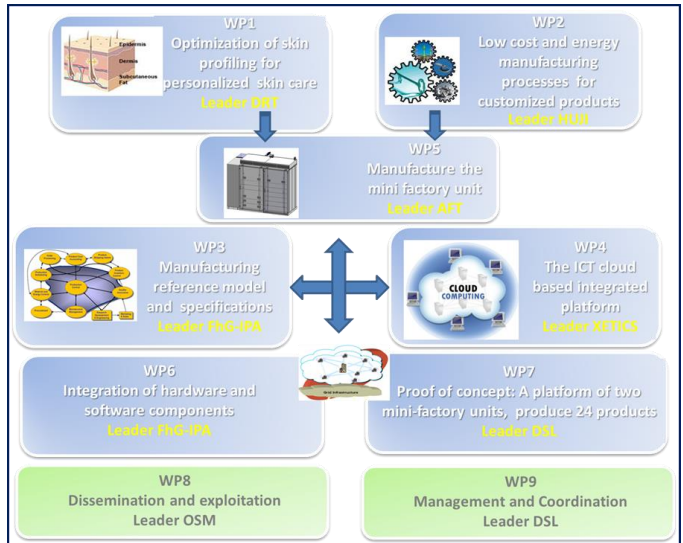


## SuperFlex – FP7 Integrated Project

<http://fp7-superflex.eu/>

The SuperFlex project, aims to develop and demonstrate the concept of modular mini-factory (stationary or mobile-‘in container’) to manufacture personalized skincare products for the elderly population. The project will design, produce and demonstrate an on-site manufacturing platform based on modular min-factory units and an ICT cloud-based platform. The concept will be low cost and environmentally friendly. The novel products will be personalized and designed to answer to the elderly specific skin profiles derived from the customers’ skin biomarkers and health status.



## Role of Ascend Technologies Ltd in the SuperFlex project

Develop the Decision support system (DSS) for skincare formulation according to skin profile for product customization:

- Mathematical models and algorithms for personal products
- Classification of customers’ skin condition, based on biomarkers and individual data, and definition of algorithms for personalized product formulation
- Design and develop algorithm for personalized formulation which will define the required formulation/treatment based on the customer's condition
- Implement the developed algorithm in the DSS and the ICT cloud based integrated platform
- Test and demonstrate the successful operation of the DSS during the field trials

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The algorithm for classification of the customer's biomarkers and selection of appropriate formulation/treatment will be performed by using a supervised machine learning classification algorithm in order to determine the customer's biomarkers and individual data (BID) and customer's preferences that fit the predetermined pattern for the specific formulation/treatment.