



European Factory
Platform

ReScrapIt

EFPF Open Call Pitching and Exhibition

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About Future Intelligence

- Telecom Engineering
 - IoT, sensors, weather stations, cyber security, cloud & edge computing and services
 - Industry 4.0, Smart Cities/Infrastructure, Energy, Smart Agriculture

● Project Overview

ReScrapIt: Development of a new Digital SI Catalogue Service for the optimum destination of industrial Scrap Items

● Main idea/concept

- Industrial SIs/waste are managed in a time-consuming and inefficient way
- ReScrapIt aims to provide a tool for efficiently managing the SIs, by offering the optimum destinations possible, with respect to the SI features and criteria

Problem Statement

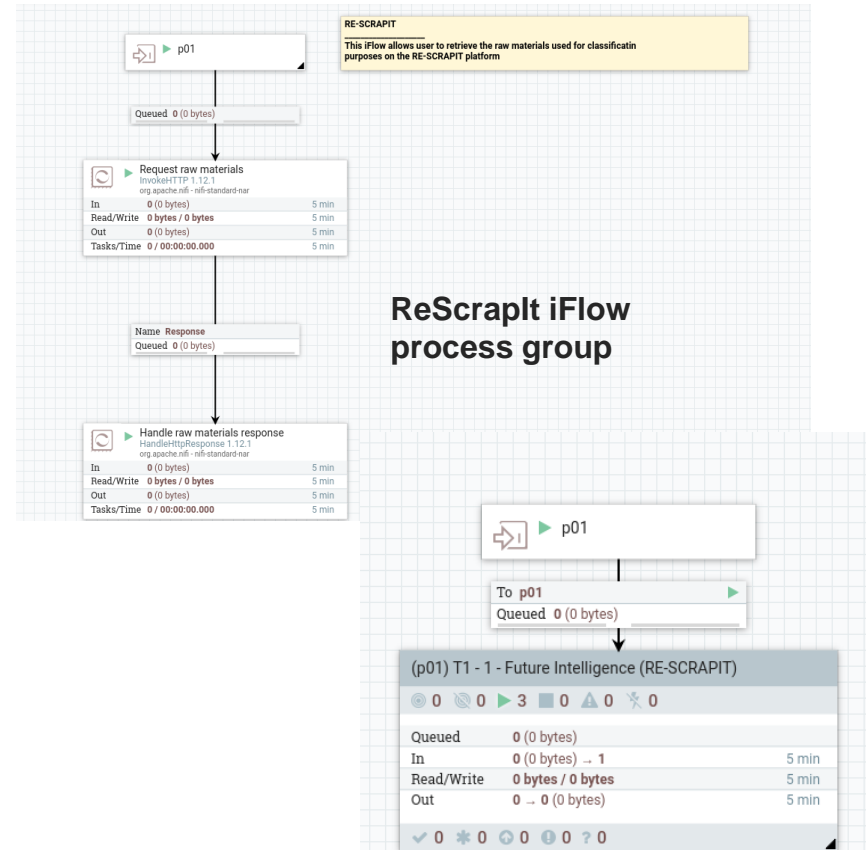
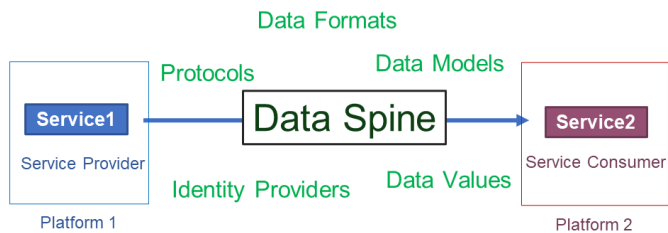
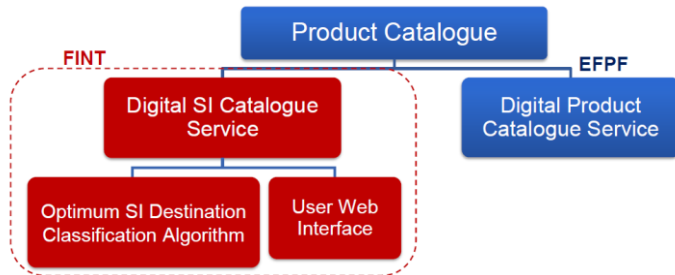
- Manufactured Products exploited through Product Catalogue
- What happens with manufacturing scraps?

One person's trash is another person's treasure!

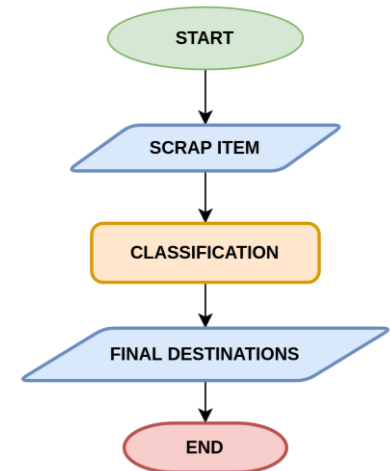
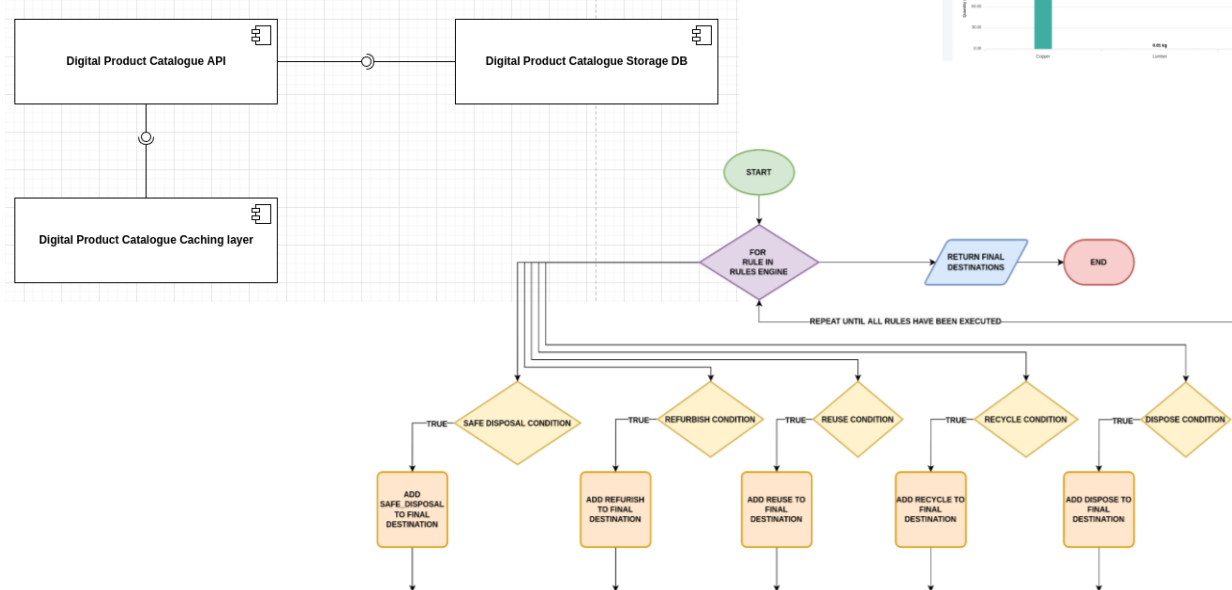
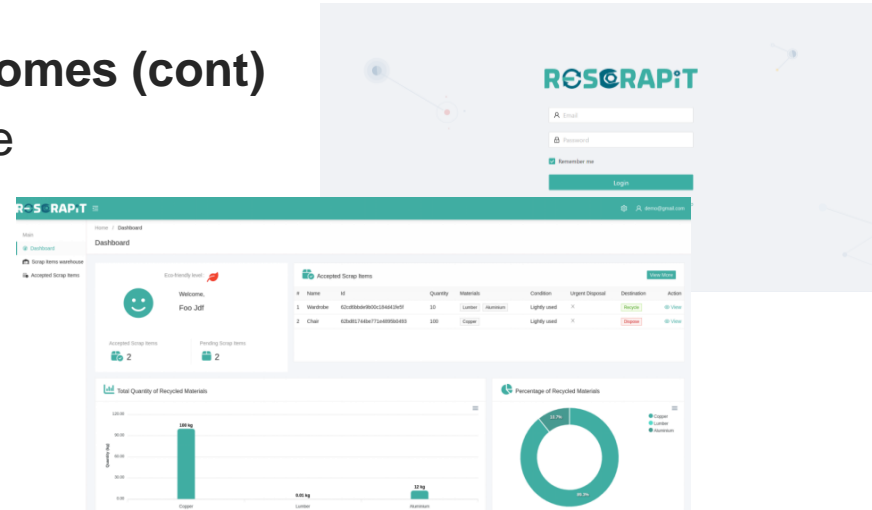
Project Objectives

- Contribution to next generation manufacturing systems and Industry 4.0 with respect to recycle, reuse and safe disposal of old/defective equipment or products, raw materials and waste
 - Supporting Circular economy
 - Offering environmental benefits
- New service for the EFPP platform
 - Attractive to new & existing customers

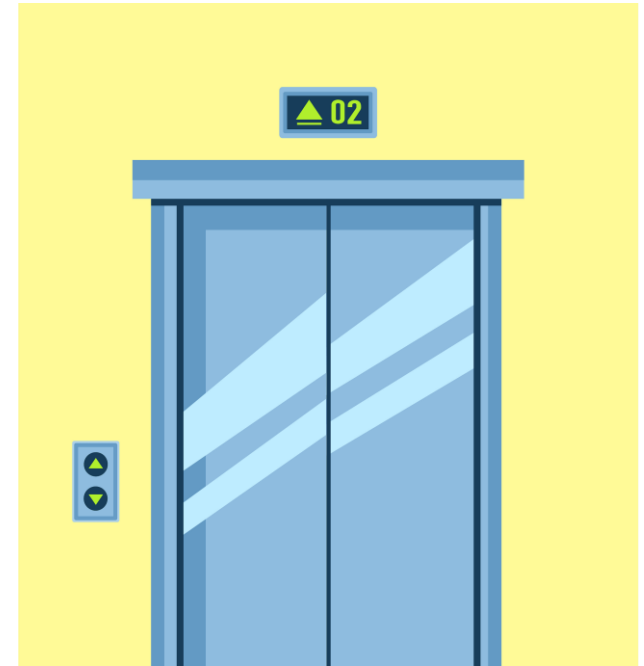
- **Technical Achievements and Outcomes**
 - ReScrapit: new offering in the Marketplace
 - User Interface
 - Classification Algorithm
 - Backend solution & API



- **Technical Achievements and Outcomes (cont)**
 - New Digital SI Catalogue Service
 - User Interface
 - Classification Algorithm
 - Backend solution & API

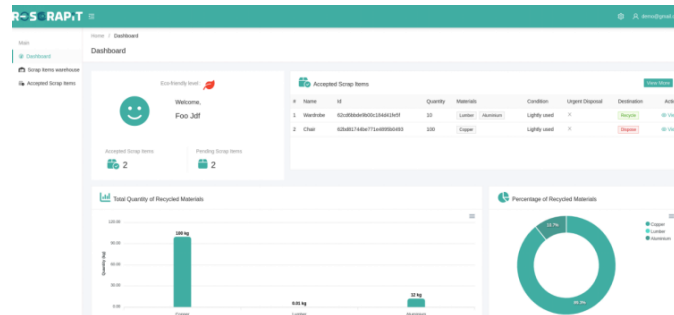


- A 70% success factor of the algorithm's decision regarding the correct destination of the SI, when the algorithm has been trained using dummy data sets.
- Real Use of the application by **KLEEMANN** → **feedback:**
 - Easy to use tool
 - Functions and capabilities of the tool are well visible and usable
 - Confident and comfortable using this tool
 - Scrap Item eco-friendly level is a very useful information → can be used by end-users as an environmental criterion for business development, supplier selection etc.



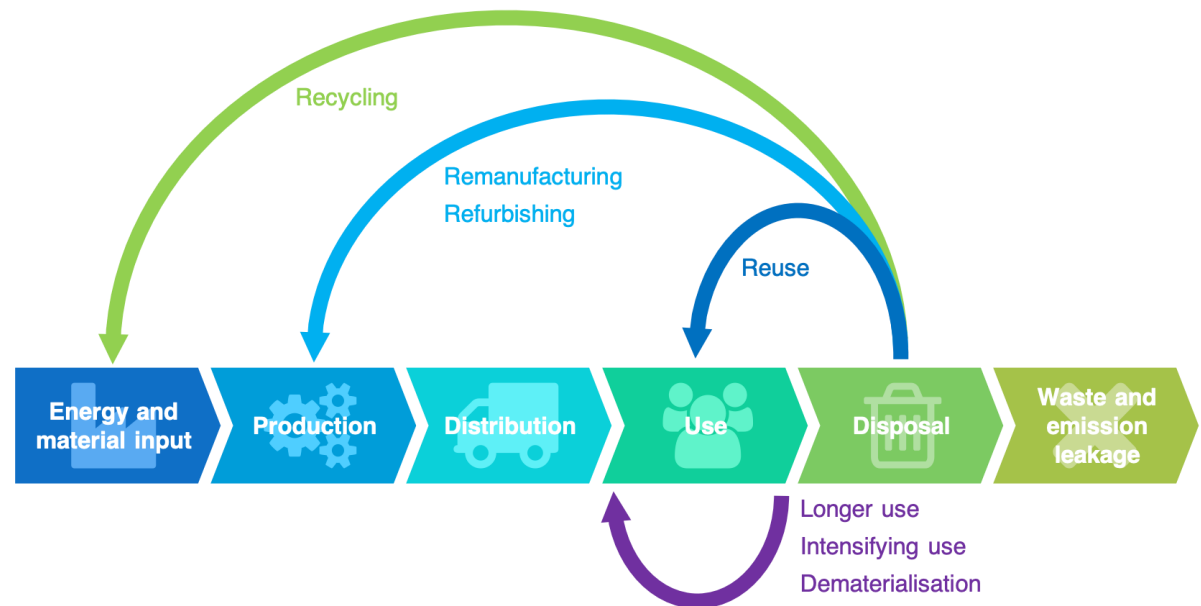
- **KLEEMANN → Suggestions:**

- Main dashboard: group info in time periods (1 month, 3months or 1 year) – based on user requests.
- Final disposal/recyclable material confirmation should be provided. The quantity given should be the same as the quantity recycled, disposed or managed.
- “View scrap item” should be exported as a pdf report.
- Additional tab: “material images” → useful in order to evaluate (at a photo level) the declared condition (lightly used, mediumly used, new etc.).



● Benefits:

- Automated solution for safe disposal of scrap items → time & cost savings;
- Optimised destination choices based on environmental friendliness, cost, safety, etc. → better motivates manufacturer's environmental awareness;
- Refurbishment an option wherever applicable → promotes circular economy;





RESORAPiT

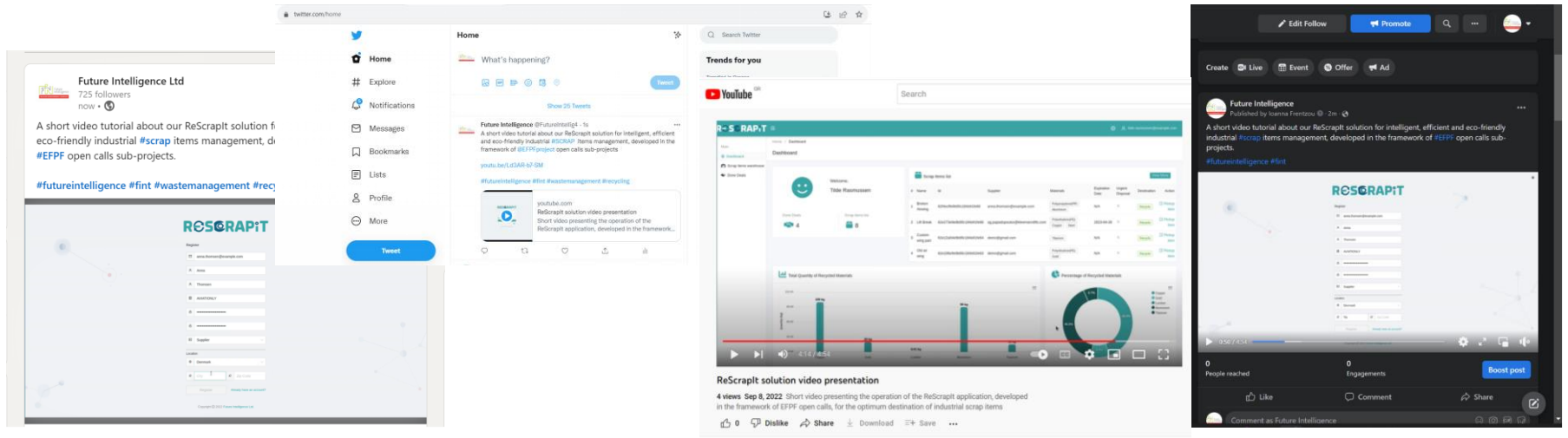
Dissemination Results

- Posts in FINT's Social Media
- [RECLAIM](#) & [OPTIMAI](#) H2020 projects
- [I4bydesign](#)



Initial Exploitation Plan related to EFPF outcomes

- Commercialisation through our research and business partnerships
- EFPF ecosystem
- I4bydesign competence center for Industry 4.0



- **Conclusions:**

- Strengthening our presence in Industry 4.0 → contribution to Industry 4.0;
- Supporting our position in the EFPP/EFF ecosystem → opportunity to promote our ReScrapIt solution;
- Strengthening of own technical know-how (algorithmic, integration with Data Spine, etc.)

- **Upgrades:**

- Enhancement of ReScrapIt solution with traceability functionality → utilising FINT's traceability agri-solution → Traceability on products as well;
- Inclusion of financial transactions between stakeholders (blockchain, etc.).



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Thank you for your attention!