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UFUK AVRUPA

Radiance MSCA

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REPUBLIC OF TÜRKİYE MINISTRY OF INDUSTRY AND TECHNOLOGY | #NATIONAL TECHNOLOGY INITIATIVE

COMPETITIVE SECTORS PROGRAMME

TÜBİTAK

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ARDEM PROJE AR-GE

1. Sustainable Water Management and Resource Efficiency
- Focus on optimizing water use in industrial, agricultural, and urban environments
- Supports EU Green Deal objectives and circular economy initiatives
- Aligns with Horizon Europe priorities for climate-resilient and sustainable resource management

2. Digital Transformation and Smart Monitoring Technologies
- Integration of IoT, AI, and data analytics for real-time monitoring and decision-support
- Development of scalable smart water management models and pilot applications
- Promotes cross-sectoral digital innovation in environmental monitoring

3. International Research & Innovation Collaboration
- Facilitates knowledge exchange and joint R&D between SMEs, universities, and research organizations
- Strengthens research–industry partnerships and capacity building across borders
- Supports the creation of prototypes, scaling of solutions, and measurable sustainability impact

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The Ardem team possesses extensive expertise in sustainable water management and resource efficiency, focusing on optimizing water use across industrial, agricultural, and urban environments in line with circular economy principles. They integrate IoT, AI, and data analytics to develop real-time monitoring and decision-support systems, enabling digital transformation in water management. The team actively engages in international research and innovation collaborations, partnering with universities, SMEs, and research organizations to co-develop prototypes, scale solutions, and achieve measurable sustainability impact. Ardem delivers innovative, scalable, and results-driven solutions for environmental monitoring and water management, fully aligned with Horizon Europe priorities and EU Green Deal objectives.

Ardem combines expertise in sustainable water management with advanced digital monitoring, using IoT and AI for real-time decision support. They collaborate internationally with universities, SMEs, and research centers to develop prototypes, scale solutions, and deliver measurable environmental and resource efficiency impacts aligned with EU Green Deal and Horizon Europe priorities.

The team excels in optimizing water use in industrial, agricultural, and urban systems, integrating smart technologies for monitoring and analytics. Through international R&D collaborations, Ardem fosters knowledge exchange, builds cross-border capacity, and drives innovative, scalable, and sustainable solutions for climate-resilient water management.

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Your Research Fields

Sustainable water management and efficient resource use in industrial, agricultural, and urban systems.

Climate-resilient water infrastructures and circular economy solutions for sustainable resource management.

Digital monitoring technologies integrating IoT, AI, and data analytics for environmental decision support.

International R&D collaboration, knowledge exchange, and prototype development for scalable innovation.

Your On-going Projects

Ardem is currently leading and participating in multiple projects focused on sustainable water management, smart monitoring, and digital transformation. Ongoing initiatives include the development of IoT- and AI-based water monitoring systems, circular economy pilots in industrial and agricultural settings, and international research collaborations with universities and SMEs to co-create scalable, climate-resilient solutions with measurable environmental impact.

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Project Idea

Development and international deployment of smart, sustainable water management solutions. Integrating IoT, AI, and real-time monitoring, the project aims to optimize water use in industrial, agricultural, and urban environments while promoting circular economy practices. **Deadline Dates:** Aligned with MSCA Staff Exchanges 2026 call schedule.

Objectives:

- Optimize water use and resource efficiency across multiple sectors.
- Implement smart monitoring technologies using IoT and AI.
- Foster international R&D collaboration between universities, SMEs, and research organizations.
- Develop prototypes and scale solutions with measurable environmental impact.

Project Idea

Expected Results:

- Functional smart water monitoring and decision-support systems.

- Scalable solutions demonstrating improved water efficiency and sustainability.

- Strengthened international research networks and knowledge exchange.

- Tangible contributions to EU Green Deal objectives and Horizon Europe priorities.

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Consortium - profile of known partners (if any)

No	Partner Name	Type	Country	Role in the Project
01	Greece	University	Greece	Partner
02	Spain	University	Spain	Partner
03	İtaly	University	İtaly	Partner
04	Romaniia	University	Romaniia	Partner
05				

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