpenReq Platform, the OpenReq Interfaces (OpenReq Interface & Integration Service), and the OpenReq Cloud Services.

The solution will be validated in several trials in the domains of telecom, transportation, and cross-platform open source software.

Expected impact

We expect OpenReq to have a positive impact on the overall RE process, with economic and societal repercussions. OpenReq highly innovative recommendation technology will support the whole spectrum of software lifecycle from the requirement prospective-from the elicitation to the planning of releases. This will result in requirements of higher quality, containing less faults, and enabling an easier and controlled evolution of software-enabled products and services. By using OpenReq, we estimate significant reductions in RE activities costs and, therefore, in total software project costs as well as a strong increase of success rate of software projects.

The OpenReq philosophy of making all stakeholders−including the users−first order citizens in the lifecycle of a software product as well as its innovative and integrated assistance allow for the gathering and processing of large and diverse feedback, an easy and controlled customization and deployment of value-added services, and fast innovation cycles.
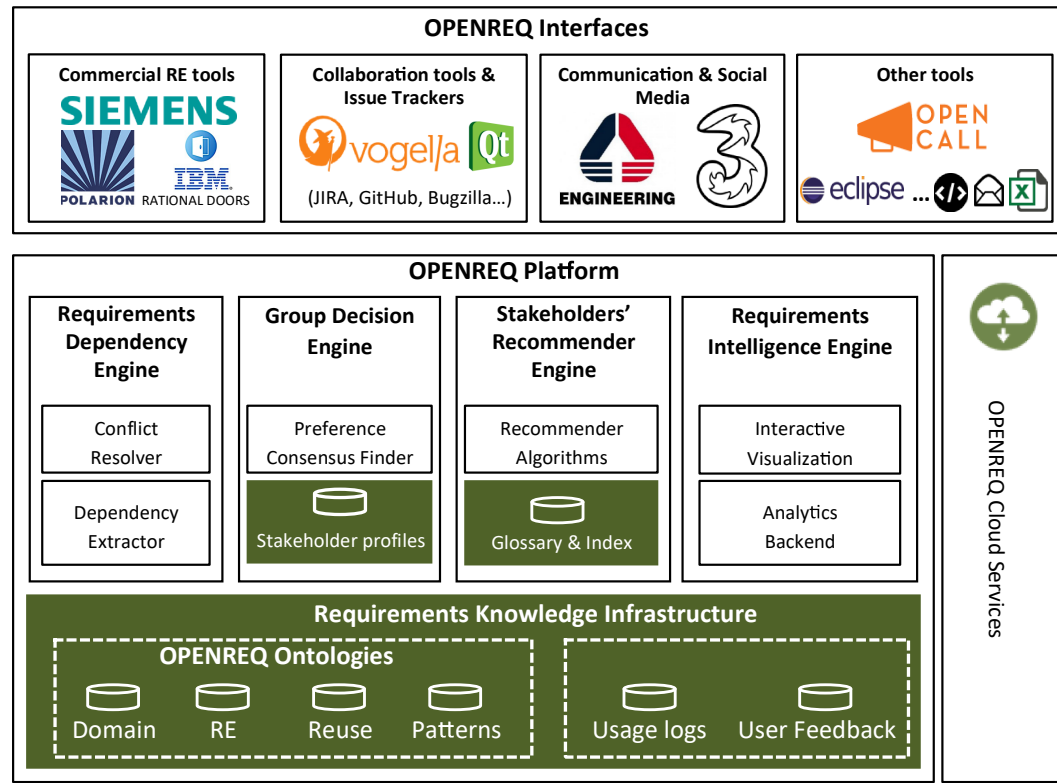

Figure 1. The OpenReq architecture