

- Spatial Strategies for settlements and buildings
- Interfaces between planning and execution
- Optimisation of planning processes

// A Design & Planning



- A Design & Planning
- B Use of Material
- C Technology & Energy
- D Althouse Approach & Awareness
- E Education & Marketing

// Categories of Training Modules

- Use of regional materials
- Principle of simplification and reduction
- Independence from Industrial Products
- Use of Vernacular Material (Lime, Wood, Stone, Clay)
- Optimisation the interfaces between the subsystems

// B Use of Material



- Vernacular technology such as sgraffito or casement windows
- High-efficient technology used selectively
- Low-tech technology as an individual solution
- Repair and renovation as a way to know-how
- Building analysis as the basis for renovation
- Detecting and repairing of building pathologies

// C Technology & Energy



- Dissemination and promotion of Althouse ideas on local, regional and transnational level
- Consultancy for Politics and integration of local decision-makers
- Building Awareness for the connection between architecture and energy addressing the target groups building owners, craftsmen, architects, planners, and energy consultants

// D Althouse Approach & Awareness

- Orientation to process and scientific background as a basis
- Train the Trainer: teaching, public speaking and designing training modules
- The brand Althouse as an informal measure of quality
- Customer contact: high-touch rather than high-tech!
- Networking in the region

// E Education & Marketing



Althouse provides them with training modules available to date knowledge on topics such as:

- Regional architecture in the geographical, climatic and demographic context
- Practical knowledge on energy technology, materials and construction techniques
- Marketing, funding and public construction law
- Tools for decision making in politics and government
- Use of interactive maps showing the analysis of geographic data.

The comprehensive knowledge found and collected by Althouse is made available to local stakeholders by qualification modules for individual target groups. Target groups of Althouse are actors on the ground, such as: Architects and planners, Craftsmen and SMEs, Decision makers, the General Public or landlords.

// Althouse - Qualification Modules

// Althouse Alpine building culture and ecology

The Alpine Space comprises unique natural and cultural landscapes. These have produced a wide range of characteristic building types, which emerged out of a long-term adaption to climatic and geographic conditions. Today they form an important element of the attractiveness of the Alps as a space for living and recreation.

If we want to preserve and use this cultural heritage, we must bring it into alignment with the challenges and needs of today. We should try to understand the principles of traditional alpine architecture, integrate them in present-day construction, and develop them further. In this way traditional architecture can also be combined with modern technologies and requirements for energy efficiency.

Althouse aims at promoting such a farseeing approach to renovations in the Alpine Space. The project explores and collects knowledge and skills in the various regions and passes them on to craftsmen, architects, planners, and decision makers – so that they can develop individual local solutions oriented towards a common understanding of quality.

// Transnational Lead



// Project Partner

- Lehrbauhof Salzburg (AT)
- Bayerische Architektenkammer mit der Technischen Universität München (DE)
- Industrie- und Handelskammer Drôme / Neopolis, Valence (FR)
- Energieinstitut Vorarlberg (AT)
- ERSAF, Lombardei (IT)
- Regierung der Region Aostatal / Finaosta (IT)
- Regierung der Region Venetien (IT)
- Research Studio Austria Studio iSpace, Salzburg (AT)

// Althouse is funded by

- Alpenraum Programm der Europäischen Union
- Arbeitsgemeinschaft der Alpenländer
- Österreichisches Bundesministerium für Wirtschaft und Forschung
- Land Salzburg - Wirtschaftsabteilung

// Pilot Regions



Althouse

Training Modules - Education for Competitiveness



For more information visit www.alphouse.eu

Chamber of Crafts for Munich and Upper Bavaria		Energieinstitut Vorarlberg		Energieinstitut Vorarlberg	
1.1 Train the Trainer		2.2.1 Optimization of Windows 1		2.5 Althouse input for conference	
The module aims at supporting trainers on the job and beginners in training to build general capacity in training/teaching. Additionally it gets them into contact with the approach of AlpHouse.		2.2.2 Optimization of Windows 2		The aim of the module is to inform the public about the results of our analysis.	
Download	http://www.alphouse.eu/medien/medienpool/QM-1-12.pdf	Download	http://www.alphouse.eu/medien/medienpool/QM-2-2-1.pdf	Download	http://www.alphouse.eu/medien/medienpool/QM-2-5.pdf
Target Group	Trainers	Target Group	Craftsman and SMEs	Target Group	General Public
Category	E	Category	C	Category	C
Energieinstitut Vorarlberg		Energieinstitut Vorarlberg		Energieinstitut Vorarlberg	
2.1 Renovation Strategy		2.3 Change of views - Design vs. Energy Efficiency		2.4 On site exchange	
part of „Praxiskurs für energieeffiziente Bauten“		The aim of the workshop is to discuss the results of the analysis with the administration and the advisory board		The aim of the workshop is to discuss the renovation on the site.	
The aim of the workshop is to learn a right evaluation of existing buildings and specifics of renovating protected ancient buildings.		Download	http://www.alphouse.eu/medien/medienpool/QM-2-3.pdf	Download	http://www.alphouse.eu/medien/medienpool/QM-2-4.pdf
Download	http://www.alphouse.eu/medien/medienpool/QM-2-1.pdf	Target Group	Architects and Planers	Target Group	Craftsman and SMEs
Target Group	Architects and Planers	Categorie	A	Category	C
Category	A	Research Studios Austria Forschungsgesellschaft mbH – Studio iSPACE		Research Studios Austria Forschungsgesellschaft mbH – Studio iSPACE	
BauAkademie Lehrbauhof Salzburg		BauAkademie Lehrbauhof Salzburg		BauAkademie Lehrbauhof Salzburg	
4.1 Topics of Concrete Structures		3.1 Innovative tools for regional planning and energy consultancy		4.3 Energy Consulting and sustainability	
Target Group	Architects and Planners, Craftsman and SMEs, Building Owners	The aim of the module is to demonstrate and discuss GIS methods in the context of refurbishment and energy efficiency planning and monitoring.		The course is intended to provide the necessary knowledge and skills needed to work as an energy consultant, as well as important aspects of local treats. The course covers the complete energy consultant training course.	
Category	1-4 C, 5-6 BC	Download	http://www.alphouse.eu/medien/medienpool/QM-3-1.pdf	Download	http://www.alphouse.eu/medien/medienpool/QM-4-3.pdf
Modul 1 The AlpHouse philosophy and building physics fundamentals		Target Group	Decision Maker	Target Group	Architects and Planers, Craftsman and SMEs
In this module the basic considerations of the AlpHouse philosophy are presented. It also explains the physical building bases and discusses the issues involved.		Category	D	Category	C
Download	http://www.alphouse.eu/medien/medienpool/QM-4-1-1.pdf	BauAkademie Lehrbauhof Salzburg		BauAkademie Lehrbauhof Salzburg	
Modul 2 Structural analysis, renovation concepts and old materials		4.2 Topics of Wood Structures		4.2 Topics of Wood Structures	
In this module the basic approaches when renovating an old building are taught. Materials both old and new are considered, in addition to the assessment of damages and energy inefficiencies, and their elimination as part of the renovation process.		Target Groups	Architects and Planners, Craftsman and SMEs, Building Owners	Target Groups	Architects and Planners, Craftsman and SMEs, Building Owners
Download	http://www.alphouse.eu/medien/medienpool/QM-4-1-2.pdf	Category	C	Category	C
Modul 3 Moisture in the building and drainage procedures		Modul 1 The AlpHouse philosophy and constructions		Modul 1 The AlpHouse philosophy and constructions	
In this module the basic knowledge of the causes of damage by moisture are treated. Wall drainage procedures and principles of the ÖNORM B 3355 / Part 1-3 are presented.		In this module the basic considerations of AlpHouse philosophy are presented. Besides the basic physical building relationships, the structures and the associated potential problems are discussed.		In this module the basic considerations of AlpHouse philosophy are presented. Besides the basic physical building relationships, the structures and the associated potential problems are discussed.	
Download	http://www.alphouse.eu/medien/medienpool/QM-4-1-3.pdf	Download	http://www.alphouse.eu/medien/medienpool/QM-4-2-1.pdf	Download	http://www.alphouse.eu/medien/medienpool/QM-4-2-1.pdf
Modul 4 Old masonry and thermal insulation		Modul 2 Roof - Construction and insulation		Modul 2 Roof - Construction and insulation	
This module provides specific consideration of the masonry with a renovation of an old building. Apart from the different building materials and the potential damage and their energy inefficiency are regarded. Developing a recovery plan will specifically addresses the question of insulation, the problem of economy and funding.		In this module, the approach and the problems in the renovation of an old building roof structures are taught. Developing a renovation plan will specifically addresses the question of insulation, the problem points, the costs and possible funding.		In this module, the approach and the problems in the renovation of an old building roof structures are taught. Developing a renovation plan will specifically addresses the question of insulation, the problem points, the costs and possible funding.	
Download	http://www.alphouse.eu/medien/medienpool/QM-4-1-4.pdf	Download	http://www.alphouse.eu/medien/medienpool/QM-4-2-2.pdf	Download	http://www.alphouse.eu/medien/medienpool/QM-4-2-2.pdf
Modul 5 Plaster and historical plastering techniques		Modul 3 Facades - windows - doors		Modul 3 Facades - windows - doors	
The aim of this module is to give an overview of these different applications and processing capabilities of pit lime. In addition to developing the theoretical foundations of the application techniques are also practiced in practice.		In this module the approach and the problems in the renovation of facades, windows and doors of an old building will be taught. Developing a renovation plan will specifically addresses the question of insulation, the problem points cost and possible funding.		In this module the approach and the problems in the renovation of facades, windows and doors of an old building will be taught. Developing a renovation plan will specifically addresses the question of insulation, the problem points cost and possible funding.	
Download	http://www.alphouse.eu/medien/medienpool/QM-4-1-5.pdf	Download	http://www.alphouse.eu/medien/medienpool/QM-4-2-3.pdf	Download	http://www.alphouse.eu/medien/medienpool/QM-4-2-3.pdf
Modul 6 Historic colors in the old building in theory and practice		BauAkademie Lehrbauhof Salzburg		BauAkademie Lehrbauhof Salzburg	
In this module basic knowledge about techniques of wall and ceiling paintings are taught, as well as information on various historical formulations (eg lime-casein, tempera) was added. In addition to the responsible use of architectural paints in the tradition, practical application methods are presented.		4.4 Repair of historic architectural surfaces		4.4 Repair of historic architectural surfaces	
Download	http://www.alphouse.eu/medien/medienpool/QM-4-1-6.pdf	This seminar event will be the restoration workshop held of the Federal Monuments Office in the Charterhouse Mauerbach. The most important historical architectural surfaces are presented and carried out with practical restoration measures.		This seminar event will be the restoration workshop held of the Federal Monuments Office in the Charterhouse Mauerbach. The most important historical architectural surfaces are presented and carried out with practical restoration measures.	
Bayerische Architektenkammer / Technische Universität München / Energieinstitut Vorarlberg		Download	http://www.alphouse.eu/medien/medienpool/QM-4-4.pdf	Download	http://www.alphouse.eu/medien/medienpool/QM-4-4.pdf
5.2 Renovation Strategies and Energy Calculation Tools		Target Group	Architects and Planers, Craftsman and SMEs	Target Group	Architects and Planers, Craftsman and SMEs
Insight into state of the art of renovation strategies and common energy calculation tools. Case-study related evaluation of the demands and offers from calculation tools in the various stages of planning and executing a project.		Category	C	Category	C
Download	http://www.alphouse.eu/medien/medienpool/QM-5-2.pdf	Bayerische Architektenkammer / Technische Universität München / Handwerkskammer für München und Oberbayern		Bayerische Architektenkammer / Technische Universität München / Handwerkskammer für München und Oberbayern	
Target Group	Architects and Planers	5.3 Lime Workshop		5.3 Lime Workshop	
Category	ACD	A basic understanding of materiality (cultural background, building materials, practice) is important for the approach and handling of a construction projects, especially in the field of traditional buildings.		A basic understanding of materiality (cultural background, building materials, practice) is important for the approach and handling of a construction projects, especially in the field of traditional buildings.	
Autonomous Region of Aosta Valley / COA energia Finaosta		Download	http://www.alphouse.eu/medien/medienpool/QM-5-3.pdf	Download	http://www.alphouse.eu/medien/medienpool/QM-5-3.pdf
6.1 Vernacular Intelligence in Detail for Craftsmen		Target Group	Architects and Planers, Craftsman and SMEs, Building Owners	Target Group	Architects and Planers, Craftsman and SMEs, Building Owners
The aim of the Qualification module is to influence the way of working in the building renewal starting from their experience and solving the energy problems and issues that they meet on the construction sites.		Category	ABE	Category	ABE
Download	http://www.alphouse.eu/medien/medienpool/QM-6-1.pdf	Veneto Region		Veneto Region	
Target Group	Architects and Planers, Craftsman and SMEs, Building Owners	7.2 Sustainability of mountain settlements: What rules for building in the mountains?		7.2 Sustainability of mountain settlements: What rules for building in the mountains?	
Category	BC	The aim of the conference aims to inform Decision Makers about the current status and development opportunities of Alpine Architecture and Traditional settlements in the region both considering urban, architectural and social characteristics of the settlement as well as sustainable energy patterns of production and consumption.		The aim of the conference aims to inform Decision Makers about the current status and development opportunities of Alpine Architecture and Traditional settlements in the region both considering urban, architectural and social characteristics of the settlement as well as sustainable energy patterns of production and consumption.	
Autonomous Region of Aosta Valley / COA energia Finaosta		Download	http://www.alphouse.eu/medien/medienpool/QM-7-2.pdf	Download	http://www.alphouse.eu/medien/medienpool/QM-7-2.pdf
6.2 Training for technical office - Energy renovation of building envelope		Target Group	Decision Maker	Target Group	Decision Maker
The aim of the workshop is to sensitize the decision makers and their technicians in the AlpHouse approach and philosophy and to increase the knowledge needed to evaluate the possibility of energy renovation of existing buildings, with particular reference to the rate of return of investments and incentives available at regional and at national level.		Category	D	Category	D
Download	http://www.alphouse.eu/medien/medienpool/QM-6-2.pdf	NEOPOLIS – Chamber of Commerce and Industry of Drôme		NEOPOLIS – Chamber of Commerce and Industry of Drôme	
Target Group	Decision Maker	8.2 Energy efficient retrofitting of vernacular buildings		8.2 Energy efficient retrofitting of vernacular buildings	
Category	D	The aim of the Qualification module is to be able to select the materials and technics adapted in the renovation of vernacular buildings, to understand the thermal and hygrometric principles involved in vernacular buildings		The aim of the Qualification module is to be able to select the materials and technics adapted in the renovation of vernacular buildings, to understand the thermal and hygrometric principles involved in vernacular buildings	
NEOPOLIS – Chamber of Commerce and Industry of Drôme		Download	http://www.alphouse.eu/medien/medienpool/QM-8-2.pdf	Download	http://www.alphouse.eu/medien/medienpool/QM-8-2.pdf
8.1 Examples and strategies of energy efficient retrofitting		Target Group	Architects and Planers, Craftsman and SMEs	Target Group	Architects and Planers, Craftsman and SMEs
The aim of the Qualification module is to support and supervise the different phases of the retrofitting of vernacular buildings in communes and intercommunalities: administrative, financial and technical aspects		Category	BCD	Category	BCD
Download	http://www.alphouse.eu/medien/medienpool/QM-8-1.pdf	Energieinstitut Vorarlberg		Energieinstitut Vorarlberg	
Target Group	Decision Maker	9.1 Best practices in the Alpine Building Renovation - Traditional buildings renovation and energy efficiency		9.1 Best practices in the Alpine Building Renovation - Traditional buildings renovation and energy efficiency	
Category	CD	The aim of the Qualification module is to foster a discussion about the possibility to provide architects and planners working with the old and traditional buildings renovation hints and suggestions in order to combine a renovation respectful of the building features and reaching at the same time a decent level of energy efficiency.		The aim of the Qualification module is to foster a discussion about the possibility to provide architects and planners working with the old and traditional buildings renovation hints and suggestions in order to combine a renovation respectful of the building features and reaching at the same time a decent level of energy efficiency.	
ERSAF		Download	http://www.alphouse.eu/medien/medienpool/QM-9-1.pdf	Download	http://www.alphouse.eu/medien/medienpool/QM-9-1.pdf
9.2 Efficiency and energy certification in traditional buildings. The Municipality’s role		Target Groups	Architects and Planers	Target Groups	Architects and Planers
The course is addressed to the municipal technical offices in order to give them suggestions and help as entities in charge to manage the administrative procedures concerning in particular energy aspects of the buildings renovation and as owners and managers, in many cases, of a building stock usually very consumptive and often traditional.		Category	A	Category	A
Download	http://www.alphouse.eu/medien/medienpool/QM-9-2.pdf	ERSAF		ERSAF	
Target Group	Architects and Planers, Technical offices	9.2 Efficiency and energy certification in traditional buildings. The Municipality’s role		9.2 Efficiency and energy certification in traditional buildings. The Municipality’s role	
Category	D	The course is addressed to the municipal technical offices in order to give them suggestions and help as entities in charge to manage the administrative procedures concerning in particular energy aspects of the buildings renovation and as owners and managers, in many cases, of a building stock usually very consumptive and often traditional.		The course is addressed to the municipal technical offices in order to give them suggestions and help as entities in charge to manage the administrative procedures concerning in particular energy aspects of the buildings renovation and as owners and managers, in many cases, of a building stock usually very consumptive and often traditional.	
Bayerische Architektenkammer / Technische Universität München / Energieinstitut Vorarlberg		Download	http://www.alphouse.eu/medien/medienpool/QM-9-2.pdf	Download	http://www.alphouse.eu/medien/medienpool/QM-9-2.pdf
9.2 Efficiency and energy certification in traditional buildings. The Municipality’s role		Target Group	Architects and Planers, Technical offices	Target Group	Architects and Planers, Technical offices
The course is addressed to the municipal technical offices in order to give them suggestions and help as entities in charge to manage the administrative procedures concerning in particular energy aspects of the buildings renovation and as owners and managers, in many cases, of a building stock usually very consumptive and often traditional.		Category	D	Category	D
Download	http://www.alphouse.eu/medien/medienpool/QM-9-2.pdf	Research Studios Austria Forschungsgesellschaft mbH, Studio iSPACE		Research Studios Austria Forschungsgesellschaft mbH, Studio iSPACE	
Target Group	Architects and Planers, Technical offices	Schillerstraße 25, A-5020 Salzburg, Austria		Schillerstraße 25, A-5020 Salzburg, Austria	
Category	D	+43 (0)662 90 85 85-213		+43 (0)662 90 85 85-213	
BauAkademie Lehrbauhof Salzburg		thomas.prinz@researchstudio.at		thomas.prinz@researchstudio.at	
4.3 Energy Consulting and sustainability		ispace.researchstudio.at		ispace.researchstudio.at	
The course is intended to provide the necessary knowledge and skills needed to work as an energy consultant, as well as important aspects of local treats. The course covers the complete energy consultant training course.		Imprint		Imprint	
Download	http://www.alphouse.eu/medien/medienpool/QM-4-3.pdf	Editing		Editing	
Target Group	Architects and Planers, Craftsman and SMEs	Wolfgang Konrad, BauAkademie Lehrbauhof Salzburg		Wolfgang Konrad, BauAkademie Lehrbauhof Salzburg	
Category	C	Martin Frank, Handwerkskammer für München und Oberbayern		Martin Frank, Handwerkskammer für München und Oberbayern	
BauAkademie Lehrbauhof Salzburg		Design Pictures / Graphics copyright		Design Pictures / Graphics copyright	
4.3 Energy Consulting and sustainability		AlpHouse Project Partners		AlpHouse Project Partners	
The course is intended to provide the necessary knowledge and skills needed to work as an energy consultant, as well as important aspects of local treats. The course covers the complete energy consultant training course.		© 2012 by AlpHouse Project Partners		© 2012 by AlpHouse Project Partners	
Download	http://www.alphouse.eu/medien/medienpool/QM-4-3.pdf	AlpHouse is a project of the European Union (EU) in cooperation with the Working Group of Alpine Countries (Arge Alp)		AlpHouse is a project of the European Union (EU) in cooperation with the Working Group of Alpine Countries (Arge Alp)	
Target Group	Architects and Planers, Craftsman and SMEs	The programme is co-funded by the European Regional Development Fund		The programme is co-funded by the European Regional Development Fund	
Category	C	Leadpartner		Leadpartner	
BauAkademie Lehrbauhof Salzburg		Chamber of Trade and Crafts for Munich and Upper Bavaria		Chamber of Trade and Crafts for Munich and Upper Bavaria	
4.3 Energy Consulting and sustainability		Chamber of Trade and Crafts for Munich and Upper Bavaria		Chamber of Trade and Crafts for Munich and Upper Bavaria	
The course is intended to provide the necessary knowledge and skills needed to work as an energy consultant, as well as important aspects of local treats. The course covers the complete energy consultant training course.		Chamber of Trade and Crafts for Munich and Upper Bavaria		Chamber of Trade and Crafts for Munich and Upper Bavaria	
Download	http://www.alphouse.eu/medien/medienpool/QM-4-3.pdf	Chamber of Trade and Crafts for Munich and Upper Bavaria		Chamber of Trade and Crafts for Munich and Upper Bavaria	
Target Group	Architects and Planers, Craftsman and SMEs	Chamber of Trade and Crafts for Munich and Upper Bavaria		Chamber of Trade and Crafts for Munich and Upper Bavaria	
Category	C	Chamber of Trade and Crafts for Munich and Upper Bavaria		Chamber of Trade and Crafts for Munich and Upper Bavaria	