

Plastics Fate and Effects in the Human Body

Overview:

PlasticsFatE (Plastics Fate and Effects in the human body) is a 48-month project funded by the Horizon 2020 Research and Innovation programme of the European Union.

The main goal of **PlasticsFatE** is to improve our present understanding of the impact of micro- and nano-plastics (MP/NP) and associated additives/adsorbed contaminants (A/C) in the human body.

The project will run from the 1st April 2021 to 31st March 2025.

The Consortium:

28 partners from **11** European countries:

- 7** private-public research organizations (ISTEC-CEN, CSIC, ITENE, UFZ, FHG, IGB, GAIKER),
- 4** national governmental agencies (STAMI, BAM, NRCWE, UBA),
- 2** medical research centers (UMCU FAU),
- 9** universities (WFSR, ULEIDEN, UL, BOKU, UBT, UNITO, URTV, UP, NTUA),
- 5** SMEs (ENAS, ERS, INNOSIEVE DIAGNOSTICS, OPTIMAT, DECHEMA),
- 1** large company (ECAMRICERT)



Main Objective:

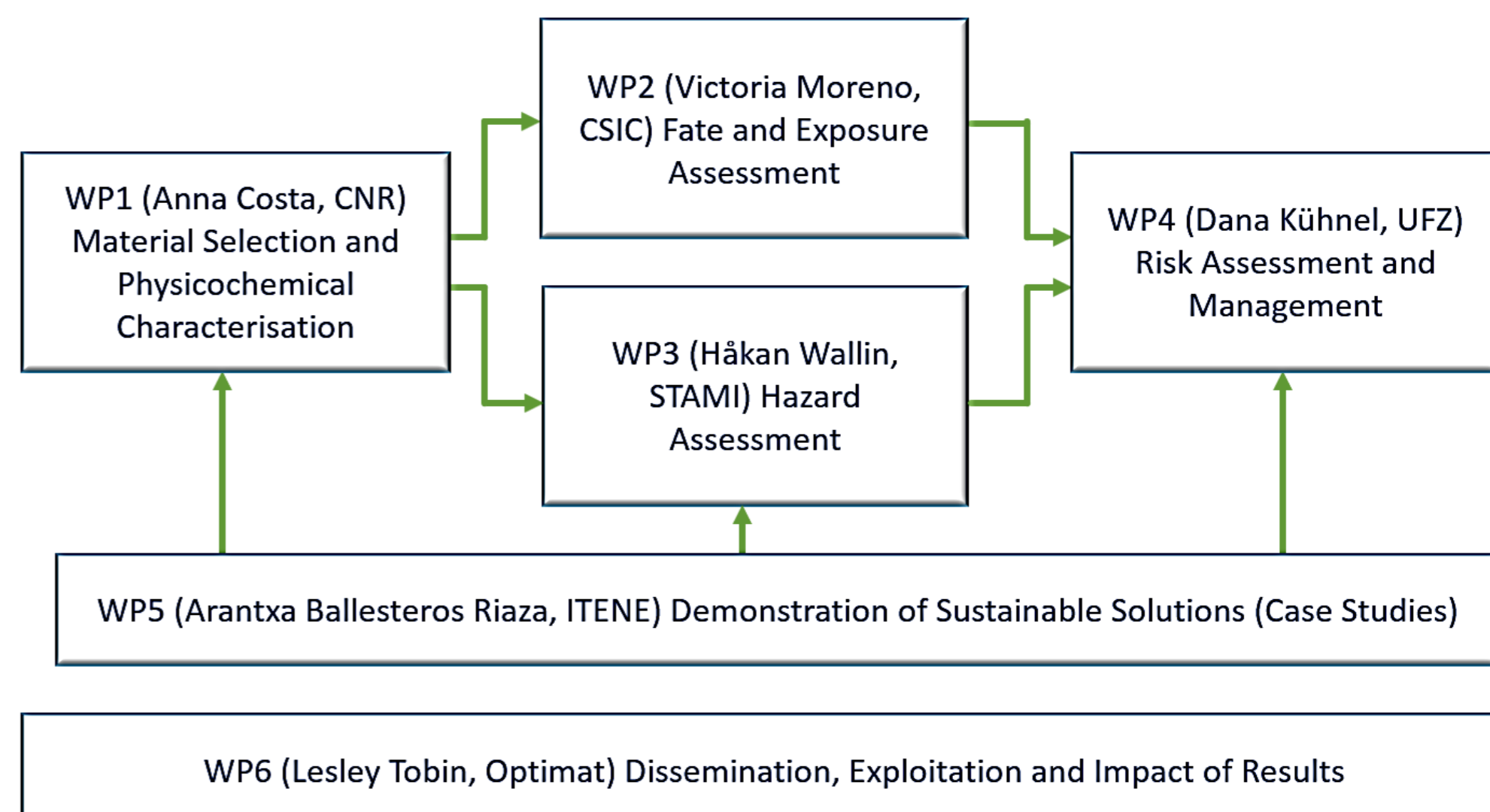
To improve our present understanding of the impact of micro- and nano-plastics (MP/NP) and associated additives/adsorbed contaminants (A/C) in the human body

Specific Objectives:

- Develop a panel of well characterized MNP **test and reference materials**
- Establish **validated methods** for measuring MNP in complex matrices
- Assessing **exposure levels/sources** (food, drinking water, air, human tissue, blood, faeces, urine, mucus, personal care products) and **fate** of MNP in the human body
- Develop **in vitro/in vivo models** and study **effects** of MNP in the human body
- Generate **integrated human risk assessment and management strategy** for MNP
- **Demonstrate feasibility** of established methodologies by case studies
- Contribution to relevant **EU strategies** and **international standardisation**

The Work Plan:

WP7 (Rudolf Reuther, ENAS) Scientific Coordinator; (Mark Morrison, Optimat) Project Coordinator; (Nadine Bresch, ERS) Project Management



CUSP-Research – The New MNP Cluster:

PlasticsFatE will actively collaborate in the MNP Health Cluster with four other projects funded under the same call: AURORA, ImpTox, PLASTICHEAL and POLYRISK. This will include working groups, regular common activities and close collaboration with the JRC.

COORDINATION AND MANAGEMENT:

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|-----------------------------|-----------------------------|---|
| • Scientific coordination: | Rudolf Reuther, ENAS (DE) | rudolf.reuther@enas-online.com |
| • Project coordination: | Mark Morrison, Optimat (UK) | mark.morrison@optimat.co.uk |
| • Project management: | Nadine Bresch, ERS (DE) | nadine.bresch@european-research-services.eu |
| • Dissemination management: | Lesley Tobin, Optimat (UK) | lesley.tobin@optimat.co.uk |

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