**DESIREE**

**Project ID:** 690238  
**Źródło dofinansowania:** H2020-EU.3.1.5. - Methods and data

# Decision Support and Information Management System for Breast Cancer

**Od** 2016-02-01 **do** 2019-07-31, projekt w toku | DESIREE Witryna

## Dane projektu

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<td>PHC-30-2015 - Digital representation of health data to improve disease diagnosis and treatment</td>
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## Cel

Breast cancer is the most common type of cancer affecting woman in the EU. Multidisciplinary Breast Units (BUs) were introduced in order to deal efficiently with breast cancer cases, setting guideline-based quality procedures and a high standard of care. However, daily practice in the BUs is hampered by the complexity of the disease, the vast amount of patient and disease data available in the digital era, the difficulty in coordination, the pressure exerted by the system and the difficulty in deciding on cases that guidelines do not reflect.

DESIREE aims to alleviate this situation by providing a web-based software ecosystem for the personalized, collaborative and multidisciplinary management of primary breast cancer (PBC) by specialized BUs. Decision support will be provided on the available therapy options by incorporating experience from previous cases and outcomes into an evolving knowledge model, going beyond the limitations of the few existing guideline-based decision support systems (DSS). Patient cases will be represented by a novel digital breast cancer patient (DBCP) data model, incorporating variables relevant for decision and novel sources of information and biomarkers of diagnostic and prognostic value, providing a holistic view of the patient presented to the BU through specialized visual exploratory interfaces. The influence of new variables and biomarkers in current and previous cases will be explored by a set of data mining and visual analytics tools, leveraging large amounts of retrospective data.

Intuitive web-based tools for multi-modality image analysis and fusion will be developed, providing advanced imaging biomarkers for breast and tumor characterization. Finally, a predictive tool for breast conservative therapy will be incorporated, based on a multi-scale physiological model, allowing to predict the aesthetic outcome of the intervention and the healing process, with important clinical and psychological implications for the patients.

## Powiązane informacje

**Streszczenia raportów**  
Periodic Reporting for period 1 - DESIREE (Decision Support and Information Management System for Breast Cancer)
**Koordynator**

FUNDACION CENTRO DE TECNOLOGIAS DE INTERACCION VISUAL Y COMUNICACIONES  
VICOMTECH  
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**Wkład UE:** EUR 586 623,75

**Activity type:** Research Organisations  
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**Uczestnicy**

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**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)  
Contact the organisation

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**Wkład UE:** EUR 194 375

**Activity type:** Research Organisations  
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**Wkład UE:** EUR 252 825

**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)  
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**Wkład UE:** EUR 168 975

**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)  
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Activity type: Research Organisations
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Wkład UE: EUR 155 115

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Activity type: Research Organisations
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Wkład UE: EUR 402 035

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Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)
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Wkład UE: EUR 261 466,25

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Activity type: Higher or Secondary Education Establishments
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Wkład UE: EUR 513 625

Activity type: Higher or Secondary Education Establishments

See on map

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Wkład UE: EUR 356 305

Activity type: Other

See on map

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