WHAT'S





Making mobility more sustainable

World Champion **DOMINIQUE AEGERTER** with the bioflax fairing

Initiators Project Motonext

Kervin Bos Team manager TenKateRacing

Peter Schorer Project accelerator 04 Innovative parts

- 06 Test results
- 08 Innovations
- 10 Competitive participation
- 12 From project to product
- 14 Dissemination of knowledge
- 15 Impact on racing

It is our duty to think about the future, for ourselves but certainly also for the next generations



STEFANO MANZI 2023: 2nd World Supersport

International recognition

Project Motonext is supported by the national motorsport association KNMV. The international motorsport federation recognizes it as an official FIM Innovation Project. The National Sports Innovator Prize, an initiative of the Ministry of Health, Welfare and Sport, is awarded annually to innovative products or services in the field of (top) sports and exercise.

Innovative parts





• A prototype race engine has been designed and built using sustainable materials and technologies.

• The engine has been optimised for performance and sustainability, with a focus on fuel efficiency and emission reduction.



Ten Kate Racing and Motonext: a step ahead

- The engine has been tested in various conditions to evaluate its performance, reliability and durability.
- Data was collected on performance in comparison to traditional race engines, including top speed, acceleration and fuel consumption.

motonext

6

Test results





Biobased renewable oil: developed by our partner Putoline in coorporation with Motonext

BLUEPRINT FOR THE GREEN FUTURE

Recycled oils

-80% CO₂-emissions

compared to classic lubricants from crude oil Biofuel

-70% CO₂-emissions compared to fossil fuel





Engine Oil Reco Unit

Putoline and Ten Kate Racing have developed the so-called Engine Oil Reco Unit as part of the Motonext project. This ingenious device gives engine oil a second life. After a training session or race day, the oil does not have to be discarded or destroyed. After being filtered, the oil can be reused immediately. Our challenge was to reduce engine oil consumption at Ten Kate Racing. By using it for a longer period, we ended up with a significant environmental gain. We designed a reconditioning unit that finely filters the product over a longer period of time.

A 50-MICRON FILTRATION ELEMENT A 60-LITRE STORAGE TANK FOR RACE-USED ENGINE OIL

motonext BLUEPRINT FOR THE GREEN FUTURE

8



Competitive participation





to product



Identification of potential spin-offs for industrial applications, such as the use of sustainable materials in the construction sector or improved mobility solutions. Collaborations and partnerships have been developed with industry partners to further commercialise the innovations. Re-refined and re-used oil

Brake pade made of

12 **motonext** BLUEPRINT FOR THE GREEN FUTURE



LAYER OF FLAX OF 422 G/M² 1 LAYER OF FLAX FOUR-AXIAL OF 783 G/M²







Plant based fuel



Dissemination of knowledge

Recer

- Publications and presentations have been carried out to share the knowledge and experiences gained with a wider audience, including scientists, engineers and the general public.
- Workshops or seminars have been organised to inspire other industries to implement sustainable technologies.







Impact on racing

- First steps have been taken towards a cultural shift within motor racing towards greater sustainability, including involvement of teams, sponsors and fans. Each of these results contributes to the wider objective of the project: the sustainability
- of global motor racing and the development of valuable industrial applications.











ARE YOU READY FOR THE NEXT STEP?



MORE INFO

