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1. Introduction

The “**Easy to read, Easy to Access (Acceasy)**” project constitutes a European action funded under the framework of Erasmus+. It belongs to the Key Action 2 Strategic Partnerships for Adult Education “Cooperation for innovation and the exchange of good practices” and it attempts to tackle the basic EU priorities for adult education focusing on the constant improvement and extension of the provision of high-quality learning opportunities.

The project consortium consists of very experienced organizations, and it is coordinated by Fundación Aspanias Burgos (Spain) as lead partner while the rest of the partners are:

1. IMS Research & Development (Cyprus)
2. Cyprus Autism Association (Cyprus)
3. E-Code (Slovakia)
4. aCapo società cooperativa sociale integrata (Italy)
5. European Grants International Academy SRL (Italy)

The methodological approach of “Acceasy” partnership facilitates the efficient transferring of knowledge in terms of cultural heritage as well as training between different education and training fields which at the end will enrich the final program in a multi beneficial way for all the involved partners and their national contexts.

Particularly, the European project “**Acceasy**” attempts to address the needs of a very specific and at the same time vulnerable target group – that consists of *people with Intellectual Disabilities*. One of the basic project’s objectives is to understand in detail the challenges faced by people with intellectual disabilities in terms of social inclusion and being able to enjoy places of cultural heritage, while working to facilitate easy access to such places.

For a widespread impact of Acceasy outputs, awareness among the following stakeholders as well as closer cooperation between them will be fostered in the short and long run:

1. **Professionals working with people with Intellectual Disabilities**
2. **Policy makers and agencies.**
3. **Associations and entities working with people with Intellectual Disabilities**
4. **Cultural Heritage Professionals**
5. **General Public.**



1.1 The Project and its purposes

According to the United Nations Convention on the Rights of Persons with Disabilities (UN CRPD), persons with disabilities “include those who have long-term physical, mental, intellectual or sensory impairments which in interaction with various barriers may hinder their full and effective participation in society on an equal basis with others”. The Convention is intended as a human rights instrument with an explicit, social development dimension. It adopts a broad categorization of persons with disabilities and reaffirms that all persons with all types of disabilities must enjoy all human rights and fundamental freedoms. It clarifies and qualifies how all categories of rights apply to persons with disabilities and identifies areas where adaptations have to be made for persons with disabilities to effectively exercise their rights and areas where their rights have been violated, and where protection of rights must be reinforced.

Based on this perspective “Acceasy” project’s main aspiration is to create accessible places of cultural heritage and a manual for cultural heritage professionals specially designed in order to meet the needs of people with Intellectual Disabilities, which should:

6. **Foster social inclusion and access to cultural heritage.**
7. **Increase the quality of life and expand the knowledge of people with Intellectual Disabilities.**
8. **Assist professionals in cultural heritage to actively engage with people with Intellectual Disabilities.**
9. **Empower professionals in the field of Intellectual disabilities with tools and approaches on Easy-reading methodology.**



1.2 Support Manual: whom are we reaching to?



The Support Manual of “Acceasy” project is designed in order to meet the needs of professionals in the field of cultural heritage such as tour guides, museum curators, cultural heritage associations and others who are associated with the provision of systematic and integrated support of people with Intellectual Disabilities towards their participation and engagement with places of high historical and cultural value. The planned support provided by cultural heritage professionals will help the final beneficiaries to successfully participate in the realm of cultural heritage.

Particularly, the current manual is guiding cultural heritage professionals through the process of providing support for people with intellectual disabilities by showcasing the required framework and methodological structure of the process while at the same time equipping them with appropriate training material and basic knowledge about the challenges of cognitive difficulties.

It also introduces them to the concept of linguistic accessibility as well as where and how they should utilize easy to read language, by providing in detail the process of adapting and validating texts that can be presented to people with Intellectual disabilities.

In general, the present manual has been designed and developed to serve as guideline for people associated with cultural heritage and intellectual disabilities and will constitute a significant toolbox for the successful implementation of Easy-to-Read language process.



2. What are Cognitive Difficulties and Intellectual Disabilities?



mostly of concrete nouns and verbs and includes only a small set of descriptive words such as adjectives and adverbs (Yoder and Warren, 2004). Additionally, they tend to generate short, simple sentences. They may find it difficult to produce and understand passive sentences (e.g., the book was written by Danny), sentences with non-canonical word-order (e.g., out jumped the rabbit = The rabbit jumped out), conditional sentences (e.g., if it rains, I will not go for a walk), and complex sentences with relative clauses (e.g., the man [that [Danny met]] is a famous actor), or embedded clauses (e.g., Danny thought [that [tomorrow I will buy him another book]]) (Zukowski, 2004). There are also other challenges that hinder the linguistic and communicative abilities of people with Intellectual disabilities such as *pace*, *complexity*, *literacy and stigma* (Yalon-Chamovitz, 2009)

- **Rhythm:** People with intellectual disabilities show relatively slow processing and reaction time in many different tasks. Therefore, pace accommodations should be applied both to environmental design and procedures of service provision, e.g., provide instructions at a slower pace, allow more time to complete activities, etc. (Yalon-Chamovitz, 2007, 2009:396)

- **Complexity:** people with intellectual disabilities often experience difficulties in verbal communication, in wayfinding in the physical and virtual environment, in understanding and following product-operating instructions and in coping with procedures. Thus, it is recommended that the procedures and language be simplified to accommodate their needs.

– **Literacy:** Literacy is an important means for independent functioning, and for improving the quality of life of people with intellectual disability (Downing, 2005; Shengross, 2011). People with intellectual disabilities often exemplify low literacy level, and many of them experience difficulties reading simple texts (Yong et al. 2004). People with intellectual disability may also experience difficulties receiving and integrating information, organizing knowledge and planning agenda, which might increase the need to receive external support daily to perform tasks that require literacy skills.

-**Stigma:** is perhaps the predominant barrier to accessibility. Despite rights granted by legislation, in practice, people with intellectual disabilities cannot actively claim or implement their rights. They are often still treated as patients or people in need of protection and are expected to be escorted or supervised when accessing community programs and services.

3. Cognitive Accessibility for persons with Intellectual disabilities



Accessibility is the degree to which a product, device, service, or environment is available to as many people as possible. Accessibility can be viewed as the “ability to access” and benefit from some system or entity. The concept often focuses on people with disabilities or special needs (such as the Convention on the Rights of Persons with Disabilities) and their right of access, enabling the use of assistive technology. Accessibility plays an important role in social inclusion of people with disabilities of any kind, enabling them to engage and participate actively in the society.

On the other hand, **Linguistic accessibility** refers to the process of adapting written or spoken information to the needs of people with disabilities in order to make it clear, understandable and inviting for them, using diverse linguistic and sensory means such as visual, audio and tactile means of delivery. Visual means rely on sight for communication and transmission of information (e.g., accessible print and symbols). Audio means rely on hearing for communication and transmission of information (e.g., screen readers, public address systems). Tactile means rely on touch to communicate and transfer information (e.g., embossed signs, maps). The outcome of this process is accessible information adapted to the needs of the target audience. (Uzier-Karl, 2018)

Web “accessibility” means that the design and development of websites, technologies and tools ensures that people with disabilities can use them. Specifically, the expectation is that people with disabilities must be able to understand, perceive, navigate, interact with and contribute to the Web. It encompasses all disabilities that affect access to the Web such as auditory, speech, visual, cognitive, neurological and physical.

Accessible communication is the basis of Cognitive accessibility and encompasses three major notions that facilitate interaction with the environment:

4. Easy Reading/Easy speaking,
5. Wayfinding
6. Signage.

The process of making information linguistically accessible to persons with intellectual disabilities consists of three main phases:



7. 1^a Planning – a preparatory phase which includes formulating ideas, selecting the mode of information transfer (spoken or written) and the appropriate means of delivering the message to the target audience.
8. 2^a Implementation – adapting various linguistic aspects of the message to the needs of the target audience (e.g., vocabulary, sentence structure). This process is also known as easy-to-read or language simplification; Printed easy-to-read materials are marked as such with a designated symbol and caption to allow easy identification (see Figure 1)
9. 3^a Quality assurance – ensures that the simplified information suits the needs of the target population. (Uziel-Karl, 2018)



Figure 1

Easy to Read symbol

3.1 EASY TO READ/EASY TO SPEAK LANGUAGE

Easy to read language refers to the method of creating linguistically accessible texts and documents that can be easily understood by people with Intellectual disabilities and learning difficulties. Easy to read language does not use professional terms or jargon and can be supported by pictures that enhance the comprehensibility of the information to those with cognitive difficulties. It is part of a global strategy that aims to eliminate barriers to comprehension, interaction and the use of products and services in different settings, thus creating universal access to information and promoting social inclusion.

In order to create an easy-to-read document the author must adhere to a set of guidelines that encompass the easy to read methodology.

To better understand the process of developing easy to read documents, below is a list of terms that are commonly used and will help authors get familiarized with the concept and overall approach:

Adapter: A person who adapts a document to Easy Read language. Therefore, **adaptation** refers to the process of modifying an existing document to an easy-to-read document.

Author: A person who creates an easy-to-read document based on an original idea.



Paratextual compliments: The set of verbal elements (titles, glossaries, tables of contents) and iconic elements (graphs, maps) accompanying the main text of the document in order to facilitate its comprehension.

Validation phase: The evaluation of an easy-to-read document regarding the degree of its comprehension by the end – user

Dynamiser: The person conducting and managing the validation phase.

Gloss: The explanation of a word or expression of certain complexity, located close to said word or expression.

End-user: The person benefiting from easy-to-read documents.

Validator: The end-user (in our case people with Intellectual disabilities) who participates in the validation phase and possesses reading and communication skills.

Designer/Layout editor: The person who designs and lays out the easy-to-read documents with respect to the guidelines of the process.

Pictograms: A symbol that conveys meaning through its resemblance to a physical object.



3.2 Key Guidelines for adapting and creating Easy to Read text

Below is a list of the key guidelines that must be followed in order to produce easy to read text, relating to content, structure, design, pictograms and orthotypography.

Content

When preparing an easy-to-read document, the author or adapter must take into consideration the final target group and the challenges they might face. In general, the content of the documents must:

10. Present only necessary and important information.



11. Present information in a logical sequence and a continuity that makes sense.
12. Express only one main idea per sentence.
13. Use appropriate language as well as age-appropriate language.
14. Simplify complex information and try to explain it in a simple form.

Structure

When it comes to the structure of the document, the author or adapter must adapt the language to the needs of the target group regarding vocabulary and sentence structure. In general, the structure of the document should:

15. Avoid jargon, professional terms, and difficult words (instead of “litigation” use “legal action”, instead of “contemplate” use “think”)
16. Use words that are common in everyday life and are easy to understand.
17. Avoid abstract words, concepts, terms, and definitions.
18. Explain difficult words when necessary (the word “referendum” should be simplified to “asking the public to vote”)
19. Avoid using symbolic language and metaphors.
20. Avoid complex sentences and be as short as possible.
21. Avoid the use of Passive voice.
22. Be consistent with the words used throughout the text.
23. If there are many terms that are difficult to understand, the document must include a glossary or glosses.
24. Impersonal sentences should be avoided (Instead of “the form will be sent by mail” use “citizens will send the form by mail”)

Design

The design of an easy-to-read document must be adapted to the needs of the target group and must generally follow these guidelines:

25. Make sure the layout and text-flow of the document supports the content of the text
26. Use clear and easy to read fonts such as Arial. Fonts must not have serifs or unusual letter shapes.



44. Abbreviations should be avoided. (Instead of “Liberty Av.” Use “Liberty Avenue”)
45. Acronyms should be avoided. However, acronyms that are widely used and recognized can be used, but always with an explanation. (Instead of “UN” use “United Nations”)
46. Hyphenation (the process of splitting a word into parts if does not fit in one line) should be avoided.
47. Sentences should not stretch from one page to another.
48. Use “do not”, “cannot”, “should not” instead of “don’t”, “can’t”, “shouldn’t”
49. Colon (:) must be used in introducing lists that enumerate more than three elements.
50. Use digits rather than words to describe quantity (instead of “three” use “3”)

Pictograms

Pictograms (symbols that convey meaning through their resemblance to physical objects) are an essential part of easy reading and everyday life in general. Pictograms are used everywhere around us in order to convey a particular message and provide information. Pictograms can be understood by anyone regardless of the language they speak and can be more inviting compared to text. The use of pictograms must adhere to the guidelines below:

51. The pictogram must be as big as possible
52. Pictures should be placed on the left margin or in the upper part of the text
53. When pictograms are used, they must complement the text accurately
54. Images should be clear without abstractions
55. The same images shall be used to convey the same concepts
56. Colored pictograms should not be confusing
57. Do not use symbols, symbolic pictures, or abstract graphics as they can be confusing.
58. The background of the pictogram must be flat to avoid distractions.

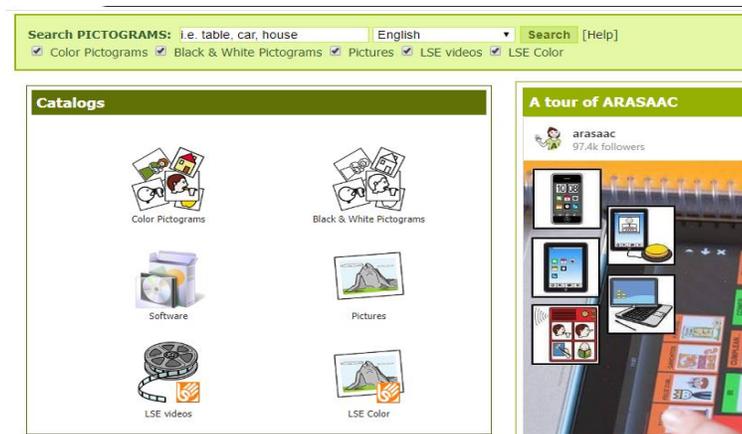
Finding Pictograms on Arasaac.com

ARASAAC offers graphic and material resources, shared with Creative Commons license (BY-NC-SA), to facilitate communication and cognitive accessibility to all people who, due to different factors (autism,

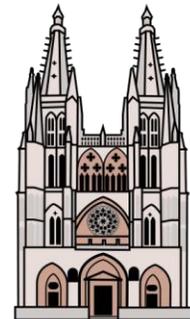


intellectual disability, lack of language, elderly people, etc.), present serious difficulties in these areas, which hinder their inclusion in any area of daily life. This project has been financed by the Department of Education, Culture and Sports of the Aragonese Government and coordinated by the General Directorate of Innovation and Vocational Training of this department.

On Arasaac.com you can find an extensive database of validated pictograms that can be used in your next easy to read document. The procedure is very simple, just type the item you would like to find on the search tab and choose the pictogram that best fit your needs. On the figure below you can see how the Arasaac website looks like.



It should be noted that Arasaac has created for this project the pictogram of the "Burgos Cathedral", one of the five monuments chosen by the Aceasy project to make it cognitively accessible. Here is the pictogram created



3.3 The process of creating and adapting easy to read documents

Adapting an existing document into easy reading

The **adaptation process** is conducted by the adaptor, the designer and layout editor. As a first step the adaptor must:

59. Compile all data of the original text to be adapted.



60. Analyze the content and structure of the document (identification of topics, vocabulary and main ideas)
61. Organize the information based on the aims of the document (length of document, end users, essential parts, degree of adaptation)
62. Prepare the adapted document with respect to the guidelines of the process.
63. Provide the text to the dynamiser for validation.

Validation of easy-to-read documents

The **validation phase** of the process is conducted by the validators (end-users) under the coordination of the dynamiser. The following tasks should be performed during this phase:

64. The dynamiser receives the draft of the document.
65. The dynamiser should Plan and organize the validation sessions. (minimum 3 validators, duration of sessions, materials)
66. The dynamiser should Lead and coordinate the validation sessions by providing information about the document, the easy reading process, explanation and duration of the activity and finally validating the document
67. The validators participate in the process by reading the document, providing feedback about the document in terms of comprehension and design, indicating words or phrases that need to be changed, indentifying missing information.
68. The dynamiser takes notes on the feedback provided by validators and forwards it to the adaptor in order to make the necessary changes

The document is validated once all validators have read the document and approved it.

Creating an easy-to-read document

The creation of an easy-to-read document is conducted by the author, design and layout editor, dynamiser, and finally, the validators. The following tasks must be performed during the creation process:



69. Planning of the creation phase with regards to the idea, the end users, the properties of the documents such as main topic, length, document type.
70. Establish the structure of the document based on content. (vocabulary, main ideas, paratextual images)
71. Prepare the document draft by following the recommended guidelines
72. Provide the dynamiser with the document draft for validation

The **validation phase** of the process is the same as above.

73. Accessibility of Spaces and the Environment

In order to accommodate the needs of people with Intellectual disabilities and achieve the goal of social inclusion, we have to make sure that the environment which they operate is cognitive accessible and facilitates orientation and interaction. Therefore, building designs needs to incorporate features that will aid orientation and wayfinding for person with Intellectual disabilities by providing assistance to both the *obtaining* and the *processing* of information.

In the following section it can find suggestions and recommendations on how to alter the design of a building or an environment in order to facilitate access for people with Intellectual disabilities.

4.1 WAYFINDING

Wayfinding refers to information systems that guide people through physical environments and improve their understanding and experience of space. It focuses on the person and, specifically, on the existing diversity of people and their capacities and physical variables, cultural, social, etc., in relation to the environment in which it operates. It is basically the process of accessing a building or a specific environment, navigating through it to a given destination and then retracing the process to leave the building/environment. To be able to successfully way-find through an environment a person needs to learn “spatial characteristics in either an on-route or distant environment using only information perceived and memorized while traveling” (Golledge 2003).

Wayfinding for a person with Intellectual disability can be a complicated and frustrating process. They may not understand that information needs to be gathered in order to navigate the building, and even if they do, they may not know where or how to find it. This can lead to high levels of anxiety and frustration which subsequently results in unwanted behavior.



1. A clear and simple signage favors the safe and autonomous circulation of all. If the message is only in text, we exclude those unable to interpret the text.
2. The text / image association is mandatory at the main points of the signage. Directional signage requires this text / image association.
3. Information marking can be limited to the image (e.g. toilets). The image can be a pictogram or a photo.
4. The pictograms must be simple and understandable, designed according to agreed criteria and known to the greatest number of people.
5. In the information panels, the indications must be located in a homogeneous way. Good signage offers greater visual comfort for everyone.
6. Signs need to be placed at an appropriate height so that they can be read and in a location that avoids glare or reflections that could confuse or distract.
7. Signs should use an appropriate typeface, have sufficiently large text and have good color contrast.
8. A color code helps to understand, to orient oneself. In this case the color code must be kept in the entire place.
9. The typography should be as simple as possible (dry stick, without edges), with upper and lower case letters and respecting the sufficient line spacing between each line.
10. Adapt the size of messages and signals to be viewed from a distance.
11. Each space is named with the help of a word associated with a pictogram that reflects the space well. For the comfort of all, it is convenient, when possible, to duplicate sound announcements in visuals and vice versa.



In the framework of the project's activities and main goals, the ACCEASY partnership has established resources that are designed to enable professionals in the field of intellectual disabilities and cultural heritage to learn more about easy reading/easy speaking methodology and familiarize themselves with the notion of cognitive accessibility and relevant modalities. As such, the partnership has created a database, a support manual for cultural heritage professionals and training activities regarding easy reading/easy speaking techniques

11. Database

The database consists of at least 400 terms and definitions related to cultural heritage elements in easy-to-read format, complete with pictograms and images. The database is open and free to access for everyone wishing to utilize the terms and definitions in their respective scope of work and are available in 5 languages (English, Italian, Slovakian, Greek and Spanish). All the entries of the database are designed by the participating organizations of the project and validated by groups of persons with intellectual disability in each country.

12. Support Manual

The support manual is aimed towards cultural heritage professionals and is designed to equip professionals with basic knowledge about cognitive disabilities, cognitive accessibility, and easy reading/easy speaking methodology. It is a useful resource aimed to assist cultural heritage professionals understand and incorporate easy reading /easy speaking techniques into their practice.

13. Training and Collaboration

Training activities are designed to help facilitate information to people with cognitive difficulties. The main focus of these activities is to train professionals to speak and write in easy-to-understand method and to make environments accessible to people with cognitive difficulties



	<h2>ΑΜΑΘΟΥΣ</h2> <p>Είναι αρχαία πόλη και βρίσκεται στη Λεμεσό.</p> <p>Είναι στο καταλογο της UNESCO ως χωρος πολιτιστικής κληρονομιας.</p> <p>Παραδειγμα: Η Αμαθουντα είναι ένας σημαντικός αρχαιολογικός χωρος.</p>
	<h2>AMATHUS</h2> <p>It is an ancient city, located in Limassol.</p> <p>It is a Unesco world heritage site.</p> <p>Example of use: Amathus is an important archaeological site.</p>

Step 4: Validation of entries

After creating the document and defining the entries, all work must be validated by the end users. Therefore, a group of five (5) people with Intellectual disabilities was formed in order to assist in the validation process. Under the direction of the dynamiser, each of the end users reads the document and provides feedback regarding the structure and vocabulary of the text. If an end user finds it difficult to comprehend the text, the dynamiser facilitates a group discussion on how to make the text more understandable by receiving suggestions from the end users. The document is validated after all end users have read it and approved its content.

In the figure below you can see in red what changes were decided by our validation group.

	<h2>ΑΜΑΘΟΥΣ</h2> <p>Είναι αρχαία πόλη και βρίσκεται στη Λεμεσό.</p> <p>Είναι στο καταλογο της UNESCO ως χωρος πολιτιστικής κληρονομιας.</p> <p>Παραδειγμα: Η Αμαθουντα είναι ένας σημαντικός αρχαιολογικός χωρος.</p>
	<h2>AMATHUS</h2> <p>It is an ancient city, located in Limassol.</p> <p>It is a Unesco world heritage site.</p> <p>Example of use: Amathus is an important archaeological site.</p>

Step 5: Finalization of entries

After the validation process has taken place, the dynamiser then forwards the document to the author citing the changes that must be made. The author then takes into consideration the suggestions of the dynamiser and end users and adjusts the text accordingly. Below you can see the validated version of the term “Amathus”.

In the figure below you can see the final validated text with all necessary adjustments.



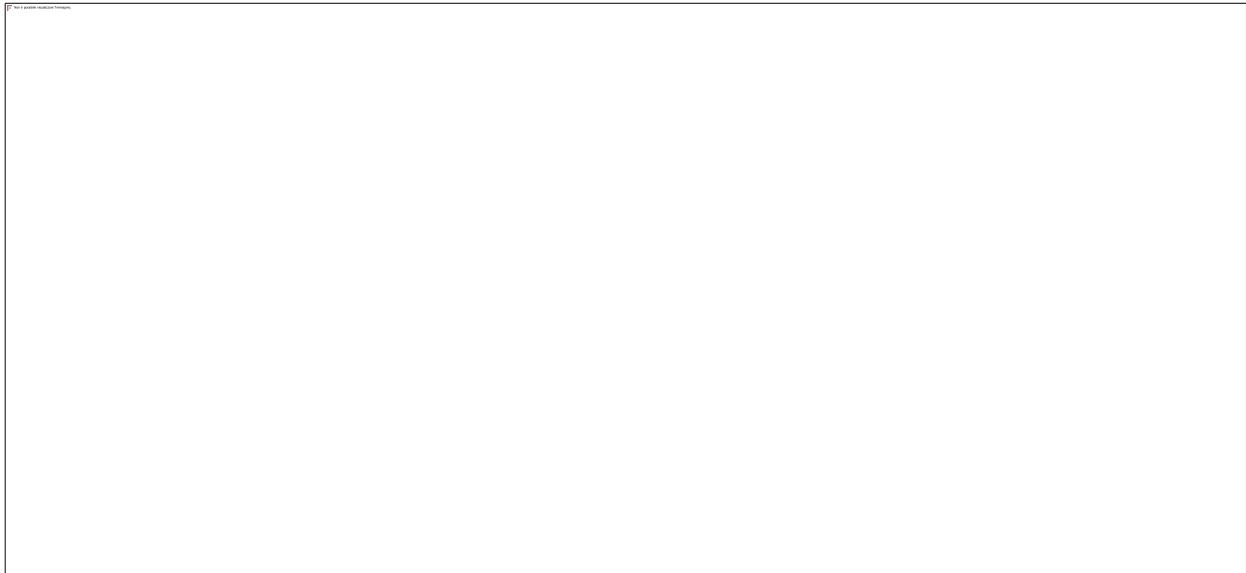
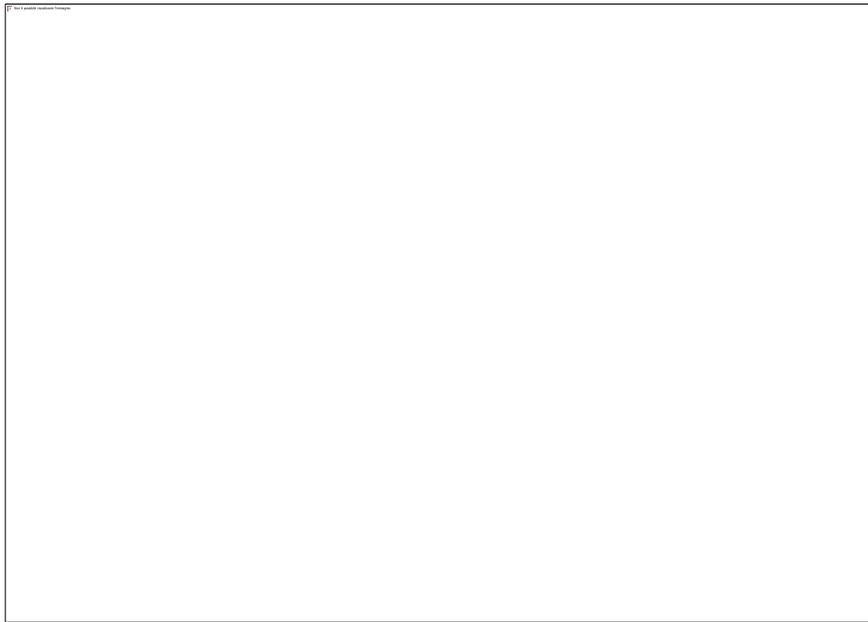
6.2 EGIInA Srl Research & Development – Giostra della Quintana, Foligno, Italy

Step 1: Location selection

According to UNESCO “cultural heritage does not end at monuments and collections of objects. It also includes traditions or living expressions inherited from our ancestors and passed on to our descendants, such as oral traditions, performing arts, social practices, rituals, festive events, knowledge and practices concerning nature and the universe or the knowledge and skills to produce traditional crafts. While fragile, intangible cultural heritage is an important factor in maintaining cultural diversity in the face of growing globalization.”

Considering the relevance of the intangible heritage, EGIInA selected “**Giostra della Quintana di Foligno**” (**Quintana Tournament**) the medieval tournament that sees neighborhoods challenging each other in a friendly jousting competition at the start of June and September.





Stained
Glass
Window

Window with coloured crystals.
It is used to illuminate the
interior and for decoration.



Altarpiece

Set of painted carved figures of wood, stone or marble representing a religious story or religious images or from the Bible.



It is usually located at the bottom of a chapel or behind the altar of a church.

Example of use: There are many altarpieces in the churches.

Retablo

Conjunto de figuras pintadas o talladas sobre madera, piedra o mármol que representan una historia religiosa e imágenes religiosas o de la biblia.



Suele estar al fondo de una capilla o detrás del altar de las iglesias.

Ejemplo de uso: En las iglesias hay muchos retablos.

15. References

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