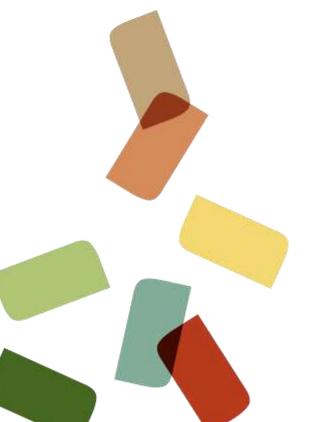




PINACLE

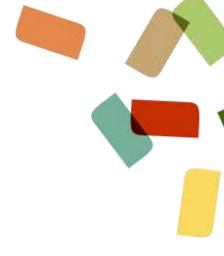


Personalised Healthy Diets and Food Waste Reduction

DRG4Food & FOODITY Final Conference | 22/10/2025

Problem

 "Each year the EU generates nearly 60 million tones of food waste - an average of about 132 kg per person"





Problem

- "Each year the EU generates nearly 60 million tones of food waste - an average of about 132 kg per person"
- Meanwhile over 42 million EU citizens cannot afford a proper meal with meat, fish, or a vegetarian equivalent every other day*

^{*}Eurostat 2024

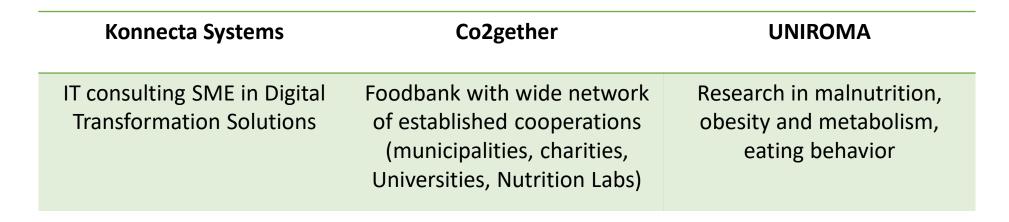


Problem

- "Each year the EU generates nearly 60 million tones of food waste - an average of about 132 kg per person"
- Meanwhile over 42 million EU citizens cannot afford a proper meal with meat, fish, or a vegetarian equivalent every other day
- Specific challenges:
 - No Targeted Nutrition: no matching of food donations with dietary and nutritional needs of food recipients
 - Data privacy and Trust: need to ensure data protection and trusted exchanges (food banks, intermediaries, recipients)
 - Food Waste Reduction: inefficiencies in current food redistribution systems



Team











Solution





- Al-based personalised meal plans, based on user profiles
- Cutting-edge technologies (Blockchain, ZKPs) to enable trust and data protection
- Food waste reduction by streamlining food redistribution networks





Value Proposition

- Food Banks/volunteers:
 - Simplified workflows and automated assignment logic through mobile-first interfaces
 - Compliance with regulations and standards (GDPR, eIDAS, EUDI Wallet)
 - Modular backend system compatible with standard ERP frameworks used by Food Banks in Greece and across the EU
- Food Recipients:
 - Personalised, culturally sensitive meal plans
 - EBSI-compliant identities (European Blockchain Services Infrastructure)
 - Enable citizens across the EU to use their digital identities in PINACLE
- Municipal Programmes: standardised and auditable process to track food-aid distribution and associated outcomes



Methodology







- Mobile app for Food recipients
- Web app for Food Bank admin
- Al-based nutrition recommendation system based on Food Bank inventory
- Decentralised Identity Management
- Privacy-preserving Access Control
- DLT-based auditability
- Co-designed and validated with real end-users



Achieved Results

- Hands-on workshops with food bank volunteers
- Workshops with municipal social services in Western Greece
- Regulatory compliance (data, identity)
- Pilots with multiple target groups (elderly, Roma communities, families in need) ~100 recipients and volunteers
- Pilots showed:
 - 30% increase in Food Bank operation efficiency (improved distribution)
 - Food waste reduction
 - Increased wellness of food recipients adopting healthier diets

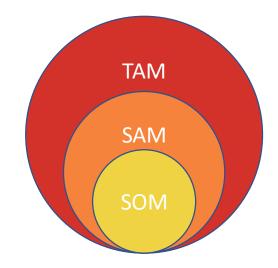






Market

- FEBA's 352 Food Banks and their networks (44,374 charities) serve 12.8M people (FEBA, 2024)
- TAM (Total Addressable Market): 350-450 food-aid operators.
- SAM (Serviceable Available Market): 100-150 organisations across Europe's FEBA network and national/regional banks with municipal links
- SOM (Serviceable Obtainable Market):
 - 10 organisations within 18 months,
 - 4-5 lighthouse pilots, start with Greece and expand to other FEBA affiliates in Central, Eastern, Southern and Western Europe depending on readiness.





Competitor Analysis

Competitors

Link2Feed,
FoodCloud, Too
Good To Go and
YAZIO address
parts of the food
distribution or
nutrition
ecosystem

PINACLE Added Value

- Human-centred
- Food Bank integration
- Auditability
- Regulatory compliance

DRGs

- Privacy-bydesign (ZKPs)
- Self-Sovereign Identities (SSI)
- Transparency through DLTs
- Co-designed and validated with end-users

Integration & Compliance

- Aligned with EU regulations for data protection and eIDs (GDPR, eIDAS)
- Connector with Food Bank ERP



Future Plans

- Integrate final user feedback in the apps, from the workshops in September
- Request the onboarding of PINACLE use case in EBSI
- Present PINACLE to FEBA
- Reach out to Municipalities
- Deploy and configure PINACLE in the Food Bank of Western Greece for long-term operation





Meet us in our booth!



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