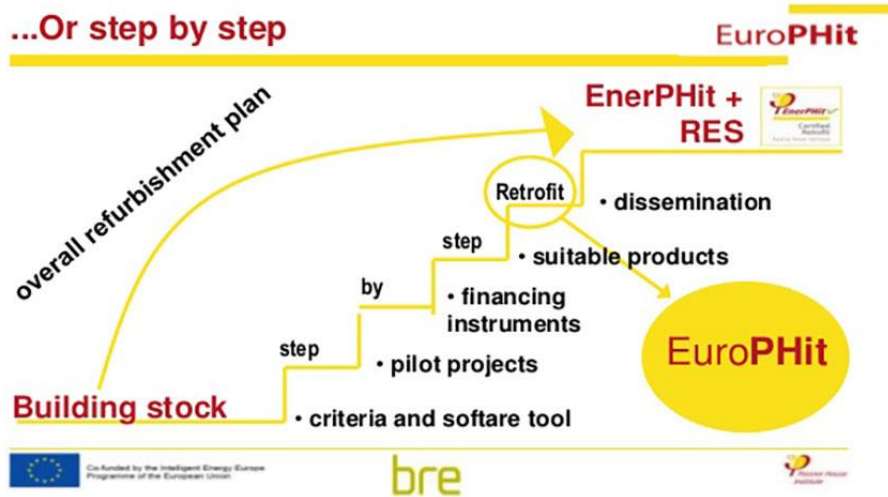


ENERPHIT		GERMANY (SWEDEN, DENMARK, FRANCE, SPAIN, ITALY)		ACTIVE
BUSINESS MODEL CATEGORY		One Stop Shop Model – Step-by-Step approach		
TARGET BUILDINGS RENOVATION		Single-family homes, multi-family houses, commercial building		
DESCRIPTION		<p>The EuroPHit project developed a methodology for the step-by-step business model, based on retrofitting of existing building facilities with passive house components supported by an initial planning of the activities. Within EuroPHit, a certification scheme for step-by-step retrofit with Passive House components was established. The focus of the scheme was on the creation of an EnerPHit Retrofit Plan (ERP) for all energy refurbishment measures, to be implemented independently over a given period of time. Only through this approach can a satisfying result be achieved for stepwise retrofit projects.</p> <p>If energy retrofits are carried out in several individual consecutive steps, then pre-certification of the building as a Passive House or EnerPHit project is possible. Unlike for certifications of completed buildings, the preparation of a comprehensive EnerPHit Retrofit Plan (ERP) is a prerequisite for this in order to verify the possibility to achieve EnerPHit Standard at the completion. The pre-certificate provides building owners and planners with the security that the standard being aimed for will actually be achieved after completing all steps.</p> <p>The EnerPHit Retrofit Plan (ERP) is a document for building owners, including well-thought-out overall concept for stepwise retrofits and taking into account important interrelations between different energy saving measures permitting to obtain an optimal final result with manageable effort. The ERP can be submitted to a Passive House certifier, who will check the coherence of the described step-by-step process and the fulfilment of the criteria. This gives the building owner the guarantee that the EnerPHit Standard will be met if all steps are carried out as described. The ERP can be certified after the first step has been completed and verified by the certifier. In the subsequent years, the client confirms all other steps with the certifier. Changes to the original concept are possible if the requirements can still be met. This should be clarified with the certifier.</p> <p>The EuroPHit project completed a total of 6 case study projects. Building types and retrofits measures range from single-family homes to multi-family houses (residential social high-rise buildings) in different EU countries (Sweden, Denmark, Germany, France, Spain, Italy) and a commercial building. Other case study project, still on-going have been started for the step-by-step renovation of public buildings, in particular school buildings.</p>		
SERVICE PROVIDER		Passive house certifier (designer)		
KEY PARTNERS IN THE SUPPLY CHAIN		Contractors and installers, potentially Project Manager		
COST AND REVENUES		The building owner initially invests on the design phase, involving a designer for the planning of the whole retrofitting, while other costs are spread over a longer period of time. The revenues comes from the contractors (for the designers).		
CONTACTS		Website: https://europhit.eu/content/enerphit Email: info@passivehouse-international.org		





SWOT Analysis

<p>S</p> <ul style="list-style-type: none"> • Quality assured passive house concept over 20 years • The certification includes basic and advanced energy criteria to be met. • Accurate calculations in passive programs, PHPP • High demands on energy efficiency • Costs spread over a long period of time 	<p>W</p> <ul style="list-style-type: none"> • Increased cost due to certified experts accredited by the Passive House Institute (PHI) are required • Lack of knowledge among designers/planners for the use of software • Complex evaluation methodology requiring high level of expertise
<p>O</p> <ul style="list-style-type: none"> • A well-known and consistent international system could attract future potential buyers of the building • Various opportunities to certify existing buildings • A step-by-step plan of renovation, indicating measures to be implemented over time could permit to overcome customers reticence to face huge investments 	<p>T</p> <ul style="list-style-type: none"> • Difficulty to attract customers interest with a building certification approach • Difficulty to transfer certification into real market value on the housing market

