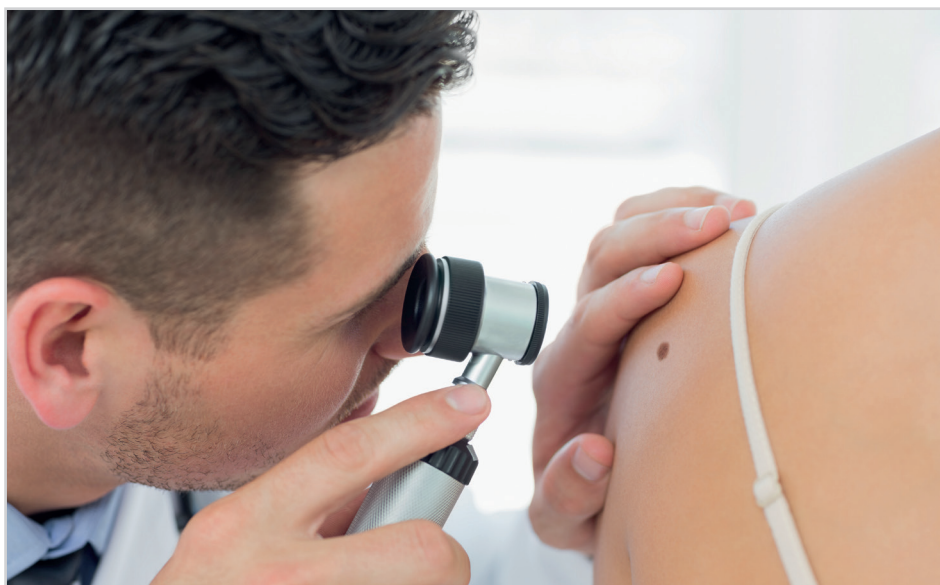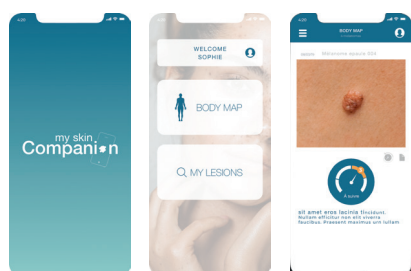# My Skin Companion

A smart decision-making tool in dermatology

Every year, more than 100,000 new cases of Melanoma are diagnosed in Europe and more than 22,000 European citizens lose their lives to the disease. These patients need a light and intelligent tool to help them detect melanoma early and increase considerably their chance of surviving.

To deal with the dermatologists' insufficiency, it is necessary to provide a smart tool to help people to diagnose skin cancer. Deep learning algorithms, powered by advances in computation and very large datasets, have recently been shown to exceed human performance in visual tasks. It is the moment to use this technology to match the performance of dermatologists at the detection of melanoma.

My Skin Companion is a mobile application that is easy to distribute to people who have pigmented moles to know instantly, by taking pictures, the probability that a mole could be a cancer using Artificial Intelligence technology.

The application, developed for iOS and Android smartphones, offers the possibility to map the patient body, to memorise mole's position and to manage the photo history in order to detect changes in the shape and size of the mole: an important information for the diagnosis of melanoma. It is also a tool to package all pictures taken in order to show/send them to dermatologist.

⊕ Competitive Advantages

- Several tools are marketed which help patients to have a medical diagnosis by sending pictures to dermatologists but there is no application with deep neural network

- An artificial intelligence to detect skin tumours is developed in May 2018 by a group of American, German and French researchers: a powerful tool but without medical information system which manages patient records

- No application that maps patient's body in order to memorise skins lesions positions and monitor changes over time.

◎ Target Markets

- End-users: patients and general practitioners

- Customers: health insurances, hospitals and patients

- Markets: European Union especially France, Germany and Belgium.

⚙ Status/ Traction

- Partners: Degetel (Activity leader and information system developments) and DFKI (Technology provider)

- Mobile application, medical platform and first version of Artificial Intelligence algorithm produced.
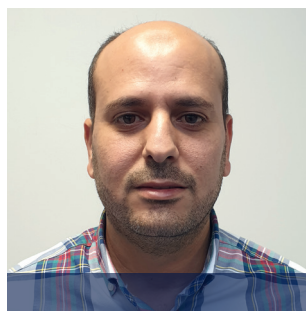
🜨 Road Map

2019
- Startup creation and first version of the product providing binary classification using visual processing technology and dermatoscopic pictures.

2020
- Final product version providing melanoma probability for smartphone pictures using visual processing and deep neural networks providing.

👥 Connect

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◉ Location

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🐦 @myskincompanion

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