

The IT-BSE project comes at a particularly opportune moment for the French partnership.

The commitments made by France in the 2020 European strategy put the construction industry in a key position. The transition to a green economy requires such a number of challenges in terms of energy management that require significant changes in professional practices. Local public educational institutions that train future technicians, implement frameworks which are periodically reviewed in consultation with the professional branches. Internships abroad for professional students are planned as a possibility in these frameworks.

The IT-BSE project allowed the French partnership to discover and explore many working objects and to consider new perspectives.

Major benefits drawn from the experience

↪ **The discovery of a new object of knowledge : engineering for energy efficiency.**

It is a cross discipline that has recently structured for engineers and technicians training levels. However, the need for a systemic approach to achieve an energy performance was not effectively addressed so far in IV-level trainings.

Thus, our best knowledge of issues relating to the energy efficiency of buildings leads to new pedagogical approaches with our learners.

↪ **The appropriation of a generic tool for identifying skills : the BSE matrix**

The process of developing the BSE skills matrix has greatly contributed to our understanding of the extent of the field of activities that cover the field of engineering for the energy efficiency of buildings. The gradual writing of the BSE skills matrix results of a consensus between the partners of the IT-BSE project.

This generic skills description tool is linkable to our national diplomas and can be transposed to European partner countries degrees.

↪ **The BSE matrix : a tool for closer cooperation with partner companies**

Engineering for energy efficiency is implemented in practice by training partners companies. Our best representation of engineering for energy efficiency has enabled us to develop our cooperation with these companies.

For example, the BSE matrix has allowed us to rebuild our partnership for the reception of trainees with the engineering manager of an important hospital complex that is emblematic and representative in terms of complexity of energy management. This results in a better definition of operational objectives and evaluation criteria for training periods for our learners or for learners of our European partners.

✚ **The BSE matrix : a tool to ensure the quality of learner mobility in European partner countries.**

The process of shared development of the BSE matrix has allowed the installation of a good understanding and a strong level of trust between partners. This ensures the quality of the mobility of learners and provides to them the recognition of skills gained from these mobilities in their certification path.

Prospects

Our participation in IT-BSE project opens prospects for European dimension.

We consider in particular :

- ✚ **Continuing work on the technology watch on the theme BSE.** Indeed, the systemic approach and the "global cost" analysis are relevant and affect all life stages of a building and all stakeholder levels. These innovative approaches are now shared across Europe and observing their deployment will be a source of inspiration for educational innovations.
- ✚ **Continue and strengthen the European partnership engaged in the IT BSE project.** We have already agreed to continue cooperation with partners by sending and receiving students for training periods. Similarly, we consider the exchange of teachers.