

Developing new process technologies in order to realize a new generation of customized, eco-friendly, safe, healthy and smart work wear and sportswear products for elderly, obese, diabetics and disabled people is the MyWear goal.



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On the 27th and 28th February, was held in Porto (Portugal), the iTechStyle Innovation Business Fórum® which is an innovation promotion initiative that aims to support and promote innovation within the textile & clothing value chain, through the showcase and highlight of innovative products, concepts and ideas, as well as supporting the entrepreneurship spirit.

The iTechStyle Forum focused in stimulating networking among players from the technical and fashion textiles and clothing and also between those and other players belonging to complementary application sectors, always following a spirit of bringing together ideas, potential investors and stakeholders.

The iTechStyle Forum put all efforts in order to "Make it happen" by helping new business ideas, new projects and new concepts to find its way to market. The ultimate objective was to contribute to the shaping of a brand new textile & clothing industry generation, powered by innovative and high added value products and services.

The iTechStyle Forum, integrated 5 initiatives/areas as shown below:

This event received almost 5 100 visitors (4 629 domestic and 462 international) and 300 exhibitors in different categories, manufacturers clothing man-woman, lingerie, children and textiles.

A showcase of opportunities! The R&D Projects and New Concepts showcase was the place to present and demonstrate R&D projects (starting, on-going or recently concluded) and innovative concepts, both at national and international level. The MyWear project has been present in this space.



 Textiles Forum Technical and Innovative Fabrics	 Innovative Products Showcase
 R&D Projects and New Concepts Showcase	 Communication Spot
 Brokerage Event	



Value-adding services

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The WP6 value-adding services has started with T6.1, to translate main Consumer Requirements into well-defined Service Requirements.

Starting from the collection of outcomes of other tasks e.g. results achieved in WP1 and identified validation scenarios described in D1.3., T6.1 performed an integrated in-depth analysis and evaluation of target group requirements according to the context of use, data to be monitored, identified sensor, and considering the scenarios defined.

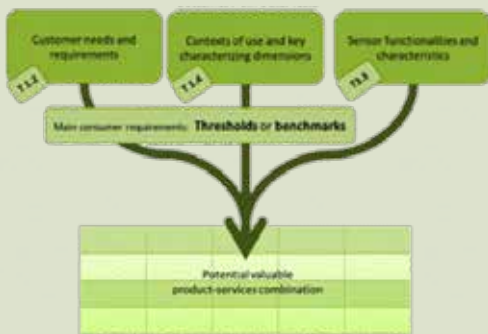


Figure 1: Overall concept

Figure 1 shows the overall idea and concept for value added services. It shows the how user-data collected by a master unit, and is forwarded to the Data Integration Platform (DIP), where the data is safely stored in central databases and made reusable for external applications.

Of the 9 integrated solutions (Table 1) defined in the validation scenarios (WP1), only 4 are possible to develop, which have been evaluated and prioritised. Based on these, the following test cases were analysed:

- Heart rate: Heart rate monitoring for elderly sportsmen
- Fall detection for elderly sportsmen

Test cases: Product Pilots with Integrated Sensor Technologies				TARGET GROUPS	
Nr	SME partner	Product Pilots	Sensor Technology	Consumer Category	Activity
1	BASE PROTECTION	Socks	Leg Muscle Tension	Disabled	Teacher, Lawyer, Consultant, ...
2	BASE PROTECTION	Socks	Blood oxygenation	Diabetics	Postman, Taxi driver, ... (other services)
3	BASE PROTECTION	Socks	Feet Volume	Diabetics	(Pastry) Cook
4	BASE PROTECTION	Shoes	Plantar pressure for weight distribution	Obese	Assembly line worker
5	LONGHE	T-shirt	Respiratory Rate	Elderly	Farmer
6	LONGHE	T-shirt	Non invasive Blood Glucose	Diabetics	(Pastry) Cook
7	P&R	T-shirt	Non invasive Blood Glucose + Heart Rate	Diabetics	Cycling
8	P&R	T-shirt or sweatshirt	Heart Rate + Fall detection + alert	Elderly	Trekking (or Nordic Walking)
9	P&R	T-shirt	Respiratory Rate + Heart Rate	Disabled	Exercises Machines

Table 1: Overview of scenario (see D6.1)

- Respiratory rate monitoring for elderly workers
- Blood oxygenation monitoring for diabetic workers
- Plantar pressure monitoring for obese workers

The foreseen system architecture (Figure 2) uses a smart-phone as master unit. All selected services will use this master unit both to transmit/receive data to DIP and to directly offer services to the user through new developed applications.



Figure 2: Overall architecture

The use of the smart-phone makes all services more user friendly and interactive; furthermore data exchange between sensors and DIP becomes fast and easy to implement.

The outcome of T6.1 is summarized in D6.1 with the identification and description of particular smart service application as practical benefits for the representative target groups.



MORE INFO:
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