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Project Title:

## PROtect traditional built HERITAGE Skills



### PRO-Heritage

Grant Agreement No: 785211

Collaborative Project

D1.4 First draft PRO-Heritage curriculum	
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Lead beneficiary	UBW
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Description of the related task and the deliverable in the DoA	<p>The implementation of this task includes follow steps:</p> <ul style="list-style-type: none"> <li>Analyse the training offers for energy efficiency and renewable energy for historic buildings</li> <li>Analyse the Best Practice report “Energy efficient historic buildings”</li> <li>Derive skills and competences for craftsmen working for historic buildings in order to develop a sound base for a first draft curriculum</li> </ul>		
Comments			
V	Date	Authors	Description
0.1	2019-11-19	RC	First Draft
0.2	2020-01-31	GW	Second Draft
1.0	2020-01-31	WP leader	Checked and released to the Coordinator for internal QA and subsequent submission to the EC.

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**Es konnten keine Einträge für ein Abbildungsverzeichnis gefunden werden.**

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Figure 1: Behaviour of traditional buildings

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# 1. PUBLISHABLE EXECUTIVE SUMMARY

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This document aims to show and document the first results of the training needs analysis the consortium did by analysing the major problems, damages and other issues identified for traditional buildings. For this purpose, we organised a two-day workshop to align our understanding of traditional buildings, its principles and behaviour regarding energy efficiency and life-cycle. It follows the basic principles showed in following figure 1:

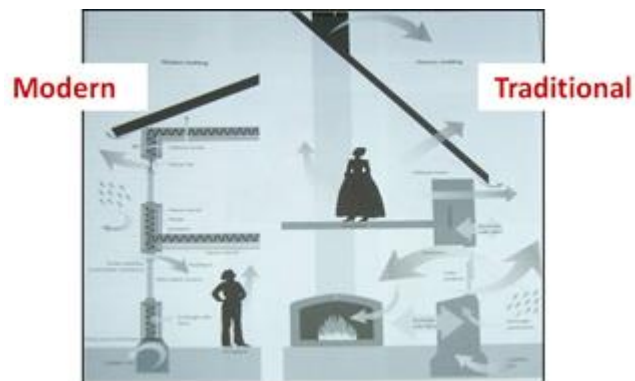


Figure 1: Behaviour of traditional buildings

## 2. CURRICULUM PRO-HERITAGE

The learning elements which forms the PRO-Heritage curriculum are developed on the base of the Workshop materials, which can be summed up with following figure, which compare performance conditions of traditional buildings:

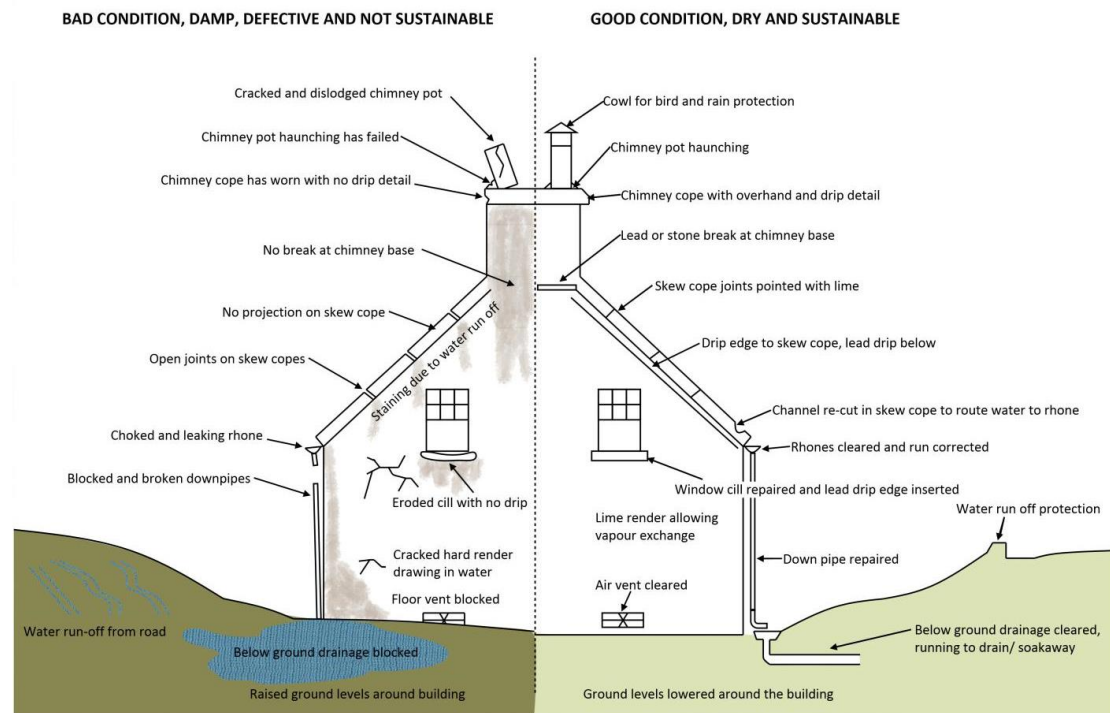


Figure 2: Performance conditions for traditional buildings

Following crafts / professions were identified and listed during the workshop:

<b>Stonemason</b>
<b>Bricklayer</b>
<b>Carpenter</b>
<b>Joiner</b>
<b>Plasterer</b>
<b>Blacksmith</b>
<b>Fabricator</b>
<b>Plumber</b>
<b>Leadworker</b>
<b>Stove Fitter</b>
<b>Electrician</b>
<b>Decorator</b>
<b>Thatcher</b>
<b>Roofer</b>
<b>General Tradesperson</b>
<b>Facilities Manager</b>

Figure 3: List of relevant trades / professions for PRO-Heritage



Based on the same event we identified the following learning elements as relevant for PRO-Heritage:

Conservation Principles
Sustainability Principles - part 1
Sustainability Principles - part 2 (Retrofit interactive tool)
Impact of poor work
Traditional materials
Working Practices
Draught Proofing (generic)
Insulation (generic)
Roof Insulation (detail)
Internal Wall Insulation (detail)
External Wall Insulation (detail)
Building Services
Secondary/ Triple Glazing
Window Repair/ Refurbishment
Wall Repairs/ Performance
Shutters/ Blinds
Appropriate Renewables

*Figure 4: List of learning elements for PRO-Heritage*

*Yellow means: no final decision*

Based on these the planned curriculum (without structuring of learning elements into learning units) is shown in the following figure:

Training	"Traditional" Trades													
	Stonemason	Bricklayer	Carpenter	Joiner	Plasterer	Blacksmith	Fabricator	Plumber	Leadworker	Stove Fitter	Electrician	Decorator	Thatcher	Roofer
Conservation Principles	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Sustainability Principles - part 1	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Sustainability Principles - part 2	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Retrofit interactive tool	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Impact of poor work	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Traditional materials	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Working Practices	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Draught Proofing (generic)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Insulation (generic)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Possibly
Roof Insulation (detail)	No	No	Possibly	No	No	No	No	Possibly	Possibly	No	No	No	Possibly	Yes
Internal Wall Insulation (detail)	No	No	Yes	Yes	Yes	No	No	No	No	No	No	No	No	No
External Wall Insulation (detail)	No	No	Yes	Yes	Yes	No	No	No	No	No	No	No	No	No
Building Services	No	No	No	No	No	No	No	Yes	No	No	Yes	No	No	No
Secondary/ Triple Glazing	No	No	Yes	Yes	No	Possibly	Possibly	No	No	No	No	No	No	No
Window Repair/ Refurbishment	No	No	Yes	Yes	No	Possibly	Possibly	No	No	No	No	No	No	No
Wall Repairs/ Performance	Yes	Yes	No	No	Yes	No	No	No	No	No	No	No	No	No
Shutters/ Blinds	No	No	Yes	Yes	No	Possibly	Possibly	No	No	No	No	No	No	No
Appropriate Renewables	No	No	Possibly	Possibly	No	No	No	Yes	Yes	Yes	Yes	No	Possibly	Yes

Figure 5: PRO-Heritage curriculum

## 3. CONCLUSIONS ()

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### 3.1 Contact to the Coordinator's Data Protect Officer

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## 4. ACRONYMS AND TERMS (ALL)

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No acronyms and terms

## 5. REFERENCES (ALL)

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No References

## 6. APPENDICES (ALL)

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No Appendices