

A PROJECT BY THOMAS MORE, KU LEUVEN, UPORTO, THE HAGUE UAS, UNIVERSITY WEST AND RVO-SOCIETY



D3.4 Report on recurring needs for technology



Lifelong Learning Programme

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1. INTRODUCTION

1.1 SCOPE AND AIM OF THIS DOCUMENT

This deliverable started from the the Cera-Award database (D3.3) which holds about 100 project ideas to produce deliverable 3.4 'Report on social sectors' recurring needs for technology'.

The consortium decided to use this Belgian database to get insights in recurring needs for technology from the social domain. The other partner countries did not possess such a database or overview of ideas yet and needed time to build close relationships with the faculty of social sciences and the field of social work.

1.1.1 DEFINITION OF THE SOCIAL PROFIT SECTOR

Social profit sector is term often used in a Belgian context. The term 'social profit' is used to indicate that the 'profit' is not expressed in economic terms i.e. money but in social terms.

We use following definition – inspired by the webinar of Jos Sterckx – director of the knowledge centre social Europe www.kcse.be which can be found on the [webinar](#)-section of www.cse-education.eu.

Definition

A social profit organization is an organization which has following two characteristics

1. *The mission of the organization is explicitly social/societal*

Either because

a. Their core business i.e. their outcome (their services or products) is 'social', meaning contribute to health, welfare and inclusion

b. Their production process is 'social' because the organization creates employment for people with a long distance to the labour market.

2. *The organization attaches equal importance to social, environmental and economical value (People-Planet-Profit driven)*

There is no or limited profit distribution to individual shareholders.

Often – but not necessarily - these organizations are –partially- public funded.

1.1.2 RESEARCH QUESTION

What are the characteristics of technological needs that are identified by social profit organizations?

USED SOURCES

Cera Award is a program which prompts the Flemish (i.e. Dutch speaking, northern part of Belgium) social profit sector for their technological needs and proposes them to higher education students in engineering sciences and informatics. An analysis has been done on the available (meaning 'not yet chosen by students') projects in the Cera Award database (60



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projects) and the projects that have been chosen and worked on by students between 2011 and 2014 (40 projects).

These projects have been (manually) analyzed and labeled with following extra fields:

- Sector (as is Belgian local scenario)
 - o Child care; elderly care; health care; mental health; people with disabilities; revalidation; sheltered workspaces; special youth care; youth and education; child services
- End user or Organization Support/Empowerment (see 2.2.1 End-user oriented or organization support/empowerment)
- Main engineering Domain
 - o Civil engineering/construction; architecture; electromechanics; energy; ict; materials; product design

The .xls files of these data can be found on the links below.

[CERA AWARD DATABASE WWW.CERA-AWARD.BE](http://WWW.CERA-AWARD.BE) (DUTCH) AVAILABLE PROJECTS AS PER 1/1/2015

[CHOSEN PROJECTS CERA AWARD 2011-2014](#)

2. ANALYSIS

2.1 #PROJECTS PER SECTOR: ORGANIZATION OR END USER

2.2.1 END-USER ORIENTED OR ORGANIZATION SUPPORT/EMPOWERMENT

The Belgian CSE curriculum identifies two possible frames for projects. Either the projects aim directly at improving the quality of life and autonomy of (vulnerable) target groups in the social profit sector (Frame 1). These projects have been labeled with 'end-user'. Or (Frame 2) the project aims at empowering the social profit organization that supports these target groups. These projects have been labeled 'organization'.

2.2.2 TOTAL DATA SET

Social sector	# end user	# organization	Total
child & family	4	7	11
cultural	1	1	2
elderly care	9	3	12
health care	2	2	4
housing		1	1



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mental health	2	3	5
people with disabilities	33	11	44
poverty		2	2
revalidation		5	5
special youth care	1	3	4
Youth	2		2
sheltered/social workplaces	7	1	8
Total	61	39	100

2.2.3 DETAIL : CHOSEN PROJECTS CERA AWARD 2011-2014

Sector	End user	Organization	Total
elderly care	3	3	6
mental health		1	1
people with disabilities	17	2	19
revalidation		4	4
sheltered workspaces	2		2
special youth care		1	1
cultural	1		1
child care	1	2	3
child services		1	1
health care	1	1	2
Total	25	15	40

2.2.4 DETAIL: AVAILABLE PROJECTS

Social Sector	End user	Organization	Total
child & family	1	1	2
child care	1	3	4
Cultural		1	1
elderly care	6		6



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family care	1			1
health care		1	1	2
Housing			1	1
mental health		2	2	4
people with disabilities		16	9	25
Poverty			2	2
Revalidation			1	1
sheltered workplaces		4	1	5
social workplaces	1			1
special youth care		1	2	3
Youth	2			2
Total		36	24	60

2.2.5 #PROJECTS PER SECTOR VS MAIN ENGINEERING DISCIPLINE

Social Sector/Main Engineering discipline	Architecture	Construction	Electro-mechanics	Electronics	Energy	ICT	Materials	Product Design	Textile
child & family			1			9		1	
Cultural						1		1	
elderly care					1	6		5	
health care					1	1	1	1	
Housing						1			
mental health					2	2		1	
people with disabilities	3	1	9	1		21		8	1
poverty						2			
revalidation		2				3			
special youth care						3		1	
youth	1					1			
sheltered/social workplaces			3		1	2		2	
Total	4	3	13	1	5	52	1	20	1



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2.2.6 #PROJECTS PER MAIN ENGINEERING DISCIPLINE/ END-USER OR ORGANIZATION

Main Engineering discipline	#end user	#organization	Total
Architecture	1	3	4
Construction		3	3
Electro-mechanics	13		13
Electronics	1		1
Energy		5	5
ICT	25	27	52
Materials	1		1
Product Design	19	1	20
Textile	1		1
Total	61	39	100

Detail: Chosen projects

Main Engineering discipline	#Organization	#End User	Total
Construction	3		3
Electro-mechanics		6	6
Electronics		1	1
Energy	2		2
ICT	10	10	20
Materials		1	1
Product design		7	7
Total	15	25	40

Table 1 Engineering discipline/Organization or Target Group

Detail: Available projects Main Engineering discipline vs Organization or End User

Engineering discipline	#Organization	#End Userp	Total
Architecture	3	1	4
Electromechanics		7	7
Energy	3		3
ICT	17	15	32
Product design	1	12	13
Textile		1	1



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Total	24	36	60
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3. CONCLUSIONS

3.1 HEADLINES

1. Main sector to formulate technological needs: people with disabilities
2. End-user (61/100) vs organization empowerment (39/100). The almost identical ratio appears with the chosen projects, end-user 25/40 and organization empowerment.
3. Social Profit Organizations have many ICT-requests (52/100)
4. These ICT-requests are almost equally separated between projects aiming at the end-user and projects aiming at organization support (25 vs 27). The chosen ICT-projects (20) are equally divided between end-user (10) and organization support (10).
5. Some engineering disciplines almost exclusively organization empowerment

e.g. Energy (studies, energy efficiency of buildings)

1. Some engineering disciplines almost exclusively end user

e.g. product design and electro-mechanics

3.2 RECURRING NEEDS (BELGIUM)

- ICT-tools for taking specific regulations of the sector into account e.g. tools for time schedules etc
- Software and games for specific target groups (children with disabilities, ...)
- Aids & devices for specific disabilities
- Wheelchairs and wheelchair adaptations for specific uses
- Bad state of buildings (energy-efficiency)



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