



 **RESIST**



**AUTOKLASTR**



# Presentation of the **RESIST Eurocluster initiative**

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Autoklastr**

*Vienna 14.11.2023*



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# WHAT WE ARE?



**RESIST** is one of the Euroclusters launched on September 1, 2022 to implement the **EU Industrial Strategy**.

Specifically, the Eurocluster RESIST focuses on the **Mobility-Transport-Automotive (MTA)** ecosystem



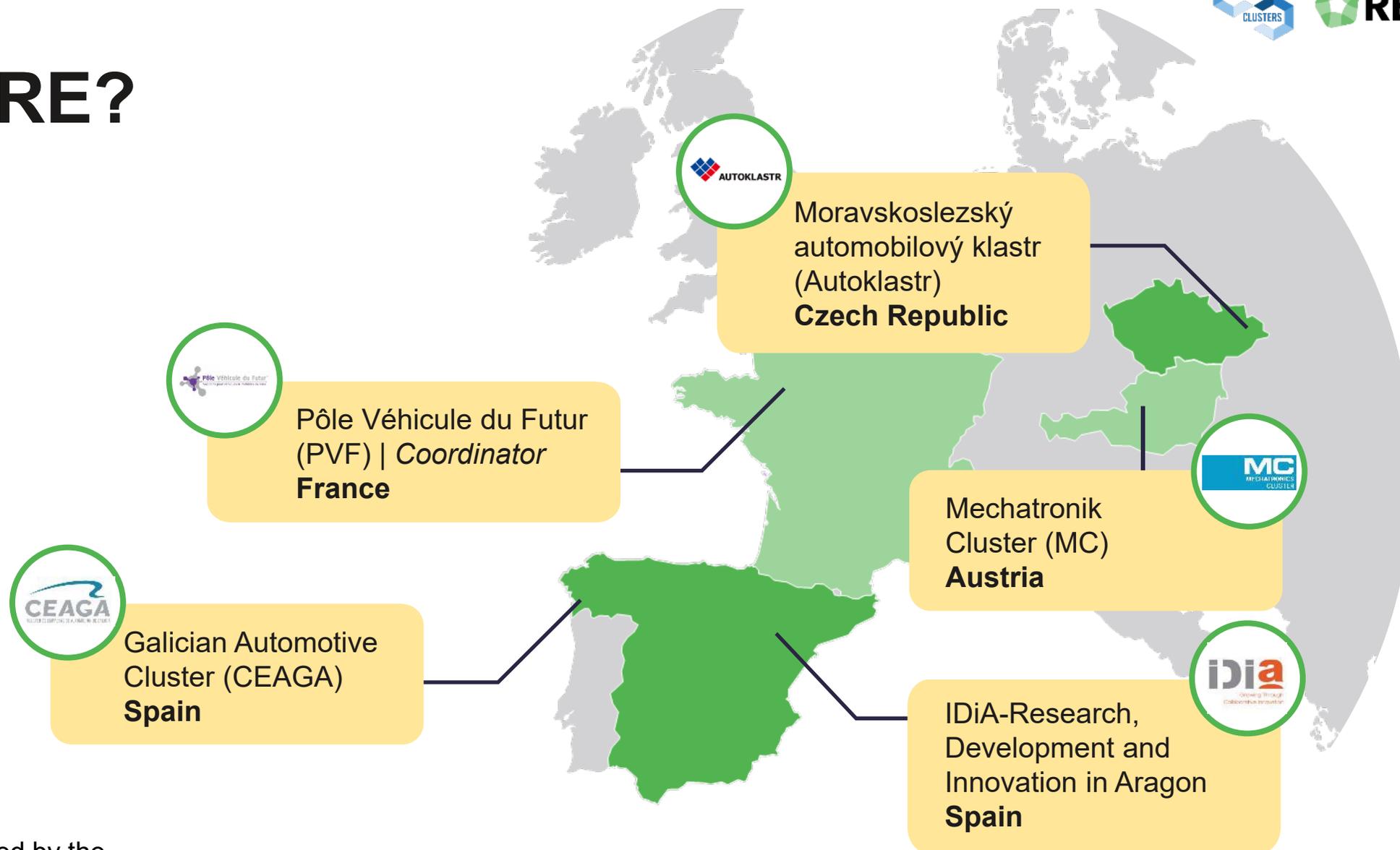
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# WHAT WE DO?

The **objective** of RESIST is to support the **SMEs** of the Mobility-Transport-Automotive (MTA) ecosystem in their **green and digital transition** process, as well as to increase their level of **resilience** in the face of upcoming challenges.



# WHO WE ARE?



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# Future trends in the Mobility, Transport and Automotive ecosystem

# FUTURE TRENDS IN MTA ECOSYSTEM AND IMPACT ON SMES

## APPLIED METHODOLOGY

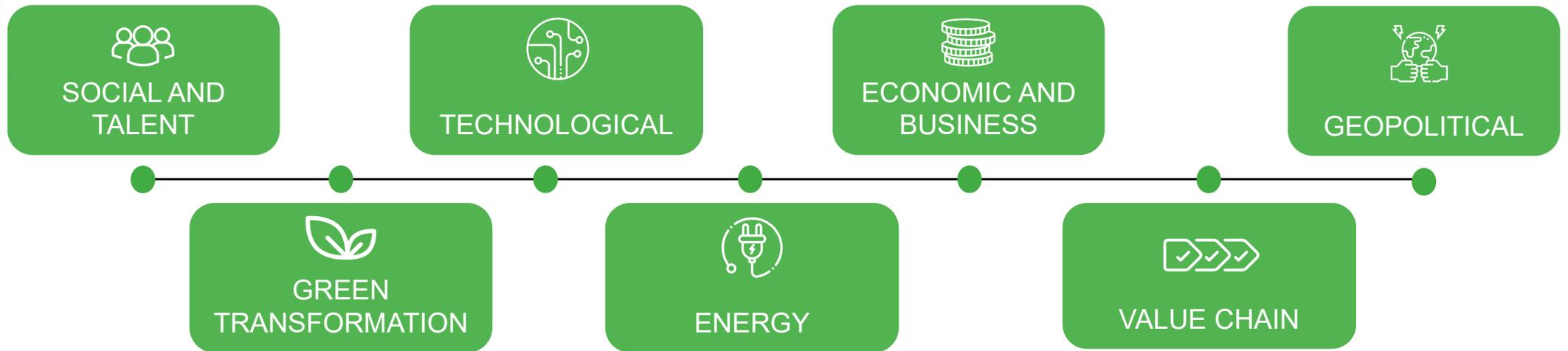


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# FUTURE TRENDS IN MTA ECOSYSTEM AND IMPACT ON SMES

## 1 ONLINE WORKSHOP AMONG THE CONSORTIUM PARTNERS

- Identification and validation of future trends based on relevant studies
- Classification around the **following fields:**



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# FUTURE TRENDS IN MTA ECOSYSTEM AND IMPACT ON SMES



## SOCIAL AND TALENT TRENDS

- New functions and performances in vehicles
- Customisation of vehicles / limited editions
- Mobility solutions in broad sense
- Greater boost to digital markets
- Lack of key competences in the ecosystem



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# FUTURE TRENDS IN MTA ECOSYSTEM AND IMPACT ON SMES



## TECHNOLOGICAL TRENDS

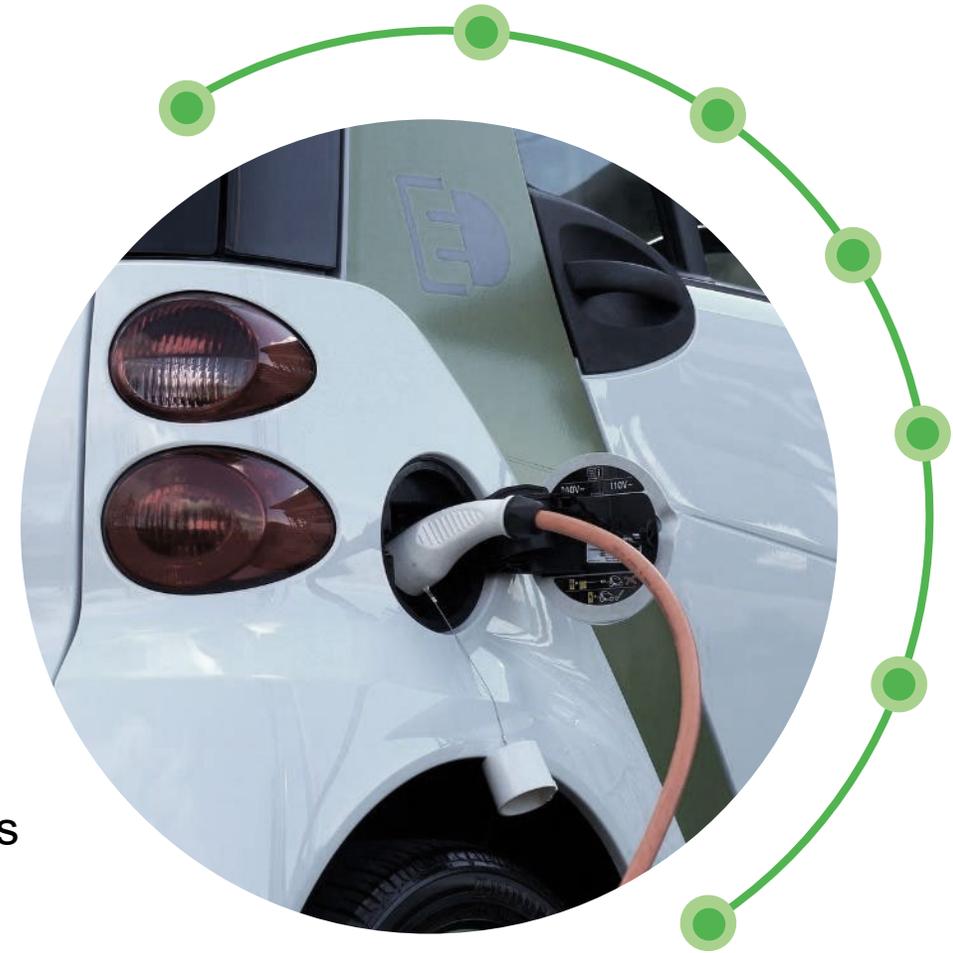
### CASE VEHICLES

- Connected vehicles as data generators
- Autonomous vehicles
- Shared vehicles/Mobility as a service platform
- Electric vehicles

### ADVANCED TECHNOLOGIES

- Applied artificial intelligence
- Machine learning
- Advanced connectivity
- IoT and IIoT
- Immersive-reality technologies
- Multicriteria analysis simulation
- Cloud and Edge computing

- Cybersecurity
- Humanoid robots
- 3D printing
- Blockchain**



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# FUTURE TRENDS IN MTA ECOSYSTEM AND IMPACT ON SMES



## ECONOMIC AND BUSINESS TRENDS

- From “made in China” to “made in Europe”
- Globalization and economic dependence
- Raw materials as key elements in the economy
- Uncontrolled and generalized price increase
- Consolidation of companies and new players
- Difficulty of suppliers to answer future challenges
- Agility and digital visibility of value chains
- Employee policies & workplaces
- Opportunities for entrepreneurs



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# FUTURE TRENDS IN MTA ECOSYSTEM AND IMPACT ON SMES



## GEOPOLITICAL TRENDS

- War in Ukraine
- EU restrictive measures against Russia
- Taiwan-China conflict
- New wave of COVID in China
- European Union's unity under pressure



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# FUTURE TRENDS IN MTA ECOSYSTEM AND IMPACT ON SMES



## GREEN TRANSFORMATION TRENDS

- Climate change
- Legislative framework: Green Deal, Euro 7
- Decarbonization of business models
- Sustainable consumption
- Sustainable logistic processes and product delivery
- The rise of circular economy
- Skills required for the green transition



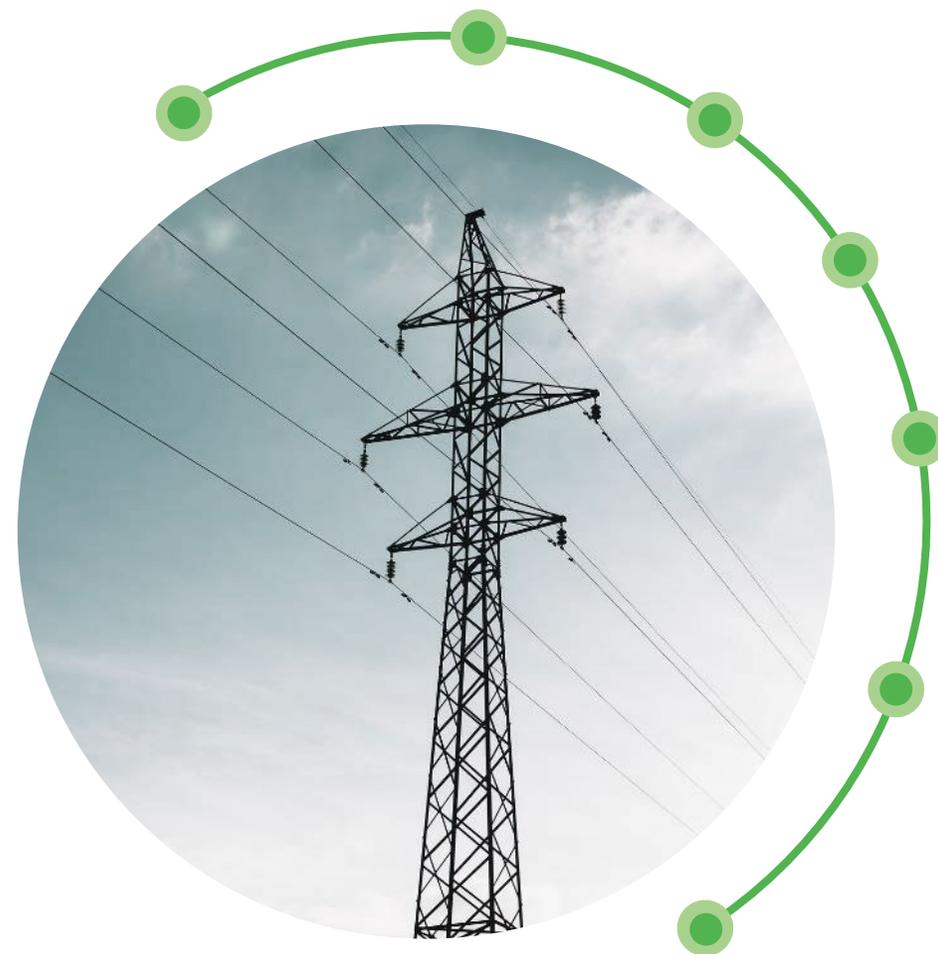
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# FUTURE TRENDS IN MTA ECOSYSTEM AND IMPACT ON SMES



## ENERGY TRENDS

- Energy prices will remain unstoppable
- Clean energy solutions
- Energy autonomy
- Energy flexibility
- Demand aggregation platform
- PPAs (Power Purchasing Agreements)
- Green hydrogen as an energy vector
- Energy communities
- Common energy policy at European level



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## VALUE CHAIN TRENDS

- Vulnerable supply chains and need for resilience
- Dependence on US and Asia of raw materials and strategic components (such as microchips)
- Road logistics facing the perfect storm
- Use of transport visibility platforms
- Use of intelligent traffic management systems



**MOST CRITICAL OBJECTIVES  
IN NEXT 5 YEARS**

Increase operational efficiency



Identify business opportunities in other industries



Develop other innovative products or services to access  
new business opportunities



Foster process digitalization, with the  
incorporation of advanced technologies



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# SOCIAL TRENDS RESULTS



Most valuable trends for SMEs at social level



## **Mobility solutions in broad sense**

Adaptation of the automotive and transport sector towards this concept (mobility as a service, mobile applications, etc.)

## **Digital customization of vehicles and limited editions**

Need to move towards a flexible production model

## **Greater boost to digital markets**

Digital consumers and increase of online sells



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Most valuable trends for SMEs at technological level



## **Machine learning**

Use of software and hardware solutions to accelerate the development and deployment of this technology, with the aim of supporting performance monitoring, stability, and ongoing improvement.

## **Engineering simulation multicriteria analysis**

Such as digital twins for vehicles, which gather data from different systems, analysing the use of the vehicle, the parts fatigue, etc.

## **Applied artificial intelligence**

Classification, prediction and control problems; automate activities; add/augment capabilities and offerings.

## **Inmersive-reality technologies**

VR, AR, mixed reality and digital twins



# ECONOMIC AND BUSINESS TRENDS RESULTS



Most valuable trends for SMEs at economic and business level

## **Embracing agility and digital visibility of value chain**

Companies should champion agility not only in business manufacturing and operations goals but also in their business mindset. In this sense, companies are already starting to invest in solutions (as open data ecosystems) to provide a higher visibility of the whole value chain.

## **New era of opportunities for entrepreneurs**

This is especially being promoted with the existence of business incubators, accelerators and dedicated EU programmes such as the European business exchange programme (between SMEs and young entrepreneurs).

## **Uncontrolled and generalized price increase**

This is affecting raw materials, energy, transport, etc.



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## VALUE CHAIN TRENDS RESULTS



Most valuable trends for SMEs at value chain level



### **Use of intelligent transport management systems**

They incorporate infrastructure sensor data, camera data and vehicle data, together with data on traffic lights and the surrounding environment, in order to consider aspects such as safety, efficiency, vehicle speed, air quality, congestion and vehicle routes.

### **Use of transport visibility platforms**

To allow logistics manager to control end-to-end processes (transport management, warehouse management, yard management, carbon emissions tracking, etc.)

### **Dependence on US and Asia of raw materials and strategic components**

Need for mergers and strategic alliances to strengthen the position of the MTA ecosystem in Europe, together with investments in relevant infrastructures and components, to cover identified gaps in Europe and strengthen our competitiveness position.



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# GREEN TRENDS RESULTS



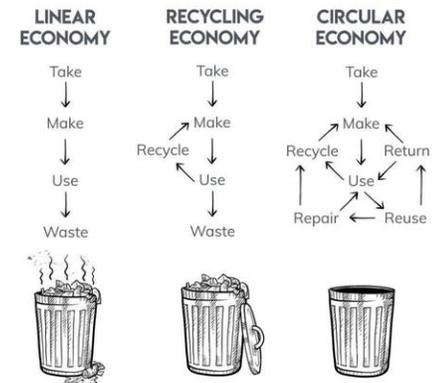
Most valuable trends for SMEs at green level

## Rise of circular economy

Model of production and consumption, which involves sharing, leasing, reusing, repairing, refurbishing and recycling existing materials and products as long as possible, thus extending the product life cycle.

## Move towards a more sustainable consumption

Both in individual and industrial terms, with the use of technology.



## Climate change

It is causing droughts, water shortages and other natural disasters, aggravating existing social and resource problems.



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Most valuable trends for SMEs at energy level

## **Energy flexibility**

The flexibility of customers to modify their energy consumption.

## **Power Purchasing Agreements**

Long-term bilateral contracts between photovoltaic wind farms and industry, which are profitable both for the buyer and the seller, as you skip the whole system.

## **Clean energy**

Clean energy solutions contribute to the reduction of net greenhouse gas emissions throughout the energy value chain, from generation to storage and distribution.

## **Energy prices will remain unstoppable**

Demand will have to adapt to supply. There is a surplus of renewables that are not being spent, so energy companies could offer time slots in which to charge only with renewables and thus adapt the price



# MAIN NEEDS OR PROBLEMS OF COMPANIES



## Training and employability

Maintaining and attracting people with skills to grow and develop in companies.



## Prices and materials

Concern about material shortages, dependence on other countries and price increases due to low offer.



## Projects and opportunities

Search for new projects to find partners, business opportunities, new customers and new markets



## Productivity

Improve the productivity of companies in all areas and to prevent production bottlenecks.



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# WHAT

## WE OFFER TO SMES?



### TRAINING



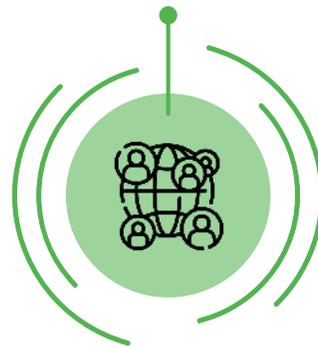
To foster upskilling and reskilling of the workforce whilst attracting talents

### NETWORKING



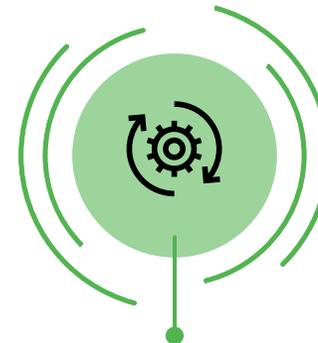
To improve the resilience of the industrial ecosystems by developing value chains

### GO INTERNATIONAL



To boost access to global supply and value chains

### ADAPTATION



Of processes and technologies to reinforce transformation

### INNOVATION



For strategic autonomy to build capacity in critical supplies and technologies



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# RESIST FUNDING OPPORTUNITIES

for SMEs in the Mobility, Transport  
and Automotive ecosystem



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# OPEN CALL

## COACHING & MENTORING

### OBJECTIVE

Financial support for hiring  
**external experts for  
assessments and feasibility  
studies**

### BUDGET

Total budget available  
**€ 190,000**

### DEADLINE

**Until 1<sup>st</sup> of Nov. 2024**  
Or until the available funds  
is spent



# OPEN CALL TRAINING

## OBJECTIVE

Financial support to  
**TRAINING SERVICES**

## BUDGET

Total budget available  
**€ 15,000**

## OPENING DATE

**November 30, 2023**

## WHO CAN APPLY



EUROPEAN SMEs



IN THE MOBILITY-TRANSPORT-AUTOMOTIVE ECOSYSTEM



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# OPEN CALL TRAINING

## MANDATORY to obtain funding MOOCS CERTIFICATE

- *The MOOCs selected must be relevant with the objectives of the RESIST Eurocluster.*
- *The MOOCs must be completed before the start date of the submission.*

**For a € 250 Online Voucher:**

**Participants must enroll in and successfully complete at least ONE MOOC from the ASA platform.**

**For a € 750 Physical Voucher:**

**Participants must enroll in and successfully complete at least TWO MOOCs from the ASA platform.**





# OPEN CALL

## NETWORKING AND MARKETING ACTIVITIES

### OBJECTIVE

Financial support to **networking and marketing activities**

### BUDGET

Total budget available  
**€ 15,000**

### DEADLINE

**December 20, 2024**  
Or until the available funds is spent

### WHO CAN APPLY



EUROPEAN SMEs



IN THE MOBILITY-TRANSPORT-AUTOMOTIVE ECOSYSTEM



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# OPEN CALL

## NETWORKING AND MARKETING ACTIVITIES

### ELIGIBLE ACTIVITIES



**Attendance to exhibitions**  
(except booth costs)



**Attendance to conferences  
and forums**



**Participation in  
matchmaking events**



**Participation in meetings  
with potential customers or  
suppliers**

### ELIGIBLE COSTS



**Registration fees**



**Transportation costs**  
(air, train, bus tickets, etc.)



**Accommodation costs**



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# OPEN CALL

## INTERNATIONALISATION

### OBJECTIVE

Financial support to  
**internationalisation activities**  
in non-EU third countries

### BUDGET

Total budget available  
**€ 30,000**

### DEADLINE

**December 20, 2024**  
or until the available funds are spent

### WHO CAN APPLY



EUROPEAN SMEs



IN THE MOBILITY-TRANSPORT-AUTOMOTIVE ECOSYSTEM



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# OPEN CALL

## INTERNATIONALISATION

### ELIGIBLE ACTIVITIES



Attendance to **exhibitions and trade fairs**  
(except booth costs)



Attendance to **conferences and forums**



Attendance to **in-person trainings or events on internationalisation**



Participation in **matchmaking events and meetings with potential customers or suppliers**

### ELIGIBLE COSTS



**Registration fees**



**Transportation costs**  
(air, train, bus tickets, etc.)



**Accommodation costs**



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# OPEN CALL

## INTERNATIONALISATION

### FINANCIAL SUPPORT

**€30,000**



#### INTERNATIONALISATION ACTIVITIES

Exhibitions, forums, conferences, trainings,  
matchmaking events and B2B/B2C meetings



**15 FSTP**

**€ 2,000/person\***

\*Maximum funding per SME and activity



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# OPEN CALL INNOVATION PROJECTS

## OBJECTIVE



Financial support to implement  
**innovation projects on green and digital transition**

## BUDGET



Total budget available  
**€ 800,000**

## DEADLINE



**December 12,  
2023**

## WHO CAN APPLY



EUROPEAN SMEs, Start-ups  
and Very Small Businesses



IN THE MOBILITY-TRANSPORT-AUTOMOTIVE ECOSYSTEM



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# OPEN CALL INNOVATION PROJECTS



## KEY CHALLENGES



1. Optimised digitalisation in my company through the incorporation of **advanced technologies**



2. Provide innovative solutions **to obtain greener production systems or products**



3. Turning to **renewable energy innovations** in my production line

## ELIGIBLE PROJECTS



INDIVIDUAL PROJECTS



CONSORTIUM PROJECTS



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# OPEN CALL INNOVATION PROJECTS



## FINANCIAL SUPPORT

Up to

**20 projects**

will obtain financial support



**INDIVIDUAL PROJECTS**

**€ 20,000/applicant**



**CONSORTIUM PROJECTS**

**€ 30,000/applicant**

**€ 90,000/consortium**

The budget is distributed through lump sums



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# OPEN CALL INNOVATION PROJECTS

## HOW TO APPLY

1

Log in to the Cluster Submission Platform



2

Fill in the Application Form

APPLICATION FORM RESIST - INNOVATION CALL

STEP 1 **STEP 2** STEP 3 STEP 4

Applying SME Company

Company legal name \*

Name of the cluster associated with, if any

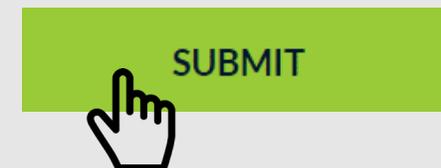
3

Complete, sign and upload the annexes available in step 4

- **Annex 1: Declarations** (truthfulness, data processing, SME condition)
- **Annex 2: Resilience Check** (document to audit your market situation, production and processes in the face of potential risks and future challenges).

4

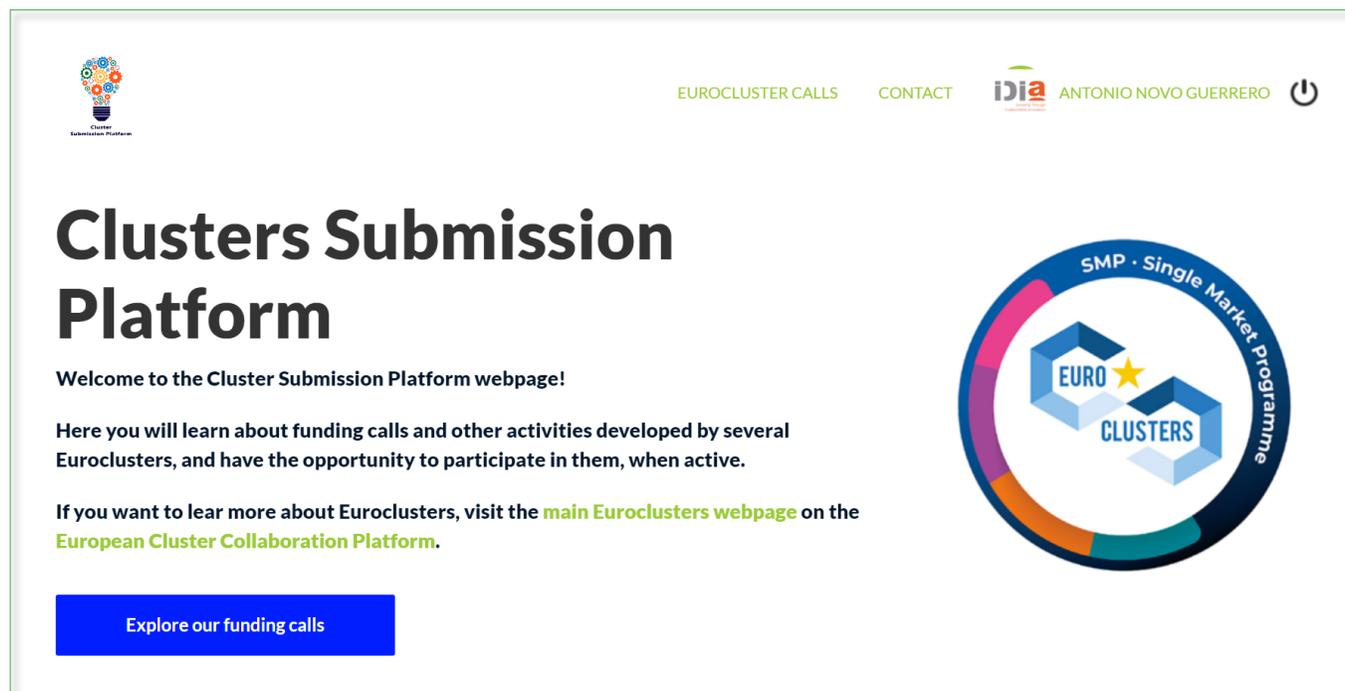
PRESS THE SUBMIT BUTTON!



# CLUSTER SUBMISSION PLATFORM

## THE SPACE TO BUILD AND PRESENT PROPOSALS

<https://clustersubmissionplatform.eu>



The screenshot shows the homepage of the Clusters Submission Platform. At the top left is a lightbulb icon with gears inside, labeled 'Cluster Submission Platform'. To the right are navigation links: 'EUROCLUSTER CALLS', 'CONTACT', and a logo for 'idia ANTONIO NOVO GUERRERO' with a power button icon. The main heading is 'Clusters Submission Platform'. Below it, a welcome message reads: 'Welcome to the Cluster Submission Platform webpage! Here you will learn about funding calls and other activities developed by several Euroclusters, and have the opportunity to participate in them, when active. If you want to learn more about Euroclusters, visit the [main Euroclusters webpage](#) on the [European Cluster Collaboration Platform](#).' A blue button labeled 'Explore our funding calls' is positioned at the bottom left. On the right side, there is a circular logo for 'SMP · Single Market Programme' containing the 'EURO CLUSTERS' logo.



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b2match

# MATCHMAKING SESSIONS

Contact with other SMEs and create  
consortium projects! 21.11.2023

[https://resist-matchmaking-  
platform.b2match.io/](https://resist-matchmaking-platform.b2match.io/)

CONTACT

[info@resisteurocluster.eu](mailto:info@resisteurocluster.eu)

Resilience Through Sustainable Processes and Production for the European Automotive Industry

21 November 2023

**RESIST FUNDING OPPORTUNITIES for SMEs in Mobility, Transport and Automotive & MATCHMAKING**

[Info](#) [How it works](#) [FAQ](#) [Contact](#)

Welcome to the Eurocluster RESIST matchmaking platform

Next event:

**RESIST FUNDING OPPORTUNITIES for SMEs in Mobility, Transport and Automotive & MATCHMAKING EVENT**

Informative session which aims to provide detailed info about the [RESIST Eurocluster open calls](#) and their application process. Attendants will be able to solve their questions, and find partners for possible joint innovation projects up to 90.000 EUR/project.

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# MORE INFORMATION



ECCP PLATFORM  
RESIST EUROCLUSTER



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**RESIST**



**AUTOKLASTR**



**Adam Priechodský**

Project manager ve společnosti Autoklastr



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