

## The importance of building Life Cycle Assessment (LCA) as a decision tool

Buildings and construction in the EU account for:



40% of final energy consumption



35% of greenhouse gas emission



50% of all extracted materials



30% of water consumption



33% of total generated waste

## You can only improve what you know.

For many stakeholders in the value chain, buildings LCA offers the opportunity to assess and lower the overall environmental impacts of the building (construction, use, maintenance and demolition phases).



**Construction System Selection?** 



Design of the building?



Construction product supplier selection?

How to valorize the materials at the end of life of the building?





How much energy is consumed to construct the building? How much energy will be used in the building?

**END OF LIFE** 

How easy is it to use the building for different purposes?

USE

LCA is the only tool which provides a full view of the environmental performance of the building. It also highlights the improvement potential over its lifecycle.