

Objective

BEWELL project is about developing integration and manufacturing technologies needed for smart skin patch and wrist-device wearable electronics sensing and actuating products. BEWELL project is also about demonstrating three different application use cases.

Wearable electronics belongs to new age consumer electronics together with smartphones, gaming consoles and laptop/tablet computers. Key development focuses of the new devices are better human-machine interfaces, improved connectivity, user-friendly form factors and convenience of use. Internet of things, connected living, quantified self and smart homes are identified as the driving trends of this evolution among which especially the quantified self is clearly driving the wearable electronics. Inside wearable electronics, wrist-worn devices have been the largest segment but body-worn and head-worn devices are expected to grow to similar sized segments.

Intimate skin contact is necessary for reliable sensing and actuation based on sensor results during different levels of activity of the users. Controllable skin contact would be a further improvement in sensing applications. The purpose can be to replace or supplement visual messaging. Therefore, skin patches and associated technologies to enhance the user-device interface also in other types of products such as the wrist-worn ones are of special importance. In BEWELL, we have identified commercially relevant future skin-patch products to be demonstrated. We have also identified a set of critical and versatile technologies that need to be developed for scalable manufacturing and integrated to realize these future products. In particular, the BEWELL project aims to unleash the potential of flexible and wearable electronics for physical and emotional wellbeing by advanced integrated technology components made in Europe.

Programme(s)

H2020-EU.2.1.1. - INDUSTRIAL LEADERSHIP - Leadership in enabling and industrial technologies - Information and Communication Technologies (ICT)

Topic(s)

ICT-02-2018 - Flexible and Wearable Electronics

Call for proposal

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Funding Scheme

RIA - Research and Innovation action



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Coordinator



Teknologian tutkimuskeskus VTT Oy

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Activity type

Research Organisations

EU Contribution

€ 802 785

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Project information

BEWELL

Grant agreement ID: 825172

Status

Ongoing project

Start date

1 January 2019

End date

31 December 2021

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H2020-EU.2.1.1.

Overall budget:
€ 4 164 845

EU contribution
€ 4 164 845



Coordinated by:

Teknologian tutkimuskeskus VTT Oy
Finland

Participants (7)

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	D. SWAROVSKI DISTRIBUTION GMBH Austria	EU Contribution € 528 687,50	▼
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