

# mHealth & eHealth: mobile applications & wearables

Personalized Medicine for Health in European Research,  
23rd October 2019, Gliwice, Poland

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# Backstory:

ASIDEES led proposal preparation for  
call SC1-DTH-01-2019

“Big data and Artificial Intelligence for monitoring  
health status and quality of life after the cancer  
treatment”, April 2019, with 10 consortia members

The submitted proposal had not been accepted, but in  
the evaluation statement said:

*“The main ideas of the proposal and the concept are overall sound. The proposal considers a new approach for physicians and medical staff.*

*The participants are complementary and the consortium as a whole shows a sound balance of the capability to cover all required areas of expertise.”*

*The great value is in  
“Patient-generated health data” (PGHD):  
We need capturing and recording the data  
obtainable outside of clinical encounters  
being longitudinal, collected at high  
frequency intervals enabling nearly  
continuous data streams over extended  
periods of observation, depending on the  
metrics of interest.*

*A systematic review published in 2016 found 539 mobile apps related to oncology, 117 of which were targeted toward patients. However, few (5.8%) were explicitly supported by industry, and the majority (63.5%) made no reference to any scientific validation.*

*At the same time, patient interest in health apps is growing rapidly.*

# mHealth and PGHD:

If were provided to the *physicians and medical staff* in time, the number of inappropriate examinations could be decreased, and higher-value interventions for patients could be done;

Developing of surveillance programmes (think of PGHD) to measure lifestyle factors non-invasively in a home setting could help improve the understanding of the individual and synergistic effects of lifestyle factors on quality of life and long-term outcomes e.g. for cancer survivors;

Combined mHealth applications with the *physicians and medical staff* supervision can have statistically and clinically significant effect on quality of life and is a promising new approach.

# Invitation to consider:

Up to 65% of people would agree to experience wearable technology from doctors and hospitals (Source: PwC, “The Wearable Life 2.0”)

We are capable to create cutting-edge mHealth/eHealth applications for H2020 projects based on new AI and BigData driven technology with active participation of medical community, researches, practitioners;

Potential barriers: patient privacy, legal uncertainty but researchers should be able to maximize the value of the data

# Takeaway:

ASIDEES has the expertise and is ready to for the collaboration in area of mHealth/eHealth apps enabled by AI and Big Data

Target H2020 projects: SC1-BHC-06-2020, SC1-BHC-17-2020, SC1-HCC-10-2020, SC1-DTH-02-2020, SC1-DTH-04-2020, SC1-DTH-12-2020, DT-TDS-04-2020, DT-TDS-05-2020 and others where the solutions are relevant as well .

We help designing acceptable mHealth solutions that meet particular criteria (call, research area, case studies, prototypes development, etc)

We assist in collecting and analyzing patients data using AI/BigData-driven methods and apply eHealth technology to support the clinicians/researches and keeping patients in the center of care.





Non-profit, based in Vienna, Austria

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## Credits and References:

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