



SEDUCE

Senior Citizen Use of Computer Mediated Communication and Information in Web Ecologies

SEDUCE project

Ana Veloso, Aveiro, 12 july 2012

Universidade de Aveiro, Portugal

<http://www.ua.pt/>

CETAC.MEDIA

(Centro de Estudos das Tecnologias e Ciências da Comunicação) Aveiro branch

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KEYWORDS

Elderly, e-inclusion, technologically mediated communication, usability

January 2011 >> 36 months >> December 2013

PI – Ana Veloso



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GOALS

- assess the impact of non-cognitive effects through the use of ICT among senior citizens in the social context of online social community
- and to build an online community with the participation of senior citizens.

This project also aims to help and promote a better quality of life of seniors in the Portuguese national reality.

The project is being developed with the collaboration of 4 Day Care Centers and/or Seniors' Center Homes of Aveiro's council which accepted our invitation to be involved.



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TEAM

Ana Isabel Veloso (PI)

Fernanda Ribeiro | Lídia Silva | Maria João Antunes (information science)

Óscar Mealha | Jorge Ferraz de Abreu (technological mediated communication)

Liliana Sousa (gerontology)

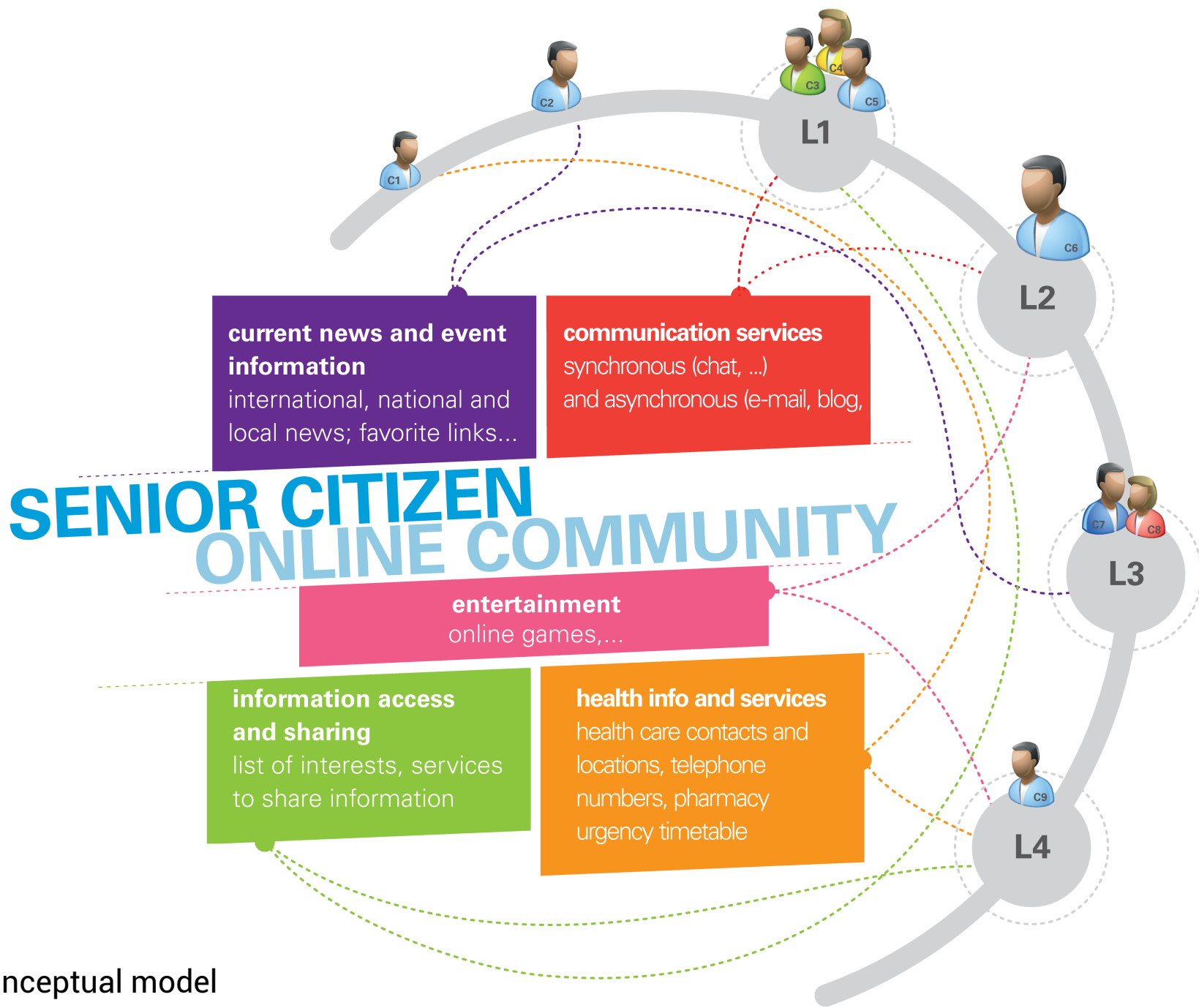
Ana Torres Pires | Fernanda Martins (psychology)

Ivo Daniel Fonseca | Pedro Amado (communication design)

Sónia Ferreira | Renata Pimenta | Célia Soares (PhD ICPD) >> 3

Jessica Simões | Ivan Terra | Renato Costa (Msc MC) >> 3

Liliana Costa | Miguel Marques (Researchers)



web portal conceptual model



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web portal conceptual model

communication services >> synchronous (chat) or asynchronous (e-mail)

current news and event information >> international, national and local news; favorite links;

health info and services >> health care contacts and locations, telephone numbers, pharmacy urgency timetable;

information access & sharing >> list of interests, services to share information (blog, forum, ...)

entertainment >> games, wii,



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Master and PhD students

CONTRIBUTIONS



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communication services >> synchronous (chat) or asynchronous (e-mail)

Since 2008 >> proposal for an asynchronous service (e-mail)

Sonia Ferreira (Msc Multimedia Communication) | 1st phase

- assessment of quality of life and self concept and a layout proposal for two CMC services (email and chat) (**working hard @ PhD**)

Jessica Simões (Msc Multimedia Communication) | 2nd phase

- webmail proposal

Ivo Fonseca (Msc Multimedia Communication) | 2nd phase

- Tablet Apps for the Seniors



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2010

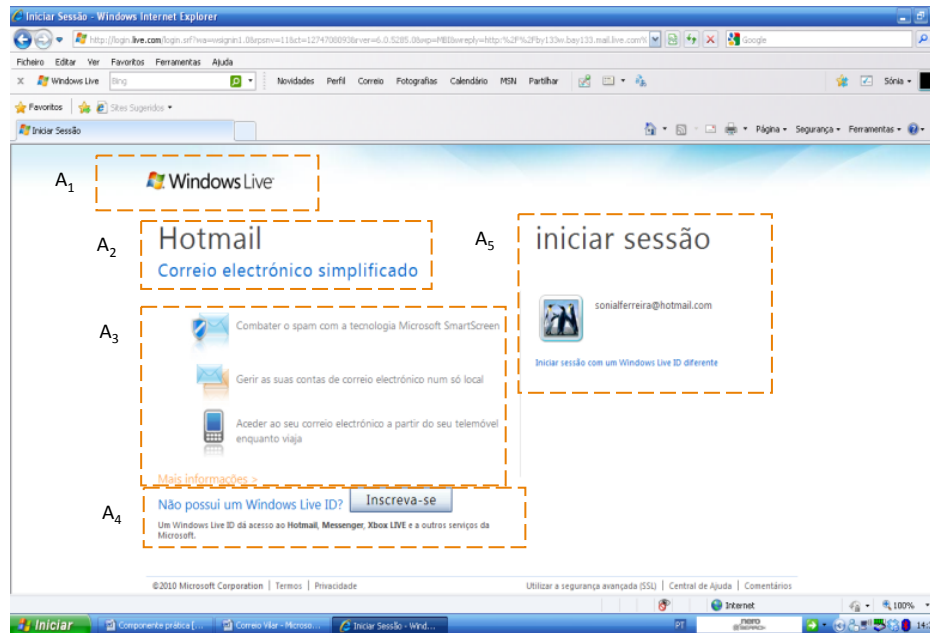


Fig.2 – original scheme, “iniciar sessão”

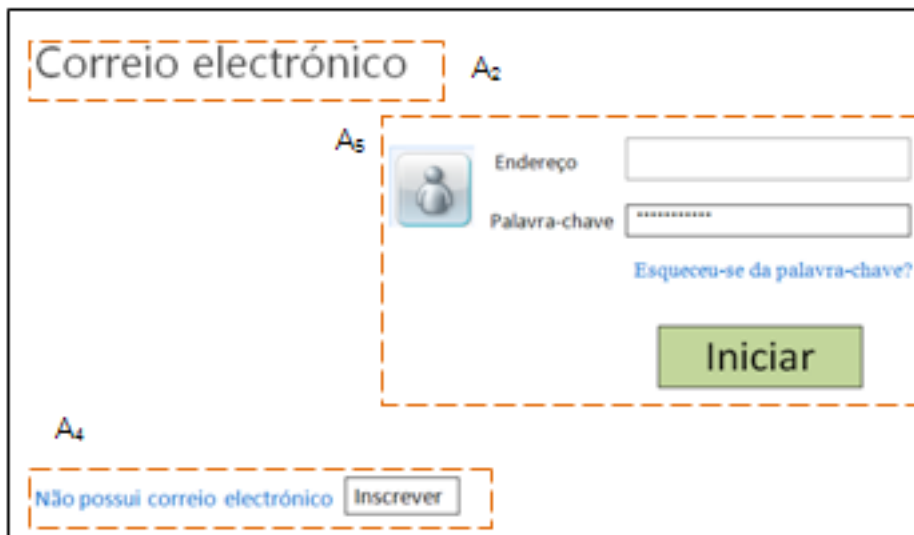


Fig. 3 – 1st result “iniciar sessão”, CPSB

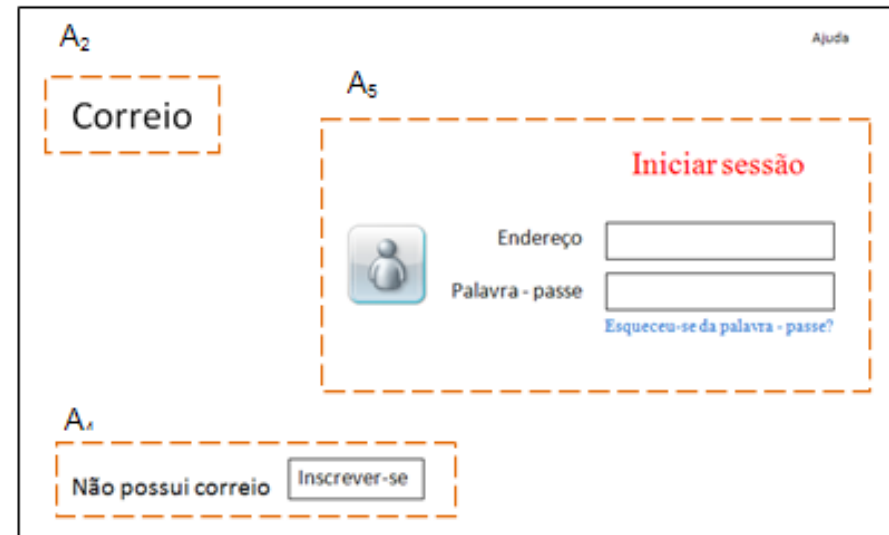


Fig. 4 – 1st result “iniciar sessão”, PNSFV

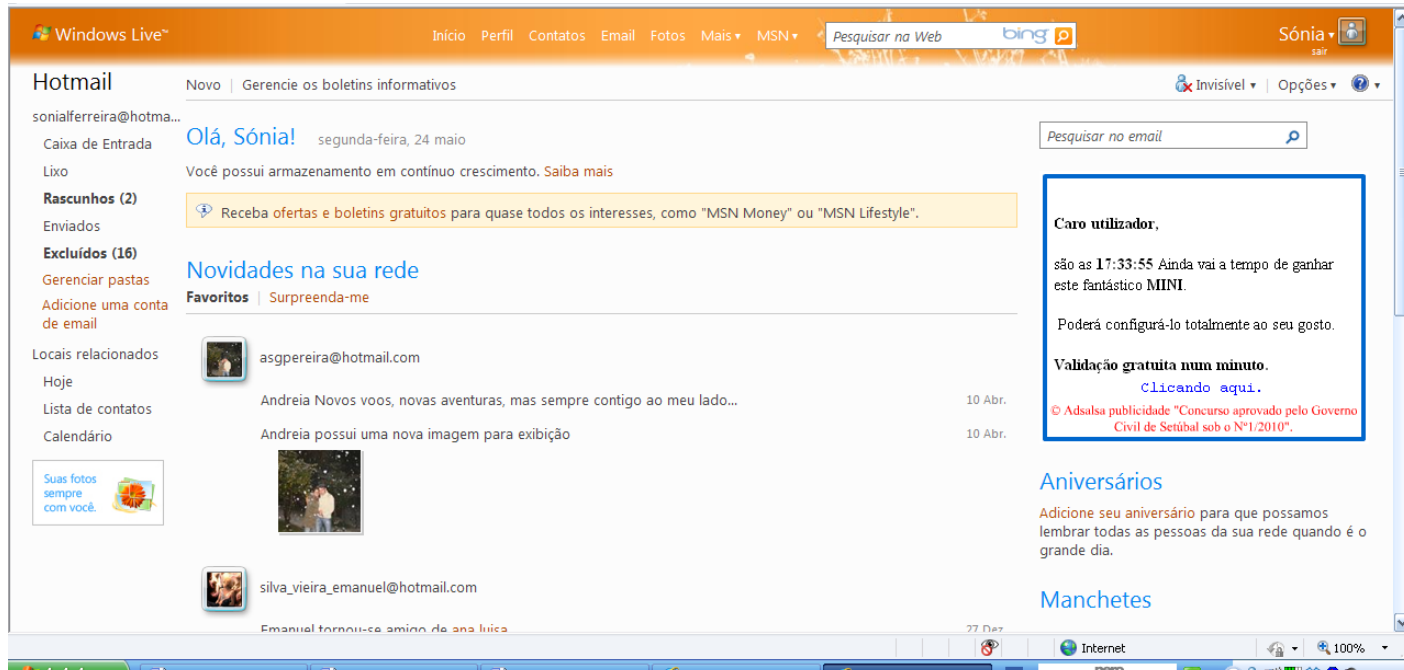


Fig. 5 – Original scheme, “caixa de correio”



Fig. 6 – 1st result “caixa de correio”, CPSB

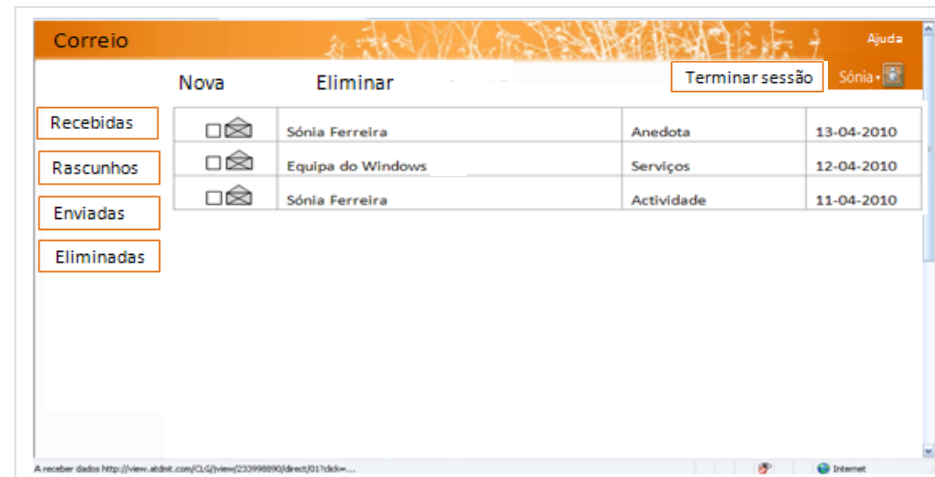


Fig. 7 – 1st result “caixa de correio”, PNSFV

2011

Correio electrónico

Início

Mensagens Novas



De: Jessica Simões

08 de Maio de 2011

Ver

Apagar



De: Maria Amélia

18 de Abril de 2011

Ver

Apagar



De: Rui Santos

18 de Abril de 2011

Ver

Apagar



De: Alberto Rodrigues

17 de Abril de 2011

Ver

Apagar



De: Álvaro Dinis

17 de Abril de 2011

Ver

Apagar





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current news and event information >> international, national and local news; favorite links;

Renato Costa (Msc Multimedia Communication)

> studying, planning and prototyping an area to present and organize a news aggregator online suitable for the senior public.



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entertainment >> games, wii, kinect, ...

Ivan Terra (Msc Multimedia Communication)

> Studying the relationship between the seniors and some videogames with gestural interface; present a proposal of the Portuguese traditional game “jogo da malha” implemented with gestural user interfaces (Kinect)

Renata Pimenta (PhD ICPD) (>2011)

> Studying the relationship between the seniors and videogames interfaces /interactions modes (work in progress)

Liliana Costa (Msc Multimedia Communication) (2013)

> Proposal of a multiplayer real-time virtual world for senior citizens



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2012 (Ivan Terra)





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information access & sharing >> list of interests, services to share information...

Célia Soares (PhD ICPD) (>2012)

> info-communication model for sharing and access of information in web ecologies suitable for senior citizen

(work in progress)



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health info and services >> health care contacts and locations, telephone numbers, pharmacy urgency timetable;

under construction



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five

TASKS



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task 1 - assess non-cognitive measurements and ICT use in the focus groups

task 2 - planning online community and sociability

task 3 - prototype implementation and test with sociability and usability adjustments

task 4 - develop dynamics and strategies for social online community nurturing and consolidation

task 5 - assess comparatively different focus groups after project involvement



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4. Planificação 2011

Task N°	Task Denomination	Person*month	Participant responsible for task	Acronyms of partners involved in task	2011												
					1	2	3	4	5	6	7	8	9	10	11	12	13
1	Assess non-cognitive measurements and ICT use in the focus groups	39,90	AIV	AIV, LO, AT, SF, MJC, MJA, FM, LS, BI, BIC													
2	Planning online community and sociability	34,20	AIV	AIV, OEM, SF, IV, MJC, MJA, FR, JFA, PMA, LS, BI													
3	Prototype implementation and test with sociability and usability adjustments	68,40	AIV	AIV, OEM, SF, IV, FR, JFA, PMA, BI, BIC													
4	Develop dynamics and strategies for social online community nurturing and consolidation	28,50	AIV	AIV, OEM, AT, SF, IV, MJC, FR, JFA, PMA, BI, BIC													
5	Assess comparatively different focus groups after project involvement	34,20	AIV	AIV, LO, AT, SF, IV, MJC, MJA, FM, LS, BI, BIC													
		205,20															

M1

M1 - First assessment

M2 - Online social community

M3 - Overall results

1st Progress Report



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4. Planificação 2012

Task N°	Task Denomination	Person*month	Participant responsible for task	Acronyms of partners involved in task	2012												25
					13	14	15	16	17	18	19	20	21	22	23	24	
1	Assess non-cognitive measurements and ICT use in the focus groups	39,90	AIV	AIV, LO, AT, SF, MJC, MJA, FM, LS, BI, BIC													
2	Planning online community and sociability	34,20	AIV	AIV, OEM, SF, IV, MJC, MJA, FR, JFA, PMA, LS, BI													
3	Prototype implementation and test with sociability and usability adjustments	68,40	AIV	AIV, OEM, SF, IV, FR, JFA, PMA, BI, BIC													
4	Develop dynamics and strategies for social online community nurturing and consolidation	28,50	AIV	AIV, OEM, AT, SF, IV, MJC, FR, JFA, PMA, BI, BIC													
5	Assess comparatively different focus groups after project involvement	34,20	AIV	AIV, LO, AT, SF, IV, MJC, MJA, FM, LS, BI, BIC													
		205,20															M2

M1 - First assessment

M2 - Online social community

M3 - Overall results

2nd Progress Report



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4. Planificação 2013

Task N°	Task Denomination	Person*month	Participant responsible for task	Acronyms of partners involved in task	2013											
					25	26	27	28	29	30	31	32	33	34	35	36
1	Assess non-cognitive measurements and ICT use in the	39,90	AIV	AIV, LO, AT, SF, MJC, MJA, FM, LS, BI, BIC												
2	Planning online community and sociability	34,20	AIV	AIV, OEM, SF, IV, MJC, MJA, FR, JFA, PMA, LS, BI												
3	Prototype implementation and test with sociability and usability	68,40	AIV	AIV, OEM, SF, IV, FR, JFA, PMA, BI, BIC												
4	Develop dynamics and strategies for social online community	28,50	AIV	AIV, OEM, AT, SF, IV, MJC, FR, JFA, PMA, BI, BIC												
5	Assess comparatively different focus groups after project	34,20	AIV	AIV, LO, AT, SF, IV, MJC, MJA, FM, LS, BI, BIC												
		205,20			M2						M3					

Final Report

M1 - First assessment

M2 - Online social community

M3 - Overall results



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assess non-cognitive measurements and ICT use in the focus groups

TASK 1



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FIELD WORK

- Organization of the spaces
- Installing the equipment
- Selection of the sample (experimental and control group)
- Initial interviews (sample characterization)
- Evaluation of sample Dementia
- Evaluation of sample self concept, mood and quality of life
- Agenda organization (2 session per week per institution)



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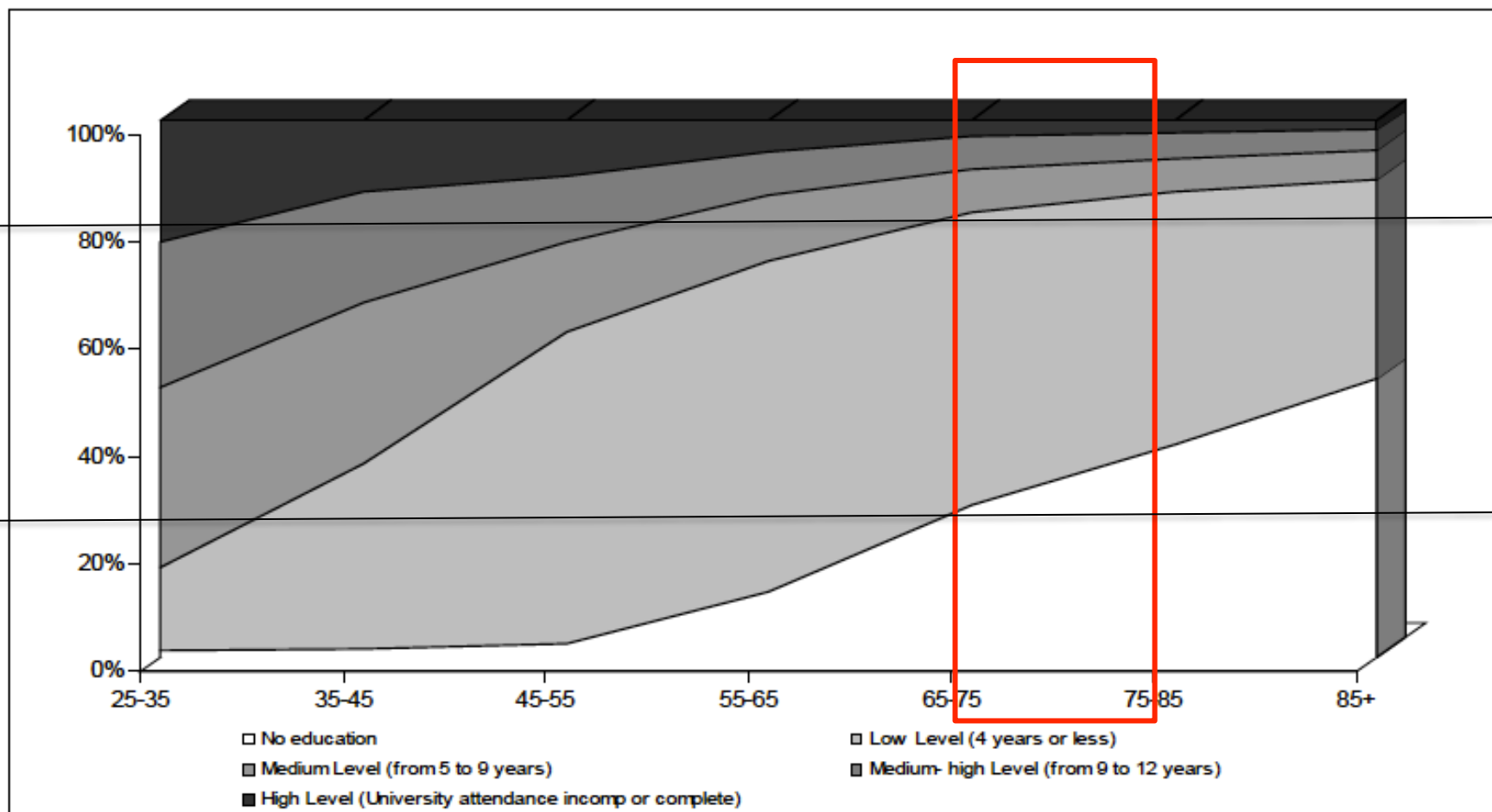


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Figure 9. Portuguese Educational level by Age Structure. 2001



Source: Authors calculation based on data from INE, XIV° Recenseamento Geral da População Portuguesa

Font: EUROSTAT 2011, page 67



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planning online community and sociability

TASK 2



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FIELD WORK (EXPERIMENTAL GROUP)

4 day care centers and/or Seniors Center Homes

- 5 seniors

Patronato de Nossa Sr^a Fátima de Vilar (PNSFV)

- 5 seniors

Centro Social Santa Joana Princesa (CSSJP)

- 6 seniors CP S. Bernardo

Centro Paroquial de S. Bernardo (CPSB)

- 6 seniors CESDA

Fundação CESDA (CESDA)



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Preliminary studies

- Participatory and Contextual Design
- Focus groups
- Card sorting and other techniques
-
- Colors
- Layout organization
- Icons/labels
- Typeface legibility
-



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Notícias

Conversas

Saúde

Jogos

Comunicação

SEDUCE

PORTAL SENIOR



NOTÍCIAS



JOGOS



SAÚDE



CONVERSAS

SEDUCE

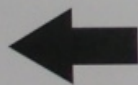
PORTAL SENIOR



CORREIO



FALAR



VOLTAR

SEDUCE

PORTAL SENIOR

CORREIO



VOLTAR

ENVIAR



NOTÍCIAS
INTERNACIONAIS



FARMÁCIAS



COPAS



CORREIO



NOTÍCIAS
NACIONAIS



HOSPITAIS



DAMAS



CONVERSAR

SEDUCE

PORTAL SENIOR



DOMINÓ

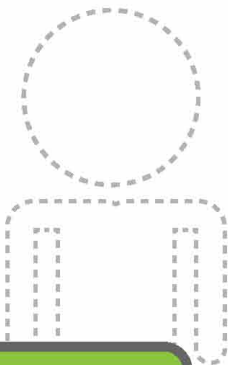


FÓRUM

de boate / discussão

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Ausente



Escrevi-lhe
uma mensagem

Vamos jogar
Copas.



saúde



notícias



jogos



comunidade



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prototype implementation and test with sociability and usability adjustments

TASK 3



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Pedro Amado

Layout & Typeface Guidelines (Draft 1): References:

1) Typeface:

- 1a) sans serif;
- 1b) legible: high x-height, wide horizontal proportions, pronounced extenders, pronounced/distinct finishing strokes and crossbars, open counters, consistent low modulation strokes, distinct glyph set (*1);
- 1c) large body (*2);
- 1d) use the minimum number of fonts possible;
- 1e) roman-regular type style (*8);
- 1f) avoid decoration (*6);
- 1g) Use of Sentence or Mixed Case forms;

2) Spacing and alignment (in comparison to normal vision reader materials);

- 2a) wider letter spacing;
- 2b) increased line height;
- 2c) increased spacing on images, graphics and page layout elements (gutters, margins, etc) (*3);
- 2d) Left-hand alignment;

3) Structure of the text:

- 3a) clear contrast between structure/functions like headings, subheadings, lead, body, captions, etc (*7);
- 3b) smaller, or more separated units of text (*4) (*8);
- 3c) use structures like bullet lists, or boxes to highlight, or separate (*8);

4) Color:

- 4a) bright, avoiding low saturation, or vibrant (*5);
- 4b) dark on light (AKA, black type on white backgrounds);
- 4c) avoid reverse outs and background patterns;

2001 - AGELIGHT - Interface design guidelines for users of all ages

2001 - Bernard - Liao - Mills - font type size affect reading time

2004 - Strizver - 26FYTIDesigningforSeniorsITC

2004 - University of Washington - Low Vision FAQ

2005 - AARP - Designing Web Sites for Older Adults - Heuristics

2005 - Arditi - Serifs and font legibility

2006 - Nini - AIGA - Typography and the Aging Eye- Typeface Legibility for Older Viewers with Vision Problems

2007 - Russell-Minda et al. - The legibility of typefaces for readers with low vision - a research review

2007 - Yaffa - The Road to Clarity

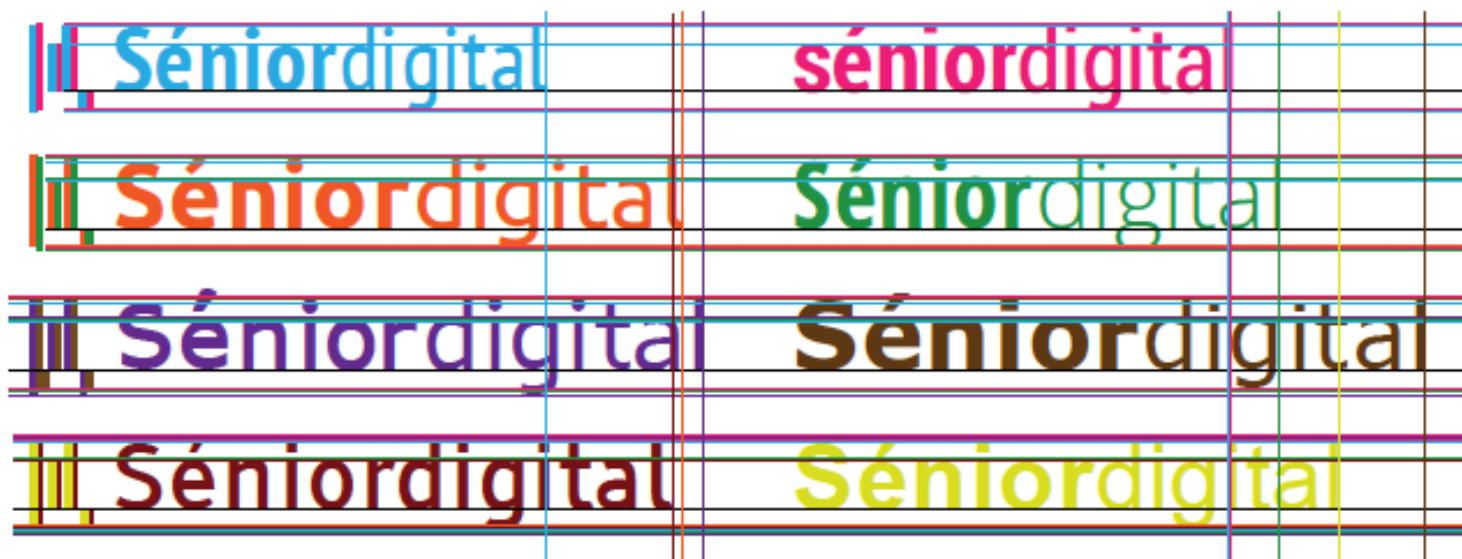
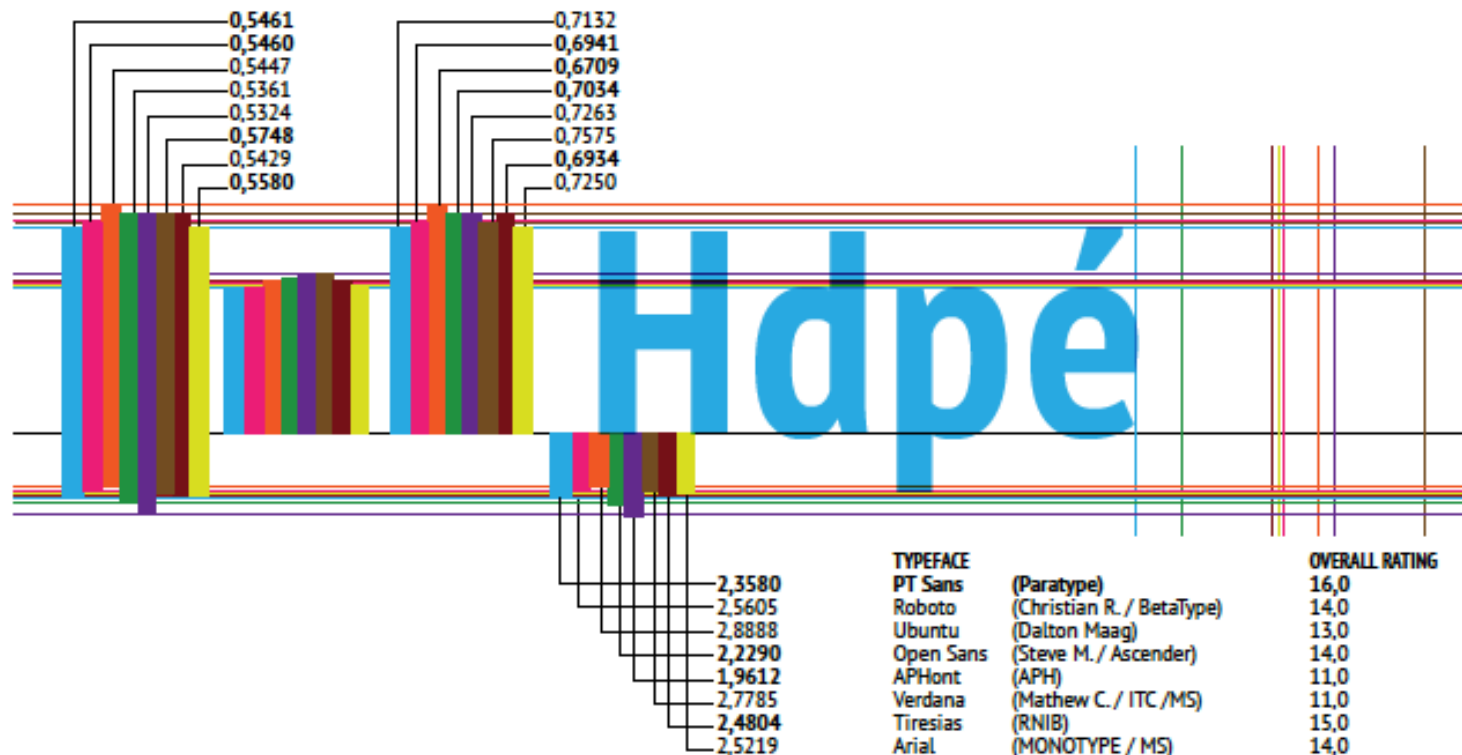
2008 - W3C - Web Accessibility for Older Users - A Literature Review

2009 - Tiresias - Fonts checklist

2009 - Tiresias - How to make fonts and typefaces accessible for people with disabilities

2009 - Tiresias - Typefaces and legibility

2010 - ADA Standards (Chapter 7)







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Entrar

[Esqueceu a senha?](#)

O Projecto SEDUCE tem como objectivo principal avaliar o impacto dos efeitos cognitivos mediante o uso das TIC entre seniores em contexto de comunidade social online e construir uma comunidade social online com a participação do cidadão sénior.

Registo