



CARWASH NEWSLETTER N.1 JANUARY 2016

CARWASH Car Workshops: A Serious Game Approach to Managing Waste Considered Hazardous

CARWASH PROJECT



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WHY IS CARWASH NECESSARY?

EU, national and regional waste policies have evolved over the last 30 years and have had an impact on all sectors of industry, especially on those that interact with waste and residues that are considered hazardous or can impact negatively environment and health, such as the car or vehicle repair and maintenance companies and workshops.

Legislation, norms and regulations in this field are changing continuously and require continuous adaptation and the car or vehicle repair and maintenance sector is one of the branches which face great difficulty to transform or adapt their activities to the current legislative, normative and regulatory developments and the adoption of good environmental practices.

WHAT WILL CARWASH DO?

CARWASH will develop an easy understandable and user-friendly serious game with its support training platform,

Which will allow all the (future) professionals of the car or vehicle repair and maintenance sector to learn in a playful way how to understand and apply the legislative, normative and regulative framework concerning management of hazardous and/or dangerous waste, and implement good environmental waste management practices.

WHY A GAME?

A (serious) game will allow learners to access anywhere & anytime the content, as it is prepared for mobile and web-access, while at the same time offering a fun way to learn, away from traditional school-benches.

WHO WILL PLAY THE GAME?

The type of players targeted are professionals from the car or vehicle repair and maintenance companies and workshops, being it owners or employees,

as well as those who will be working in the sector in the future (such as VET students).

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WHERE CAN I GET MORE INFORMATION?

If you want to know more and receive regular updates please visit our website: <http://www.carwashproject.eu/>

and also follow us in Facebook and Twitter

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TRAINING NEED ANALYSIS STUDY

CARWASH partner realised a survey among the car or vehicle repair and maintenance companies and workshops, to detect the current situation with regards to management of hazardous waste and the training needs of the staff in this respect. A total of 198 valid responses were recollectored from Spain, Bulgaria, Belgium, Italy and Hungary. The majority that participated in the survey belong to the following three groups:

1. Owner/ general manager,
2. Team leader/ workshop supervisor and
3. Mechanic/ Technical staff.

Most respondents know or have some level information on hazardous waste. Nonetheless a quarter of respondents indicate to have no knowledge on hazardous waste. These respondents produce hazardous waste in their companies and if they do not receive information is very likely they do not know how proceed for its correct management. In the same line, the majority of the surveyed companies do indicate to have a formal strategy or plan for hazardous waste management and have person formally in charge of this, but only a quarter of them have received training in hazardous waste, meaning that most of the persons formally in charge of waste management did not receive any training on the topic.

When drilling into more depth in the particular training needs with regards to topic and contents, it is clear that European, national as well as regional legislation are considered important to very important in their daily activities by the majority of the respondents. The majority considers that for EU legislation basic knowledge is sufficient, while for national and regional legislation there is an equal consideration on the need for basic and intermediate knowledge levels.

All think they need training in the topic, with increasing number of respondents indicating this need from EU level legislation to regional level legislation (56% to 67%).

For waste data recording, the respondents responded with big interest in training in all topics (63% to 69%), they consider important the type of waste and its composition, how to record data on waste in the company and documentation and reporting for their job. There is similar consideration with regards to the level of knowledge considered necessary as the survey shows equal numbers with respect to basic and intermediate level. It is clear that the topic is a common denominator across all countries and shows more coherence across topics in the case of the other sections. As such it is considered relevant to include the topics into the gaming scenario, not only because of the interest generated but also because the themes are easily incorporated into a serious game.

When looking into the technical aspects, over 90% of the survey participants consider the storage process, spilling and waste area organisation as (very) important, transport & recovery are considered (very) important by 75% and 65% respectively. There is no significant difference between the need for basic and intermediate knowledge levels for all except recovery (mainly basic knowledge needed). The storage process and spilling are where training is most needed (70%; 72%) waste area organisation is good 2nd (58%). Storage process and spilling are the highest in all sections and thus considered most relevant for game. Waste area organisation is a good option to be included in the game or in platform, if deemed possible. In turn the topics

Recovery and Transport are to be included in the additional materials.

Waste management planning is considered an important by around 37% to 40% of the respondents with slightly higher levels for formulating waste management objectives and implementation of waste management plans than for preparation of waste management plans). Similar % are shown for those that do not consider it important.

The majority thinks that for all 3 topics a basic level of knowledge is sufficient. From the survey respondents 45% to

55% (depending on the topic) indicate they require more training. This area generates less agreement among respondents, then the other topics. Across the board basic knowledge is considered sufficient, and although not the majority a relevant number of respondents do think they need training. It is proposed to include the topic a minor manner in the game and more info in additional materials (if deemed viable with regards to resources and time).

With respect to management, around 70% of the survey participants consider the 3 topics (cost recovery, efficiency & financial management; estimating costs of disposal and recovery; environmental penalties) important to very important. Clear winner is the topic on environmental penalties which considered very important by 45%. Similar % are shown for those that do not consider it important. Majority thinks that for first 2 topics (cost recovery, efficiency & financial management; estimating costs of disposal and recovery) a basic level of knowledge is sufficient (although intermediate does have 30% response average). Environmental penalties show an even distribution across basic, intermediate and advanced (slight preference for intermediate). 70% indicates they want training for environmental penalties; 54% indicates so for the other 2 topics. Environmental penalties are clearly "hot" and the consortium needs to explore with the technological partner how to include this aspect in the gaming scenario. Other topics are also very relevant and could be in game or in support materials. It is recommended to discuss among the consortium (as experts on the sector) if and how to include these aspects (taking into account technological, resource and time limitations).

For more detail on the survey and the results please download the report on our website: <http://www.carwashproject.eu/>





CARWASH PROJECT PARTNERS ASPREMETAL (SPAIN)



The Association of the Metal Enterprises of Extremadura, it was founded in 1977, created by prominent businessmen and professionals to fulfil the need to defend their common interests. Currently, the association encompasses many companies which are some of the most important in our region's industrial fabric. At present there are 727 member companies from the metal sector including the following branches of activities i.e.: Metal trade, Plumbing, heating, air conditioning, gas and energy associates; Electricians; Garage, vehicle repair shop; Processed metal workshops; Appliances trade and technical assistance. More information on the website: www.aspremetal.net

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VOKA CHAMBER OF COMERCE EAST FLANDERS (BELGIUM)



Voka Chamber of Commerce East Flanders is a not for profit, multispectral and independent organisation

representing 3 000 member companies in the province of East Flanders, Belgium. The members represent 70% of employment in the region. Its main tasks are lobbying, promoting entrepreneurship, stimulating innovation, delivering services and training on different aspects of entrepreneurship, sustainable business, human resource management, local planning, environment & energy. Voka has been involved in projects since 25 years, 15 years on an international level. The Chamber works closely together with knowledge institutes and higher education, on promoting technology transfer, stimulating innovation and entrepreneurship, mobility & upskilling competencies. More information on the website: www.voka.be

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TRAINING 2000 PSC (ITALY)



TRAINING 2000 is a VET organisation certified in the Marche Region for regional training, with experience in education and training in different sectors. At EU level, Training 2000 is involved in research and development of new methodologies in training ERASMUS+ programs. For the last 23 years, TRAINING 2000 has been involved in international projects with partners from most European countries in

which it has covered issues related to training of trainers, employed and unemployed people, disadvantaged groups, in company apprenticeship. More information on the website: www.training2000.it

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AVACA TECHNOLOGIES SA (GREECE)



Avaca Technologies is an independent Consultancy Company which provides Software Based Technology Solutions and has established a significant list of clients across many industries and market sectors like banking, insurance, marine, industrial, hospitality / tourism, not only in Greece but internationally. Currently software products of Avaca Technologies are installed in Asia, Middle East, America, Europe. Since its establishment in 2001, Avaca Technologies has concentrated on the development of innovative technological solutions and products. The result being the evolution of the Javaca Platform a software development framework based on Open Standards with unique capabilities and features and on top of that the development of a number of products and custom web based solutions for customers. More information on the website: <http://www.avaca.eu/cms>

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CARWASH PROJECT PARTNERS
CTRIA (HUNGARY)



Közép-dunántúli Regionális Innovációs Ügynökség

Central Transdanubian Regional Innovation Agency (CTRIA) is a regional-level agency, member of a nationwide network established by the decision of the government with the involvement of 6 public and semi-public partners in the region in 2005 but now it works as an independent legal entity since 2008. During the past 10 years CTRIA greatly contributed to turning Central-Transdanubian into a region of outstanding innovation activities. This strong regional, national, and international partnership and the portfolio of expertise enable the CTRIA to target different levels of the regional community and business sector. CTRIA manages several projects concerning innovation practices, innovation management, knowledge transfer, service development, and innovation trainings, which involve national and international knowledge and innovation agents. More information on the website: www.kdriu.hu

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EUROPARTNERS 2000 FOUNDATION
(BULGARIA)



The Europartners 2000 foundation is a private non-governmental organisation working in the sectors of continuing and adult education, and social insertion.

Since year 2000 the foundation had implemented successfully more than 20 international projects supported by EC programs, USAID, World Bank, CIDA, Open society foundation and Matra. Our Bulgarian partners in our work and activities, are the following institutions and organisations: Ministry of Education and Culture of R Bulgaria; Ministry of Labour and Social Policy; Employment Agency of Bulgaria Regional Inspectorates; House of Teachers; National Union of the Heads of Schools in Bulgaria; Trade Union of CITUB, Employers Associations of Bulgaria, members of the Three-partied committee for the social dialogue; Regional European Information Centres in the country; Agencies for Regional Development; Economic and Social Council of R Bulgaria. More information on website: www.europartners2000.org

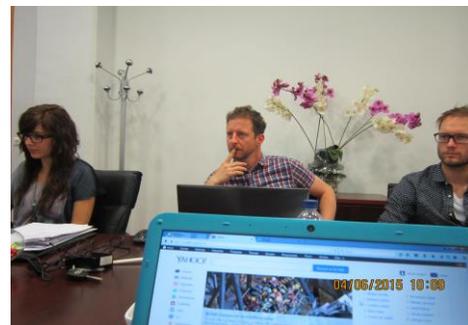
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KICK OFF MEETING

The CARWASH kick off meeting took place on June 3rd and 4th in Badajoz, Spain. The objective of the meeting was to set the scene for the project realization and define tasks and responsibilities among the partners. All partners attended the meeting.



Disclaimer note:

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