

# RECUPERO DI MATERIE DA RAEE/ R1-R2

The main objective of the project is the **development of highly repeatable and rapidly transferable technologies to the industrial world**, aimed at optimizing the management of critical aspects of state-of-the-art WEEE treatment technologies.

In particular, the project goals are:

- **recovery of polyurethane from refrigerators (RAEE R1)** as secondary raw material
- **optimization of the separation of cement from the washing machine carcass (RAEE R2).**

The expected results are:

- a **descriptive, representative and unique description of the polyurethane waste** coming from the treatment of RAEE WEEE (CER 19 12 04);
- a **standard product presentation, marketable as secondary raw material**, for each of the recovery opportunities under consideration;
- **the project**, in all its phases, **of a full scale process line** dedicated to the refining of the polyurethane generated by the R1 line of the TBD plant;
- a **prototype machine for cutting the carcasses of washing machines** aimed at extracting the counterweight in cement.

## PROJECT DURATION

30 months  
(from 14/01/2019 to 07/08/2021)

## PARTNERS

- Politecnico di Torino – DIATI (Coordinator)
- Politecnico di Torino – DIMEAS
- AMIAT
- APIRAEE
- Chiaro Macchine Speciali
- IREN Ambiente

## FUNDING INSTRUMENT

Research Projects on Structural and National Funds

## BUDGET

Total Funding: **600.000 €** (150.156 € allocated to DIATI)

## POLITO and DIATI's role:

For Politecnico di Torino, the project involves DIATI and DIMEAS departments.

(Project coordination: DIATI)

Scientific manager for DIATI:

Prof. **Silvia Fiore**



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