

Hungarian Roadmap

The Hungarian building sector

At least 70% of the 4,2 million buildings in Hungary do not meet the technical requirements of modern heating - therefore they need renovation. Approximately 10% of the buildings are outdated to such an extent that they need to be rebuilt. This situation is improving thanks to the implementation of residental energy efficiency programs over the past few years.

Energy status and characteristics of the Hungarian buildings

In residental energy consumption Hungary is in the top ten compared to the 27 countries of the EU. Therefore renovation and modernization of Hungarian buildings has a particularly significant potential in the field of energy. Households are the largest users of fuel and heat energy, responsible for 39%. The most used heat transfer in Hungarian households is natural gas, followed by wood and district heating .

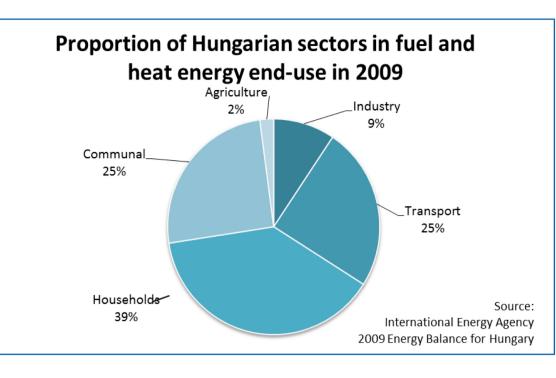
The structure of the construction industry

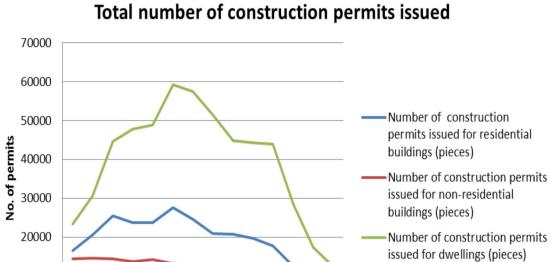
In the period of 2007-2009 building construction fell on average 10%, and though public works were also more dynamic over the past two years, the weight of the two main groups in the building industry almost evened out by 2009.

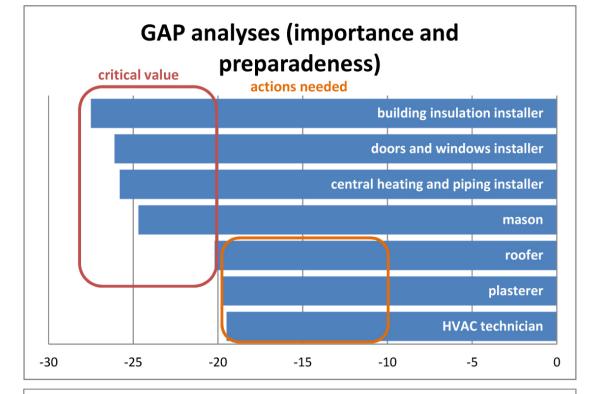
Housing construction

The Construction industry, which has a decisive role in the national economy, performs worse year by year - it is in a deepening crisis. Currently there are about ten thousand unsold new buildings. investment is modest. Lack of information is one of the characteristics of the sector; the significantly diminished market should be informed about the benefits of better quality and better achievements of energy levels.

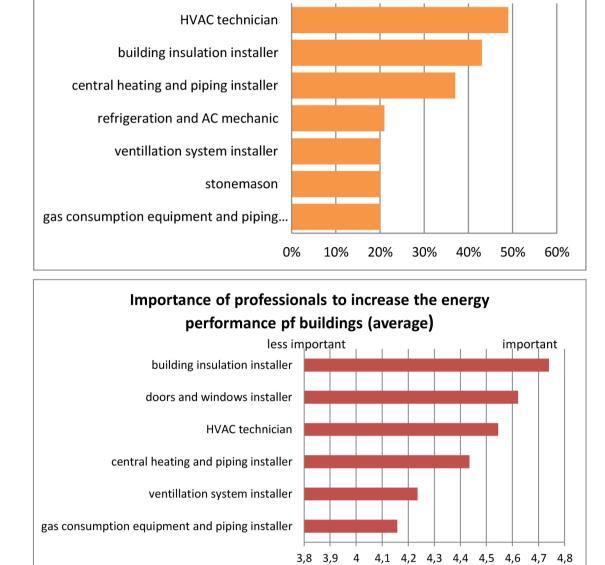
Independent research and financial institutions forecast stagnation of the bu-ilding industry in 2012, positive changes only could be started from 2013, 2014.







Need to train more professional (%)



Results of questionnaire on GAP analyses

Two questionnaires (one for the building industry one for the training companies) have been prepared to establish how the building economy's[1] needs and expectations concerning the qualification of professionals match the course offering of training institutions. All together 247 responses were received and analyzed.

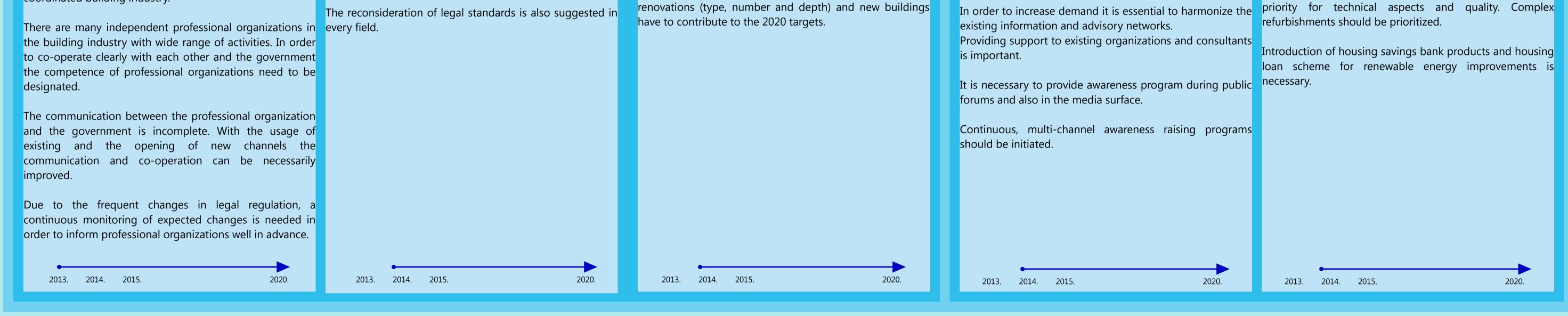
The point of a gap analysis is to express satisfaction with the competence of the representatives of a certain profession relative to the importance of the profession concerned. A negative gap value indicates that representatives of a given profession perform worse than expected. Vocations with an absolute value between 10 and 20 require more attention, and absolute values above 20 imply serious criticism. Vocations with critical values has to be addressed in Pillar II.

10000 Source:Hungarian Central Statistical Office National economy weight of Hungarian building industry based on gross value added, 2009 67% Source: Minisrty of National Development and Economy, 2010

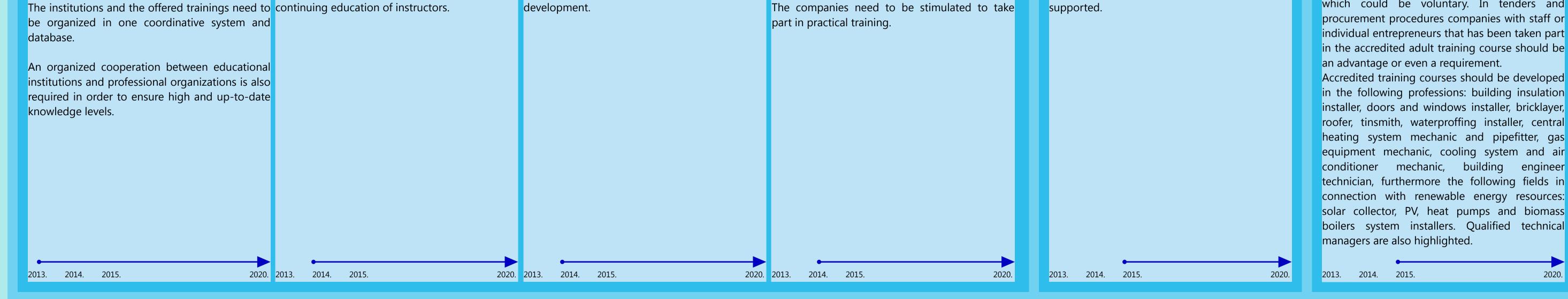
Roadmap

The Roadmap and the objectives and provisions of the Action plan conceived on the basis of 218 surveys and 30 interviews conducted with building industry and training/education experts. The members of BUS Hungary consortium discussed it widely also on three platform meetings. The final version was approved in agreement with the stakeholders and platform members. The Roadmap covers not only the supply (education) side but also pays attention to the demand (building industry) needs; therefore the measures are grouped into two major groups.

Measures for Building Industry				
Regulation of Building Industry Building energetics can be the breaking point of building industry in the current economic circumstances. It can contribute to the national 2020 building targets with minimum costs and maximum social benefits. Important to highlight, that heating energy has high energy efficiency saving potential.			Awareness program, creation and stimulation of demand in the building industry The result of general decline in the building industry is the dramatic reduction of construction and renovation orders. The building energy retrofits and sustainable building solutions can mean the breaking point. Currently, the biggest barrier is the wrong attitude of the clients and the limited resources for tenders.	
Unified coordination and cooperation in the building industry Governance of building industry and other related areas are		Building energy regulation Up-dated and higher values should be aimed at building energy regulation. The legal definition and application of	Most of the clients unfortunately are not aware of the	Tender system Increase the number of orders with subsidy opportunities and with the support of financial products.
currently fall under different ministries. It is necessary to create an institutional framework for the uniformly coordinated building industry.		NZEB is required in connection with new buildings. There is a need to define to what extent building	importance of building energy retrofit and renewable energy sources, accordingly there is no market demand.	The tenders should be simple, transparent and continuous. It is essential to transform the criteria and give highe



Measures for education The following provisions for education refer to adult training offered in and outside the school system and also for the Hungarian VET and accredited adult education system. Suggested trainings Provisions for training stimulation Supporting measures for trainings Tasks for pillar II. In each vocation and related field which Educational system Training of trainers Development of curriculum Development of technology Stimulating support contributes to achieve the 2020 climate and energy policy targets in Hungary; accredited The quality and availability of the courses in Instructor training and their in-service training As the curriculum is dated in the vocational and To ensure qualitative practical training the The companies have no or little fund for the adult training needs to be developed, because vocational and adult education institutions are are central to the entire process. The appeal of adult education the importance and method of cooperation between training institutions and employee's continuous education. The adult this system can be flexible enough to ensure that the teaching profession and career must be energy saving is currently not educated. There is companies is essential in the related fields. education has high cost and return of the not equal in the country. the existing workforce is continuously being created and restored. Introduction of credit point a high need for regularly updated curriculums Training institutions should be aided in investment is uncertain. The training time also trained. It should be further examined which There is a need for uniform training syllabus, system (which already exist in the school system with fundamentals and an e-based system for purchasing modern equipment. cause outage in the working hours. During the professions need to be mandatory based and employee's training the companies should be curriculum and training conditions. based vocational training) is recommended in the technologies that are subject to rapid which could be voluntary. In tenders and







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