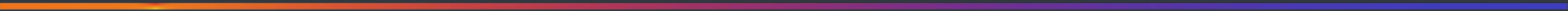




# COMP-ECO





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# ABOUT PROJECT

## PROJECT NAME:

STRENGTHENING MAZOVIAN MULTIFUNCTIONAL COMPOSITE ECOSYSTEM THROUGH  
A HOLISTIC APPROACH AND A STRATEGIC ALLIANCE WITH EUROPEAN LEADERS

## PROJECT DURATION:

3 YEARS (1 JANUARY 2023 TO 31 DECEMBER 2025)

## PROJECT BUDGET:

1 493 789 Euro





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# PROJECT CONSORTIUM



POLISH PARTNERS:



Technology Partners Foundation (TPF)



Airforce Institute of Technology (AFIT)



Warsaw University of Technology (WUT)



ADVANCED PARTNERS:



Technical University of Dresden



Technical University of Delft





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# PROJECT KEY OBJECTIVE

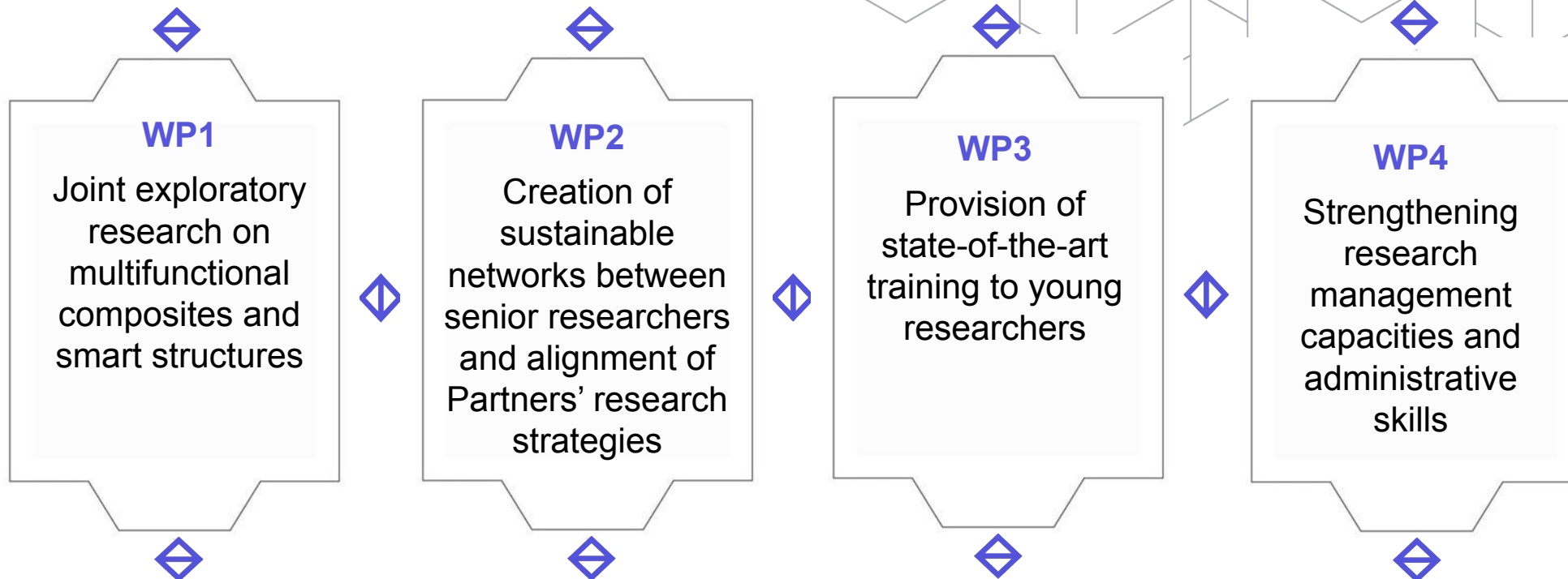
improve research excellence in the field of Fibre-Reinforced Polymer (FRP) multifunctional composites and smart structures of the Polish Mazovia region-based ecosystem formed by TPF, AFIT and WUT, and to create a sustainable network for scientific and technological co-operation with leading EU universities DELFT and DRESDEN.





# PROJECT STRUCTURE

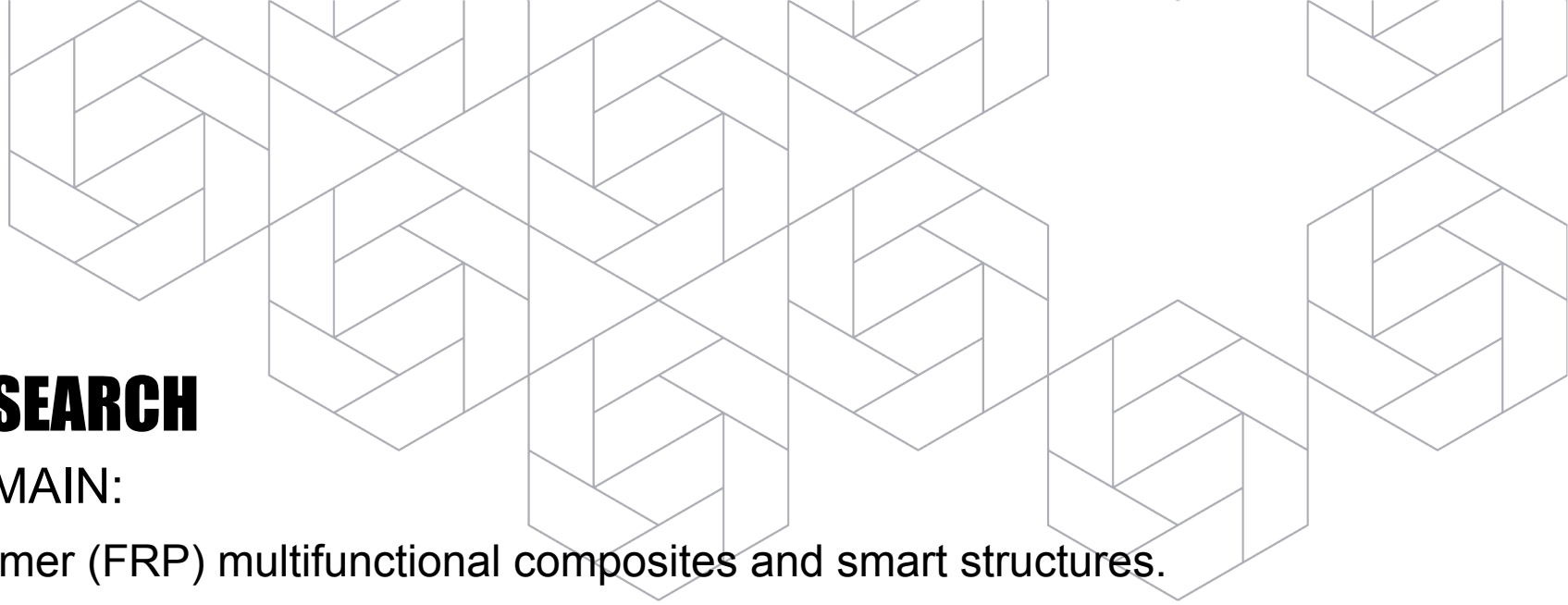
## WP6 Project Management and Coordination



## WP5 Dissemination, Exploitation and Communication



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# WORK PACKAGE 1 – JOINT EXPLORATORY RESEARCH

PROJECT RESEARCH DOMAIN:

Fibre-Reinforced Polymer (FRP) multifunctional composites and smart structures.

2 research  
capabilities will  
be  
investigated:



## Capability 1

development of self-diagnostics capabilities of the composite through the introduction of electroconductive CNTs in the composite's matrix during the manufacturing process.



## Capability 2

embedding PZT sensors, encapsulated in veils, in the composite structure.



# WORK PACKAGE 2 – CREATION OF SUSTAINABLE NETWORKS BETWEEN SENIOR RESEARCHERS AND ALIGNMENT OF RESEARCH STRATEGIES



Temporary  
Positions at  
DRESDEN &  
DELFT



The short-term positions of  
leading staff



2 from TPF, 3 from AFIT and 4  
from WUT



app. 2 months each



Elaboration of a  
joint long-term  
research  
co-operation  
Strategy



## WORK PACKAGE 3 – PROVISION OF STATE-OF-THE-ART TRAINING TO YOUNG RESEARCHERS

A series of comprehensive scientific workshops on  
Multifunctional Composites and Smart Structures:

- WS on DESIGN (in WUT, by M7 - July 2023)
- WS on PRODUCTION (DELFT, M14)
- WS on TESTING (DRESDEN, M20)
- WS on SUSTAINABILITY (DELFT, M27)

Early-stage researchers' externships - 1-2  
months stay

- 5 from AFIT -> DELFT and DRESDEN
- 5 from WUT -> DELFT and DRESDEN





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# WORK PACKAGE 4 – STRENGTHENING RESEARCH MANAGEMENT CAPACITIES AND ADMINISTRATIVE SKILLS

5 workshops in Warsaw, delivered by Advanced partners

- Horizon Europe and other funding schemes workshop  
(Delivered by DRESDEN) - [M7](#)
- Proposal Writing workshop  
(Delivered by DRESDEN) – [M7](#)
- Project Management and Administration workshop  
(Delivered by DELFT) – [M14](#)
- Best Practice in Scientific Paper Writing workshop  
(Delivered by DRESDEN) – [M20](#)
- Commercialisation and Patenting Strategies workshop  
(Delivered by DELFT) – [M14](#)





# WORK PACKAGE 5 – DISSEMINATION, EXPLOITATION AND COMMUNICATION

## DISSEMINATION

- On-line repository of Project materials
- 6+ joint publications in Open-Access journals
- 8+ conferences presentations
- 2+ exhibitions (incl. 1 booth)

## EXPLOITATION

- Roadmap for industrial implementation of Multifunctional Composites and Smart Structures
- Joint research strategy -> potential tri- or bilateral collaborative projects
- 0-1 patent applications
- Bringing research results to market

## COMMUNICATION

- Web and social media
- Internal communication (own partners channels)
- External communication (to local, regional, national stakeholders) – e.g. Mazovia Region innovation portal, NCBR, NCPs, Polish Composites Cluster, etc.





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THANK YOU FOR YOUR ATTENTION