

**TRX 100%*****A partnership***

**MARINI-ERMONT, in partnership with EUROVIA, invents the first mobile continuous asphalt plant in the world, recycling up to 100% of asphalt aggregates.**

New asphalts used in road construction and maintenance in France contain, on average, 17% asphalt aggregates (\*) (materials mainly produced by the demolition of roads). This low rate of reused materials is due, in particular, to technological restrictions that prevent mobile plants from incorporating more than 50% of asphalt aggregates today. In addition, formulation methods of asphalts at these rates need to be specifically designed (reuse of the old bitumen, oxidation) to offer the same level of sustainability.

**EUROVIA (VINCI group)**, the leader in its sector when it comes to recycling, wanted to drive forward innovation on a new asphalt installation and set itself the goal of exceeding the current technical limit while targeting excellence, i.e. 100% recycling. To do so, **EUROVIA** merged the skills of its Technical and Research Division, its Materials Division and its partner, **MARINI-ERMONT (Fayat group)** to reinvent the process and finalise the design and production of the first mobile continuous asphalt plant in the world, recycling up to 100% of asphalt aggregates.

## **MARINI-ERMONT (Fayat group) has dreamt up a new piece of equipment: TRX 100%**

TRX 100% becomes the multi-purpose tool for road-building sites of the future. It is used to recycle 0 to 100% of asphalt aggregates, over extensive production and temperature ranges.

Extremely mobile, **TRX 100%** can be implemented rapidly, very close to road-building sites. The bulk of the supply, i.e. asphalt aggregates, can be sourced from milling materials produced by the site, partly or fully protecting natural resources and reducing transport logistics to a minimum, together with the site's carbon footprint.

### **Patented technology**

Patented TRX 100% technology, based on the drying of asphalt aggregates at low temperature, reuses and preserves the binder of asphalt aggregates. Longer mixing times, together with a unique heating system, guarantee the production of "recycled" asphalt and reuse of all its old binder.

TRX 100% becomes the most efficient and greenest mobile recycling solution in the world.

### **The Eurovia "100% recycled road" project**

The "100% recycled" road therefore aims to design technical and material resources to build road infrastructure exclusively containing recycled products. The aim is to significantly reduce the use of raw materials and greenhouse gas and polluting emissions while achieving mechanical performance identical to that of new materials, sustainably and at competitive prices.

### **A project supported by ADEME (French Environment and Energy Management Agency)**

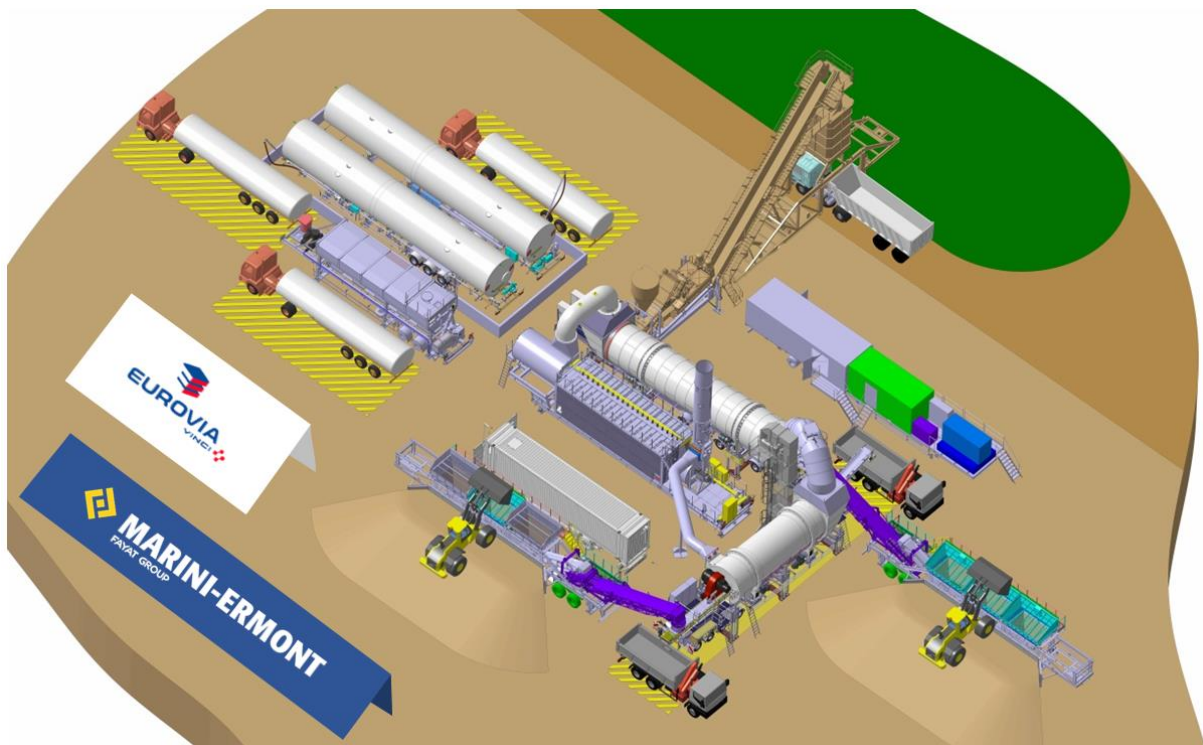
The "100% recycled road" has won the "Road of the future" project tender launched by ADEME as part of the Future Investments Programme.

The project started in April 2017 and its programme covers study, design and prototyping phases and a demonstration plant, real on-site testing as well as a validation phase in "optimal" mode with 100% of asphalt aggregates (production capacity, quality of materials made, quality of gas emissions, energy consumed, etc.). Studies and tests on materials produced will be run in parallel to check their performance well beyond the usual tested features.

This will involve a demonstration on a high-traffic road – a motorway (ASF network) – of this new recycling know-how: producing all the road foundations with a recycling rate close to 100%

Once the economic model of the “100% recycled” solution has been validated, the plant is expected to be duplicated in France and abroad on major road maintenance sites (motorways, national roads, etc.) which are its primary targets. This infrastructure offers high volumes of asphalt aggregates whose features are suitable for complete reuse in major maintenance operations.

### Press pictures



(\*) source: Routes de France 2016



*About the FAYAT group*

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*Present in 170 countries, with a workforce of 19,100 employees, the Fayat Group, founded in France in 1957, supports its customers worldwide through innovative and sustainable solutions for the construction market and in the seven major sectors in which it operates: Public Works, Foundations, Buildings, Energy & Services, Metal and Mechanical Construction, Boiler-Making and Road-building Equipment.*

*In 2017, the Group made €3.7 billion in turnover.*

*A world leader and specialist in road-building equipment, Fayat offers a comprehensive and efficient range of equipment suitable for each stage of a road's life cycle.*

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