PROJECT INFORMATION
Project Title: Harmonized approach to stress tests for critical infrastructures against natural hazards
Acronym: STREST
Project N°: 603389
Call N°: FP7-ENV-2013-two-stage
Project start: 01 October 2013
Duration: 36 months

DELIVERABLE INFORMATION
Deliverable Title: Implementation of the web component with general information on the project
Date of issue: 11 February 2014
Work Package: WP7 – Dissemination and stakeholder interaction
Deliverable/Task Leader: ETH Zurich
Reviewer: JRC

REVISION: Final

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Abstract

The www.strest-eu.org website provides information to the public about the STREST project. It is the principal STREST platform for communication, public awareness and dissemination of results. The public website - developed using the Content Management System OpenCms 9.0 and hosted by ETH Zurich, Switzerland - is designed for an easy navigation through a simple one-level menu (Home | Methods | Results | Consortium | Login) and for immediate impact via animations and a bullet point approach. The restricted part of the website is accessible to STREST participants only, with a login and password required. It is the exchange platform of STREST with upload/download options in a folder-based architecture developed using the Document Management System (DMS) Agorum, also hosted by ETH Zurich (http://dms.seismo.ethz.ch/).

Keywords: www.strest-eu.org, dissemination, portal
Acknowledgments

The research leading to these results has received funding from the European Community's Seventh Framework Programme [FP7/2007-2013] under grant agreement n° 603389
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1 Public website

1.1 CONTENT MANAGEMENT SYSTEM (CMS)

The public website is hosted by ETH Zurich under the URL www.strest-eu.org. It is developed using the Content Management System (CMS) OpenCms 9.0. OpenCms is an open source CMS distributed by Alkacon Software with a user-friendly environment for the development of website templates, for content management and for the use of sophisticated tools such as slideshows. Figure 1.1 shows the OpenCms environment for the STREST project.

![OpenCms environment](image)

In addition to the standard OpenCms tools, classic HTML coding was used for the development of the menu bar.

1.2 STREST LOGO DESIGN

About a dozen of STREST logo variants were proposed by several STREST participants. The official STREST logo was selected after a vote by the General Assembly. It is shown in Figure 1.2. An extended version including the project full title is shown in Figure 1.3. The first logo is used for official STREST documents such as deliverables. Both logos can be used by STREST partners for presentations, posters and other dissemination materials. The illustration on the left of the logo represents a seismic wave in red and a water wave in blue. It summarizes the main hazards considered in the STREST project.
1.3 WEBSITE DESCRIPTION

The website (www.strest-eu.org) went online in December 2013. Figures 1.4 to 1.7 show screenshots of the different webpages: Home, Methods, Results and Consortium. Contents are subject to changes throughout the duration of the project. Only public documents are directly available in the Results section. Other documents (e.g. restricted access Deliverables) are available via the STREST portal (see section 2).
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Work Packages

Vulnerability models for the performance and consequences assessment in stress tests of CIs

The objectives of WP4 are to characterize the performance assessment of the selected critical infrastructure (CI) classes with respect to hazard scenarios (initiating events) and the resulting consequence analysis (triggering loss) to address vulnerability models required by stress tests on non-nuclear CIs exposed to natural hazards, to assess probabilistically the systemic performance for the selected CI classes in a multi-risk environment (including cascading risks) and standardised manner (i.e. exportable), to address the quantitative resilience of the facility and its performance with respect to post-accident risk management, to propose a taxonomy of CIs based on their vulnerability characteristics and exposure to natural hazard initiating events, to define appropriate measures of societal resilience to CI failures.

Test Sites

In order to develop and test harmonized methods, which can be implemented in practice, the STREST consortium works together with industrial partners to apply the STREST results in selected analyses of critical infrastructures (CIs) exemplifying three CI classes:

- A. Individual, single-site infrastructures with high risk and potential for high local impact and regional or global consequences
- B. Distributed and/or geographically extended infrastructures with potentially high economic and environmental impact
- C. Distributed, multipurpose infrastructures with low individual impact but large collective impact or dependencies

The description of the 6 critical infrastructures considered in the STREST project is given below.

Fig. 1.5 STREST website screenshot: Methods

Fig. 1.6 STREST website screenshot: Results
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STREST Participants

Twelve institutions are involved in the STREST project. The main responsible persons are listed below:

1. Eidgenössische Technische Hochschule Zürich (ETH Zurich) - O. Giardini (Coordinator), A. Mignan (Manager, WP1 leader), B. Stojadinovic (WP4 leader)
2. Ecole Polytechnique Federale de Lausanne (EPFL) - A. Schnars
3. Binder & Kthalmann (B&K) - K. Zurich (WP3 leader)
4. European Centre for Training and Research in Earthquake Engineering (ECETREE) - H. Cowley
5. Analyse und Monitoring des Risikos der Infrastruktur (AMRII) - S. Servo
6. Istituto Nazionale di Geofisica e Vulcanologia (INGV) - L. Sefas
7. Tagesgipfel Naturwissenschaftlicher Ökonomie (TNO) - M. Spruit
8. Institut des Sciences de la Terre (ETHZ), Université Joseph Fourier (UJF) - F. Cotton (WP3 leader)
9. Aristotle University of Thessaloniki (AUTH) - K. Miltakis (WP4 leader)
10. Randolf Observatory and Earthquake Research Institute (ROERI), Bogazici University (BGU) - M. Erdik
11. Ljubljana University (LLJ) - M. Oakes
12. Józef Research Centre (JRC) - T. Tauer (WP7 leader)

Board of Associated Industry Partners (BAIP)

The BAIP is formed of a representative of each of the 12 critical infrastructures considered in the project. Its role is to provide data and recommendations for the application of the methods developed in the STREST project to the selected application sites. Members of the BAIP are:

- CNR and AMRA, risk consultants for ENI/Unioil Almazie petrochemical plant, Italy (C-A1)
- The Swiss Federal Office of Energy (EFO), regulator for the Valais dams of Switzerland (C-A2)
- Rostock International Ltd., operator of the BTC Baltic Pipeline Crossing Oil Pipeline, Turkey (C-A3)
- The Gasunie Transport Services, owner of the national natural gas pipeline system, Netherlands (C-A4)
- The Theodoros Port Authority SA (THPA SA), Greece (C-A5)
- The Confindustria di Napoli, representing the industrial firms in the province of Naples, Italy (C-A6)

International Advisory Board (IAB)

Fig. 1.7 STREST website screenshot: Consortium
2 Restricted section of the website

2.1 DOCUMENT MANAGEMENT SYSTEM (DMS)

The restricted part of the STREST website is accessible by clicking on the Login button in the 1-level menu. It yields to the portal page, shown in Figure 2.1. Access requires a login and password, which information has been sent to the STREST consortium. Once a valid login and password have been entered, the user is transferred to the Document Management System (DMS) Agorum, hosted by ETH Zurich (http://dms.seismo.ethz.ch/). This DMS allows STREST participants to track, store and download electronic documents. Read/write rights are described in the next section.

![Login page](image)

Fig. 2.1 STREST website screenshot: Portal

2.2 DESCRIPTION

Figure 2.2 shows the folder structure defined for the STREST DMS. For efficient information transfer, all STREST participants have the right to write, i.e. upload files, in the dropbox folder. They only have reading rights in all other folders. Only the administrator (Arnaud Mignan, ETH Zurich, at the time of the report writing) has full writing and reading rights. It is the administrator who is responsible for the maintenance and structuration of the DMS contents, which are subject to changes throughout the duration of the STREST project. As of January 2013, the main folders are: General (including document templates, STREST
logos...), Meetings (including presentations, meeting minutes...), Material (including deliverables), Management (including official documents) and Dropbox.

Fig. 2.2 STREST website restricted section: Agorum DMS