

Technische Universiteit Eindhoven University of Technology

innovation Space

innovation Space Intelligent Lighting

Eindrapportage TU/e Education Fund 2018

11 januari 2019 – Elke den Ouden & Jolan Hulscher

Where innovation starts

 Setting up a light-related working environment in TU/e innovation Space Equipment for students to use in projects Connecting companies to courses in BSc and MSc programs Pilot of a multidisciplinary student working group Execution of pilot Key learnings Deriving process for succesful projects Dissemination of project products Presentations at various events Team Ignite @ GLOW 2018 Lighting installation to attract attention at new venue Summary of key achievements 	+ + + + +	* * * * * * * * * * * * * * * * * * * *	+ + +	+ + + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + -+ + + + + + + + + + + + + + + + +	+ + +	+ + + 1	inno	vatio	n Sp	ace
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Where innovation starts

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Execution of pilot

- Projects connected to Jouw Licht op 040:
 - BSc USE Secret Life of Light (4 teams)
 - BSc USE Entrepreneurship in Action (6 teams)



CHALLENGE 'DE RING' EINDHOVEN



29.09.2010

Winnende oplossing voor de Ring is bekend

Bijna 1000 Eindhovenaren hebben gehoor gegeven aan onze vraag om hun mening te geven in de enquête waar we zeven oplossingen voor trace De Ring presenteerden. Jouw Licht Op 040 is erg blij met de betrokkenheid van iedereen die tijd hiervoor heeft genomen!

Deze resultaten, samen met de beoordeling van alle oplossingen door een vakkundig team, bestaande uit vertegenwoordigers van de Gemeente Eindhoven, Heijmans, Signify en TU/e, hebben geleid tot de volgende voorlonje uitslag

1. Inzicht verlicht	
2. Smart Traffic	A
3. LEDConnect	di Course: Entrepreneurship in Action
4. Sens my Ring	
5. BINE scout	
6. Pamares	
7. Licht op groen	Course: Secret Life of Light



- 28.02.2013
 kick-off TU/e innovation Space Intelligent Lighting

 19.03.2018
 kick-off Fontys Masterclass

 28.03.2018
 bootcamp ideeën en oplossingen

 04.04.2013
 eindpresentatie Fontys Masterclass

 FEBRUARI APRIL 2018
 inventarisatie ideeën en oplossingen

 MEI 2018
 eindpresentatie Fontys Masterclass
- toetsen en beoordelen oplossingen



Two teams were part of the final 7 solutions for the Ring Road

Where innovation starts

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+ +Technische Universiteit + Eindhoven +University of Technology+

innovation Space

Key learnings

Course preparation

Planning rooms

Since there are not that many different rooms in innovation Space, it's essential to discuss the planning of the rooms timely (six to eight weeks before the course starts). <u>My reccomendation:</u> Go through your entire course week by week with the education coordinator. Explain what is needed per contact hour.

Final presentation event

In Q4 2018, we held a large final presentation event where eight groups of two different courses presented their findings toward a large number of industrial partners. Although the students were very nervous to do this, they were super excited afterwards. They loved the fact that it was a real life case and people cared about what they were doing. They also liked that they could speak to the people from industry afterwards and share ideas on how to continue with their idea. Therefore, my recommendation: always try to host a kick-off event where a number of industrial partners is present. This makes students much more motivated to make something out of their project. Host a large final event where students can pitch their ideas to industrial partners. This is essential for follow-up after the course.

Materials and equipment

In Q1 2019, the students needed outdoor lighting prototyping material. This was not in property of the university. So what to do? Luckily, our industrial partner had four flight cases of prototyping material ready to be used. Problem: they returned from Poland the day before the students needed it. Also, there was no transport from the warehouse to the university. In the end, I borrowed a car and trailer from the URE team to pick up 450 kilo of prototyping material. It was ready to be used 5 minutes before the course started. My recommendation: always ask the industrial partner if they have prototyping material. But also always ask if they can fix the transport from their warehouse to the university.

Case selection

Alignment case with course

In Q4 2018, we held several cases on outdoor lighting. One of the ideas we wanted to continue in two other courses in Q1 2019. This was very tricky, since I had to mediate between the students, teachers and industry. All parties had to be aligned. The students feel that somebody else is going to run with their idea, which feels like steeling. The teacher had to be convinced that the continuation of this idea is better than just a random case. The idea of the students was part of a larger project of industry (Jouw Licht op 040). Therefore, the industry project had its own timeline as well. It was tricky how to fit this student project in the larger one. However, in the end, we had a very nice project and more than 10 persons from industry present at the final presentations. My recommendation: only put time in the continuation of the idea if the students are really enthusiastic in doing so.

Create contact moments (coaching)

Here, it's very important to know what kind of coaching is needed. In Q1 we needed coaching for a course. I thought it was general coaching, so I made sure the innovation manager would be present. However, the students needed expert knowledge on light design, they needed a light designer. Complete different field of expertise. In the end, I made sure that a light designer would coach for 5 sessions. My recommendation: Explain in detail what kind of coaching is needed, general case coaching or specific knowledge on a particular topic.

Don't underestimate the slowness of industrial partners

You have to understand that doing a case at innovation Space is not the primary business target for case owners. The result of this, is that case owners tend to 'forget' that they agreed on the case. I performed a lot of calls and mails to make sure everybody was aligned. Therefore my recommendation: get the agreements on black and white and sign it. This creates more ownership at case owners.



Technische Universit

Eindhoven

Deriving process for successful projects

Using the learnings to define a process for innovation in education - for general use



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Presentations at various events

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Where innovation starts

innovation Space

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Team Ignite @ GLOW 2018



innovation Space





Lighting installation to attract attention at new venue



Where innovation starts



Summary of key achievements

Projects done for:

- The secret life of light (Q4 and Q1)
 - Jouw licht op 040 Tracé de Ring
 - Atlas
- Entrepreneurship in Action (Q4 and Q1)
 - Jouw licht op 040 Tracé de Ring
- The liberation of Light (Q1)
 - Jouw licht op 040 Tracé de Ring
 - Atlas
- Light and Experience (Q2)
 - Jouw licht op 040 Eisenhowerlaan
 - Social lighting
- Innovation Space BEP (Q3)
 - Jouw licht op 040 Sorama
- Innovation Space project (Q3)
 - Atlas

<u>Successes</u>

- Final event for The secret life of light Entrepreneurship in Action: In Q4 and Q1 we held shared final presentations to increase the community feeling for innovation Space intelligent lighting.
- **Start-ups:** Out of the project that were done, two startups called LED connect and Licht op Groen emerged.
- Continuous innovation: For the first time ever, we managed to continue a project from the secret life of light (Q4) into two other courses. This was in the Liberation of Light (Q1) and Entrepreneurship in action (Q1).
- **Process overview:** we managed to create a clear process for professors and ourselves to implement courses in innovation Space.
- **Materials:** We purchased both indoor and outdoor prototyping materials that students can use this year.