OBJECTIVE

REcircularPAV project aims to tailor for the first time engineered circular asphalt mixtures for road pavement materials

MAIN PILLARS

Going beyond bituminous asphalt mixtures: recycling, bio-based materials and end-of-life products;

Evaluating predicted performances: mechanical properties, ageing and sustainability.

WHAT IS?

"ReEngineering asphalt mixture for circular road PAVements"

REcircular PAV is a trainingthrough-research project aiming at engineering costeffective circular asphalt mixtures for road pavement in a fossil fuel-free society, incorporating very highcontent of reclaimed asphalt together with endof-life tyres and bio-based materials.

REcircularPAV is a project developed at UNIPA



that has received funding from the European Union's Horizon 2020 Programme under the Marie Skłodowska-Curie actions "Individual Fellowship" for research, technological development and demonstration, under grant n. 101033561.

In collaboration with EIFFAGE, UGR, TRS



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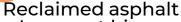
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Towards circular asphalt
mixtures - investigating road
materials for a post fossil fuel
society

ENGINEERING CIRCULAR ASPHALT MIXTURE

1 | Laboratory level



- + Low-cost biobinder
- + Crumb rubber



2 | Plant and site level

Operational issues (manufacturing and laying)



End-user manual

PREDICTED PERFORMANCE

3 | Ageing

Surface morphology and chemical investigation



Bio-binder and mixture properties

— Mechanical properties



Environmental
and economical
sustainability



Sustainability assessment

HOW TO CONSTRUCT PAVEMENTS WITHOUT FOSSIL FUELS?

The combined use of sustainable materials such as waste and bio-products along with reclaimed asphalt will allow the construction of pavements without the use of fossil fuels.

ioint effort between UNIPA, EIFFAGE and UGR and supporters will allow the development material that meets the requirements of the circular the economy and sustainability criteria for the infrastructure road construction.

DEVELOPED BY







WITH THE SUPPORT







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