



SEAFSIDE
RACING

A spontaneous initiative, grown year by year,
born as a way to connect people from vehicle dynamics.

The only rule, live it with the will to share:
knowledge, time, experience.



ACTIVITY

this outdoor engineering lab
has been gaining attention
since 2021, with its 5-days
mid-year event at the
Sele Circuit



TESTING

innovative and reliable
testing procedures are
designed to parametrize
and identify phenomena
and physical models



GOAL

fully characterization of the
vehicle and its sub-systems
to support researchers and
technicians in their
daily work





DIPARTIMENTO DI
INGEGNERIA
INDUSTRIALE



UNIVERSITÀ DEGLI STUDI
DI NAPOLI FEDERICO II



UNIVERSITÀ
DEGLI STUDI
DI BRESCIA



UNIVERSITÀ
DI PAVIA



Università
di Catania



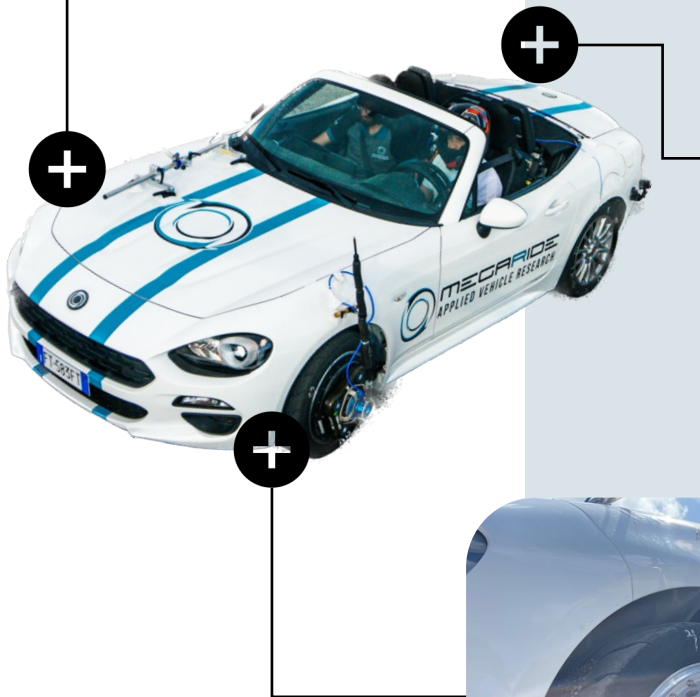
TAKING PART SO FAR...



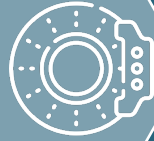
TECHNICAL EQUIPMENT

Participants to the initiative use to provide instrumentation to equip any type of vehicle. In the last editions:

- **Wheel force transducer** – for the measurement of wheel forces and moments
- **RV4/WOM** – for the measurement of all wheel positions and orientations
- **S-Motion** – for the measurement of longitudinal and transverse speed and vehicle side-slip angle
- **Thermal sensors** – for the detection of tire surface and inner liner, rim, brake disc, caliper and pads temperatures, as well as inflation pressure evolution
- Vehicles' **CAN bus** access for the detection of quantities of interest in vehicle dynamics (accelerations, yaw rate, steering angle, etc)
- **Laser sensors** – for ride height and roll/pitch angles detection



LAST EDITIONS' RESEARCH



**THERMAL ANALYSIS OF SEVERAL BRAKING SYSTEM LAYOUTS
AND IMPACT ON TIRE DYNAMICS**



**DATA COLLECTION FOR STEERING SYSTEM HIL SIMULATION
BASED ON TIRE MULTIPHYSICS**



**TRACK DATA AND TREAD VISCOELASTIC MONITORING FOR TIRE
WEAR AND DEGRADATION MODELLING**



**DEVELOPMENT OF INNOVATIVE TEST ROUTINES FOR TIRE GRIP
AND WEAR DATA OBJECTIVATION**



**DRIVING SESSIONS ON INSTRUMENTED VEHICLES FOR
THE STUDY OF PRO AND AMATEUR DRIVERS BEHAVIOR**



**CLEAR RIDE AND COMFORT ANALYSIS
FOR TIRE MULTICONTACT MODEL CHARACTERIZATION**



**INVESTIGATION ON THE CONTACT BETWEEN
THE TIRE AND UNEVEN/DEFORMABLE GROUND**





Seaside Racing is not only about sweat and toil...but also conviviality and fun!

The sea, a stone's throw from the track, the opportunity to accommodate in amazing locations and an atmosphere based on fruitful working days and enjoyable after-work evenings make the atmosphere of this week unique.



JOIN US

The driving force for this initiative promoted by the MegaRide group is the open knowledge and the research for new modeling challenges and features to be included in virtual simulation environment.

WHAT WE NEED



NEW
CHALLENGES



TESTING
EQUIPMENT



ANY CONTRIBUTION
TO THE ORGANIZATION

WHAT YOU GET



TONS OF
DATA



LEARN AND
EXCHANGE IDEAS



GREAT
FOOD