

# Interreg



UNIONE EUROPEA  
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## ITALIA-SLOVENIJA



### RETRACKING

Progetto standard co-finanziato dal Fondo europeo di sviluppo regionale  
Standardni projekt sofinancira Evropski sklad za regionalni razvoj

# 2nd International Conference Retracking

## Traceability of GFRP and products containing GFRP

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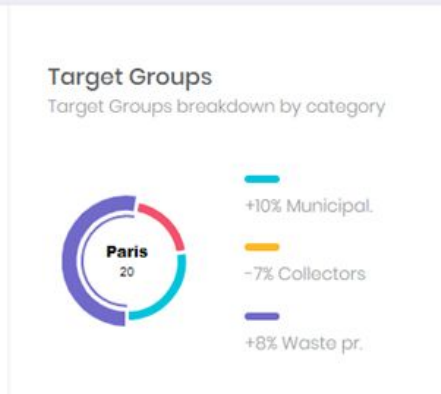
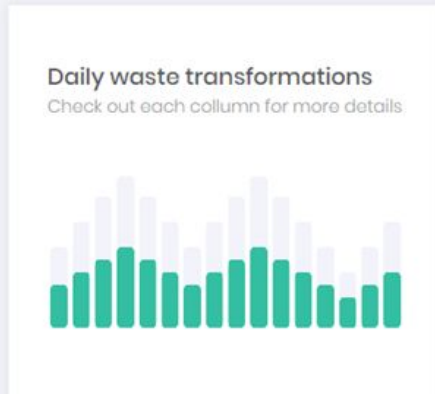
[www.ita-slo.eu/retracking](http://www.ita-slo.eu/retracking)



# Web Platform Retracking



- Dashboard
- Surveys
- Anagrafiche
- Wasto Disposal
- Recycling Process
- Configuration
- Roles



# FRC Waste Acceptance Protocol

The web platform was developed according to an acceptance protocol.

Acceptance of inert FRC based waste, mainly from production of FRC based products

(e.g. wastes from group 12, especially 12 01 05 (FRC plastics shavings and turnings))



# Waste recycling management

## Disposal

Disposal request with analysis  
Offer -> Order confirmation -> Shipment



## New Product

Put on the market new product based on FRC with RFID Chip for tracking

## Recycling process

Waste enrollment at recycling point  
Shredding -> Second raw material  
Panel creation with RFID Chip inside



# Waste enrollment workflow

## **disposal request**

- fill in the request and contribution form
- waste analysis annex and other documents

## **acceptance request for disposal and submission of offers**

## **offer acceptance and order submission**

## **waste shipment planning**

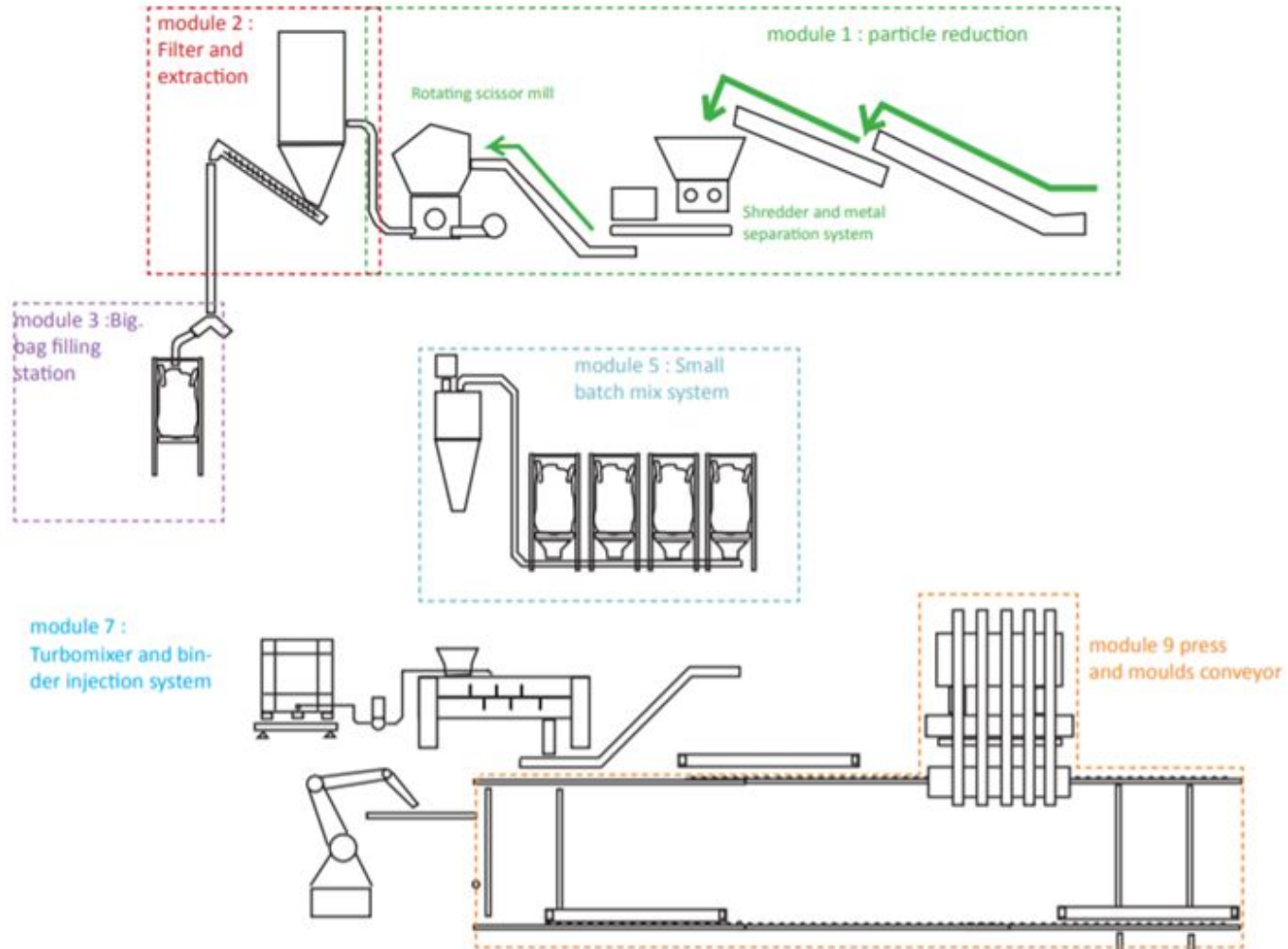
## **arrival / acceptance of waste**

- processing (shredding) waste
- storage in large bags or silos

## **invoice sending**



# Waste Enrollment process



# RFID chip positioning

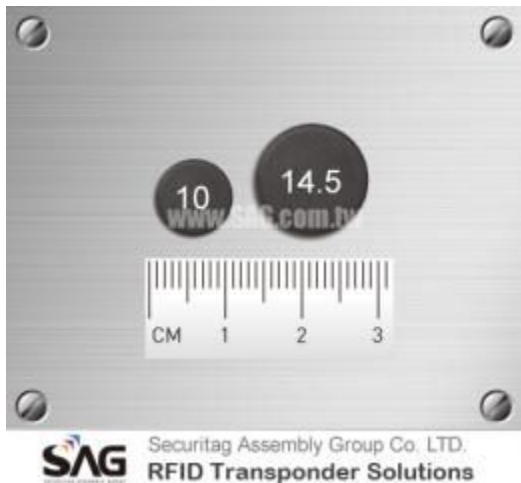
RFID chip are inserted during panel cooking.

Special tag are used in order to resist to pressure up to 5 MPa and temperatures between 130°C and 140°C

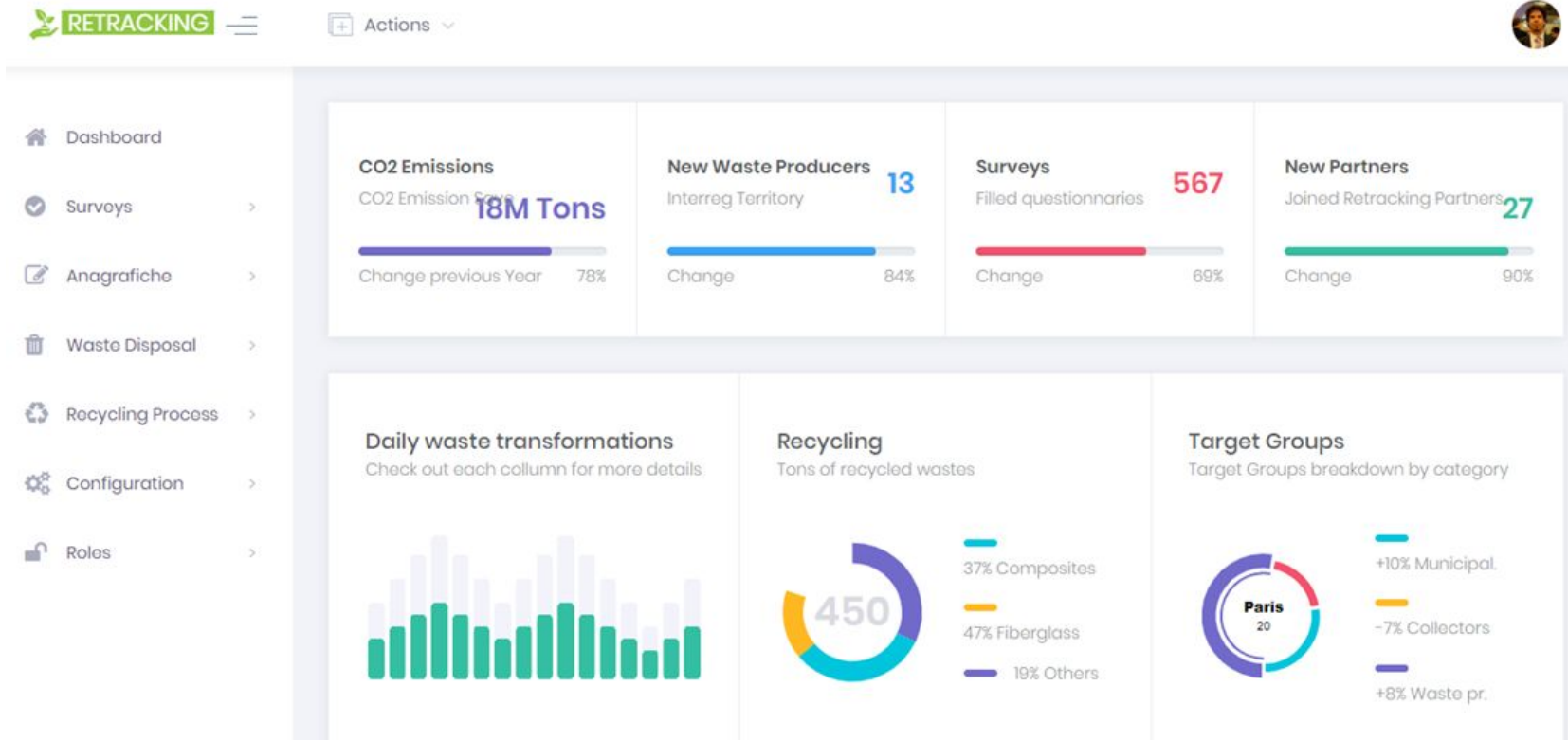




# RFID chip examples



# Retracking web platform



# Retracking Mobile App

An Android™ application to manage waste disposal and production process designed for

- waste producers
- shippers
- waste management managers
- operators at recycling plant
- resellers



# Retracking Mobile App

The app is designed for management of:

- **Waste disposal**

collect photos, fill specifications

- **Waste collection and shipment**

track collection, create shipment labels

- **Enrollment process**

manage checking and quality check

- **Panel identification**

retrieve data from RFID chip, stock management, quality control



# FRC Target Groups surveys

Separately, the survey form will be used for the collection of statistical data related to Fiber Reinforced Composites (FRC) through questionnaires and surveys for the various target groups such as:

- producers (companies producing products that use CFRs)
- collectors (landfills, ecological islands, transporters dealing with CFR)
- transformers (companies that transform waste)
- users (citizens)





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# Project partners



Polo Tecnologico di Pordenone (IT)



Gees Recycling (IT)



Zavod za gradbeništvo Slovenije (SLO)



Infordata Sistemi Srl (IT)



Gospodarska zbornica Slovenije (SLO)

