

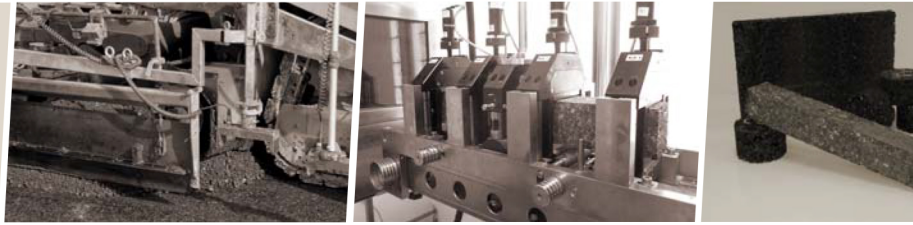
USE OF END-OF-LIFE MATERIALS, WASTE AND ALTERNATIVE BINDERS AS USEFUL RAW MATERIALS FOR PAVEMENTS CONSTRUCTION AND REHABILITATION

www.alterpave.eu

PROJECT PROJECT

The ALTERPAVE project will **demonstrate the technical and economic and environmental feasibility** of different combinations of sustainable asphalt mixes that will replace virgin materials by recycled and renewable alternatives. The project will focus on two main components of the pavements. On the one side, it will look for the replacement of the virgin aggregates by **recycled materials** and **by products**. On the other side, considering the higher impact of the bitumen when compared to the aggregates, **alternative binders** such as waste engine oils and bio-fluxing agents will be integrated in the mixes to reduce the amount of oil-based binders.

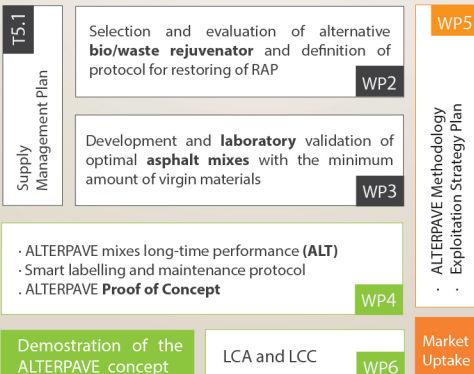
The ALTERPAVE project will not only look to the construction phase of the road itself but also to its reuse and recycling after the end of the service life of the infrastructure. Thus, the project will integrate the **"Design for reuse"** concept maximizing the recyclability rates of the new mixes and also a **smart labelling solution** will be developed to facilitate and enhance future road maintenance and rehabilitation works.



BENEFITS BENEFITS

- ① Reduction of virgin aggregates
- ② Reduction of virgin bitumen
- ③ Use of secondary materials
- ④ RFID smart labelling
- ⑤ Circular economy approach
- ⑥ Design for reuse

Development of the solution



PARTNERS PARTNERS



PROJECT COORDINATOR

