Competitiveness and innovation Framework Programme
CIP-ICT-PSP-2012-6 325137
European Network fOr FALL Prevention, Intervention & Security E-NO FALLS

Project Number:	**325137**
Acronym:	**E-NO FALLS**
Title:	**European Network fOr FALL Prevention, Intervention & Security E-NO FALLS**
Call (part) identifier:	CIP-ICT-PSP-2012-6
Start date:	28/01/2013
Duration:	37 months

D5.6 ICT forum: Statistics and analysis of forum use and results

Nature[1]: O
Dissemination level[2]: PU
Due date: Month 31
Date of delivery: Month 37
Partners involved:

- Universitat Politècnica de Catalunya (UPC)
- Centre Tecnològic de Catalunya (EURECAT)
- Authors: Lucía Alandes (UPC) Andreu Català (UPC), Fanny Breuil (EURECAT)

[1] R = Report, P = Prototype, D = Demonstrator, O = Other
[2] PU = Public, PP = Restricted to other programme participants (including the Commission Services), RE= Restricted to a group specified by the consortium (including the Commission Services), CO = Confidential, only for members of the consortium (including the Commission Services)

Revision history

Rev.	Date	Partner	Description	Name
0	06/05/14	UPC	Initial release	Jaume Romagosa
1	15/12/15	UPC	First version	Lucía Alandes
2	10/02/16	UPC	Upload contents	Lucía Alandes
3	22/02/16	EURECAT	Review	Fanny Breuil
4	27/02/16	UPC	Final review	Andreu Català

DISCLAIMER

The work associated with this report has been carried out in accordance with the highest technical standards and the E-NO FALLS partners have endeavoured to achieve the degree of accuracy and reliability appropriate to the work in question. However since the partners have no control over the use to which the information contained within the report is to be put by any other party, any other such party shall be deemed to have satisfied itself as to the suitability and reliability of the information in relation to any particular use, purpose or application.

Under no circumstances will any of the partners, their servants, employees or agents accept any liability whatsoever arising out of any error or inaccuracy contained in this report (or any further consolidation, summary, publication or dissemination of the information contained within this report) and/or the connected work and disclaim all liability for any loss, damage, expenses, claims or infringement of third party rights.

List of figures

Figure 1. ICT FORUM letter to stakeholderss.....8
Figure 2. ICT CT repository main page.....11
Figure 3. Google analytics. Audience Overview.....13
Figure 4. Google analytics. Audience Locate and behaviour.....14

Table of contents

1 Introduction.....6
2 Dissemination 8
3 Synergy with OIT ProFouND.....10
4 Statistics.....11
4 Conclusions.....15

1 Introduction

The purpose of this task is to create a portal in order to provide a common site where anybody interested in the ICT systems for fall prevention could find the most significant developments in the area either from research projects or already in the market. The interactivity of the site must allow comparisons, analysis and recommendations.

E-NOFALLS has hosted the common ICT forum on the E-NOFALLS website (linked to fallprevention.eu). This forum consists of two separate components as follows: E-NOFALLS establishes a "repository" of available ICT technologies for falls prevention from one side, and for fall detection from the other side.

This features:

• Reviews. The reviews of a technical system will be guided according to a certain list of items that will be provided by the web portal.

• User-related experience. Someone who has some experience with the device and can provide the personal comments

• Questions. Someone interested in the device who wants to know more about specific aspects of it.

• The information can be provided by any person. It is thought that at the beginning both ProFouND, E-NOFALLS and EIPAHA A2 partners have provided the content of the forum.

Moderation of the information is necessary to have relevant and consistent information in the forum. E-NOFALLS has been responsible for providing this moderation.

In short, the E-NOFALLS element provides a databank of information about ICT Based technologies for falls while ProFouND provides a collaboration space to co-produce solutions and plan delivery. ProFouND WP7 has willing for the on-line innovation factory to be hosted on the E-NOFALLS website and signposted from the EU falls prevention website and that members of both ProFouND and E-NOFALLS networks and the AHA EIP A2 are welcome to contribute to the repository.

ICT forum implementation:

The forum structure that satisfies the previously described specific requirements is the following:

- The main page of the forum contains the different categories of the technical devices evaluated. Any user (registered or not registered) will be able to see and enter into any category.

- Once entered into a category, an entry for each device belonging to the category is shown. Any user (registered or not registered) is able to see and enter into any device discussion entry.

- The device discussion entries satisfy the following requirements:

- The first post of the discussion will consist in the review of the technical product. This post must be written by a registered user and must be edited from an E-NOFALLS or PROFOUND member.

- The posts responding to the first post will contain the user-related experiences and questions referring to the technical device reviewed in the first post. Moderators check that the information posted in the Device discussion is conforming to these principles.

The main work related to this task has been the design and architecture of the forum, the structure of the maintenance and supervision, user's administration, moderator management and content upload and revision.

The ICT repository has been developed with DRUPAL, a free and open-source content-management framework written in PHP.

The partners involved in this task have been organising regular Telco's to ensure the repository follow-up. In the periods of device uploading, web technical improvements and repository dissemination, these Telco's were organised every Friday.

Dissemination

The website is constantly promoted to stakeholders and the public through the agreed project dissemination channels (see deliverable D5.4 Communication and dissemination Strategy).

Specific dissemination actions are done on a regular base towards ProFouND partners and the EIP AHA A2 group members, giving priority to both communities to upload their known devices and help the ICT Repository to be active (adding reviews, comments, questions etc). Such forum consists of the main stakeholders in the field of fall detection and prevention at European level (21 partners in ProFouND, over 60 organisations and 200 persons in the EIP AHA A2 group).

Letter to stakeholders: Dissemination and Activation of the ICT REPOSITORY

http://www.e-nofalls.eu/ictrepository
A new European ICT Repository compiling all ICT systems aimed at detection/prevention of falls

LETTER-DISSEMINATION REPOSITORY

Dear colleague,

A new European ICT Repository has been created to compile any kind of ICT systems aimed at detection/prevention of falls: http://www.e-nofalls.eu/ictrepository. This Repository has been created in the frame of 2 European Networks funded by the European Commission: E-No Falls and ProFouND.

It aims at offering a **complete review all the existing ICT systems which can be either already on the market or at research/development stage, giving high visibility to these systems at worldwide level.**

Now, we need your collaboration to build the most complete and active Repository on fall detection/prevention systems!

Two ways to contribute to the ICT Repository:

➡ **Uploading your fall detection/prevention system(s) and adding a revision**: this will allow high visibility of your system(s) among the research community, healthcare professionals, manufacturers, sellers, public authorities and elderly.

➡ **Bringing comments on other fall detection/prevention systems**: e.g. asking for more details, or bringing your own experience using a particular system.

INSTRUCTIONS:

To access the ICT REPOSITORY site you should create a new account:

1. To create your account click to the button [Create new account] and complete the form: http://www.e-nofalls.eu/ictrepository/user/register

2. Wait your confirmation email message, and click on the link to confirm your account. The following message will appear: *Thank you for applying for an account. Your account is currently pending approval by the site administrator*. In the meantime, a welcome message with further instructions has been sent to your e-mail address.

3. Once it has been approved, you will receive another email containing information about how to log in, set your password, and other details.

4. After setting your password, you will be able to log in at http://www.e-nofalls.eu/ictrepository/user in the future using:

   username: test
   password: Your password
5. You will then be able to:
   - Upload information on your device, clicking on "add content"->"device".
   - Add a revision with more details on your device, clicking "add content"->"revision".
   - Make a comment or a question to other devices, clicking: “xxxxxxxxxx

Many thanks in advance for your contribution to the ICT Repository!

Best regards,

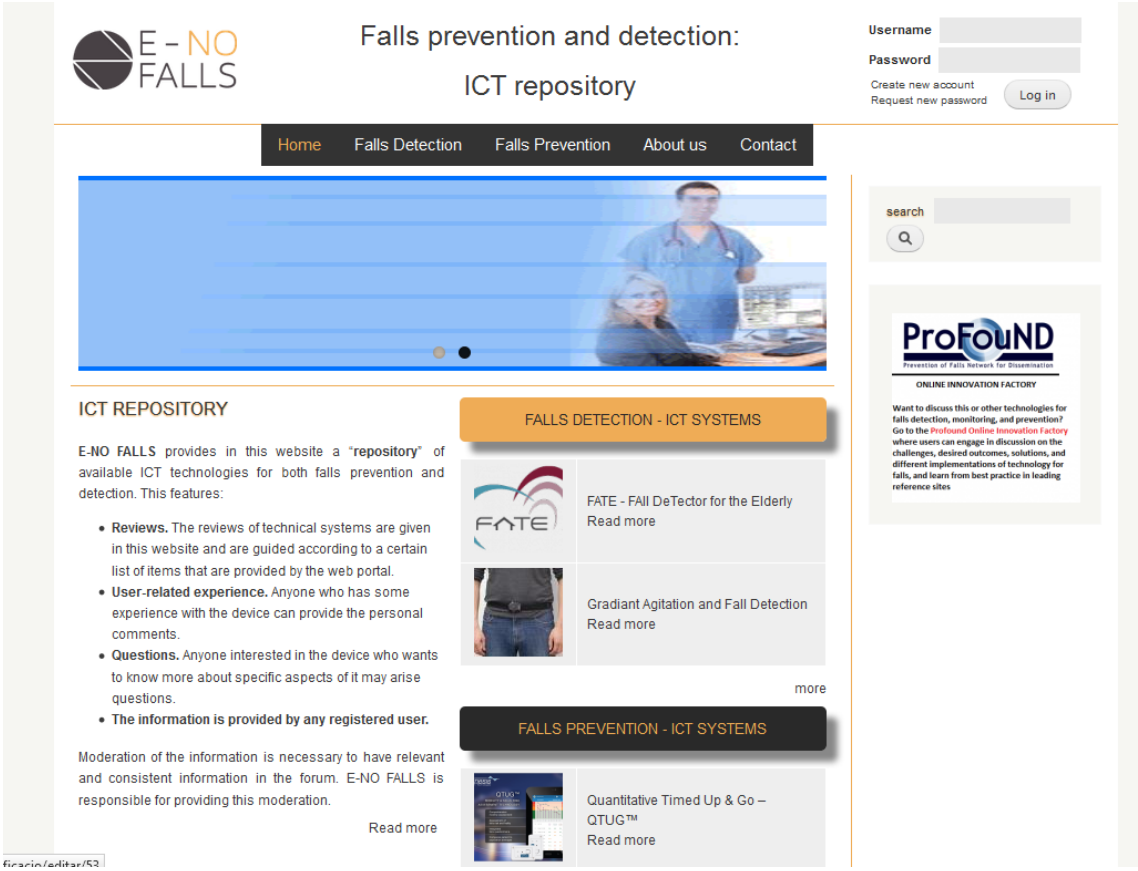
2 Synergy with OIT PROFOUND

The E-NO FALLS network has discussed with ProFouND about the different ways to link the two websites (E- NO FALLS Repository with the Online Innovation Factory from ProFouND). Some solutions such as tagging things that were on each site appear to be complex to be implemented, therefore we agreed to host logos and a brief description of the networks in each site in a visible way. The text for the ProFound Online Innovation Factory is:

Want to discuss this or other technologies for falls detection, monitoring, and prevention? Go to the ProFouND Online Innovation Factory where users can engage in discussion on the challenges, desired outcomes, solutions, and different implementations of technology for falls, and learn from best practice in leading reference sites.

The ProFouND logo direct straight to the forum here
http://ProFouND.eu.com/forums/forum/innovation-factory/

By the other hand the E-NO Falls logo appears in the top right of the OIF with a similar short text.



3 Statistics

Since the ICT forum is available, about one and half year ago the number of devices and revisions have been increasing.

- 55 devices uploaded
  - 38 fall detection
  - 17 fall prevention
- 14 revisions

We can see that have been introduced more for fall detection area rather than fall prevention, which is basically due to the existence of more fall detection solutions already in the market. Indeed, there are few existing fall prevention solutions, being a very innovative field of research with lower technology readiness levels at this moment.

The web provides a review all the existing ICT systems which can be either already on the market or at research/development stage, giving high visibility to these systems at worldwide level.

FALLS PREVENTION - ICT SYSTEMS

System

- Any -

Quantitative Timed Up & Go – QTUG™

Quantitative Timed Up & Go – "QTUG™"

Commercially available, evidence-based technology for assessment of Falls risk, Frailty and Mobility.

It is based on the widely used Timed Up & Go (TUG) test, instrumented with body-worn inertial sensors that stream data wirelessly via Bluetooth to a touchscreen tablet device.

Read more

Smartphone Based Fall Risk Assessment Tool

Description:

This project explores the sensing capabilities of the smartphone as a fall risk assessment tool. Specific mobility and balance impairments are assessed using exercises or serious games and questionnaires are also used to assess behavioral factors such as the fear of falling.

Read more

Magic Carpet

'Magic carpet' could help prevent falls

A 'magic carpet' which can immediately detect when someone has fallen and can help to predict mobility problems has been demonstrated by University of Manchester scientists.

Plastic optical fibres, laid on the underlay of a carpet, can bend when anyone treads on it and map, in real-time, their walking patterns.

Read more

REVISIONS OF THIS DEVICE

24/04/2015 - 18:45

FATE - FALL DETECTOR FOR THE ELDERLY - # 24/04/2015 - 18:45

Basic Information

Device: FATE - FAll DeTector for the Elderly

Results for the first round of pilots

Market

Market availability?: NO

Research Process

Research process result?: NO

Does it have any scientific publication related to the system?: NO

Pilot

Has been made any pilot with the system?: YES
How many people participated?: 175
What was the efectiveness that demostrated the system (specificity / sensitivity)?:
99.98 / 100

Log in or register to post comments

COMMENTS

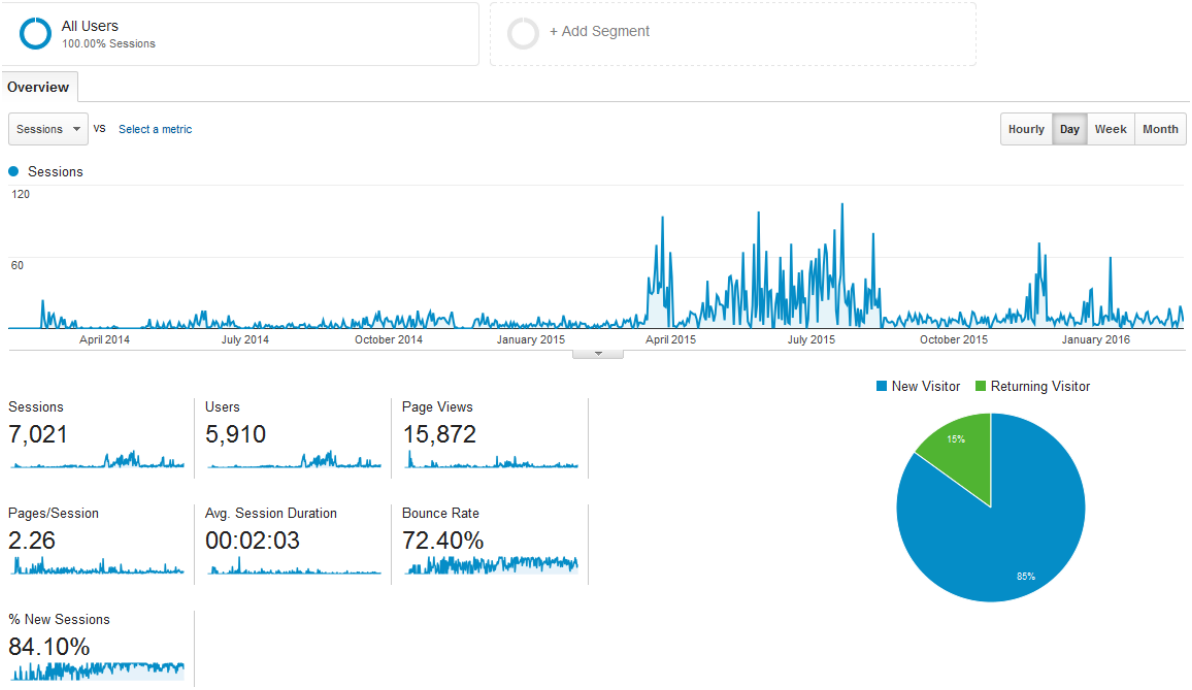
jmmarostegui
Fri, 24/04/2015 - 18:51
permalink

Preliminary results for the first round of pilots

- Number of falls in the intervention branch: 47
- Number of falls in the control branch: 158
- Users with falls in the intervention branch: 22.69 %
- Users with falls in the control branch: 28.86 %
- Dropouts in the intervention branch: 31.19 %
- Dropouts in the control branch: 9.85 %

To assess how effective the website is in reaching visitors, it has been used standard web traffic analysis tool [Google Analytics] to track the number of visitors.

Audience Overview



The results indicate that the number of total sessions is 7.021 and users are already 5.837. Moreover, 85% are new visitors, and 15% are returning visitors.
We can appreciate that the highest period of visits was done between April and August 2015, corresponding to the period when more devices were uploaded.
The analysis also reveals that the number of pages per session is 2.12 and the average session duration is of almost 2 minutes.

Audience Location

Country	Sessions	Pages/Session	Avg. Session Duration	% New Sessions	Bounce Rate
	7,021 % of Total: 100.00% (7,021)	2.26 Avg for View: 2.26 (0.00%)	00:02:03 Avg for View: 00:02:03 (0.00%)	84.97% Avg for View: 84.10% (1.03%)	72.40% Avg for View: 72.40% (0.00%)
1. United States	1,812 (25.81%)	1.36	00:00:42	97.74%	80.74%
2. (not set)	1,083 (15.43%)	1.06	00:00:21	100.00%	91.87%
3. Spain	650 (9.26%)	6.29	00:08:05	42.77%	35.85%
4. United Kingdom	361 (5.14%)	2.52	00:02:40	80.06%	59.83%
5. China	269 (3.83%)	1.06	00:00:31	97.40%	88.10%
6. France	196 (2.79%)	8.25	00:10:09	57.14%	43.37%
7. Germany	172 (2.45%)	2.42	00:00:59	94.19%	73.84%
8. Japan	157 (2.24%)	1.13	00:00:18	96.82%	89.17%
9. Russia	151 (2.15%)	1.18	00:00:58	27.15%	86.09%
10. Italy	150 (2.14%)	1.97	00:01:19	83.33%	62.67%

Show rows: 10 Go to: 1 1-10 of 110

We can appreciate that geographically the United States of America it is in the first position, so the sessions from that country are at the moment 1.812.
Followed by 1.083, unfortunately not geographically determined. The third position is leaded by Spain, followed by the United Kingdom.

Behaviour

User Type	Acquisition			Behaviour		
	Sessions	% New Sessions	New Users	Bounce Rate	Pages/Session	Avg. Session Duration
	7,021 % of Total: 100.00% (7,021)	84.97% Avg for View: 84.10% (1.03%)	5,966 % of Total: 101.03% (5,905)	72.40% Avg for View: 72.40% (0.00%)	2.26 Avg for View: 2.26 (0.00%)	00:02:03 Avg for View: 00:02:03 (0.00%)
1. New Visitor	5,966 (84.97%)	100.00%	5,966(100.00%)	77.47%	1.64	00:01:05
2. Returning Visitor	1,055 (15.03%)	0.00%	0 (0.00%)	43.70%	5.77	00:07:30

Unfortunately, the bounce rate is high (72%) but on the other hand we have 1.055 sessions from returning visitors.

4 Conclusions

E-NOFALLS have created a databank where more than 60 devices and systems are described. The **ICT repository** http://www.e-nofalls.eu/ictrepository provides in this website a "repository" of available ICT technologies for both falls prevention and detection. Reviews of technical systems are given in this website as well as user-related experience and questions.

- The main risk is a low level of activity in the ICT forum repository for falls detection, intervention and security but actually almost all the devices of the market are identified in the repository. This may be due to the still low implementation of such devices in the market, low level of experience of users and the consequent low potential of contributors to the repository to share experiences.

- Continuous web screening performed by the E-NO FALLS partners confirms that it is the first tool in Europe to collect all the technology related to Falls. As fall detection and prevention devices are a promising field that allows Europe being in the forefront of the technology at world level, it is worth continuing to give visibility to such a repository.

- Technology surveillance performed on fall detection-prevention devices shows that technologies for fall detection and prevention are still an emerging market; very few new devices have been designed or created related to falls in the last year.

- A key factor for the success of the repository is the engagement of the stakeholders. For that, as done in all our dissemination activities, it is important to highlight the benefits of using it (giving visibility to own device, comparing existing devices etc).

- UPC and EURECAT are constantly searching for new devices and sending e-mails to engage potential providers and participants.

- One of the upcoming challenges is to disseminate the web, engage and promote SME to use the web, and final users, doctors, physicians, too.

- The information contained on the ICT repository is likely to be valuable even after the project has finished. Therefore, the consortium aims at ensuring that the website will continue to exist after the project funding has finished and that bookmarks and published URLs will continue to function, as part of the E-NOFALLS strategy for sustainability of the network.