ANDAS: A Web Environment for Artistic and Cultural Data Representation

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Abstract—ANDAS is a knowledge management platform for the capitalization of knowledge and cultural assets for the artistic and cultural sectors. It was built based on the priorities expressed by the participating artists. Through mapping artistic activities and specificities, it enables to highlight various aspects of the artistic research and production. Such instrument will contribute to create networks and partnerships, as it enables to evidentiate who does what, in what field, using which methodology. The platform is accessible to network participants and to the general public.

Keywords—Cultural promotion, knowledge representation, cultural mapping, ICT.

I. INTRODUCTION

Now-a-days, there is a growing acknowledgment of the importance of culture, and of the part it can play in facing the global economic crisis [1], [2]. In 2013, the ICOM (International Council of Museums) made an appeal to the European Parliament and Commission, (The Lisbon declaration), to the governments of European countries and to Regional and Local Government to support Culture and Museums to face the global crisis and build the future, in which they stressed the fact that cultural activities and museums are unique resources for the development of economy and society, and presented three priorities to face the crisis and promote the value of museums and heritage [3].

The concerns expressed in this appeal can easily be extended to the world of culture in all its aspects as public and private financial support has drastically decreased. It has become important to give visibility and promote the artistic and cultural production, identify and access funding sources, promote cultural contamination, collaboration and networking [4]. Knowledge capitalization is a challenge, but digitization can offer an opportunity for the storage and dissemination of news, events and culture opportunities [5].

In this paper we describe a platform for artistic and cultural data representation and its experimentation in Sardinia involving SMEs (Small and Medium Enterprise) and associations. ANDAS is a web platform that addresses the problems encountered by cultural operators, through the promotion of cooperation. It offers a single environment in which culture operators, policy-makers, cultural practitioners, artists, patrons, donor, funders, art lovers and the general public can easily find geo-referenced information on the world of art and culture, in all its aspects. So far, the platform was test bedded mainly in Sardinia, but it can easily be extended to the national and European levels. The remainder of the paper is organized as follows: Section II briefly describes the concept of the project. In Section III we describe the method used to determine the platform functionalities, Section IV describes the platform features and targeted users, Section V describes the experimentation, Section VI mentions other cultural platforms and conclusions can be found in Section VII.

II. THE PROJECT

The project started a year and a half ago and is now at the monitoring phase and presentation of the experiment results. Fifty nine different cultural entities are now participating to the project. Our platform was built in collaboration with a number of representatives of the artistic industry (SMEs, associations, etc.), taking into consideration the needs and priorities expressed by the participants during brainstorming activities.

III. PARTICIPATORY PLANNING

During four brainstorming sessions involving both the ANDAS staff and the artistic partners of the project, the needs of operators, their expectations regarding the functionality of the platform were expressed, helping the technical staff to identify needs and evaluate the technical ways to fulfill these needs in the phase of construction of the platform. Such way to proceed permitted to reach consensus on the structure and functions the platform should have.

Some of the concerns expressed by artists and culture operators is that information regarding past, present and future activities, research, exhibits too often need to be duplicated, different standards are used, resulting in repetition of work, lack of semantic interoperability and reliance in different standards [6]. When it comes to finding colleagues with specific skills, they have to fall back on their personal circle of professional acquaintances, which might not be the best way to do it. Donors and investors find it difficult to have an overall view of the artistic and cultural trends, understand the needs of the cultural sector, especially with respect to which branch of culture already receives funding which does not but should. It is difficult to find out what goes on in a specific territory or in a specific artistic field. All these constraints result in wasting time and money and in lacking of new opportunities of development.
IV. THE PLATFORM

Our web platform enables registered users to insert contents and search the site. The platform collects artistic production, research, skills, market needs. The inputted information is structured by type, subject, geographical area, date, search strategies, modes of production, financial support. It is possible to link the contents according to logical criteria (people to projects, projects to location, etc.). Searches are not limited to keywords, but can be done based on a geographical localization, within a certain range. The result of the search could be a list or a geographical map, accompanied by a brief description, but if needed, the whole record can be accessed by selecting it on the list or on the map. All this favours contacts between all actors of the cultural sector.

A. Targeted Users

Three types of users are provided for: professional’s users, the general public, and project financers both public and private.

Professional users such as artists, directors, producers, museums, theaters, etc. introduce their data, artistic production, arts programming. They will be able to evidentiate their networks of partners, and use the platform as a single web tool to promote their competencies, artistic production, search for funding opportunities. The tool is useful in the case of partner research because individual artists, arts and cultural SMEs and associations, working methods, artisitcal research activities, artistic output, are mapped in the system and because it allows users to select based on their needs, the platform makes it possible to identify a prospective partner with specific characteristics. All this result in the creation of a cultural database, promote interdisciplinary production and facilitate contamination between artistic genres.

The platform gives web visibility to creators and artists, and is an economical way for young artists to promote themselves inside and beyond their geographical area. The ANDASA platform gives visibility to cultural operators and helps them promote cultural on going activities at a local, national or European levels. One of the positive outcomes will be to overcome geographical distances and time constraints for end-users.

Such characteristics are expected to have a positive effect on artists and art production, international mobility and facilitate international networking. The platform can also be used as a depository of past and future production. Keeping all the information in one single place, semantic interoperability is guaranteed, whereas duplication of work and waste of time is avoided.

The general public will use the platform as information tool to know what goes on and where, get information about one specific artist’s career, be informed on what the artistic offer is in a specific geographical area or time range. The platform is accessible through a web interface and the tool offers simple and easy-to-use access to information. This is expected to generate and stimulate cultural participation. In a digital context, national borders are no longer a limit: the platform acts as a virtual centre for culture dissemination.

Project financers such as public and private bodies willing to finance the artistic and cultural industry can use the platform as a web marketing planner, and the establishment can use it as a policy orientation tool: having an easy way to find out the financed activities, they can plan their action on the basis of previous funds granted. The tool will help them realize nation-wide or European-wide programming of cultural and artistical activities, understand the cultural market, its trends and its needs.

Our platform offers many of the characteristics that the artistic community, living in a global and digital world, requires and facilitates the development of trans-national networks, and cross-sectorial activities and collaborations [7]. We believe that the cross-cutting aspects developed by the platform will contribute to the consolidation of a European cultural identity.

V. THE EXPERIMENTATION

Before the beginning of the experimentation phase in which partners are to insert contents into the platform, a questionnaire was submitted to find out if all had the necessary basic knowledge of already existing tools, embedded in the ANDASA platform, such as the You Tube video-sharing web site, the Vimeo image and video hosting website, Pinterest or Flickr (photo sharing websites), or Eventbrite, the event management platform. The latter was known by only 23% of the respondents. Only 13% had never uploaded any kind of information (text, photographs, or videos), and 30% did not know what stands behind the concept of “embedding” and did not know how to extract the code of a file existing in one of the above mentioned platforms to place where needed. It was therefore decided to organize workshops in three different places, in order not to penalize those whose activities are not in the Regional capital of the island, in which the artistic partners of the project could have the opportunity to becoming familiar with such activities before having to do them on the platform. This two-days training period was followed by the experimentation phase of our project.

A. Questionnaire Results in a Nutshell

Twenty-five questionnaires were completed and analyzed. A number of partners started to insert their data on the platform before the formal experimentation starting date, because the credentials were sent to all ANDASA members beforehand. 80% of the responses claim to have entered information regarding the nature and characteristics of their SME / Association (see Fig. 1).

Those who did not (5 answers) gave no reason for doing so. The loading speed data on the platform is considered satisfactory by 80% of the subjects who returned the questionnaire. It is significant because the number of registered users has doubled in few months (the project was open to new culture operators, it was not restricted to those who started from the beginning). To improve the storage capacity, the server was substituted with a more powerful one.
The navigation appears easy (72%) and the vocabulary used helps the implementation of activities (76%). 44% of those who returned the questionnaire claim to have found some links that did not work properly. The continuously on going development of the platform functionalities has had an impact on its the usability. The forms to be filled were considered useful and the information to be inputted comprehensive. An interesting piece of information emerged from the questionnaire: 95% of those who returned the questionnaire felt that the platform acts as a showcase in which past activities, past cultural portfolio, and the characteristics of their work, are highlighted. This is a crucial point to keep in mind for future developments; it is a positive indicator that allows us to say that the platform is responding to the operators’ expectations (Fig. 2).

We noted a strong participation in the time span following the training period. During the period of training, many participants began to insert their data under the guidance of our technical staff. 67 entries were recorded. The form that was used most is the one regarding the description of the cultural organization. The largest number of entries occurred two months after the training period, especially for refining the inputted data with 92 accesses.

The most successful forms are those dealing with the description of the cultural entities, the description of past or closed activities, and those dealing with activities in progress. These data are interesting as they reflect the concerns expressed during the brainstorming: the desire to thoroughly describe the nature and characteristics of the cultural organizations and projects in progress too.

Indeed, describing a project in progress through a web platform visited by peers is a positive strategy to share ideas and to find out possible solutions (human and material resources, funds, stakeholders, spaces to perform…). The sites in which activities take place are greatly considered by cultural operators. There is a clear tendency to want to specify the characteristics, location, and the nature of the place in which an event, a performance or a simple cultural event is organized.

May and June are a period of intense cultural programming in Sardinia, this can explain why participant’s data input diminished around that time, as cultural operators are focused on the summer season programming (see Fig. 4).

At this point of the experimentation, the ANDASA staff can suggest cultural operators to adopt a sharing strategy that will promote possible cooperation. We want to point out that our
platform in conceived as a growing, expanding inter-cultural space for the benefit of visitors, politicians, to put in the state of cultural highlights.

VI. RELATED EXPERIENCES

There are other web platforms and websites dedicated to the world of culture, but they generally do not address all the problems. An interesting example is the “IZOLYATSIA platform for cultural initiatives” [8]. This cultural platform only deals with projects, whereas ours deals with a variety of figures: single artists, organizations, SMEs, museums, and so on. Each contributing body, registered in ANDASA can use widgets that best describe their activity.

In both ANDASA and IZOLYATSIA platforms it is possible to embed videos and photos, but in ANDASA it is also possible to embed slideshare, steramago, Instagram, etc. Both platforms make use of a merry-go-round of photographs, and have external links, but unlike ANDASA, the data in IZOLYATSIA is not geo-referenced, therefore geographical searches are impossible, only searches by key-words are possible.

Another platform experiment is the Culture-exp whose objective is to favour cross-border exchange of culture by providing an innovative, multilingual online IT platform, based on available open source social platform solutions and adapted for culture producers (artists), culture operators (museums, festivals, etc.) and other actors of the culture market. All entities related to the culture will be able to advertise, discuss and organize cultural assets and events in the Black Sea region [9].

VII. CONCLUSION

In this paper we illustrated the features of the ANDASA platform, which to our opinion, can be an asset to the cultural world. Our platform offers many of the characteristics that the artistic community living in a global and digital world requires and facilitates the development of trans-national networks, and cross-sectorial activities and collaborations. From the very beginning, the project received a high level of attention from cultural practitioners. It must be pointed out that the socio-political context in which artists from the Sardinia Region have been operating in the past years is particularly difficult. Funding fell sharply and the amount of money allocated to culture is not delivered in time. This situation does not leave time for operators to properly engage in activities that are not strictly related to search for funding and/or for the design of cultural events. Most SMEs/associations do not have more than 2 people in their staff. Being short of staff, inputting into the database is felt as a time consuming activity. In view of this real problem, and in view of the fact that at the end of the project CRS4 will no longer manage the platform, we suggest that the sector should receive an appropriate political support, financial and also regarding the management and the marketing aspects of dealing with the platform.

CRS4 is planning to further develop the ANDASA platform at European level. This will allow registered members to highlight their partnership networks in Europe, to honor the extra value of regional cultural events born in Sardinia and to export their work through digital media in order to the present the cultural content more responsive to our digital time.

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