Cross4Health

Awarded Projects Interview

Awarded Project	myBUTTERFLY
Company names	Spacemedex & LifeGlimmer

1. What is the company's business activity?

Spacemedex (actually for space medicine exploration!) develops public health solutions based on space technologies and concepts.

2. What is the myBUTTERFLY project?

myBUTTERFLY is a combination of a wearable sensor device and a linked smartphone app that measures air pollution in the immediate surroundings of the end user at any given time. End users will be able to see and track their exposure to certain compounds which will raise awareness and allows adaptive behaviour. A small-scale clinical study is planned to link the concentration of pollutants to incidence and severity of chronic respiratory diseases.

3. How did the idea come about?

Idea came at the C4H Idea's Contest in Feb. 2018 (Toulouse, Fr.) then, the basic concept was designed by Spacemedex. After the initial Cross4Health team building event, Spacemedex, LifeGlimmer and a third company fleshed out the idea to help it become the full-scale solution, towards which we are now working thanks to this 2nd open call.

4. Who are the core partners of the project?

The French aerospace company Spacemedex, represented by it's CEO Yacine Benyoucef, leads the project, while LifeGlimmer GmbH has the role of co-leadership. Among the other parties involved in the project are a French hospital (CHU of Toulouse), a Czech sensor and hardware developer (ESC Aerospace) and a Dutch data provider (AIRPORTAL).

5. How did this collaboration between the partners arise?

Spacemedex and LifeGlimmer actually met at the Cross4Health team building session for the 1st open call back in 2018. It took some time to get things going but as soon as we had fleshed out the idea behind myBUTTERFLY, we gave it a go for the 2nd open call and got accepted.

6. How did you hear about the Cross4Health project?

C4H was recommended to us by the CCI in their endeavour to support research companies in the Nice area, contacted by his German partner. Spacemedex was asked to participate to the Idea's contest event in 2018.

7. What is the current status of the project?

The prototype mobile app of myBUTTERFLY currently uses public data sources to retrieve and visualise live pollution in a user's surroundings. As of writing, this is shifted to a licensed data repository from an external service provider. The specifications of the sensor device itself have been discussed extensively to forego potential future issues regarding device format, marketing and compatibility with the app. Device prototype distribution has been planned and the clinical study in Toulouse has been prepared.

8. What are the next steps?

Around the beginning of 2020 it is expected to have the prototype device ready and shipped to the different beneficiaries of the project. From then on, we will start to integrate the live local data from the device with the pollution data from the external sources (described above). For

February, the clinical study is planned to take place at the University Hospital of Toulouse, making use of both the device and the linked mobile app.

9. How Cross4health can support the development of your project?

After getting selected for the 2nd open call, the funding granted via C4H was essential to put the idea of myBUTTERFLY into practice, both in terms of direct cash as well as in the form of service vouchers which we could make use of extensively.

All along the way so far, C4H has been a pleasant supporter that has displayed a near optimal balance between involvement and interference.

10. Would you recommend Cross4Health to other companies?

Yes, we can wholeheartedly recommend Cross4Health to other research companies, especially if you have a cross-disciplinary project idea in mind.