

NEWS MAGAZINE

OPERATIONS DEPARTMENT



ARISTURTL

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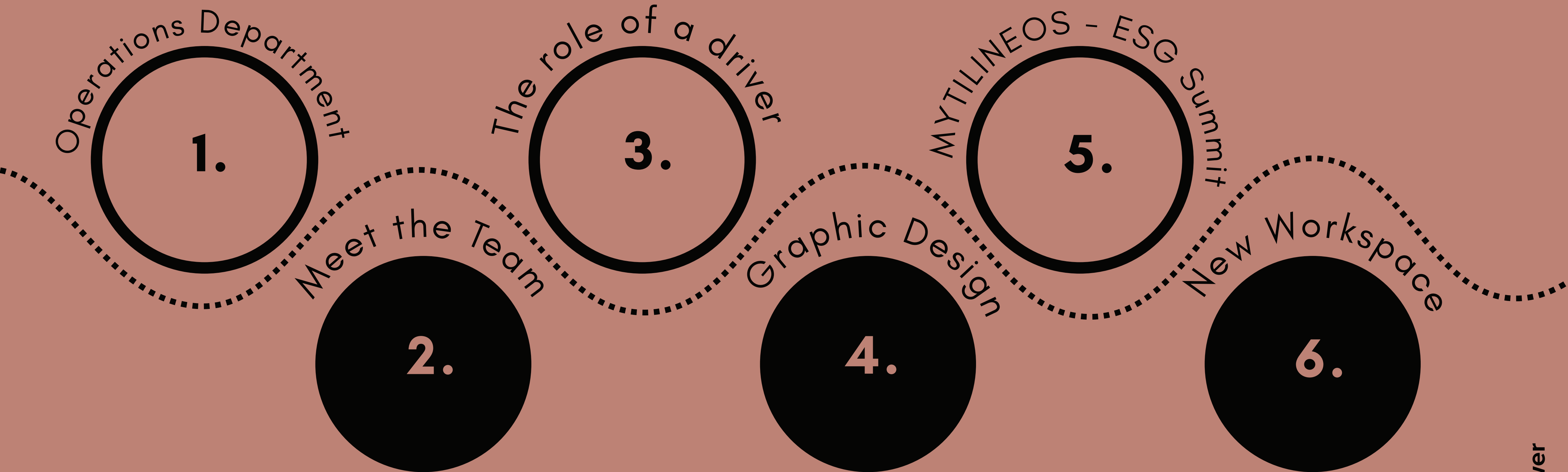


protergia





CONTENTS





“The strength of the team is each individual member

The strength of each member is the team”





OPERATIONS DEPARTMENT

The Operations Sub-team is only one of the many that together make up Aristurtle. But to better understand its function within the team let's take a moment and use an analogy. If Aristurtle were an orchestra, Mechanical would be the first violins and Electrical would be the first flutes. Aerodynamics would be the bass, providing the piece with depth. But Operations would be the drums, loyal to the rhythm, making sure the whole team has the basis to build upon and sing the melody of designing a race car. In doing so Operations is responsible for the perception of the team to the world through our communication channels, of the funding the construction relies upon and of course of the writing of the Business Plan, with which we compete in multiple competitions! In other words, Operations focuses on everything that is essential for the continuance of the team, so our engineers don't have to!





AUTONOMOUS SYSTEM



Structure &
Mechatronics

Low Voltage
System Software

ELECTRICAL



High Voltage System
Low Voltage System

MECHANICAL



Aerodynamics
Frame & Composites
Mechanical Design
Suspension



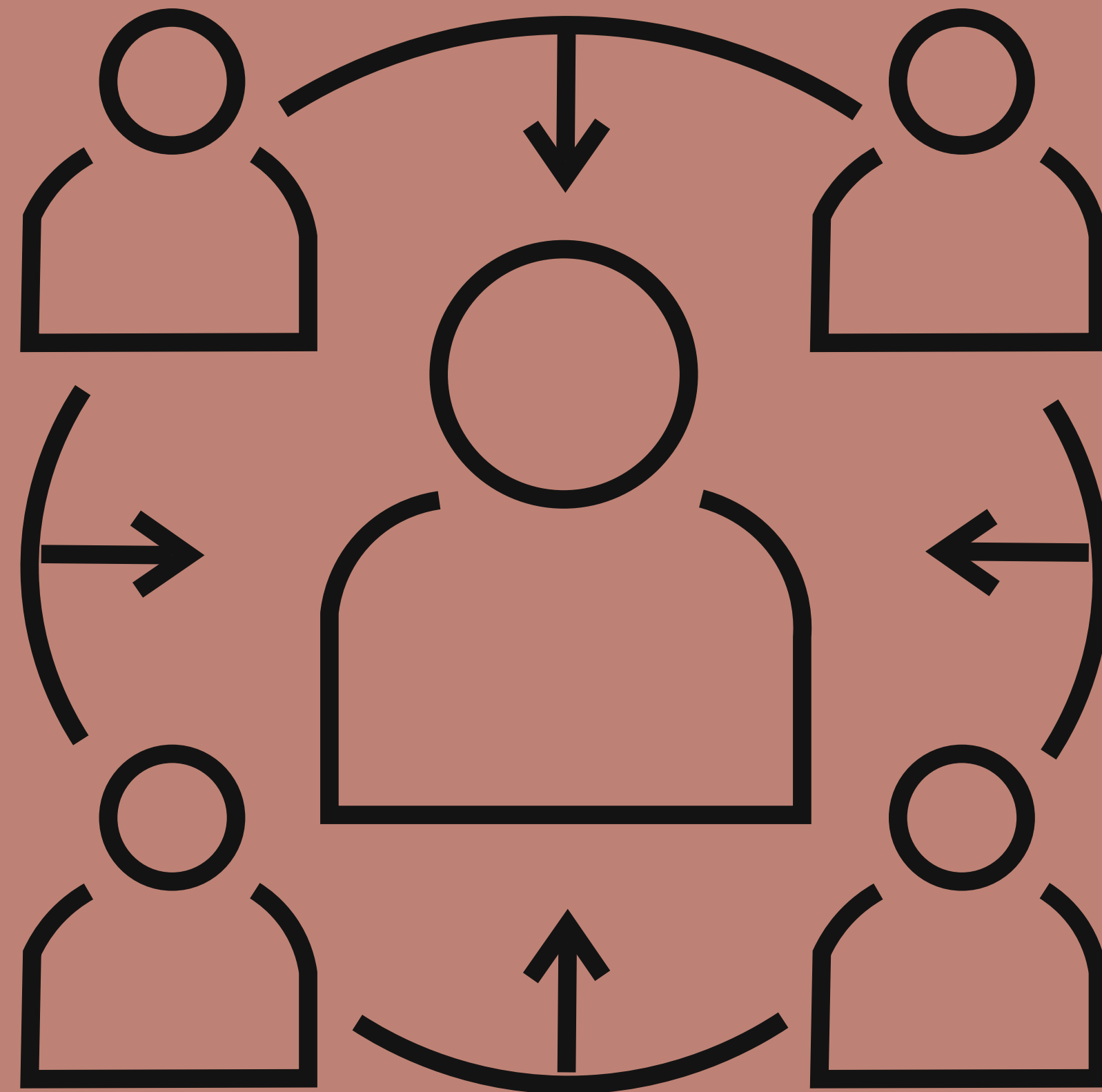
OPERATIONS



Business Plan
Graphic Design
Public Relations
Social Media
Economic Resources



MEET THE TEAM



After the adaptation to a new way of normal due to the ongoing pandemic, we are proud to present you Team 2021.



BOARD



Pavlos Vasileiou
CEO, Head of Powertrain
& High Voltage Design



Nikos Kouvaras
Head of Vehicle Concept,
Design & Manufacturing



Lilia Bakali
Head of Operations Department



Nikos Dagkalakis
Head of Suspension & Drivetrain



Anastasia Kouro
Head of Chassis Design



Ilias Kofokotsios
Head of Software & Control Systems



Despoina Antoniadou
Chief of High Voltage System



Pantelis Ioannidis
Chief of Hardware Design
& Safety Systems



Nikos Kotarelas
Head of Autonomous
Hardware System & Actuators



Thodoris Tyrovouzis
Head of Autonomous Software System

AUTONOMOUS DEPARTMENT



Anastasis Grammenos
Embedded System Designer,
Autonomous ECU



Dimitris Fotiou
Computer Vision,
Sensor Fusion & Localization



Dimosthenis Natsos
Control Engineer,
Path Planning & Actuators

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Georgia Amanatiadou
Hardware Designer



Ioanna Tsakalidou
Software & Embedded
Systems Designer, Driver Interface



Eleni Papageorgiou
Software & Embedded
Systems Designer, LV Wiring



Vangelis Tzouvaras
Hardware Designer
& PCB Manufacturing



Odysseas Koutsokeras
Thermal Analysis Engineer

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Marios Efthymiadis
Suspension & Dynamic Models



Christos Papagiannis
Vehicle Dynamics & Tire Model



Alexis Nikas
Aerodynamics Designer,
Design & Manufacturing



Stratis Chatzidarellis
Aerodynamics CFD Simulation



Grigorios Paraskevopoulos
Mechanical Designer,
Autonomous Actuators



Nikos Kefalas
Mechanical Designer,
e-Powertrain Cooling



David Cardia
Composite Materials & Manufacturing



OPERATIONS
DEPARTMENT



Ellie Mantziou
Business Plan Analyst



Eleni Belogianni
Business Plan Analyst



Vasilis Cheimonides
Business Plan Analyst



Mara Seremeti
Economic Resources & Social Media



Maria Varsami
Graphic Designer



Evangelia Moschou
Graphic Designer



Eleni Kazarli
Graphic Designer



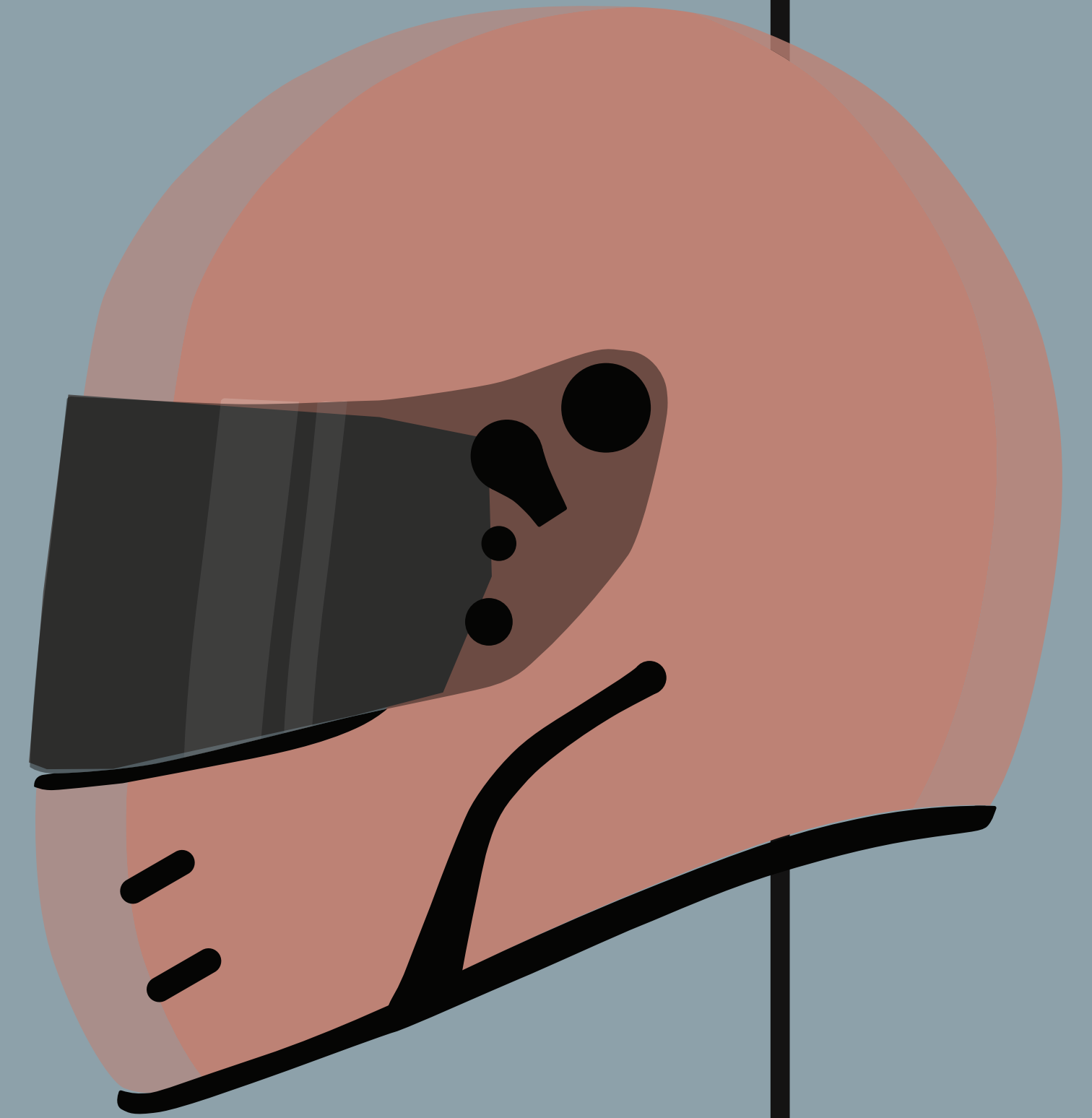
The role of a driver

What does it mean to be a driver for Aristurtle?

Well..., the right question is "what does it mean not to be a driver for Aristurtle?" and the answer is "You lose!" It basically means, being part of the first Electric Formula Student racing team in Greece with the most participations and distinctions in international FSAE competitions.

It also means that you are getting a "full-time job". Aristurtle has a complete commitment and trust to its driver, and that is why you must work and train hard to get in the best fit you can, to learn fast how the race car is working and to have great communication with the other team members by discussing race car's performance.

The selection of the driver is not different from the selection of the rest team members. Being a driver in a Formula Student team is very challenging. Therefore, you must love what you do and be able to sacrifice time from your daily routine for the team's needs. The only difference compares to the other members' selection is that the driver should have experience in go-karts for a faster and better familiarity with the race car and the competitions.





The role of the driver, just like every other role in the team, is very important. Like all the engineers who work and construct the race car, the driver must work hard to elect the race car's abilities.

Being the team's driver is probably one of the most exciting positions and roles you may have in the team. A driver is not very helpful at the beginning of a race car's construction, but after the race car is finished, the driver selects all the data and informs the engineers of what must be improved for the race car's best performance. The driver also plays a huge role in competitions, as he is the one who takes over the race car and tries to elevate its performance.

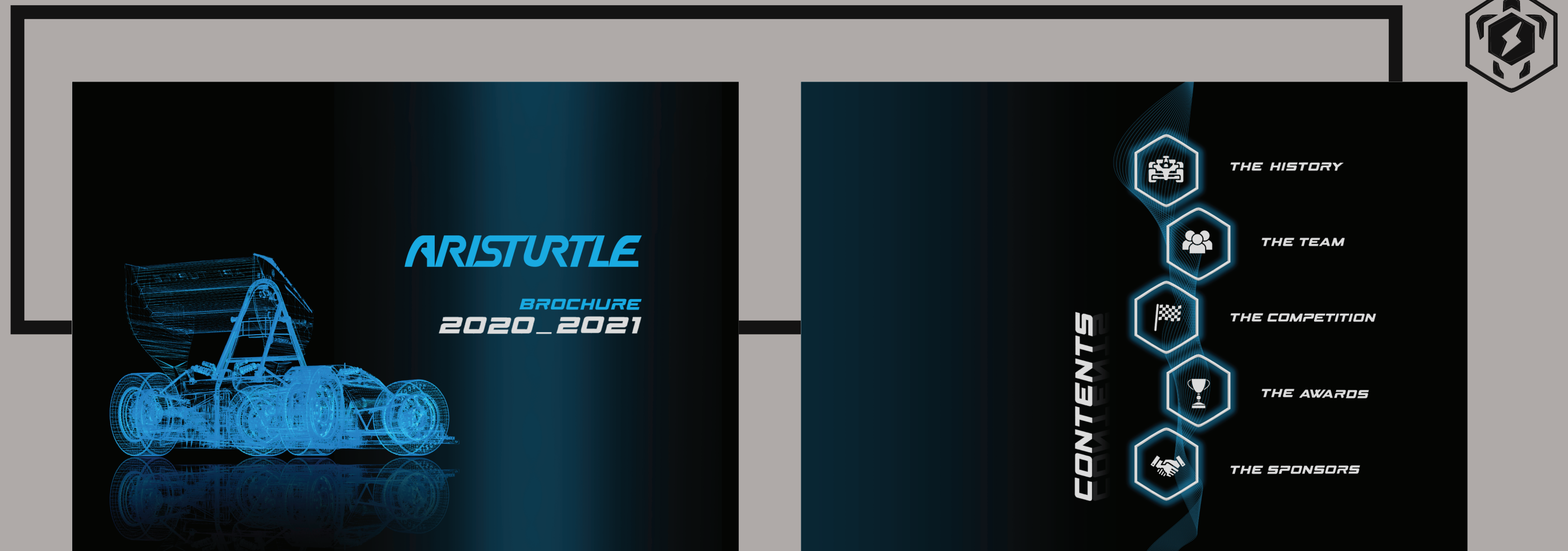
GRAPHIC DESIGN

The main change in graphic design, for the season 2020-2021, was the team's colour palette from green shades to blue thanks to our collaboration with our premium sponsor Protergia, which uses similar shades. The colour palette change, but also the beginning of the new season, urged the graphic design to adopt a new style emitting a dynamic sense. Many experiments were conducted on representations, design elements, illustration formats, as well as design programs.

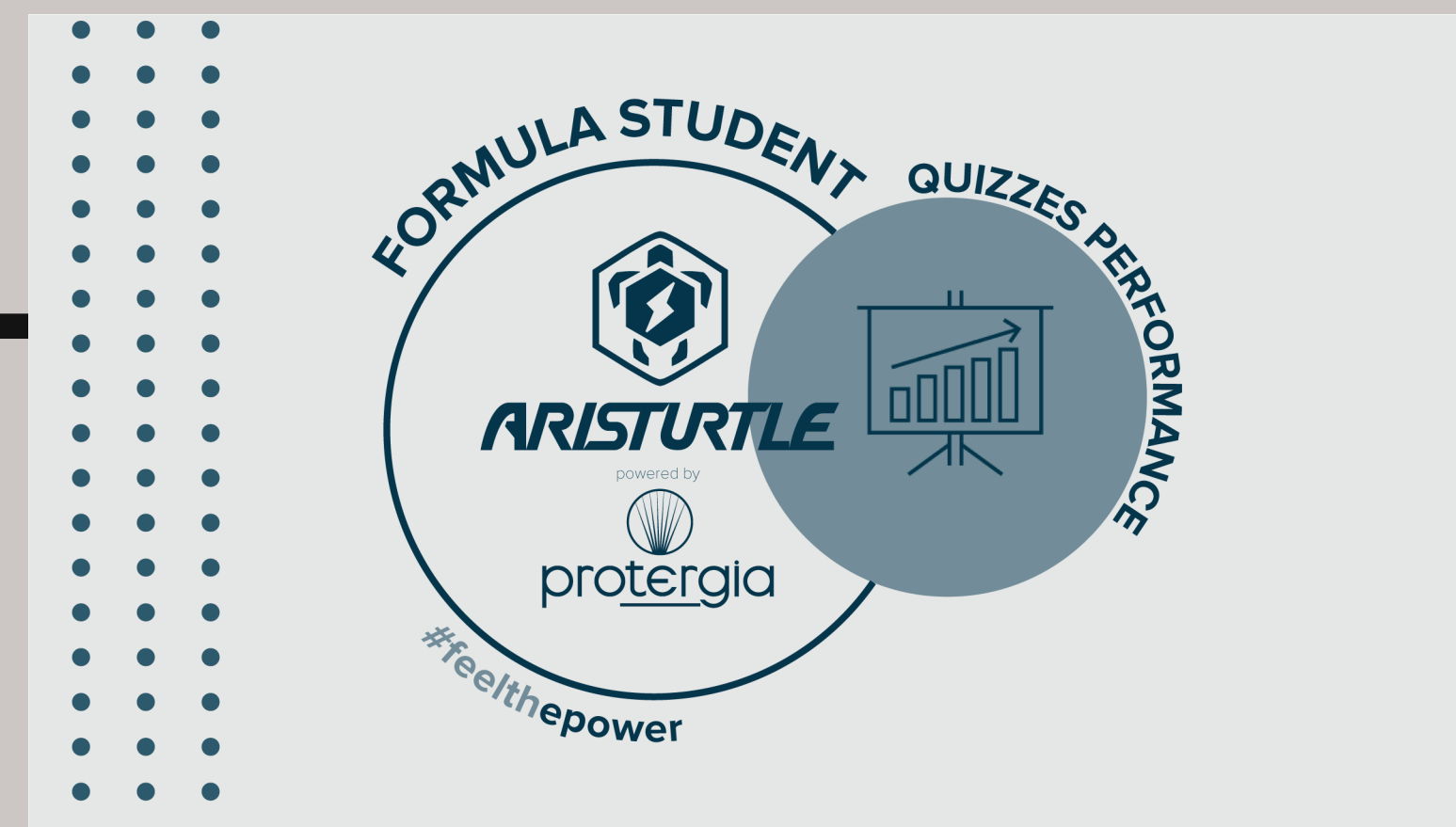


BROCHURE

A brochure is a digital presentation that includes all the necessary information of the team and its evolution. This project's style is mainly futuristic and modern.



NEWS MAGAZINE/NEWSLETTER

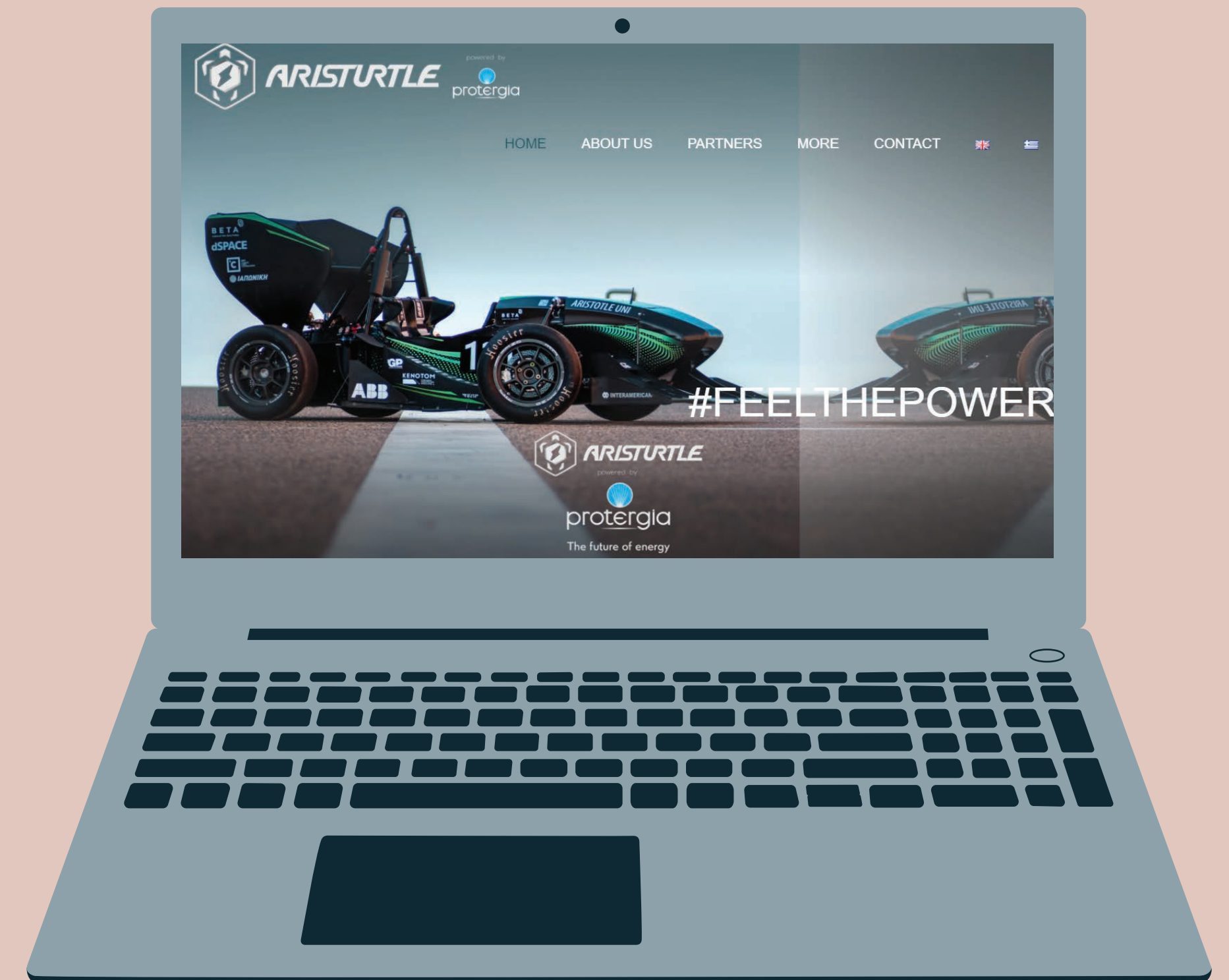


Newsletters/news magazines are digital booklets that reveal the last news of the team. Their style is based on simple, yet dynamic, geometries combined with 2d illustrations.



WEBSITE

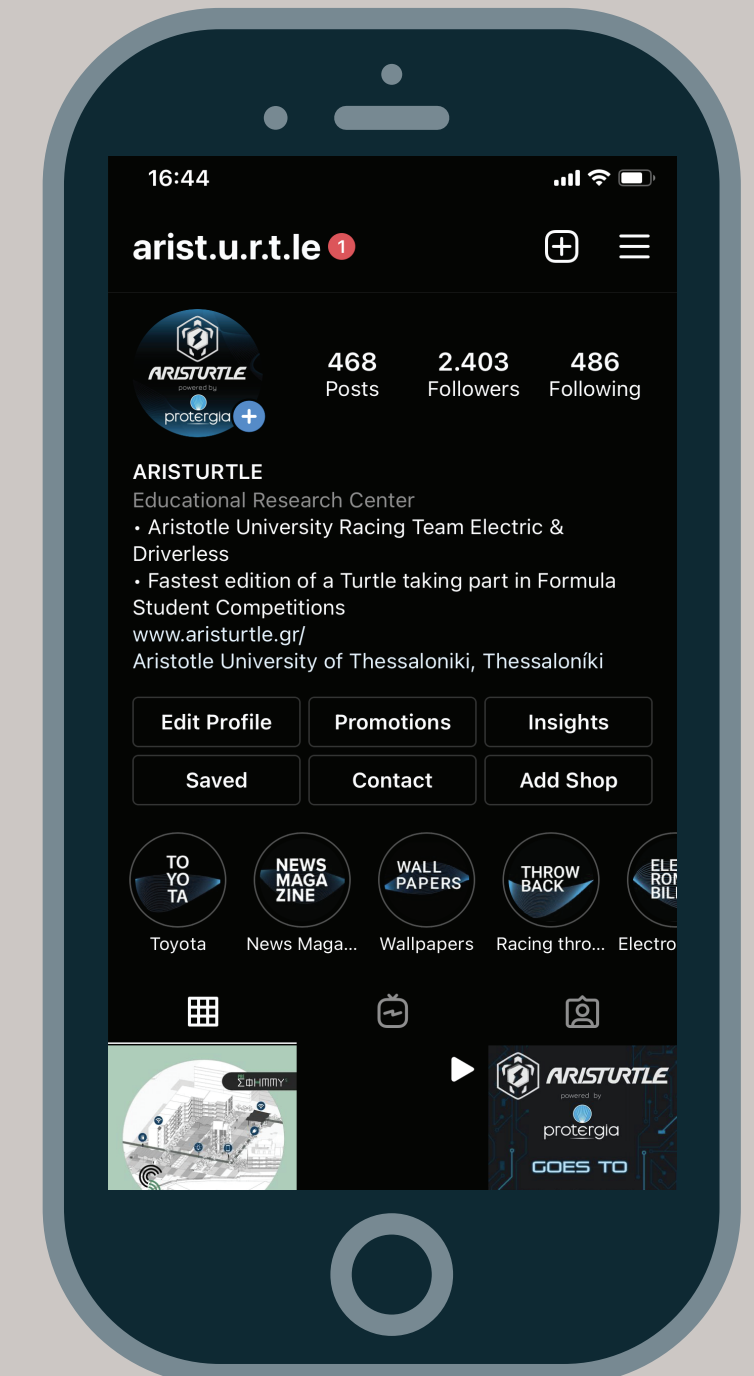
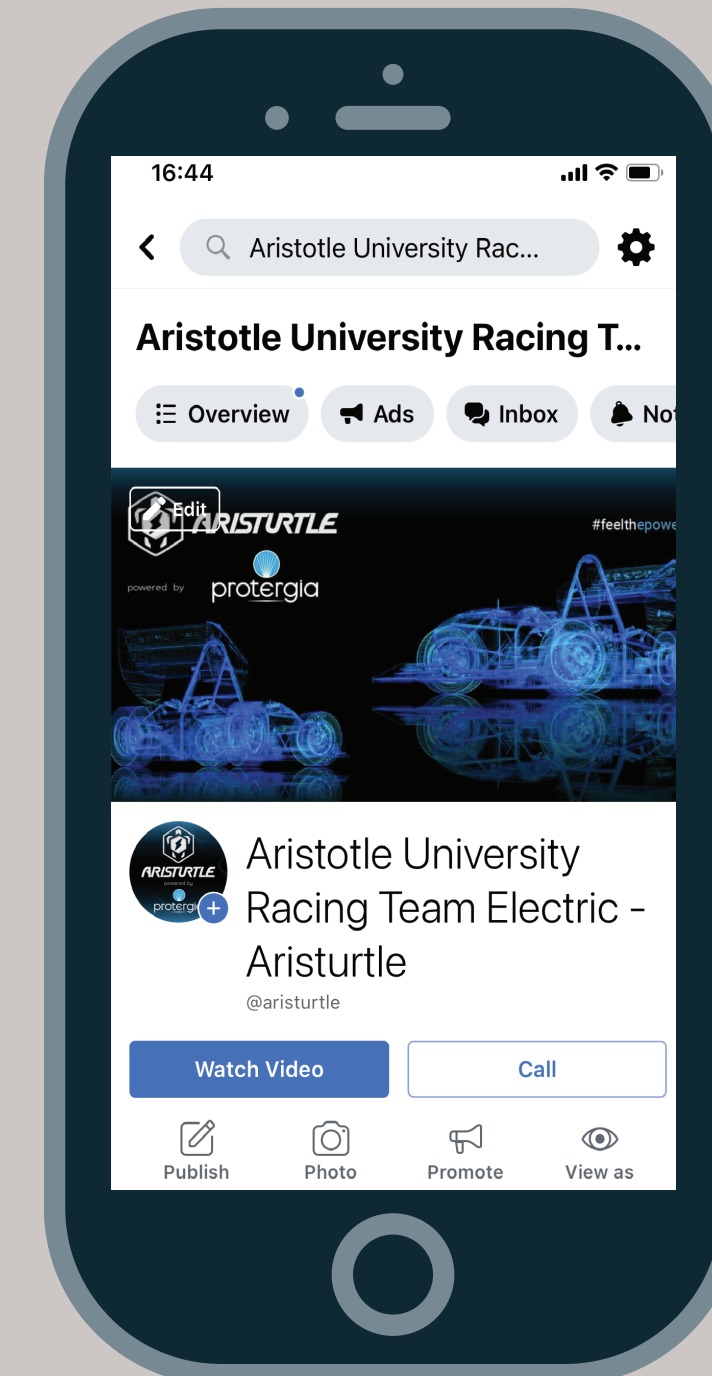
Aristurtle's website design is constantly upgraded. The changes intend to accomplish the better function and structure of the site. The navigation is improved to make the website more user-friendly and as far as the morphology is concerned, modifications are made in the design, color palette, photos, and individual elements. These corrections and improvements are made periodically in such a manner that there is a constant renewal in terms of form but also in terms of content.

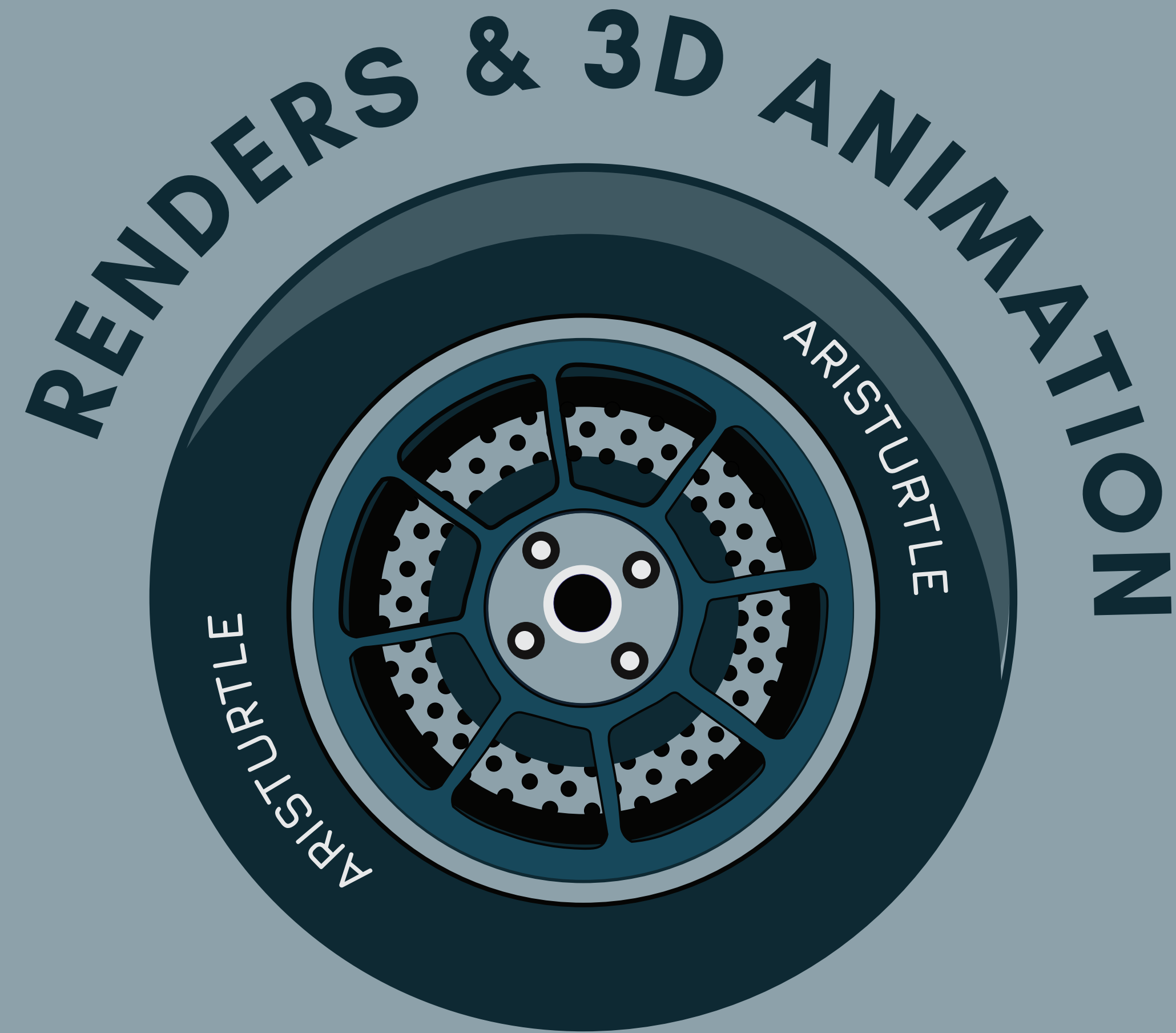




SOCIAL MEDIA

The team's image depends mostly on social media, consequently the profile appearance, as well as the content are especially vital. The videos and pictures posted on social media are usually edited. The graphic design varies from simple photo editing to graphic illustrations. At the same time, the montage technique is used for any video format with graphics, captions, images, trimmed video clips and background music. The goal is to maintain a uniform style in most of the posts, but at the same time preserving the uniqueness of each post separately.





Renders of photorealistic images are made to highlight the individual components manufactured and used in the car, such as for the digital representation of the race car. The Graphic Design team receives the 3d models from other sub-teams and makes them look more realistic with better material qualities and lighting. Alongside with these and more models, it creates animations and videos in the 3d digital space with the aim of making the mechanisms and systems more intelligible.



ARISTURTLE'S GIFTS

Keychain



Stickers



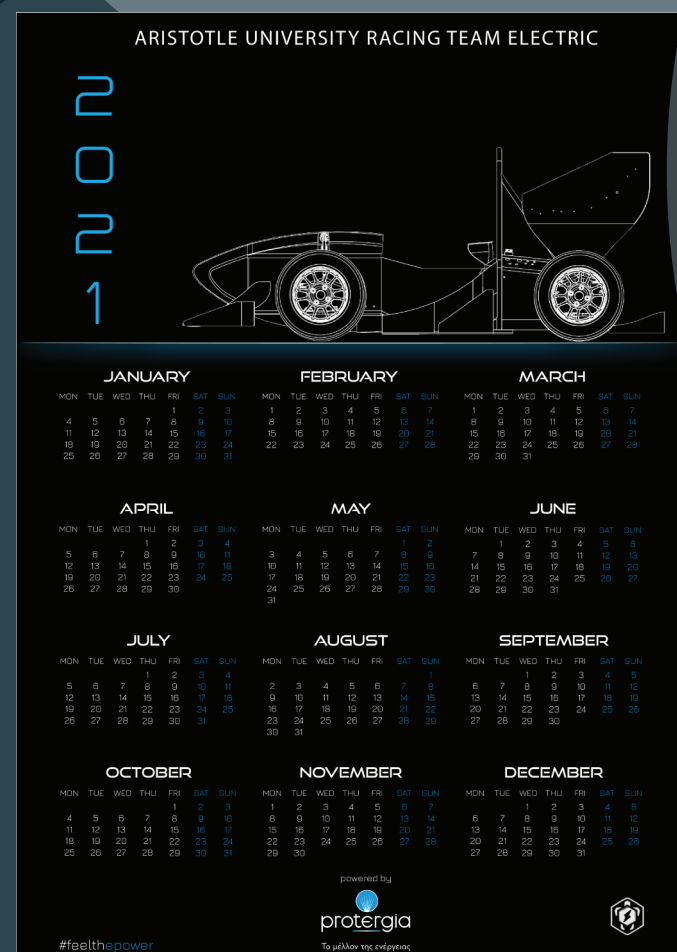
Tote Bags



Bookmarks



Calendar



Paper Bags



Notebook & pen



#feelthepower

TEAM'S OUTFIT





EXTRAS

Besides the other tasks of the Graphic Design team, it is also engaged with some art projects that are made for the promotion of the team but also to present a different aspect of it. Such projects are the handmade stamp, that is carved in a linoleum block, the paper bags that the stamp is imprinted on with black ink, as well as murals with plastic paint in the team's workplace for decoration.





STATISTICS ABOUT US

9.0000+

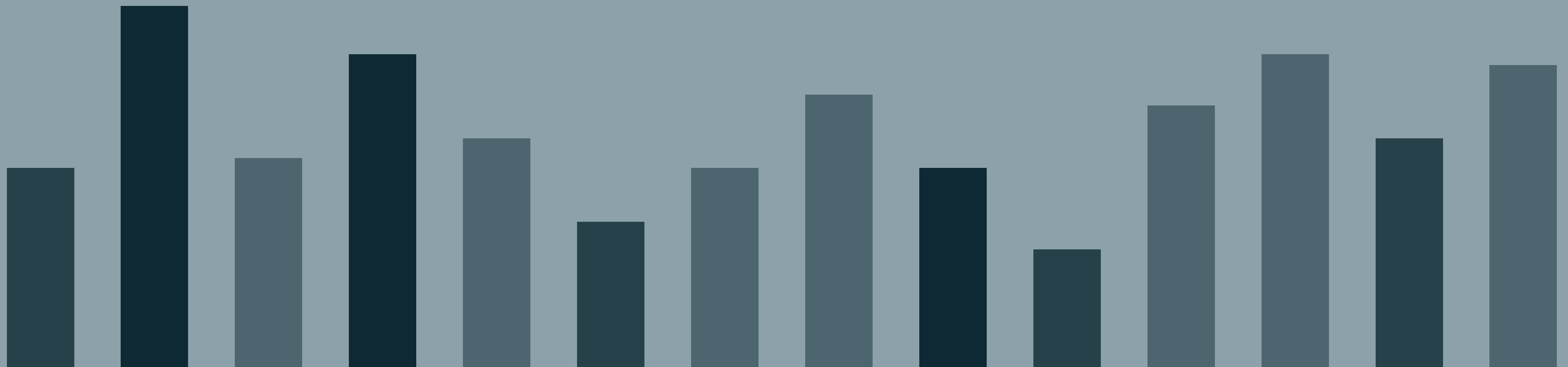
Facebook Followers

20000+

Instagram Followers

200+

Newsletter Subscribers





Net Zero Action

In the end of February, MYTILINEOS S.A. presented the 1st Virtual Summit solely focused on Environmental and Social Governance (ESG) criteria, “Net Zero Action: From challenge to opportunity for accelerated & sustainable value creation”.

The goal of the conference that Aristurtle attended was to highlight important environmental issues and create new and even more ambitious goals for sustainable development.

 A Virtual ESG Summit for action by MYTILINEOS 

NetZeroAction.
From **challenge** to **opportunity** for accelerated
& sustainable **value creation**.

18.02.21
16:00 EET

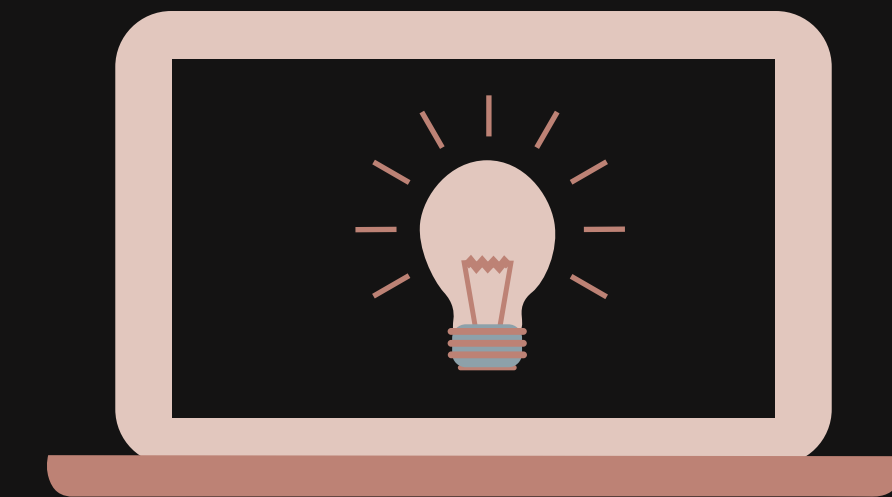
Join us to watch the **Virtual ESG Summit**

The official language of the conference is English
with the option of simultaneous interpretation in Greek



ARISTOTLE UNIVERSITY OF THESSALONIKI

Our team's journey, once simplified, can be described as following: Starting from a simple vision, moving on to handwritten notes. From the notes to a computer program. From the digital program to four wheels. From the Institute of Technology of the Aristotle University of Thessaloniki to international formula tracks. Aristurtle's four completed electric racing cars keep making proud the Aristotle University community in a global level.



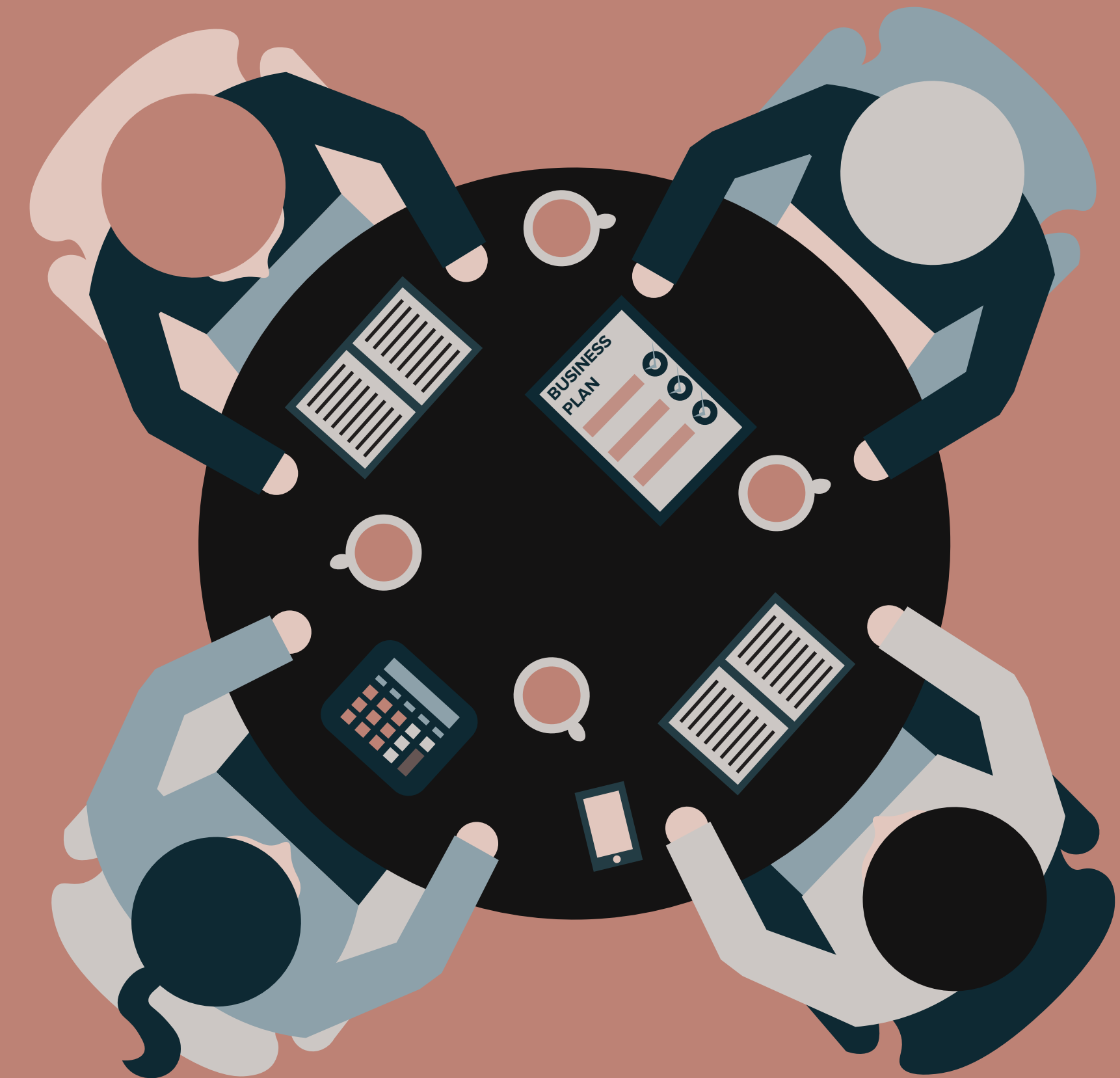
Aristotle University of Thessaloniki

The Aristotle University of Thessaloniki, the Electrical Engineering and Computer Science department, the Institute of Technology, the AuTh Research Committee and the Laboratory of Electrical Machines of the Engineering department (EMLAB) were the first ones to believe in this vision. They shared the students' enthusiasm and rewarded their dedication from the very beginning, supporting the desire for innovation. But above all they completely trusted the students, the young scientists which they themselves nourished with knowledge. Thus, we cannot thank enough the professors of the Aristotle University that have always been there for Aristurtle's needs, both in material and in spirit.



New Workspace

A very special type of joy, one of those that give you courage to keep trying, is seeing your vision expand, your work paying off. That is the feeling our team had when the deanery of the Faculty of Engineering of the Aristotle University of Thessaloniki granted us new working space, where all of our team members can work. New working place means more motivation, better organization, and thus better performance. In other words, it equals evolution. Without the help of the deanery, we would not be given the priceless chance to evolve, and we cannot thank them enough.

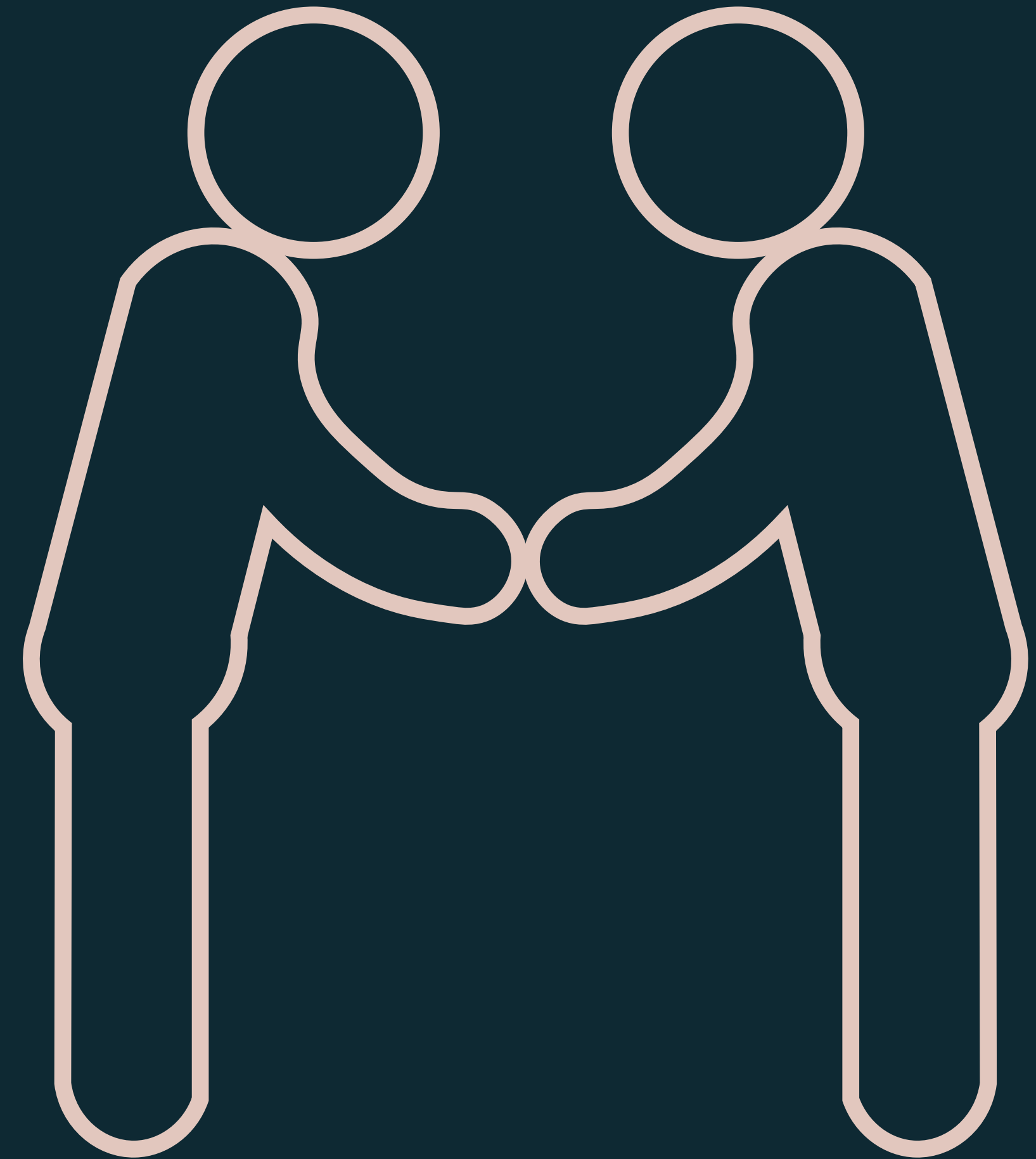




Thank you Sponsors!

A significant part of the reason why Aristurtle manages to evolve and participate in numerous competitions each year has to do with our sponsors. With their continuous assistance our team is able to focus entirely on the design and manufacturing of our vehicles. They allow us to turn our vision of a race car into reality. In terms used within the motorsport community they are the energy that pushes us forward and gives us the power to strive for greatness. We can only be eternally grateful for the trust they have invested in us and for supporting us every step of the way! It is only thanks to them that we manage to reach our goals!

To every single one of our sponsors, thank you for being part of Aristurtle's family!





Aristotle University of Thessaloniki



RESEARCH COMMITTEE
ARISTOTLE UNIVERSITY OF THESSALONIKI



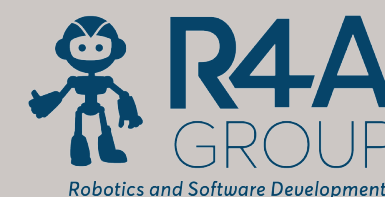
SCHOOL OF
ELECTRICAL &
COMPUTER
ENGINEERING



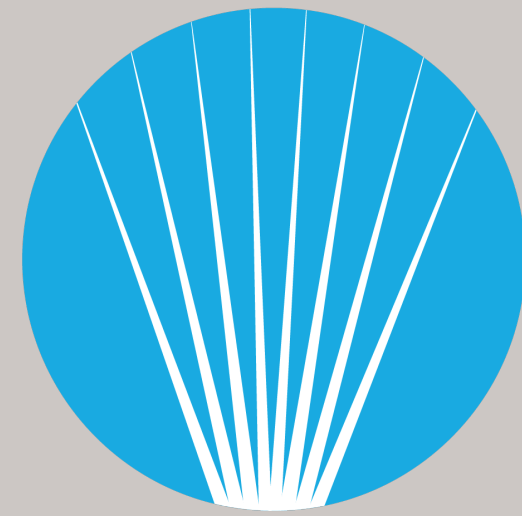
FACULTY OF ENGINEERING
ARISTOTLE UNIVERSITY OF THESSALONIKI



EMLab



#feelthepower



protergia

The future of energy



BETA^B
SIMULATION SOLUTIONS

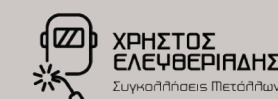
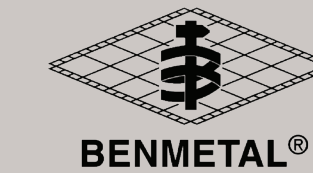
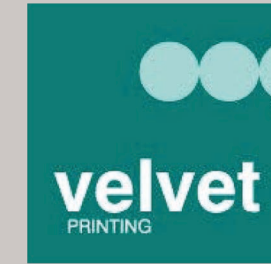
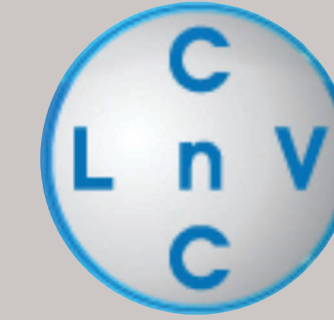
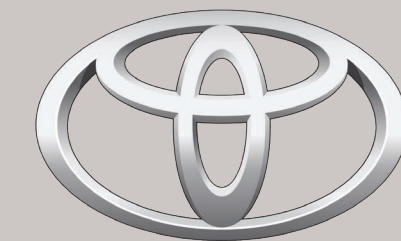
dSPACE



CFT
CARBON
FIBER
TECHNOLOGIES

JAMSport
SUSPENSION SYSTEMS

#feelthepower



#feelthepower



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FACEBOOK.COM/ARISTURTLE



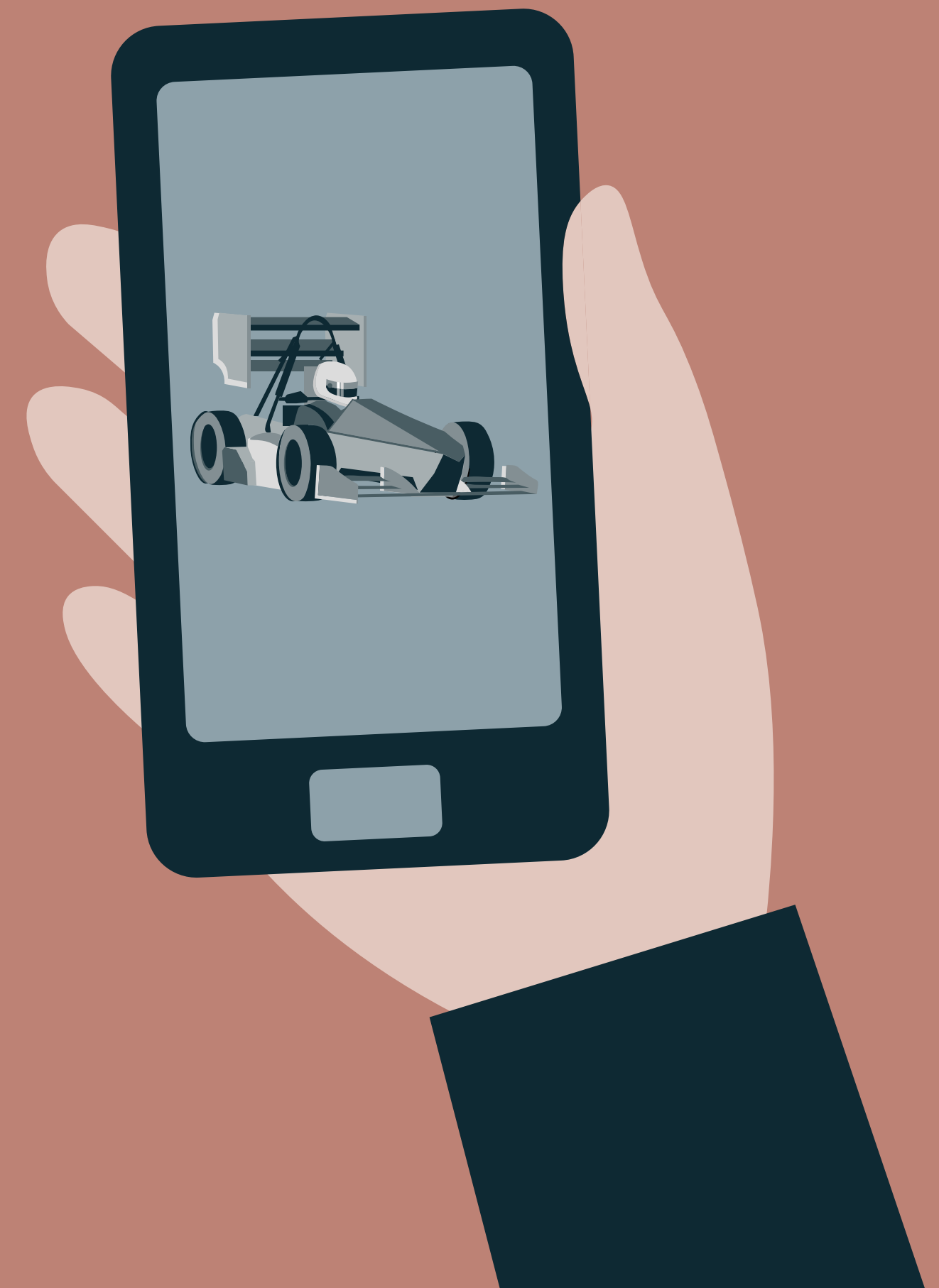
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#feelthepower



Till the next race



#feelthepower

#feelthepower