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“Development of Monitoring and Removal strategies of Emerging Micropollutants in wastewater”

Περιγραφή Στόχων και Δράσεων του Ερευνητικού Έργου MOREM

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Α.Π.Θ.



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Scope of the project



idea



is to develop an integration methodology framework combining novel sampling, monitoring and removal strategies in order to manage and remove emerging micropollutants such as PPCPs and microplastics in wastewaters.

ΕΡΕΥΝΗΤΙΚΟ ΕΡΟ

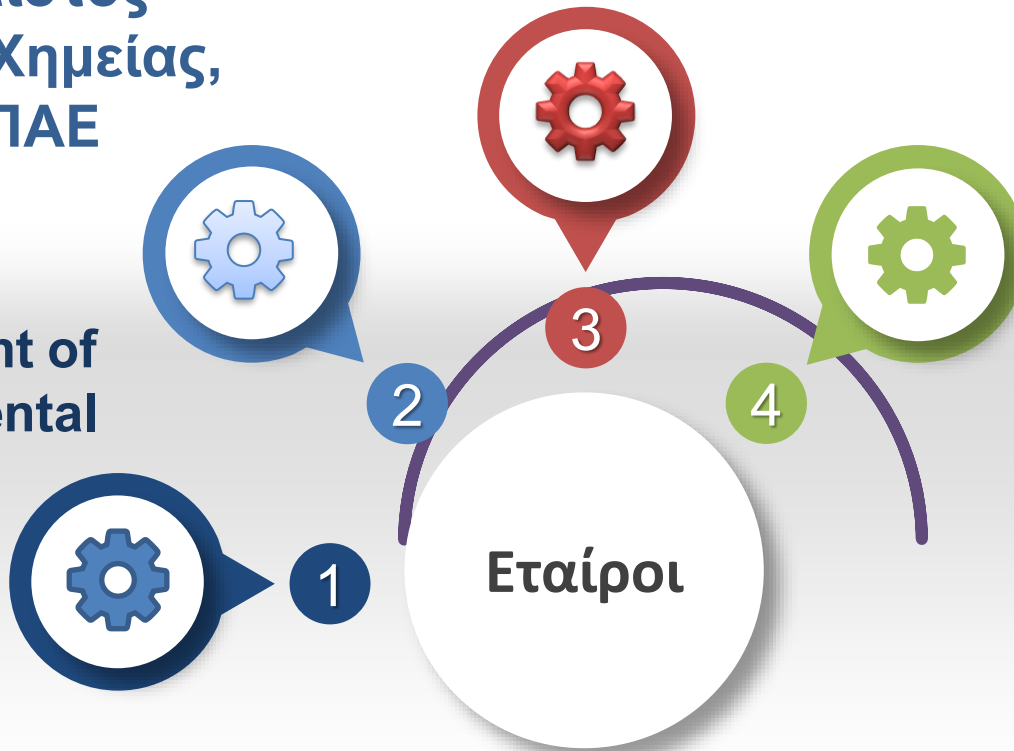
ΑΚΡΩΝΥΜΙΟ:	MOREM:
TITLE:	Development of Monitoring and Removal strategies of Emerging Micropollutants in wastewater
Ημερομηνία έναρξης:	14/11/2019
Ημερομηνία λήξης:	13/11/2022
Διάρκεια Προγράμματος:	36 μήνες
ΠΡΟΫΠΟΛΟΓΙΣΜΟΣ :	388.680,00 €
China	192.000,00 €
ΛΕΞΕΙΣ –ΚΛΕΙΔΙΑ:	Wastewaters, emerging contaminants, microplastics, SAPs, MIPs, AOPs
ΕΠΙΣΤΗΜΟΝΙΚΟ ΠΕΔΙΟ:	1. ΠΕΡΙΒΑΛΛΟΝ 2. Διαχείριση Υγρών Αποβλήτων

Εργαστήριο
Ήφαιστος
Τμήμα Χημείας,
ΔΙΠΑΕ

Τμήμα Χημείας,
ΑΠΘ – ΕΛΚΕ
ΕΕΡΠ, ΕΧΤΠ

Εταιρεία Ύδρευσης και
Αποχέτευσης
Θεσσαλονίκης
Ανώνυμη Εταιρεία
ΕΥΑΘ

Department of
Environmental
Science
Sun
Yat-sen
University
SYSU



The project is divided into three phases

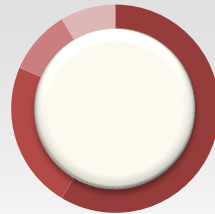
Microplastics



✓ **Emerging Contaminants**

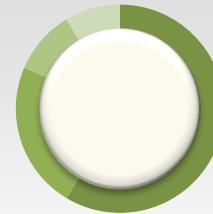
PPCPs, PFCs

❖ **by using novel Super-Adsorbent Materials (SAMs) and Molecularly Imprinted Polymers (MIPs) materials**



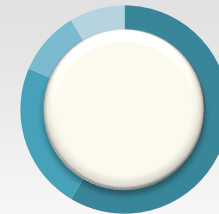
1st Phase

the monitoring of the PPCPs in WWTP



2nd Phase

removal approaches of PPCPs by using AOPs



3rd Phase

Sampling and monitoring or microplastics

Deliverables



Expected results

Network of laboratories Greece - China

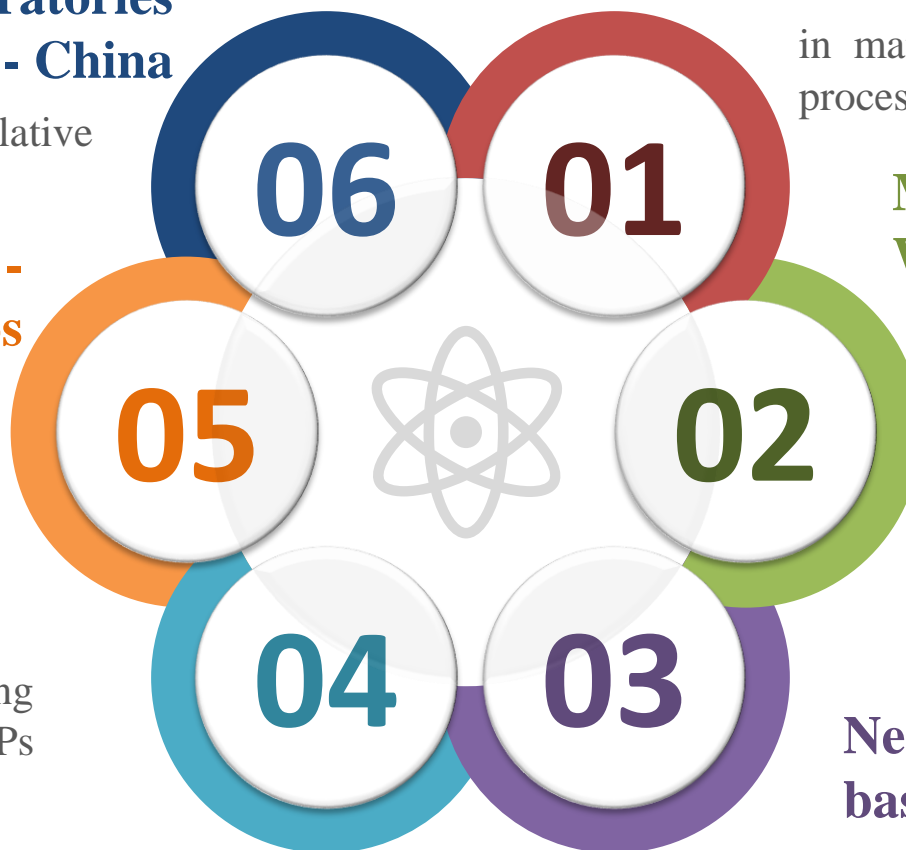
Collaboration in relative
topics in the future

Training - Workshops

Young Researchers,
students

New data on microplastics

Sampling and monitoring
in Greek WWTPs



Advance existing knowledge

in material design, synthesis,
process techniques

Monitoring of ECs in WWTPs

new insights on the
occurrence, behaviour
and effects of PPCPs and
their TPs in WWTPs in
Greece.

New photocatalysts based on TiO₂

Heterogeneous photocatalysis
for removal of PPCPs

