

# STAKEHOLDERS' INPUT ON BME PILOT ACTION

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## 1. Summary

The pilot project at BME is to develop an online tool, which helps employees of the Faculty of Transportation Engineering and Vehicle Engineering making decisions about commuting. The stakeholders had meetings to discuss the ideas, the goals, the methodology, the implementation process and in the final stage the actual solutions and functionalities of the application. Several members of the departments were involved in the development process to achieve a suitable solution, which is easy-to-understand and informative for the users.

During the meetings the idea and the original goal were successfully preserved, whereas the methodologies and solutions changed a lot. The application needed good balance, as if the application is too simplistic, the results are not reliable. Also, if the application is too complex, users will turn away. As a final solution, the application always gives presets for parameters, and lets users to fine tune the calculations.

After three meetings and several unofficial meetings, conversations and brain-storming, the application is going to be implemented, and ready to spread amongst colleagues, and other citizens in the Functional Urban Area of Budapest. The upcoming stages of the pilot covers testing, giving publicity to the application, collect feedbacks form the users, and analysis of collected data.

## 2. Date and place

### 2.1. Mobility Team meeting

Date: 2018.05.22

Place: BME, Building St.

### 2.2. Internal expert meeting for app development

Date: 2018.06.06

Place: BME, Building St.

### 2.3. Mobility Team meeting with external software engineers

Date: 2018.08.23

Place: BME, Building St.



## 3. Number and types of participants/target groups

### 3.1. Mobility Team meeting

The following participants were present on this meeting:

- 6 colleagues of the Mobility Team, representing a leader from the Faculty and a leader from one of the Departments.

### 3.2. Internal expert meeting for app development

The following participants were present on this meeting:

- 5 colleagues from the Mobility Team, representing a leader from the Faculty and a leader from one of the Departments.
- 1 colleague as an expert for application and evaluation development.
- 2 colleagues as stakeholders from the Faculty.

### 3.3. Mobility Team meeting with external software engineers

The following participants were present on this meeting:

- 6 colleagues from the Mobility Team, representing a leader from the Faculty and a leader from one of the Departments.
- 1 colleague as an expert for application and evaluation development.
- 1 external software engineer.

## 4. Topics tackled and links to deliverables, outputs

### 4.1. Mobility Team meeting

The Mobility Team was reunited and discussed the progress of the MOVECIT project so far. The Team was informed about that a team member left the position because of changing jobs. The search for the new member from the facility management of the university is still in progress.

On the first meeting we presented the planned measures, which are included in the workplace mobility plan, and we discussed the status of their implementation.

We examined the status of the pilot action in more details. During our pilot action a new online service will be introduced to compare different transportation modes of home-work trips made by employees. The comparison will include several indicators related to travel time, cost, emission and healthiness. The public procurement is in progress for the software development.

The next step is to create a more detailed specification. For this purpose, members were assigned specific tasks, especially focusing on the indicators of the online service and the calculation for route evaluation. In the next meeting the Mobility Team will set up the draft detailed specification.



## 4.2. Internal expert meeting for app development

The aim of this meeting was to set up a detailed specification for the software engineers. The Mobility Team and some other experts from the Faculty assembled to specify the application. The followings were the main outcome of the discussions.

The application should be web based, since mobile applications need more commitment from the users. A welcome page is planned to show some of the features to the users without registration.

Four modes of mobility will be compared by the application: walking, cycling, travelling by public transport and travelling by private car. Also, four evaluation parameters will be calculated for commuters: travel time, travel costs, emissions (basically CO<sub>2</sub>) and impacts on health (by burnt calories). The users can weight the evaluated parameters to get the best mode for themselves.

The final result should be presented in an easy-to-understand way, with figures and maps.

## 4.3. Mobility Team meeting with external software engineers

An active communication took place during the summer between the software engineers and BME Mobility Team, with several decisions. However, this meeting was the first time, when Mobility Team and other experts from the Faculty can see and test the application. The aim of the meeting was to finalize the application. The followings were the main outcome of the discussions.

The design of the application is fancy, though the map was too dark. An internal poll was organised to choose a map colouring, which is more appropriate.

Some additional functions were decided. The commuting route now allows intermediate stops. Also, P+R option is available. A development of 'profiles' was introduced, which means different main type of commuting, e.g. summer and winter commuting (reflects on cycling habits) or commuting with or without children.

## 5. Expected effects and follow up

During the meetings a well-elaborated specification was achieved by the help of the stakeholders. The expected effect was to get information and see the approach of laymen to this application. The original plan was a mobile phone application, with real-time traffic data, etc., which is good for every day usage. During stakeholder meetings, a common agreement formed that the commuting mode is rather a long-term decision, not an every day. The pilot aimed to make changes towards sustainable modes, so the Mobility Team turned the application development to a more suitable way: registration free access introduces the application, and at several point an easier-to-use approach was developed. The stakeholders, as preliminary testers have better understanding of the mode choice. The typical mentality counts only with travelling time, counting with travel costs are also common. However, the impacts of the commuting on the environment and on the health are less observed. Stakeholders now have more detailed information about their commuting.

Follow up activities:

1. Introduction the application to the colleagues of the Faculty.

The pilot's focus is on the Faculty's colleagues. A checkbox is set to collect their answers and activities separately.

2. Introduction the application to every Budapest commuters



Although it would be nice to spread the sustainable modes of transportation with this tool everywhere, sadly the background routing engines only calculate for cities where all modes are available. For the pilot session, this application will be spread in the Budapest's functional urban region.

### 3. Analysing collected data

The application's collected data are useful to understand more about the commuting habits, commuter patterns and the preferences they have.

### 4. Discussions with stakeholders

Closing discussions will be done to see how the pilot was affected the stakeholder's decisions.

## 6. Annexes

### 6.1. Invitation and Agenda

#### 6.1.1. Mobility Team meeting

MoveCit projekt - BME pilot megbeszélés

Beérkező levelek x elküldött x



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máj. 11. ☆



címzett: kreutzer.richa.; Mándoki; Bóna; Bohács; Lovas; Sághi; Mózer; Dávid; Aba; Tóth

Kedves Kollégák!

A MoveCit projekt keretében elkészült a BME munkahelyi mobilitási terve.  
[http://taurus.kozlek.bme.hu/kozlek/Workplace\\_mobility\\_plan\\_BME.pdf](http://taurus.kozlek.bme.hu/kozlek/Workplace_mobility_plan_BME.pdf)

Ezzel kapcsolatban nagyon köszönjük a segítségeket és ötleteiteket, amiket a Mobility Team megbeszélések során kaptunk.

A projekt záró szakaszában egy pilot-ot valósítunk meg az egyetemen.  
Ennek keretében egy online szolgáltatás segítségével különböző közlekedési módok lesznek összehasonlíthatóak, melyek közül a leginkább környezettudatos megoldás is kiválaszható lesz.

Egy rövid megbeszélést szeretnénk összehívni, ahol a Mobility Team tagjaival átbeszéljük a pilot céljait és megvalósítási lépéseit.

Tisztelettel érdeklődnék, hogy a május 22, kedd 10 óra vagy május 24, csütörtök 14 óra megfelelő időpont lenne-e?

Üdvözlettel:

Domí

**Dr. Esztergár-Kiss Domokos**  
nemzetközi projekt koordinátor

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## 6.1.2. Internal expert meeting for app development

### MoveCit projekt - BME pilot specifikáció megbeszélés

Beérkező levelek x elküldött x



**Domokos Esztergár-Kiss** <esztergar@mail.bme.hu>

máj. 22., K 22:38



címzett: kreutzer.richard; Mándoki; Bóna; Bohács; Lovas; Sági; Mózer; Dávid; Tettamanti ▾

Kedves Kollégák!

A MoveCit projekt keretében a Mobility Team a pilot megvalósítását segíti. A tervezett online szolgáltatáshoz már most több ötlet megfogalmazódott és mindenki vállalt feladatrészt, amivel készül a következő alkalomra.

A következő megbeszélésen ezeket beszéljük át részletesebben és elkészítjük a pilot specifikációját.

Időpont: 2018. június 6, szerda 10 óra

Helyszín: BME St. 427.

Üdvözléssel:

Domi

**Dr. Esztergár-Kiss Domokos**  
nemzetközi projekt koordinátor

## 6.1.3. Mobility Team meeting with external software engineers

### MoveCit projekt - BME pilot megbeszélés

Beérkező levelek x elküldött x



**Domokos Esztergár-Kiss** <esztergar@mail.bme.hu>

aug. 21., K 10:51



címzett: kreutzer.richard; Mándoki; Bóna; Bohács; Lovas; Dávid; Aba; Tóth ▾

Kedves Kollégák!

A MoveCit projekt keretében nyáron elkészült a pilot első változata.

A következő megbeszélésen ezt beszéljük át, ahol lehetőség lesz módosítási javaslatokkal élni.

Időpont: 2018. augusztus 23, csütörtök 15 óra

Helyszín: BME St. 427.

Üdvözléssel:

Domi

**Dr. Esztergár-Kiss Domokos**  
nemzetközi projekt koordinátor



## 6.2. List of participants

### 6.2.1. Mobility Team meeting

**interreg**   
CENTRAL EUROPE European Union  
European Regional  
Development Fund

**MOVECIT** 

Stakeholder input - List of Participants

Date: 2018.05.22

Place: Budapest University of Technology and Economics (BME), St 402.

Name	Company	Email	Signature
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### 6.2.2. Internal expert meeting for app development

**interreg**   
CENTRAL EUROPE European Union  
European Regional  
Development Fund

**MOVECIT** 

Stakeholder input - List of Participants

Date: 2018.06.06

Place: Budapest University of Technology and Economics (BME), St 402.

Name	Company	Email	Signature
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### 6.2.3. Mobility Team meeting with external software engineers

Stakeholder input - List of Participants

Date: 2018.08.23  
Place: Budapest University of Technology and Economics (BME), St 402.

Name	Company	Email	Signature
Gábor Borókó	BME ACRT	gabbor.boroko@gysszke.hu	
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## 6.3. Pictures

### 6.3.1. Mobility Team meeting





### 6.3.2. Internal expert meeting for app development



### 6.3.3. Mobility Team meeting with external software engineers



## 6.4. Media coverage

No media coverage was done for the pilot stakeholder inputs.

## 6.5. Web-links

The following web-link was sent around to test the web application:

<https://movecit.codecluster.io/>