



City Needs and FIWARE-based Smart City Solutions

Evidence from the frontierCities2
Incubation & Acceleration Programme

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1. Introduction

The Smart Transportation Alliance (STA) has served as partner of the EC-funded frontierCities2 (fC2) Incubation & Acceleration Programme¹ (2016-2018) which has supported 18 FIWARE-supported start-ups in the Smart City domain.

Within the Programme, a task to map the needs of the cities (City needs mapping) has been undertaken with the objective of highlighting mutual opportunities for cities and start-ups in terms of successful implementation of FIWARE-based solutions² in the areas of:

- Transport and Mobility;
- Environment;
- People;
- Living;
- Governance;
- Economy.

The methodology followed has been based on a common online questionnaire submitted to both cities and start-ups. In relation to specific issues, cities have indicated how much importance they attribute to them, while the start-ups have indicated how much effectively they expect their solution can perform. Results have been matched and scores have been calculated, with a final output presented in both visual and quantitative terms. The final matching has been presented both for the single cities and for the single start-ups/solutions, in order to allow analysis and considerations from different angles. In particular, ‘matching tables’ have been produced as immediate and simple tool to report the results of the analysis.

Results are heterogeneous both from the city and the start-ups perspective, with different degrees of matching between the city needs and the capabilities of the solutions proposed.

2. Start-ups and solutions

In the following table are briefly described the 18 start-ups joining the fC2 Accelerator and their solutions.

Table 1 – Start-ups and solutions

<i>Start-up</i>	<i>Solution</i>	<i>Description</i>
Alma Digit (Italy)	CASMOB	Web platform and mobile app that provides customised tourist itineraries, coupling Cultural Points of Interest (CuPOIs) and Commercial Points of Interest (CoPOIs).
AMIGO (Italy)	IDA	Online web software which provides insurance companies with an automatic tool to individuate, monitor and estimate climate risks for the areas in which they have interest.
Bettair (Spain)	Bettair	Platform as a Service (PaaS) that permits to map air pollution in cities.

¹ <http://www.frontiercities2.com>

² <https://www.fiware.org>

Start-up	Solution	Description
Bustimize (Spain)	Bustimize	Analytics platform that provides public urban bus companies tools to increase fleet management efficiency by scoring driving patterns.
Ciclogreen (Spain)	Ciclogreen	On-line reward system to companies and city councils that allows them to reward their employees with gifts for using sustainable means of transport to go to work.
Cigo (Spain)	Cigo!Fleet	Smart mobility management platform offering optimisation algorithms to reduce delivery operational costs.
CommuniThings (Belgium)	Stop-buy	Smart-Parking platform addressing cities and enterprises with a turnkey IoT platform consisting of wireless sensors and a management software.
ENCO (Italy)	Fliware	Mobile app addressed to smart passengers who seek to improve, enrich and simplify their “go to/from/through-the-airport” experience.
greenApes (Italy)	greenApes	Digital platform, rewarding certified sustainable behaviours and active participation of citizens, customers & employees.
inNet (Switzerland)	AcoustiCity	Suite of analytics tools and open data platform offers cities a noise monitoring solution.
KMB Lab (Italy)	Kissmybike	Complex IoT product that detects theft and tracks the bicycle’s location until its successful recovery.
Nowlog (Ireland)	nowlog	Solution to record the temperatures of products in real time.
OpenMove (Italy)	OpenMove	Suite of software solutions for MaaS designed for users, transport agencies, inspectors and sellers.
Phoops (Italy)	MUV	Governance model of the MaaS systems to provide innovative tools for the management of the mobility system.
Sammyacht.com (Greece)	SaMMY	IoT cloud-based service solution for the global yachting industry sector-
Save-a-Space (United Kingdom)	Save-a-Space	Cloud software solution allows parking providers and transport operators across several market segments the ability to offer customers the option to reserve and pay for parking spaces in advance.
Telocate (Germany)	FI-ASSIST	Novel technology and product developed to introduce a high precision indoor navigation system and location infrastructure for industrial applications based on acoustic localization.
tsenso (Germany)	ROSY	Platform for easy traffic data management including data quality assessment.

3. The City Needs Mapping survey

The City Needs Mapping survey has been conducted by submitting two separate on-line questionnaires to cities and start-ups from May to November 2018, through the SurveyMonkey platform (<https://www.surveymonkey.co.uk>). The Smart City domain's areas analysed are the following:

- Transport and Mobility;
- Environment;
- People;
- Living;
- Governance;
- Economy.

The questionnaires submitted to cities and start-ups differ for the type of question. In fact for cities, the focus is on the importance they attribute to the different issues listed, while for start-ups the focus is on the expected effectiveness of the solutions in addressing the single issues. The methodology used is synthesised in Figure 1.

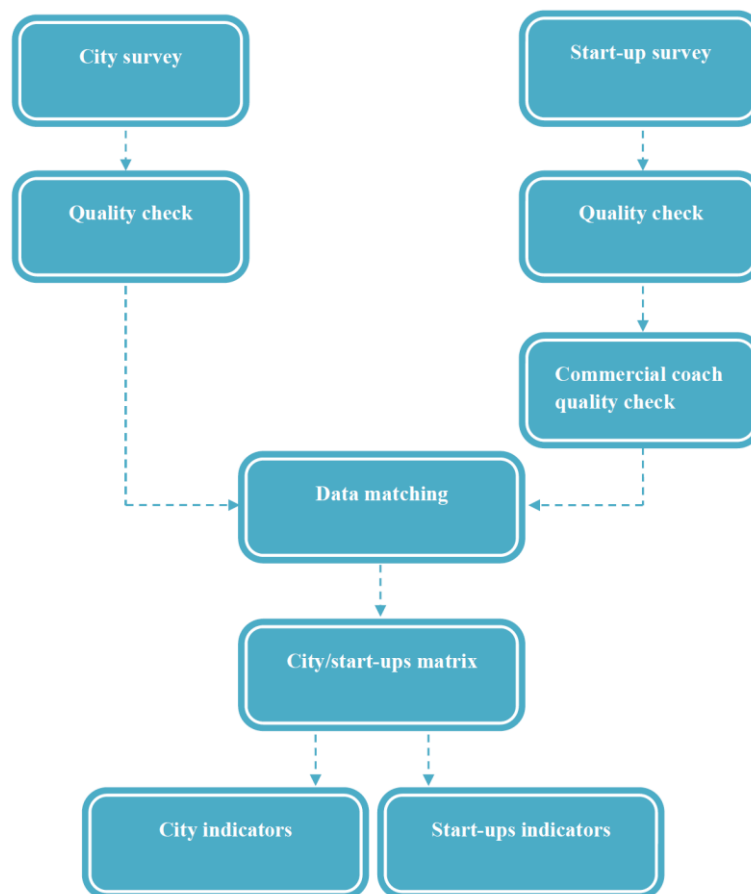


Figure 1 City Needs Mapping methodology scheme

The survey has been sent to a list of more than 50 cities, mostly European, selected among the frontierCities2 consortium's contacts or approached during project summits and events. Furthermore, the survey has been

also disseminated through the network of POLIS - Cities and Regions for Sustainable Transport. In total, the following 19 cities have participated to the survey:

- Barcelona (Spain);
- Bari (Italy);
- Carouge (Switzerland);
- Cluj Napoca (Romania);
- Copenhagen (Denmark);
- Friedrikstad (Norway);
- Helsinki (Finland);
- Kalamata (Greece);
- Letterkenny (Ireland);
- Málaga (Spain);
- Messina (Italy);
- Naples (Italy);
- Oulu (Finland);
- Patras (Greece);
- Seville (Spain);
- Stuttgart (Germany);
- Trondheim (Norway)
- Turku (Finland);
- Winterthur (Switzerland);

Nevertheless, results (and then the matching with the start-ups' solutions) are available only for 14 cities, as five cities did not complete the full questionnaire.

All frontierCities2 start-ups completed the survey with the answers having been qualitatively checked by the commercial coaches in order to avoid 'optimism' bias. Also the answers from the cities have been qualitatively checked in order to avoid inconsistencies.

The answers collected in relation to the several issues presented are qualitative and the following scales have been used:

For cities:

- **Not so important**; **slightly important**; **important**; **fairly important**; **very important**

For start-ups:

- **Slightly effective**; **effective**; **fairly effective**; **very effective**

Colours are used in matching tables to ease the visualisation of the matching. Blank cells indicate issues not addressed by any feature/functionality of the solution.

Nevertheless, also quantitative indicators are calculated for cities and start-ups.

For cities:

- **Start-ups matched** – Number of start-ups whose solution addresses the issue (all levels of effectiveness admitted). As the indicator aims at providing a measure of potential fruitful cooperation, it does not take into account the matching between solutions and issues considered by the city as “not all important”. This holds also for the second indicator.

- **Average value of the matching** – It is the average value of the expected effectiveness of the different solutions matching the specific issue (obtained attributing the following scores 1; 2; 3; 4).

For start-ups the indicators are:

- **Issues matched** - Number of issues matched by the solution features/functionality.

Analogously to the indicator for cities, it does not take into account the matching between solutions and issues considered by the city as “not all important”. This holds also for the second indicator.

- **Average value of the matching** - It is the average value of the expected effectiveness of the solution in relation to the city needs (based on the scores presented above).

The matching tables presents the results sorted according to the colour scale presented above. Therefore in the tables for cities, the results are sorted in order of importance, from the issues deemed to be ‘very important’ to those considered not so important. In the tables for the start-ups results are presented moving from issues for which the solution is expected to be ‘very effective’ to issues for which the solution is expected to be slightly effective

In Figure 2 is reported an example of a matching table for a specific city (Barcelona) and a specific start-up (Bustimize).

Barcelona	Ciclogreen	AcoustiCity	Bettair	Save a Space	Fiware	Bustimize	FI-ASSIST	greenApes	SalMY	IDA	ROSY	Kissmybike	MUV	OpenMove	CigoFleet	nowlog	CASMOB	Stop-buy	Start-ups matched	Average value of the matching	
Congestion	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	11	2.4
Parking availability	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	10	2.8
Perceived quality of the infrastructures	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	11	2.7
Emissions	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	13	3.0
Info mobility	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	10	3.6
Improved conditions for soft modes	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	11	2.4
Noise	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	12	2.9
Land use	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	12	2.1
Transport safety	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	9	1.8
Vulnerable Road Users safety	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	9	1.3
On board security	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	8	1.6
Parking security	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	8	2.4
Use of renewable resources	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	9	1.6
Attractiveness/beauty of natural surroundings	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	10	2.5
Awareness increase about sustainability	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	15	2.7
City image (e.g tech-driven)	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	13	3.5
Individual safety	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	10	2.2
Health	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	11	2.5
Perceived quality of PT	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	10	2.6
Accessibility	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	11	2.0
Cost and sustainability	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	11	2.4
Operators business	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	13	3.1
Education and qualification	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	12	1.6
Plurality and participation in public life	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	12	2.3
Cosmopolitanism or Open mindedness	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	11	2.4
Housing quality	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	10	1.6
Governance transparency and accountability	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	13	2.3
Productivity	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	13	2.5
Innovative spirit and entrepreneurship	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	11	2.2
International relations	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	11	2.4
Improved conditions for impaired and/or elderly people	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue		
Creativity	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue		
Accessibility to services other than transport	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue		
Quality of city services (other than transport)	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue		
Citizens' participation in decision-making	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue		
Citizens' participation in public and social services	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue		
Labour market flexibility	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue		

Figure 2 City Needs Mapping – Barcelona

Bustimize	Friedrikstad	Patras	Naples	Messina	Wintertur	Helsinki	Kalamata	Cluj Napoca	Malaga	Copenhagen	Carouge	Turku	Barcelona	Letterkenny
Perceived quality of PT	10	10	10	10	7	6	10	10	10	8	10	10	9	10
Cost and sustainability	10	10	10	10	7	6	10	10	10	8	10	10	9	10
Operators business	10	10	10	10	7	6	10	10	10	8	10	10	9	10
Perceived quality of the infrastructures	10	10	10	10	7	6	10	10	10	8	10	10	9	10
Accessibility	10	10	10	10	7	6	10	10	10	8	10	10	9	10
Emissions	10	10	10	10	7	6	10	10	10	8	10	10	9	10
Awareness increase about sustainability	10	10	10	10	7	6	10	10	10	8	10	10	9	10
Productivity	10	10	10	10	7	6	10	10	10	8	10	10	9	10
Congestion	10	10	10	10	7	6	10	10	10	8	10	10	9	10
Quality of city services (other than transport)	10	10	10	10	7	6	10	10	10	8	10	10	9	10
Parking availability	10	10	10	10	7	6	10	10	10	8	10	10	9	10
Info mobility	10	10	10	10	7	6	10	10	10	8	10	10	9	10
Improved conditions for soft modes	10	10	10	10	7	6	10	10	10	8	10	10	9	10
Improved conditions for impaired and/or elderly people	10	10	10	10	7	6	10	10	10	8	10	10	9	10
Transport safety	10	10	10	10	7	6	10	10	10	8	10	10	9	10
Vulnerable Road Users safety	10	10	10	10	7	6	10	10	10	8	10	10	9	10
On board security	10	10	10	10	7	6	10	10	10	8	10	10	9	10
Parking security	10	10	10	10	7	6	10	10	10	8	10	10	9	10
Noise	10	10	10	10	7	6	10	10	10	8	10	10	9	10
Use of renewable resources	10	10	10	10	7	6	10	10	10	8	10	10	9	10
Land use	10	10	10	10	7	6	10	10	10	8	10	10	9	10
Attractiveness/beauty of natural surroundings	10	10	10	10	7	6	10	10	10	8	10	10	9	10
Education and qualification	10	10	10	10	7	6	10	10	10	8	10	10	9	10
Plurality and participation in public life	10	10	10	10	7	6	10	10	10	8	10	10	9	10
Creativity	10	10	10	10	7	6	10	10	10	8	10	10	9	10
Cosmopolitanism or Open mindedness	10	10	10	10	7	6	10	10	10	8	10	10	9	10
Accessibility to services other than transport	10	10	10	10	7	6	10	10	10	8	10	10	9	10
City image (e.g tech-driven)	10	10	10	10	7	6	10	10	10	8	10	10	9	10
Individual safety	10	10	10	10	7	6	10	10	10	8	10	10	9	10
Health	10	10	10	10	7	6	10	10	10	8	10	10	9	10
Housing quality	10	10	10	10	7	6	10	10	10	8	10	10	9	10
Governance transparency and accountability	10	10	10	10	7	6	10	10	10	8	10	10	9	10
Citizens' participation in decision-making	10	10	10	10	7	6	10	10	10	8	10	10	9	10
Citizens' participation in public and social services	10	10	10	10	7	6	10	10	10	8	10	10	9	10
Labour market flexibility	10	10	10	10	7	6	10	10	10	8	10	10	9	10
Innovative spirit and entrepreneurship	10	10	10	10	7	6	10	10	10	8	10	10	9	10
International relations	10	10	10	10	7	6	10	10	10	8	10	10	9	10
Issues matched	10	10	10	10	7	6	10	10	10	8	10	10	9	10
Start-up average value of the matching	2.40	2.40	2.40	2.40	2.29	2.83	2.40	2.40	2.40	2.00	2.40	2.40	2.56	2.40

Figure 3 City Needs Mapping – Bustimize

4. Results for cities

Results are quite **heterogeneous** in terms of importance attributed by the cities to the different issues and therefore in terms of matching degree. The priorities identified (red coloured) are mostly transversal to the Smart City's areas analysed, with the exception of Helsinki and Barcelona where they almost entirely relate to the mobility area. Heterogeneity also exists in terms of range of scale used, with some cities giving judgments from 'not so important' to 'very important' and others mainly concentrating mainly on the upper part of the scale.

The cities of Friedrikstad, Winterthur, Copenhagen, Barcelona and Letterkenny are the only ones considering some presented issues as 'not so important'. In the case of the survey filled by the city of Helsinki, several issues have not received a judgment; in the related table, while potential indicators have been reported, the cells have been left in blank.

As examples of **high degree of matching** it can be cited the case of Patras and Messina for what concerns the ‘**city image**’, as the issue constitutes a priority (red coloured) and is linked to a high ‘average value of the matching’ with the potential solutions.

Analogously, high degrees of matching can be identified in Naples, Winterthur, Helsinki and Malaga in relation to the **info mobility** issue and in Kalamata and Malaga for what concerns the ‘**operator business**’ issue. Finally, a high degree of matching is reached in Copenhagen and Barcelona in relation to the issue of the **emissions**.

In Figure 4 the example of Málaga is presented, while all the matching tables are reported in Annex I.

Malaga	Ciclogreen	AcoustiCity	Bettair	Save a Space	Fiware	Bustimize	FI-ASSIST	greenApes	SaMMY	IDA	ROSY	Kissmybike	MUV	OpenMove	Cigo.Fleet	nowlog	CASMOB	Stop-buy	Start-ups matched	Average value of the matching
Info mobility	Red	Blue	White	Red	Red	White	White	Red	White	Red	White	Red	White	Yellow	White	White	Red	Red	10	3.60
Perceived quality of PT	Yellow	Blue	White	Red	Red	White	White	Yellow	White	Blue	White	Red	White	Yellow	White	White	Yellow	Yellow	10	2.60
Perceived quality of the infrastructures	White	Yellow	White	Red	Red	Yellow	Yellow	Red	White	Blue	White	Red	White	White	White	Yellow	Blue	Blue	11	2.73
Improved conditions for soft modes	Red	White	White	Blue	Blue	White	White	White	Blue	White	Yellow	Red	White	White	White	White	Blue	Blue	11	2.36
Transport safety	Red	Blue	White	White	Blue	White	White	White	Blue	White	White	Red	Yellow	White	White	White	Blue	Blue	9	1.78
Vulnerable Road Users safety	Blue	Blue	White	White	Blue	White	White	White	Blue	White	White	Red	Yellow	White	White	White	Yellow	Blue	9	1.33
On board security	White	Blue	White	White	Blue	White	White	White	Blue	White	White	Red	Red	White	White	White	Blue	Blue	8	1.63
Parking security	White	Blue	White	Yellow	Blue	White	White	Red	White	Blue	Red	Red	Red	White	White	White	Blue	Blue	8	2.38
Cost and sustainability	Yellow	White	White	Red	Red	Red	White	White	Yellow	White	Red	Yellow	Yellow	Yellow	Yellow	White	White	White	11	2.36
Operators business	White	Yellow	Red	Red	Red	Red	White	White	Yellow	White	Red	Yellow	Yellow	Yellow	Yellow	Red	Red	Yellow	13	3.08
Noise	Red	Red	Red	White	Blue	White	White	Red	Red	Red	White	White	Yellow	White	Red	Blue	Blue	Blue	12	2.92
Education and qualification	Blue	Blue	Yellow	White	Blue	White	White	White	Yellow	Yellow	Blue	White	Red	White	White	Blue	Yellow	Blue	12	1.58
Cosmopolitanism or Open mindedness	Red	Yellow	Blue	Red	Red	White	White	Red	Blue	Blue	White	White	Yellow	White	White	Blue	Yellow	Blue	11	2.36
Quality of city services (other than transport)	Red	Yellow	Yellow	Yellow	Blue	White	White	White	Blue	Blue	White	White	Yellow	White	White	Red	Blue	Blue	10	2.20
City image (e.g tech-driven)	Red	Red	Red	Red	Red	White	White	Red	Red	Yellow	Red	White	Yellow	White	White	Yellow	Yellow	Yellow	13	3.46
Labour market flexibility	White	Blue	White	White	Blue	White	White	White	Yellow	Yellow	White	White	Blue	White	White	Yellow	Yellow	White	10	1.60
Innovative spirit and entrepreneurship	Yellow	Blue	Yellow	Blue	Red	White	White	Red	Blue	Blue	White	Blue	Blue	White	White	White	Yellow	Yellow	11	2.18
International relations	White	Blue	White	White	Blue	White	White	White	Yellow	Yellow	White	White	Yellow	White	White	White	Yellow	Yellow	11	2.36
Improved conditions for impaired and/or elderly people	Blue	Blue	White	White	Blue	White	Red	White	Blue	Blue	White	White	Yellow	White	White	White	Yellow	Red	10	1.90
Accessibility	White	Blue	White	White	Blue	Yellow	Blue	White	Blue	Blue	White	White	Yellow	Yellow	White	White	Yellow	Red	11	2.00
Emissions	Red	Blue	Red	White	Blue	White	White	Red	Red	Red	White	White	Yellow	White	Red	Blue	Yellow	Yellow	13	3.00
Use of renewable resources	White	Blue	Yellow	White	Blue	White	White	White	Blue	Red	Blue	White	Yellow	White	White	White	Blue	Blue	9	1.56
Land use	Red	Blue	White	Red	Blue	White	White	White	Blue	Blue	White	White	White	Yellow	White	White	White	White	12	2.08
Awareness increase about sustainability	Red	Yellow	Yellow	Yellow	Blue	White	White	Red	Yellow	Blue	White	White	Red	White	Blue	Blue	Yellow	Yellow	15	2.67
Plurality and participation in public life	Yellow	Yellow	Blue	Yellow	Blue	White	White	Blue	Yellow	Red	White	White	White	Yellow	White	White	Yellow	White	12	2.33
Creativity	White	Blue	White	White	Blue	White	White	Red	White	Blue	White	White	Yellow	White	White	White	Yellow	Blue	12	1.67
Accessibility to services other than transport	Red	Blue	Red	Yellow	Blue	White	White	Red	Red	Yellow	White	Blue	White	Yellow	White	Red	Red	White	13	2.69
Health	Red	Yellow	Red	Blue	Blue	White	White	Red	Red	Blue	White	White	Yellow	White	White	Red	Blue	White	11	2.55
Housing quality	White	Yellow	White	Blue	Blue	White	White	White	Blue	Blue	White	White	Yellow	White	White	White	White	White	10	1.60
Governance transparency and accountability	White	Yellow	Yellow	Blue	Blue	White	White	White	Blue	Red	White	White	Red	Blue	Yellow	Red	Blue	Yellow	13	2.31
Citizens' participation in decision-making	Yellow	White	Red	Blue	Blue	White	White	White	Blue	Red	Blue	White	Red	White	White	White	White	White	13	2.23
Productivity	Yellow	Blue	Blue	Yellow	Yellow	White	White	Blue	Yellow	Yellow	White	White	Yellow	White	Red	Red	Red	Red	13	2.54
Congestion	Red	Blue	White	White	Blue	White	White	Red	Red	Blue	White	White	Yellow	White	White	White	Yellow	Yellow	11	2.36
Parking availability	White	Blue	White	Red	Blue	White	White	Red	White	White	White	Yellow	Yellow	White	Red	White	Yellow	Red	10	2.80
Attractiveness/beauty of natural surroundings	Yellow	Red	Yellow	Blue	Blue	White	White	Red	Yellow	Blue	White	White	Blue	White	White	White	Red	White	10	2.50
Individual safety	White	Yellow	Red	Blue	Blue	White	White	Blue	Red	Blue	White	White	Yellow	White	White	White	Blue	White	10	2.20
Citizens' participation in public and social services	Yellow	White	Yellow	Blue	Blue	White	White	Red	Blue	Red	Blue	White	Red	White	White	White	Yellow	Yellow	13	2.38

Figure 4 City Needs Mapping – Málaga.

5. Results for start-ups

The matching results, analogously to what was observed for the cities, are **heterogeneous in terms of effectiveness** attributed to the solutions in addressing the city issues, **as well as in terms of scale range used**. Therefore each start-up deals with different conditions in terms of potential clients and specific segment/issue to focus on, depending on whether the solution is substantially aligned with the city's priorities or falls into areas not slightly considered or not considered at all by the city. In the matching tables, the white cells means that the start-up indicated that issue as not being connected with the solution's field of application.

Some solutions cover almost entirely the smart city issues (for example, it is the case of Acousticity, Fliware, MUV, CASMOB), although with different degree of performance (for example, the first two solutions present lower 'average value of matching' compared to the other ones). **Other solutions are more specialised** in some smart city issues (e.g, greenApes, FI-Assist, Kissmibike, Nowlog); this implies higher 'average values of matching' compared to the previous group of solutions, although different potential performances are registered (greenApes and Kissmybike perform better than the others).

In Figure 5 it is reported the example of greenApes. All the matching tables are reported in Annex II.

greenApes	Friedrikstad	Patras	Naples	Messina	Wintertur	Helsinki	Kalamata	Cluj Napoca	Malaga	Copenhagen	Carouge	Turku	Barcelona	Letterkenny
Awareness increase about sustainability	Red	Yellow	Blue	Red	White	White	Red	Yellow	Yellow	Red	Red	Yellow	Yellow	Yellow
Creativity	Red	Yellow	Blue	Red	Blue	White	Red	Yellow	Yellow	Blue	Yellow	Red	Blue	Yellow
Accessibility to services other than transport	White	Yellow	Blue	Red	Blue	White	Red	Yellow	Yellow	Blue	Yellow	Red	Blue	Yellow
City image (e.g tech-driven)	Red	Yellow	Blue	Red	White	White	Red	Yellow	Yellow	Red	Red	Yellow	Yellow	Yellow
Citizens' participation in public and social services	Yellow	Yellow	Blue	Red	White	White	Red	Yellow	Yellow	Red	Red	Yellow	Blue	Yellow
Citizens' participation in decision-making	Yellow	Yellow	Blue	Red	White	White	Red	Yellow	Yellow	Red	Red	Yellow	Blue	Yellow
Plurality and participation in public life	Yellow	Yellow	Blue	Red	White	White	Red	Yellow	Yellow	Red	Red	Yellow	Blue	Yellow
Congestion	Yellow	Red	Red	Red	Blue	White	Red	Yellow	Yellow	Blue	Yellow	Red	Blue	Yellow
Parking availability	Blue	Red	Red	Red	Blue	White	Red	Yellow	Yellow	Blue	Yellow	Red	Blue	Yellow
Info mobility	Blue	Red	Red	Red	Blue	White	Red	Yellow	Yellow	Blue	Yellow	Red	Blue	Yellow
Perceived quality of PT	Yellow	Yellow	Blue	Red	Blue	White	Red	Yellow	Yellow	Blue	Yellow	Red	Blue	Yellow
Perceived quality of the infrastructures	Yellow	Yellow	Blue	Red	Blue	White	Red	Yellow	Yellow	Blue	Yellow	Red	Blue	Yellow
Improved conditions for soft modes	Red	Yellow	Blue	Red	Blue	White	Red	Yellow	Yellow	Blue	Yellow	Red	Blue	Yellow
Improved conditions for impaired and/or elderly people	Yellow	Yellow	Blue	Red	Blue	White	Red	Yellow	Yellow	Blue	Yellow	Red	Blue	Yellow
Accessibility	Blue	Yellow	Blue	Red	Blue	White	Red	Yellow	Yellow	Blue	Yellow	Red	Blue	Yellow
Transport safety	Blue	Yellow	Blue	Red	Blue	White	Red	Yellow	Yellow	Blue	Yellow	Red	Blue	Yellow
Vulnerable Road Users safety	Yellow	Red	Red	Red	Blue	White	Red	Yellow	Yellow	Blue	Yellow	Red	Blue	Yellow
On board security	Blue	Yellow	Blue	Red	Blue	White	Red	Yellow	Yellow	Blue	Yellow	Red	Blue	Yellow
Parking security	Blue	Yellow	Blue	Red	Blue	White	Red	Yellow	Yellow	Blue	Yellow	Red	Blue	Yellow
Cost and sustainability	Blue	Yellow	Blue	Red	Blue	White	Red	Yellow	Yellow	Blue	Yellow	Red	Blue	Yellow
Operators business	Yellow	Yellow	Blue	Red	Blue	White	Red	Yellow	Yellow	Blue	Yellow	Red	Blue	Yellow
Emissions	Yellow	Yellow	Blue	Red	Blue	White	Red	Yellow	Yellow	Blue	Yellow	Red	Blue	Yellow
Noise	Blue	Yellow	Blue	Red	Blue	White	Red	Yellow	Yellow	Blue	Yellow	Red	Blue	Yellow
Use of renewable resources	Yellow	Yellow	Blue	Red	Blue	White	Red	Yellow	Yellow	Blue	Yellow	Red	Blue	Yellow
Land use	Blue	Yellow	Blue	Red	Blue	White	Red	Yellow	Yellow	Blue	Yellow	Red	Blue	Yellow
Attractiveness/beauty of natural surroundings	Blue	Yellow	Blue	Red	Blue	White	Red	Yellow	Yellow	Blue	Yellow	Red	Blue	Yellow
Education and qualification	Yellow	Yellow	Blue	Red	Blue	White	Red	Yellow	Yellow	Blue	Yellow	Red	Blue	Yellow
Cosmopolitanism or Open mindedness	Yellow	Yellow	Blue	Red	Blue	White	Red	Yellow	Yellow	Blue	Yellow	Red	Blue	Yellow
Quality of city services (other than transport)	Yellow	Yellow	Blue	Red	Blue	White	Red	Yellow	Yellow	Blue	Yellow	Red	Blue	Yellow
Individual safety	Yellow	Yellow	Blue	Red	Blue	White	Red	Yellow	Yellow	Blue	Yellow	Red	Blue	Yellow
Health	Yellow	Yellow	Blue	Red	Blue	White	Red	Yellow	Yellow	Blue	Yellow	Red	Blue	Yellow
Housing quality	Yellow	Yellow	Blue	Red	Blue	White	Red	Yellow	Yellow	Blue	Yellow	Red	Blue	Yellow
Governance transparency and accountability	Yellow	Yellow	Blue	Red	Blue	White	Red	Yellow	Yellow	Blue	Yellow	Red	Blue	Yellow
Productivity	Yellow	Yellow	Blue	Red	Blue	White	Red	Yellow	Yellow	Blue	Yellow	Red	Blue	Yellow
Labour market flexibility	Yellow	Yellow	Blue	Red	Blue	White	Red	Yellow	Yellow	Blue	Yellow	Red	Blue	Yellow
Innovative spirit and entrepreneurship	Red	Red	Red	Red	Yellow	White	Red	Yellow	Yellow	Blue	Yellow	Red	Blue	Yellow
International relations	Red	Red	Red	Red	Yellow	White	Red	Yellow	Yellow	Blue	Yellow	Red	Blue	Yellow
Issues matched	7	7	7	7	6	0	7	7	7	7	7	7	3	7
Start-up average value of the matching	3.29	3.29	3.29	3.29	3.17	0.00	3.29	3.29	3.29	3.29	3.29	3.29	3.00	3.29

Figure 5 City Needs Mapping – greenApes.

6. Conclusions

The 'City needs mapping' tool proved to be simple and immediate to explore potential opportunities of cooperation between cities and start-ups in the Smart City domain, at least as preliminary basis of discussion. It could help the cities to orient policies and interventions in specific issues according to the potential solutions available, while for the start-ups it could constitute a useful tool to identify promising specific market segments.

For what concerns cities, the importance attributed to the different issues relevant to the Smart City domain is heterogeneous and consequently the priorities are transversal; this implies heterogeneity also in terms of matching degree. Also for start-ups heterogeneity exists both in terms of effectiveness attributed to the solution in tackling specific issues and in terms of number of city issues that can be addressed, with solutions 'specialised' and other 'multi-tasking'.

Annex I - City needs mapping (Cities)

Friedrikstad	Ciclogreen	AcoustiCity	Bettair	Save a Space	Fiware	Bustimize	FI-ASSIST	greenApes	SaMMY	IDA	ROSY	Kissmybike	MUV	OpenMove	Cigo IFleet	nowlog	CASMOB	Stop-buy	Start-ups matched	Average value of the matching
Improved conditions for soft modes																			11	2.4
Awareness increase about sustainability																			15	2.7
Education and qualification																			12	1.6
City Image (e.g tech-driven)																			13	3.5
Innovative spirit and entrepreneurship																			11	2.2
International relations																			11	2.4
Congestion																			11	2.4
Perceived quality of PT																			10	2.6
Vulnerable Road Users safety																			9	1.3
Cost and sustainability																			11	2.4
Emissions																			13	3.0
Use of renewable resources																			9	1.6
Plurality and participation in public life																			12	2.3
Cosmopolitanism or Open mindedness																			11	2.4
Quality of city services (other than transport)																			10	2.2
Governance transparency and accountability																			13	2.3
Citizens' participation in decision-making																			13	2.2
Citizens' participation in public/social services																			13	2.4
Productivity																			13	2.5
Info mobility																			10	3.6
Perceived quality of the infrastructures																			11	2.7
Improved conditions for impaired/elderly people																			10	1.9
Transport safety																			9	1.8
Operators business																			13	3.1
Creativity																			12	1.7
Accessibility to services other than transport																			13	2.7
Health																			11	2.5
Housing quality																			10	1.6
Labour market flexibility																			10	1.6
Parking availability																			10	2.8
Accessibility																			11	2.0
On board security																			8	1.6
Noise																			12	2.9
Land use																			12	2.1
Attractiveness/beauty of natural surroundings																			10	2.5
Individual safety																			10	2.2
Parking security																				

Patras	Ciclogreen	AcoustiCity	Bettair	Save a Space	Fluware	Bustimize	FI-ASSIST	greenApes	saMMY	IDA	ROSY	Kissmybike	MUV	OpenMove	CigolFleet	nowlog	CASMOB	Stop-buy	Start-ups matched	Average value of the matching
Congestion	Red	Blue	White	Yellow	Blue	Blue	White	White	Yellow	White	Red	Yellow	Yellow	White	White	White	Yellow	Yellow	11	2.4
Parking availability	Red	Blue	White	Red	Yellow	White	White	White	Red	White	Yellow	Yellow	White	White	Red	White	White	Red	10	2.8
Vulnerable Road Users safety	Blue	Blue	White	White	Blue	White	Blue	White	Red	White	White	White	Yellow	White	White	White	White	White	9	1.3
Attractiveness/beauty of natural surroundings	Red	Red	Yellow	Blue	Yellow	White	White	White	Red	Yellow	Blue	White	Blue	White	White	White	Red	White	10	2.5
Education and qualification	Blue	Blue	Yellow	Blue	Blue	White	White	White	Yellow	Yellow	Blue	White	Red	White	White	Blue	Yellow	Blue	12	1.6
Cosmopolitanism or Open mindedness	Red	Yellow	Blue	Yellow	Red	White	White	White	Red	Blue	Blue	White	Yellow	White	White	White	Yellow	Blue	11	2.4
Quality of city services (other than transport)	Red	Yellow	Blue	Yellow	Blue	Blue	White	White	Red	Yellow	Blue	White	Yellow	White	White	White	Red	Blue	10	2.2
City image (e.g tech-driven)	Red	Red	Red	Red	Red	White	White	Red	Red	Red	Red	White	Yellow	White	White	Yellow	Yellow	Yellow	13	3.5
Innovative spirit and entrepreneurship	Red	Blue	Yellow	Blue	Red	White	White	White	Red	Blue	Blue	White	Blue	White	White	White	Yellow	Yellow	11	2.2
International relations	Red	Blue	Yellow	Yellow	Red	White	White	White	Red	Yellow	White	White	Blue	White	White	White	Yellow	Yellow	11	2.4
Info mobility	Red	Blue	White	Red	Red	White	White	White	Red	White	Red	Red	Yellow	Yellow	White	White	Red	Red	10	3.6
Transport safety	Yellow	Blue	White	Blue	Blue	White	Yellow	White	Blue	White	Blue	Red	Yellow	White	White	White	Blue	White	9	1.8
On board security	White	Blue	White	Blue	Blue	White	Yellow	White	Blue	White	Blue	Red	Red	White	White	White	Blue	White	8	1.6
Parking security	Yellow	Blue	White	Yellow	Blue	White	White	White	Red	White	Blue	Red	Red	White	White	White	Blue	White	8	2.4
Cost and sustainability	Yellow	Yellow	White	Yellow	Yellow	Red	White	White	Yellow	White	Blue	White	Yellow	Yellow	Yellow	White	White	Yellow	11	2.4
Operators business	Red	Blue	Red	Red	Yellow	White	White	White	Yellow	Red	Red	White	Yellow	Yellow	Red	Red	Yellow	Yellow	13	3.1
Emissions	Red	Blue	Red	Yellow	Yellow	Yellow	White	White	Red	Red	Blue	White	Yellow	White	Red	White	Blue	White	13	3.0
Use of renewable resources	Red	Blue	Yellow	Blue	Blue	White	White	White	Blue	Red	Blue	White	Yellow	White	White	Blue	Blue	White	9	1.6
Awareness increase about sustainability	Red	Yellow	White	Yellow	Yellow	White	White	Red	Yellow	Red	Yellow	White	Red	Yellow	Yellow	Blue	Blue	Yellow	15	2.7
Creativity	Yellow	Blue	White	Blue	Blue	White	White	Red	Blue	Blue	White	White	Yellow	White	White	White	Yellow	Blue	12	1.7
Accessibility to services other than transport	Red	Blue	Red	Yellow	Yellow	White	White	White	Red	Red	Yellow	White	Yellow	Yellow	Yellow	Red	Red	White	13	2.7
Health	Red	Yellow	Red	Blue	Blue	White	White	White	Red	Red	Red	White	Blue	White	White	Red	Red	White	11	2.5
Governance transparency and accountability	Yellow	Yellow	Yellow	Blue	Blue	White	White	White	Yellow	Red	Red	White	Red	Blue	Yellow	Red	Blue	Yellow	13	2.3
Perceived quality of PT	White	Blue	White	Red	Red	Red	White	White	Yellow	White	Blue	White	Red	Yellow	White	White	Yellow	White	10	2.6
Perceived quality of the infrastructures	Yellow	Yellow	White	Red	Red	Yellow	Yellow	White	Red	White	Blue	White	White	White	White	Yellow	Yellow	Blue	11	2.7
Improved conditions for soft modes	Red	Blue	White	Blue	Blue	White	White	White	Blue	White	Blue	Red	Yellow	White	White	White	Yellow	Blue	11	2.4
Improved conditions for impaired and/or elderly people	Blue	Blue	White	Yellow	White	White	Red	White	Blue	White	Blue	White	Yellow	White	White	White	Yellow	White	10	1.9
Accessibility	White	Blue	White	Yellow	Yellow	Blue	Blue	White	Blue	White	Blue	White	Yellow	Yellow	White	White	Yellow	Red	11	2.0
Noise	Red	Blue	Red	Blue	Blue	White	White	White	Red	Red	Red	White	Yellow	White	Red	White	Blue	Blue	12	2.9
Land use	Red	Blue	Blue	Red	White	White	White	White	Blue	Red	Blue	White	Blue	Yellow	Yellow	White	Yellow	White	12	2.1
Plurality and participation in public life	Yellow	Blue	Yellow	Yellow	Blue	White	White	White	Yellow	Red	Blue	White	Red	Yellow	Yellow	White	Yellow	White	12	2.3
Individual safety	White	Yellow	Red	Blue	Blue	White	Blue	White	Blue	White	Yellow	White	Yellow	White	White	White	Blue	White	10	2.2
Housing quality	White	Yellow	Yellow	Blue	Blue	White	White	White	Blue	Red	Blue	White	Blue	White	White	White	Blue	White	10	1.6
Citizens' participation in decision-making	Yellow	Yellow	Red	Blue	Blue	White	White	White	Blue	Red	Blue	White	Red	White	Yellow	White	Yellow	White	13	2.2
Citizens' participation in public and social services	Yellow	Yellow	Blue	Yellow	Yellow	White	White	Red	Blue	Blue	White	White	Yellow	White	Red	Red	Yellow	White	13	2.4
Productivity	Yellow	Yellow	Blue	Yellow	Yellow	White	White	White	Blue	Yellow	Blue	White	Yellow	White	Red	Red	Yellow	White	13	2.5
Labour market flexibility	White	Blue	Blue	Blue	Blue	White	White	White	Yellow	Yellow	Blue	White	Blue	White	White	Yellow	White	White	10	1.6

	Ciclogreen	AcoustiCity	Bettair	Save a Space	Fiware	Bustimize	FI-ASSIST	greenApes	SaMMY	IDA	ROSY	Kissmybike	MUV	OpenMove	CigolFleet	nowlog	CASMOB	Stop-buy	Start-ups matched	Average value of the matching	
Naples																					
Congestion	Red	Blue	White	Yellow	Blue	Blue	White	White	Yellow	White	Red	Yellow	Yellow	White	White	White	Yellow	Yellow	Green	11	2.4
Parking availability	Red	Blue	White	Red	Yellow	White	White	White	Red	White	Red	Yellow	Yellow	White	Red	White	Yellow	Red	Green	10	2.8
Info mobility	Red	Blue	White	Red	Red	White	White	White	Red	White	Red	White	Yellow	Yellow	White	White	Yellow	Red	Green	10	3.6
Perceived quality of the infrastructures	Red	Yellow	White	Red	Red	Yellow	Yellow	White	Red	Blue	Blue	White	Yellow	White	White	Yellow	Yellow	Blue	Green	11	2.7
Attractiveness/beauty of natural surroundings	Yellow	Red	Yellow	Blue	Yellow	White	White	White	Red	Yellow	Blue	White	Blue	White	White	White	Red	White	Green	10	2.5
Cosmopolitanism or Open mindedness	Red	Yellow	Blue	Yellow	Red	White	White	White	Red	Blue	Blue	White	Yellow	White	White	White	Yellow	Blue	Green	11	2.4
Innovative spirit and entrepreneurship	Red	Yellow	Yellow	Red	Red	White	White	White	Red	Blue	Blue	White	Yellow	White	White	White	Yellow	Yellow	Green	11	2.2
International relations	Red	Blue	Yellow	Blue	Red	White	White	White	Red	Yellow	Blue	White	Blue	White	White	White	Yellow	Yellow	Green	11	2.4
Vulnerable Road Users safety	Yellow	Blue	Blue	Blue	Blue	White	Blue	Blue	Blue	Blue	Blue	White	Yellow	White	White	White	Yellow	White	Green	9	1.3
On board security	Yellow	Blue	Blue	Blue	Blue	Yellow	White	White	Blue	Blue	Blue	Red	Red	White	White	White	Blue	White	Green	8	1.6
Parking security	Yellow	Blue	Blue	Yellow	Blue	White	White	White	Red	Blue	Blue	Red	Red	White	White	White	Blue	White	Green	8	2.4
City image (e.g tech-driven)	Red	Red	Red	Red	Red	White	White	Red	Red	Yellow	Red	White	Yellow	White	White	Yellow	Yellow	Yellow	Green	13	3.5
Perceived quality of PT	Yellow	Blue	Red	Red	Red	Red	White	White	Red	Blue	Blue	White	Yellow	Yellow	White	White	Yellow	White	Green	10	2.6
Transport safety	Yellow	Blue	Blue	Blue	Blue	Yellow	White	White	Blue	Blue	Blue	Red	Yellow	White	White	White	Blue	White	Green	9	1.8
Cost and sustainability	Yellow	Yellow	White	Yellow	Red	Red	White	White	Yellow	Blue	Blue	White	Yellow	Yellow	Yellow	White	White	White	Green	11	2.4
Operators business	Red	Blue	Red	Red	Red	White	White	White	Yellow	Red	Red	Yellow	Yellow	Yellow	Red	Red	Red	Yellow	Green	13	3.1
Emissions	Red	Blue	Red	Yellow	Blue	Yellow	White	White	Red	Red	Red	White	Yellow	White	Red	Blue	Blue	Blue	Green	13	3.0
Noise	Red	Red	Red	Blue	Blue	White	White	White	Red	Red	Red	White	Yellow	White	Red	Blue	Blue	Blue	Green	12	2.9
Education and qualification	Yellow	Blue	Yellow	Blue	Blue	White	White	White	Yellow	Yellow	Blue	White	Yellow	White	White	Blue	Yellow	Blue	Green	12	1.6
Creativity	Yellow	Blue	Blue	Blue	Blue	White	White	Red	Blue	Blue	Blue	White	Yellow	White	White	Yellow	Yellow	Blue	Green	12	1.7
Accessibility to services other than transport	Red	Blue	Red	Yellow	Yellow	White	White	Red	Red	Blue	Yellow	Blue	Blue	Yellow	Yellow	Red	Red	White	Green	13	2.7
Governance transparency and accountability	Yellow	Blue	Blue	Blue	Blue	White	White	White	Red	Red	Blue	Blue	Red	Blue	Red	Blue	Yellow	White	Green	13	2.3
Citizens' participation in decision-making	Yellow	Yellow	Red	Blue	Blue	White	White	Yellow	Blue	Blue	Blue	White	Yellow	White	Yellow	White	Yellow	White	Green	13	2.2
Productivity	Yellow	Blue	Blue	Yellow	Yellow	Yellow	White	White	Blue	Yellow	Blue	Blue	Yellow	Yellow	Red	Red	Red	White	Green	13	2.5
Labour market flexibility	Yellow	Blue	Blue	Blue	Blue	White	White	White	Yellow	Yellow	Blue	Blue	Blue	White	White	Yellow	Yellow	White	Green	10	1.6
Improved conditions for soft modes	Red	Yellow	Blue	Blue	Blue	Yellow	White	Blue	White	Yellow	Red	Red	Red	White	White	White	Yellow	Blue	Green	11	2.4
Improved conditions for impaired and/or elderly people	Blue	Blue	Blue	Yellow	Yellow	Red	White	Blue	Blue	Blue	Blue	White	Yellow	White	White	White	Yellow	Red	Green	10	1.9
Accessibility	Blue	Blue	Blue	Yellow	Yellow	Yellow	Blue	Blue	Blue	Blue	Blue	White	Yellow	Yellow	White	White	Yellow	Red	Green	11	2.0
Use of renewable resources	Blue	Blue	Yellow	Blue	Blue	White	White	White	Red	Red	Blue	White	Yellow	White	White	White	Blue	White	Green	9	1.6
Land use	Red	Blue	Red	Blue	Blue	White	White	White	Blue	Red	Blue	White	Blue	Yellow	Yellow	White	Yellow	White	Green	12	2.1
Awareness increase about sustainability	Red	Yellow	Yellow	Yellow	Yellow	White	White	Red	Yellow	Red	Blue	White	Red	Yellow	Blue	Blue	Yellow	White	Green	15	2.7
Plurality and participation in public life	Yellow	Blue	Yellow	Blue	Blue	White	White	Blue	Blue	Blue	Blue	White	Yellow	White	Yellow	White	Yellow	White	Green	12	2.3
Quality of city services (other than transport)	Blue	Yellow	Yellow	Blue	Blue	White	White	White	Blue	Blue	Blue	White	Yellow	White	White	White	Red	White	Green	10	2.2
Individual safety	Blue	Yellow	Red	Yellow	Blue	White	White	Blue	Red	Yellow	Blue	White	Yellow	White	White	Blue	White	White	Green	10	2.2
Health	Red	Yellow	Red	Yellow	Blue	White	White	Blue	Red	Yellow	Blue	White	Yellow	White	Red	Blue	White	White	Green	11	2.5
Housing quality	Blue	Yellow	Yellow	Blue	Blue	White	White	Blue	Red	Blue	Blue	White	Yellow	White	White	White	Yellow	White	Green	10	1.6
Citizens' participation in public and social services	Yellow	Yellow	Blue	Blue	Blue	White	White	Red	Blue	Red	Blue	White	Red	White	Yellow	White	Yellow	White	Green	13	2.4

	Ciclogreen	AcoustiCity	Bettair	Save a Space	Fiware	Bustimize	FI-ASSIST	greenApes	SaMIMY	IDA	ROSY	Kissmybike	MUV	OpenMove	Cigo.Fleet	nowlog	CASMOB	Stop-buy	Start-ups matched	Average value of the matching	
Messina																					
Congestion	Red	Blue	Blue	Yellow	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	11	2.4
Improved conditions for soft modes	Red	Yellow	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	11	2.4
Accessibility	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	11	2.0
Transport safety	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	9	1.8
Vulnerable Road Users safety	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	9	1.3
Noise	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	12	2.9
Use of renewable resources	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	9	1.6
Land use	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	12	2.1
Awareness increase about sustainability	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	15	2.7
Education and qualification	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	12	1.6
Creativity	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	12	1.7
Cosmopolitanism or Open mindedness	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	11	2.4
City image (e.g tech-driven)	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	13	3.5
Housing quality	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	10	1.6
Governance transparency and accountability	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	13	2.3
Citizens' participation in decision-making	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	13	2.2
Citizens' participation in public and social services	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	13	2.4
Productivity	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	13	2.5
Innovative spirit and entrepreneurship	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	11	2.2
International relations	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	11	2.4
Parking availability	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	10	2.8
Info mobility	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	10	3.6
Perceived quality of PT	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	10	2.6
Perceived quality of the infrastructures	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	11	2.7
Improved conditions for impaired and/or elderly people	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	10	1.9
On board security	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	8	1.6
Cost and sustainability	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	11	2.4
Operators business	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	13	3.1
Emissions	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	13	3.0
Attractiveness/beauty of natural surroundings	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	10	2.5
Plurality and participation in public life	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	12	2.3
Accessibility to services other than transport	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	13	2.7
Quality of city services (other than transport)	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	10	2.2
Individual safety	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	10	2.2
Health	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	11	2.5
Parking security	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	8	2.4
Labour market flexibility	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	10	1.6

Wintherthur	Ciclogreen	AcoustiCity	Bettair	Save a Space	Fiware	Bustimize	FI-ASSIST	greenApes	SaMIMY	IDA	ROSY	Kissmybike	MUV	OpenMove	Cigo.Fleet	nowlog	CASMOB	Stop-buy	Start-ups matched	Average value of the matching
Info mobility	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	10	3.6
Improved conditions for soft modes	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	11	2.4
Vulnerable Road Users safety	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	9	1.3
Cost and sustainability	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	11	2.4
Operators business	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	13	3.1
Use of renewable resources	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	9	1.6
Education and qualification	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	12	1.6
Quality of city services (other than transport)	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	10	2.2
City image (e.g tech-driven)	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	13	3.5
Emissions	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	13	3.0
Noise	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	12	2.9
Health	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	11	2.5
Housing quality	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	10	1.6
Governance transparency and accountability	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	13	2.3
Citizens' participation in decision-making	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	13	2.2
Innovative spirit and entrepreneurship	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	11	2.2
International relations	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	11	2.4
Congestion	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	11	2.4
Transport safety	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	9	1.8
On board security	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	8	1.6
Attractiveness/beauty of natural surroundings	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	10	2.5
Awareness increase about sustainability	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	15	2.7
Citizens' participation in public and social services	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	13	2.4
Parking availability	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	10	2.8
Improved conditions for impaired and/or elderly people	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	10	1.9
Plurality and participation in public life	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	12	2.1
Land use	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	12	2.3
Accessibility to services other than transport	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	13	2.7
Productivity	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	13	2.5
Labour market flexibility	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	10	1.6
Perceived quality of PT	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
Perceived quality of the infrastructures	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
Accessibility	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
Parking security	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
Creativity	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
Cosmopolitanism or Open mindedness	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
Individual safety	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■		

Helsinki	Ciclogreen	AcoustiCity	Bettair	Save a Space	Fiware	Bustimize	FI-ASSIST	greenApes	SaMIMY	IDA	ROSY	Kissmybike	MUV	OpenMove	Cigo.Fleet	nowlog	CASMOB	Stop-buy	Start-ups matched	Average value of the matching
Info mobility	Red	Blue	Blue	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Yellow	Yellow	Yellow	Yellow	Yellow	10	3.6
Perceived quality of PT	Yellow	Blue	Blue	Red	Red	Red	Red	Red	Red	Red	Blue	Red	Red	Yellow	Yellow	Yellow	Yellow	Yellow	10	2.6
Perceived quality of the infrastructures	Red	Blue	Blue	Red	Red	Red	Red	Red	Red	Red	Blue	Red	Red	Yellow	Yellow	Yellow	Yellow	Yellow	11	2.7
Improved conditions for soft modes	Red	Blue	Blue	Red	Red	Red	Red	Red	Red	Red	Blue	Red	Red	Yellow	Yellow	Yellow	Yellow	Yellow	11	2.4
Improved conditions for impaired and/or elderly people	Blue	Blue	Blue	Red	Red	Red	Red	Red	Red	Red	Blue	Red	Red	Yellow	Yellow	Yellow	Yellow	Yellow	10	1.9
Accessibility	Red	Blue	Blue	Red	Red	Red	Red	Red	Red	Red	Blue	Red	Red	Yellow	Yellow	Yellow	Yellow	Yellow	11	2.0
Transport safety	Red	Blue	Blue	Red	Red	Red	Red	Red	Red	Red	Blue	Red	Red	Yellow	Yellow	Yellow	Yellow	Yellow	9	1.8
Vulnerable Road Users safety	Red	Blue	Blue	Red	Red	Red	Red	Red	Red	Red	Blue	Red	Red	Yellow	Yellow	Yellow	Yellow	Yellow	9	1.3
On board security	Red	Blue	Blue	Red	Red	Red	Red	Red	Red	Red	Blue	Red	Red	Yellow	Yellow	Yellow	Yellow	Yellow	8	1.6
Parking availability	Yellow	Blue	Blue	Red	Red	Red	Red	Red	Red	Red	Blue	Red	Red	Yellow	Yellow	Yellow	Yellow	Yellow	10	2.8
Congestion	Red	Blue	Blue	Red	Red	Red	Red	Red	Red	Red	Blue	Red	Red	Yellow	Yellow	Yellow	Yellow	Yellow	11	2.4
Parking security	Yellow	Blue	Blue	Red	Red	Red	Red	Red	Red	Red	Blue	Red	Red	Yellow	Yellow	Yellow	Yellow	Yellow	8	2.4
Cost and sustainability	Yellow	Blue	Blue	Red	Red	Red	Red	Red	Red	Red	Blue	Red	Red	Yellow	Yellow	Yellow	Yellow	Yellow	11	2.4
Operators business	Yellow	Blue	Blue	Red	Red	Red	Red	Red	Red	Red	Blue	Red	Red	Yellow	Yellow	Yellow	Yellow	Yellow	13	3.1
Emissions	Red	Blue	Blue	Red	Red	Red	Red	Red	Red	Red	Blue	Red	Red	Yellow	Yellow	Yellow	Yellow	Yellow	13	3.0
Noise	Red	Blue	Blue	Red	Red	Red	Red	Red	Red	Red	Blue	Red	Red	Yellow	Yellow	Yellow	Yellow	Yellow	12	2.9
Use of renewable resources	Red	Blue	Blue	Red	Red	Red	Red	Red	Red	Red	Blue	Red	Red	Yellow	Yellow	Yellow	Yellow	Yellow	9	1.6
Land use	Red	Blue	Blue	Red	Red	Red	Red	Red	Red	Red	Blue	Red	Red	Yellow	Yellow	Yellow	Yellow	Yellow	12	2.1
Attractiveness/beauty of natural surroundings	Yellow	Blue	Blue	Red	Red	Red	Red	Red	Red	Red	Blue	Red	Red	Yellow	Yellow	Yellow	Yellow	Yellow	10	2.5
Awareness increase about sustainability	Red	Blue	Blue	Red	Red	Red	Red	Red	Red	Red	Blue	Red	Red	Yellow	Yellow	Yellow	Yellow	Yellow	15	2.7
Education and qualification	Blue	Blue	Blue	Red	Red	Red	Red	Red	Red	Red	Blue	Red	Red	Yellow	Yellow	Yellow	Yellow	Yellow	12	1.6
Plurality and participation in public life	Yellow	Blue	Blue	Red	Red	Red	Red	Red	Red	Red	Blue	Red	Red	Yellow	Yellow	Yellow	Yellow	Yellow	12	2.3
Creativity	Yellow	Blue	Blue	Red	Red	Red	Red	Red	Red	Red	Blue	Red	Red	Yellow	Yellow	Yellow	Yellow	Yellow	12	1.7
Cosmopolitanism or Open mindedness	Red	Blue	Blue	Red	Red	Red	Red	Red	Red	Red	Blue	Red	Red	Yellow	Yellow	Yellow	Yellow	Yellow	11	2.4
Accessibility to services other than transport	Red	Blue	Blue	Red	Red	Red	Red	Red	Red	Red	Blue	Red	Red	Yellow	Yellow	Yellow	Yellow	Yellow	13	2.7
Quality of city services (other than transport)	Yellow	Blue	Blue	Red	Red	Red	Red	Red	Red	Red	Blue	Red	Red	Yellow	Yellow	Yellow	Yellow	Yellow	10	2.2
City image (e.g tech-driven)	Red	Blue	Blue	Red	Red	Red	Red	Red	Red	Red	Blue	Red	Red	Yellow	Yellow	Yellow	Yellow	Yellow	13	3.5
Individual safety	Red	Blue	Blue	Red	Red	Red	Red	Red	Red	Red	Blue	Red	Red	Yellow	Yellow	Yellow	Yellow	Yellow	10	2.2
Health	Red	Blue	Blue	Red	Red	Red	Red	Red	Red	Red	Blue	Red	Red	Yellow	Yellow	Yellow	Yellow	Yellow	11	2.5
Housing quality	Yellow	Blue	Blue	Red	Red	Red	Red	Red	Red	Red	Blue	Red	Red	Yellow	Yellow	Yellow	Yellow	Yellow	10	1.6
Governance transparency and accountability	Yellow	Blue	Blue	Red	Red	Red	Red	Red	Red	Red	Blue	Red	Red	Yellow	Yellow	Yellow	Yellow	Yellow	13	2.3
Citizens' participation in decision-making	Yellow	Blue	Blue	Red	Red	Red	Red	Red	Red	Red	Blue	Red	Red	Yellow	Yellow	Yellow	Yellow	Yellow	13	2.2
Citizens' participation in public and social services	Yellow	Blue	Blue	Red	Red	Red	Red	Red	Red	Red	Blue	Red	Red	Yellow	Yellow	Yellow	Yellow	Yellow	13	2.4
Productivity	Yellow	Blue	Blue	Red	Red	Red	Red	Red	Red	Red	Blue	Red	Red	Yellow	Yellow	Yellow	Yellow	Yellow	13	2.5
Labour market flexibility	Yellow	Blue	Blue	Red	Red	Red	Red	Red	Red	Red	Blue	Red	Red	Yellow	Yellow	Yellow	Yellow	Yellow	10	1.6
Innovative spirit and entrepreneurship	Yellow	Blue	Blue	Red	Red	Red	Red	Red	Red	Red	Blue	Red	Red	Yellow	Yellow	Yellow	Yellow	Yellow	11	2.2
International relations	Yellow	Blue	Blue	Red	Red	Red	Red	Red	Red	Red	Blue	Red	Red	Yellow	Yellow	Yellow	Yellow	Yellow	11	2.4

Kalamata	Ciclogreen	AcoustiCity	Bettair	Save a Space	Fiware	Bustimize	FI-ASSIST	greenApes	SaMMY	IDA	ROSY	Kissmybike	MUV	OpenMove	CigolFleet	nowlog	CASMOB	Stop-buy	Start-ups matched	Average value of the matching
Improved conditions for soft modes	Red	Yellow	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	11	2.4
Improved conditions for impaired and/or elderly people	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	10	1.9
Vulnerable Road Users safety	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	9	1.3
Cost and sustainability	Yellow	Yellow	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	11	2.4
Operators business	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	13	3.1
Attractiveness/beauty of natural surroundings	Red	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	10	2.5
Awareness increase about sustainability	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	15	2.7
Education and qualification	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	12	1.6
Plurality and participation in public life	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	12	2.3
Quality of city services (other than transport)	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	10	2.2
Individual safety	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	10	2.2
Health	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	11	2.5
Citizens' participation in public and social services	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	13	2.4
Productivity	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	13	2.5
Parking availability	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	10	2.8
Info mobility	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	10	3.6
Perceived quality of PT	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	10	2.6
Perceived quality of the infrastructures	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	11	2.7
Accessibility	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	11	2.0
Transport safety	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	9	1.8
Noise	Red	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	12	2.9
Use of renewable resources	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	9	1.6
Land use	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	12	2.1
Creativity	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	12	1.7
Accessibility to services other than transport	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	13	2.7
City image (e.g tech-driven)	Red	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	13	3.5
Housing quality	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	10	1.6
Governance transparency and accountability	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	13	2.3
Citizens' participation in decision-making	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	13	2.2
Labour market flexibility	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	10	1.6
Innovative spirit and entrepreneurship	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	11	2.2
International relations	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	11	2.4
Congestion	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	11	2.4
On board security	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	8	1.6
Parking security	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	8	2.4
Emissions	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	13	3.0
Cosmopolitanism or Open mindedness	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	11	2.4

Cluj Napoca	Ciclogreen	AcoustiCity	Bettair	Save a Space	Fiware	Bustimize	FI-ASSIST	greenApes	SaMIMY	IDA	ROSY	Kissmybike	MUV	OpenMove	Cigo.Fleet	nowlog	CASMOB	Stop-buy	Start-ups matched	Average value of the matching
Congestion	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	11	2.4
Parking availability	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	10	2.8
Info mobility	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	10	3.6
Perceived quality of PT	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	10	2.6
Perceived quality of the infrastructures	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	11	2.7
Improved conditions for soft modes	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	11	2.4
Improved conditions for impaired and/or elderly people	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	10	1.9
Accessibility	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	11	2.0
Transport safety	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	9	1.8
Vulnerable Road Users safety	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	9	1.3
On board security	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	8	1.6
Parking security	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	8	2.4
Cost and sustainability	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	11	2.4
Operators business	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	13	3.1
Emissions	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	13	3.0
Noise	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	12	2.9
Use of renewable resources	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	9	1.6
Land use	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	12	2.1
Attractiveness/beauty of natural surroundings	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	10	2.5
Awareness increase about sustainability	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	15	2.7
Education and qualification	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	12	1.6
Plurality and participation in public life	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	12	2.3
Creativity	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	12	1.7
Cosmopolitanism or Open mindedness	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	11	2.4
Accessibility to services other than transport	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	13	2.7
Quality of city services (other than transport)	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	10	2.2
City image (e.g tech-driven)	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	13	3.5
Individual safety	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	10	2.2
Health	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	11	2.5
Housing quality	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	10	1.6
Governance transparency and accountability	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	13	2.3
Citizens' participation in decision-making	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	13	2.2
Citizens' participation in public and social services	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	13	2.4
Productivity	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	13	2.5
Labour market flexibility	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	10	1.6
Innovative spirit and entrepreneurship	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	11	2.2
International relations	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	11	2.4

Malaga	Ciclogreen	AcoustCity	Bettair	Save a Space	Fiware	Bustimize	FI-ASSIST	greenApes	SaMIMY	IDA	ROSY	Kissmybike	MUV	OpenMove	Cigo.Fleet	nowlog	CASMOB	Stop-buy	Start-ups matched	Average value of the matching
Info mobility	Red	Blue		Red	Red				Red		Red		Red	Yellow			Red	Red	10	3.60
Perceived quality of PT	Yellow	Blue		Red	White	Red			Yellow		Blue		Red	Yellow			Yellow	Yellow	10	2.60
Perceived quality of the infrastructures	Red	Yellow		Red	White	Yellow			Red		Blue		Red			Yellow	Yellow	Yellow	11	2.73
Improved conditions for soft modes	Red	Yellow		Blue	Blue				Blue			Red	Red				Yellow	Blue	11	2.36
Transport safety	Red	Blue		Blue	Blue				Blue			Red	Yellow				Blue	Blue	9	1.78
Vulnerable Road Users safety	Blue	Blue		Blue	Blue				Blue		Blue		Yellow				Yellow	White	9	1.33
On board security	Red	Blue		Blue	Blue		Yellow		Blue		Blue	Red	Red				Blue	Blue	8	1.63
Parking security	Red	Blue		Yellow	Blue				Blue		Blue	Red	Red				Blue	Blue	8	2.38
Cost and sustainability	Yellow	Yellow		Yellow	Yellow	Red			Yellow		Blue		Yellow		Yellow		Yellow	Yellow	11	2.36
Operators business	Red	Yellow		Red	Yellow	Red			Yellow		Red	Yellow	Yellow	Yellow	Red	Red	Red	Yellow	13	3.08
Noise	Red	Red	Red	Yellow	Blue				Red	Red	Red		Yellow		Red		Blue	Blue	12	2.92
Education and qualification	Red	Blue	Yellow	Blue	Blue				Yellow		Blue		Red			Blue	Yellow	Blue	12	1.58
Cosmopolitanism or Open mindedness	Red	Yellow		Yellow	Red				Red		Blue		Yellow				Red	Blue	11	2.36
Quality of city services (other than transport)	Yellow	Yellow	Yellow	Yellow	Blue				Yellow		Blue		Yellow				Red	Blue	10	2.20
City image (e.g tech-driven)	Red	Red	Red	Red				Red	Red	Red	Red		Yellow			Yellow	Yellow	Yellow	13	3.46
Labour market flexibility	Red	Blue	Blue	Blue	Blue				Yellow	Yellow			Blue			Yellow	Yellow	White	10	1.60
Innovative spirit and entrepreneurship	Yellow	Blue	Yellow	Blue	Red				Red	Blue	Blue		Blue				Yellow	Yellow	11	2.18
International relations	Red	Blue	Yellow	Yellow	Blue				Red	Blue	Blue		Blue				Yellow	Yellow	11	2.36
Improved conditions for impaired and/or elderly people	Blue	Blue		Yellow	Yellow		Red		Blue		Blue		Yellow				Yellow	Yellow	10	1.90
Accessibility	Red	Blue		Yellow	Yellow	Blue			Blue		Blue		Yellow	Yellow			Red	Red	11	2.00
Emissions	Red	Blue	Red	Yellow	Yellow	Yellow			Red	Red	Red		Yellow		Red		Blue	Yellow	13	3.00
Use of renewable resources	Yellow	Yellow	Yellow	Yellow	Yellow				Blue	Red	Red		Blue				Blue	White	9	1.56
Land use	Red	Blue	Red	Blue	Blue				Blue	Red	Red		Blue		Yellow		Yellow	Yellow	12	2.08
Awareness increase about sustainability	Red	Yellow	Yellow	Yellow	Yellow			Red	Yellow	Red	Yellow		Red		Yellow	Blue	Blue	Yellow	15	2.67
Plurality and participation in public life	Yellow	Yellow	Blue	Yellow	Blue				Blue	Red	Blue		Red		Yellow		Yellow	White	12	2.33
Creativity	Yellow	Blue	Blue	Blue	Blue			Red	Blue	Blue	Blue		Yellow				Yellow	Blue	12	1.67
Accessibility to services other than transport	Red	Blue	Red	Blue	Yellow			Red	Red	Red	Red		Yellow		Yellow		Red	Red	13	2.69
Health	Red	Yellow	Red	Blue	Blue				Red	Red	Red		Yellow			Red	Red	White	11	2.55
Housing quality	Yellow	Yellow	Yellow	Blue	Blue				Blue	Red	Blue		Blue				Blue	White	10	1.60
Governance transparency and accountability	Yellow	Yellow	Yellow	Blue	Blue				Yellow	Red	Red		Red	Blue	Yellow	Red	Blue	Yellow	13	2.31
Citizens' participation in decision-making	Yellow	Yellow	Red	Blue	Blue			Yellow	Blue	Red	Blue		Red		Yellow		Yellow	Yellow	13	2.23
Productivity	Yellow	Blue	Blue	Blue	Blue				Yellow	Yellow	Blue		Yellow		Red	Red	Blue	Yellow	13	2.54
Congestion	Red	Blue		Blue	Blue				Yellow		Red	Yellow	Yellow			Red	Red	Yellow	11	2.36
Parking availability	Yellow	Blue		Red	Yellow				Red	Red	Yellow		Yellow		Red		Yellow	Red	10	2.80
Attractiveness/beauty of natural surroundings	Yellow	Red	Blue	Yellow	Blue				Red	Yellow	Blue		Blue				Red	Blue	10	2.50
Individual safety	Yellow	Yellow	Red	Blue	Blue		Blue		Blue	Red	Yellow		Yellow				Blue	White	10	2.20
Citizens' participation in public and social services	Yellow	Yellow	Yellow	Blue	Yellow			Red	Blue	Red	Blue		Red		Yellow		Yellow	White	13	2.38

Copenhagen	Ciclogreen	AcoustiCity	Bettair	Save a Space	Fiware	Bustimize	FI-ASSIST	greenApes	SaMIMY	IDA	ROSY	Kissmybike	MUV	OpenMove	Cigo.Fleet	nowlog	CASMOB	Stop-buy	Start-ups matched	Average value of the matching
Improved conditions for soft modes	Red	Yellow					Yellow				Yellow	Red	Red						11	2.4
Accessibility		Blue		Yellow	Yellow	Yellow	Blue		Blue		Blue		Yellow	Yellow			Yellow	Red	11	2.0
Transport safety	Red			Blue			Yellow					Red					Blue		9	1.8
Vulnerable Road Users safety	Blue	Blue					Blue				Blue		Yellow				Blue		9	1.3
Emissions	Red	Blue	Red	Yellow	Yellow	Yellow		Red	Red	Red			Yellow		Red		Blue	Yellow	13	3.0
Use of renewable resources		Blue	Yellow		Blue				Blue	Red	Blue		Yellow				Blue		9	1.6
Attractiveness/beauty of natural surroundings	Yellow	Red	Yellow	Blue	Yellow				Red	Yellow			Blue				Red		10	2.5
Awareness increase about sustainability	Red	Yellow				Yellow		Red	Blue	Blue	Yellow		Red		Yellow	Blue	Yellow		15	2.7
Accessibility to services other than transport	Red	Blue	Red	Yellow			Red	Red	Blue	Yellow					Yellow		Red	Red	13	2.7
Quality of city services (other than transport)		Yellow	Yellow	Yellow	Blue			Yellow	Yellow	Blue			Yellow				Red		10	2.2
Productivity	Yellow	Blue	Blue	Yellow	Yellow			Blue	Yellow				Yellow		Red	Red	Red		13	2.5
Labour market flexibility		Blue	Blue					Yellow	Yellow				Blue			Yellow	Yellow		10	1.6
Info mobility	Red	Blue	Red	Red	Blue				Red	Red	Red		Yellow	Yellow			Red	Red	10	3.6
Noise	Red	Red	Red	Blue					Red	Red	Red		Yellow		Red		Blue		12	2.9
Cosmopolitanism or Open mindedness	Red	Yellow	Blue	Yellow	Red				Red	Blue			Yellow				Yellow	Blue	11	2.4
Health	Red	Yellow	Red	Blue				Blue	Red	Yellow			Yellow			Red	Blue		11	2.5
Housing quality		Yellow	Blue			Yellow			Blue	Red	Blue		Blue				Blue		10	1.6
Governance transparency and accountability		Yellow	Yellow	Blue					Red	Red		Yellow	Red	Blue	Yellow	Red	Yellow		13	2.3
Congestion	Red	Blue		Yellow	Blue				Yellow	Red	Yellow						Yellow	Yellow	11	2.4
Improved conditions for impaired and/or elderly people	Blue			Yellow		Red				Blue			Yellow				Yellow		10	1.9
On board security		Blue		Blue		Yellow		Blue		Blue			Red				Blue		8	1.6
Operators business	Yellow	Yellow	Red	Red	Red			Yellow	Red	Yellow		Yellow	Yellow	Yellow	Red	Red	Red		13	3.1
Education and qualification	Blue	Yellow							Yellow				Red			Blue	Blue		12	1.6
City image (e.g tech-driven)	Red	Red	Red	Red				Red	Red	Yellow	Red		Yellow				Yellow	Yellow	13	3.5
Individual safety		Yellow	Red	Blue		Blue			Red	Red	Yellow		Yellow				Blue		10	2.2
Citizens' participation in decision-making	Yellow		Red	Blue			Yellow	Blue	Red	Blue			Red		Yellow		Yellow		13	2.2
Citizens' participation in public and social services	Yellow	Yellow		Blue			Red	Red	Blue						Yellow		Yellow		13	2.4
Innovative spirit and entrepreneurship	Blue	Yellow		Red					Red	Blue			Blue				Yellow		11	2.2
International relations	Yellow	Blue	Yellow	Red					Red	Yellow			Blue				Yellow	Yellow	11	2.4
Parking availability		Blue		Red	Yellow			Red	Red	Yellow		Yellow	Yellow		Red		Red		10	2.8
Perceived quality of the infrastructures		Yellow		Red	Red	Yellow		Red	Red	Blue		Red	Red			Yellow	Blue		11	2.7
Parking security		Blue		Yellow	Blue				Red	Blue		Red	Blue				Blue		8	2.4
Land use	Red		Blue	Blue				Blue	Red	Blue			Blue		Yellow		Yellow		12	2.1
Plurality and participation in public life	Yellow	Yellow	Blue	Yellow	Blue			Blue	Red	Blue			Red		Yellow		Yellow		12	2.3
Creativity	Yellow			Blue			Red		Blue				Yellow				Blue		12	1.7
Perceived quality of PT	Yellow	Blue		Red	Red			Yellow		Blue			Red	Yellow			Yellow			
Cost and sustainability	Yellow			Yellow	Red			Yellow		Blue			Yellow	Yellow			Yellow			

	Ciclogreen	AcoustiCity	Bettair	Save a Space	Fiware	Bustimize	FI-ASSIST	greenApes	SaMIMY	IDA	ROSY	Kissmybike	MUV	OpenMove	Cigo.Fleet	nowlog	CASMOB	Stop-buy	Start-ups matched	Average value of the matching	
Perceived quality of PT																			10	2.6	
Improved conditions for soft modes																			11	2.4	
Improved conditions for impaired and/or elderly people																			10	1.9	
Accessibility																			11	2.0	
Transport safety																			9	1.8	
Vulnerable Road Users safety																			9	1.3	
Cost and sustainability																			11	2.4	
Operators business																			13	3.1	
Emissions																			13	3.0	
Noise																			12	2.9	
Use of renewable resources																			9	1.6	
Awareness increase about sustainability																			15	2.7	
Education and qualification																			12	1.6	
Accessibility to services other than transport																			13	2.7	
Quality of city services (other than transport)																			10	2.2	
Individual safety																			10	2.2	
Health																			11	2.5	
Governance transparency and accountability																			13	2.3	
Citizens' participation in decision-making																			13	2.2	
Citizens' participation in public and social services																			13	2.4	
Innovative spirit and entrepreneurship																			11	2.2	
International relations																			11	2.4	
Perceived quality of the infrastructures																			11	2.7	
Plurality and participation in public life																			12	2.3	
Congestion																			11	2.4	
Parking availability																			10	2.8	
Info mobility																			10	3.6	
Parking security																			8	2.4	
Land use																			12	2.1	
Attractiveness/beauty of natural surroundings																			10	2.5	
Creativity																			12	1.7	
City image (e.g tech-driven)																			13	3.5	
Housing quality																			10	1.6	
Productivity																			13	2.5	
Labour market flexibility																			10	1.6	
Cosmopolitanism or Open mindedness																			11	2.4	
On board security																					

Turku	Ciclogreen	Acousticity	Bettair	Save a Space	Fiware	Bustimize	FI-ASSIST	greenApes	SaMIMY	IDA	ROSY	Kissmybike	MUV	OpenMove	Cigo.Fleet	nowlog	CASMOB	Stop-buy	Start-ups matched	Average value of the matching
Perceived quality of PT	Red	Blue	Red	Red	Red	Yellow	Red	Yellow	Blue	Blue	Blue	Red	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	10	2.6
Perceived quality of the infrastructures	Blue	Yellow	Red	Red	Yellow	Yellow	Red	Blue	Blue	Blue	Blue	Red	Yellow	Yellow	Yellow	Yellow	Yellow	Blue	11	2.7
Improved conditions for impaired and/or elderly people	Blue	Blue	Yellow	Yellow	Yellow	Yellow	Red	Blue	Blue	Blue	Blue	Red	Yellow	Yellow	Yellow	Yellow	Yellow	Red	10	1.9
Accessibility	Blue	Blue	Yellow	Yellow	Yellow	Yellow	Red	Blue	Blue	Blue	Blue	Red	Yellow	Yellow	Yellow	Yellow	Yellow	Red	11	2.0
Transport safety	Red	Blue	Blue	Blue	Blue	Yellow	Blue	Blue	Blue	Blue	Blue	Red	Yellow	Yellow	Yellow	Yellow	Blue	Blue	9	1.8
Vulnerable Road Users safety	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Yellow	Yellow	Yellow	Yellow	Yellow	Blue	9	1.3
On board security	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Red	Yellow	Yellow	Yellow	Yellow	Blue	Blue	8	1.6
Cost and sustainability	Yellow	Blue	Blue	Blue	Blue	Red	Blue	Blue	Blue	Blue	Blue	Blue	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	11	2.4
Use of renewable resources	Blue	Blue	Yellow	Blue	Blue	Blue	Blue	Blue	Blue	Red	Blue	Blue	Yellow	Yellow	Yellow	Yellow	Blue	Blue	9	1.6
Land use	Red	Blue	Blue	Red	Blue	Blue	Blue	Blue	Blue	Red	Blue	Blue	Blue	Blue	Yellow	Yellow	Yellow	Yellow	12	2.1
Attractiveness/beauty of natural surroundings	Yellow	Red	Yellow	Blue	Yellow	Blue	Blue	Blue	Blue	Yellow	Blue	Blue	Blue	Blue	Blue	Blue	Red	Blue	10	2.5
Education and qualification	Red	Blue	Yellow	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Red	Blue	Blue	Blue	Blue	Blue	12	1.6
Accessibility to services other than transport	Red	Blue	Blue	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Yellow	Blue	Red	Blue	13	2.7
Health	Red	Yellow	Red	Blue	Blue	Blue	Blue	Blue	Blue	Red	Blue	Blue	Blue	Yellow	Blue	Red	Blue	Blue	11	2.5
Productivity	Yellow	Blue	Blue	Blue	Blue	Yellow	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Yellow	Red	Red	Red	Blue	13	2.5
Labour market flexibility	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Yellow	Blue	10	1.6
Innovative spirit and entrepreneurship	Yellow	Blue	Yellow	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	11	2.2
International relations	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	11	2.4
Congestion	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	11	2.4
Parking availability	Blue	Blue	Red	Blue	Blue	Blue	Blue	Blue	Blue	Red	Blue	Blue	Blue	Blue	Red	Blue	Blue	Blue	10	2.8
Info mobility	Red	Blue	Blue	Red	Blue	Blue	Blue	Blue	Blue	Red	Blue	Blue	Blue	Blue	Yellow	Blue	Red	Blue	10	3.6
Improved conditions for soft modes	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Red	Blue	Blue	Blue	Blue	Blue	11	2.4
Parking security	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	8	2.4
Operators business	Blue	Yellow	Red	Blue	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Yellow	Blue	Red	Blue	Blue	13	3.1
Emissions	Red	Blue	Red	Blue	Blue	Blue	Blue	Blue	Blue	Red	Blue	Blue	Blue	Yellow	Red	Blue	Blue	Blue	13	3.0
Noise	Red	Red	Red	Blue	Blue	Blue	Blue	Blue	Blue	Red	Blue	Blue	Blue	Yellow	Red	Blue	Blue	Blue	12	2.9
Awareness increase about sustainability	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	15	2.7
Plurality and participation in public life	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	12	2.3
Creativity	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	12	1.7
Cosmopolitanism or Open mindedness	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	11	2.4
Quality of city services (other than transport)	Blue	Yellow	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	10	2.2
City image (e.g tech-driven)	Red	Blue	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	13	3.5
Individual safety	Blue	Blue	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	10	2.2
Housing quality	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	10	1.6
Governance transparency and accountability	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	13	2.3
Citizens' participation in decision-making	Blue	Blue	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	13	2.2
Citizens' participation in public and social services	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	13	2.4

Barcelona	Ciclogreen	AcoustiCity	Bettair	Save a Space	Fiware	Bustimize	FI-ASSIST	greenApes	SaMIMY	IDA	ROSY	Kissmybike	MUV	OpenMove	Cigo.Fleet	nowlog	CASMOB	Stop-buy	Start-ups matched	Average value of the matching
Congestion	Red																		11	2.4
Parking availability		Blue		Red	Yellow				Red				Yellow		Red		Yellow	Red	10	2.8
Perceived quality of the infrastructures	Red	Blue		Red	Yellow	Yellow			Red		Blue		Red				Yellow	Blue	11	2.7
Emissions	Red		Red	Yellow		Yellow			Red	Red	Blue		Red		Red		Blue	Yellow	13	3.0
Info mobility	Red	Blue		Red					Red	Red	Blue		Red	Yellow			Red	Red	10	3.6
Improved conditions for soft modes	Red	Yellow			Blue		Yellow		Blue		Yellow	Red	Red				Yellow	Blue	11	2.4
Noise	Red	Red	Red	Yellow	Blue				Red	Red	Red		Yellow		Red			Blue	12	2.9
Land use	Red		Blue	Red					Red	Red	Blue		Red		Yellow		Yellow	Blue	12	2.1
Transport safety		Blue					Yellow		Blue		Blue	Red	Yellow				Blue	Yellow	9	1.8
Vulnerable Road Users safety		Blue							Blue		Blue		Yellow				Yellow		9	1.3
On board security		Blue					Yellow		Red		Blue	Red	Red				Blue		8	1.6
Parking security		Blue		Yellow	Blue				Red		Blue	Red	Yellow				Blue		8	2.4
Use of renewable resources			Yellow		Blue				Red	Red	Blue		Yellow				Blue		9	1.6
Attractiveness/beauty of natural surroundings	Yellow	Red	Yellow	Blue	Yellow				Red	Yellow	Blue		Blue				Red		10	2.5
Awareness increase about sustainability	Red	Yellow	Yellow	Yellow	Yellow			Red	Yellow	Red	Yellow		Red		Yellow	Blue	Blue	Yellow	15	2.7
City image (e.g tech-driven)	Red	Red	Red	Red				Red	Red	Red	Yellow		Yellow				Yellow	Yellow	13	3.5
Individual safety		Yellow	Red	Yellow	Blue		Blue		Red	Yellow		Yellow		Yellow			Blue		10	2.2
Health	Red		Red						Red	Red						Red			11	2.5
Perceived quality of PT	Yellow	Blue		Red	Red				Yellow		Blue		Red	Yellow		Yellow	Yellow	Yellow	10	2.6
Accessibility				Yellow	Yellow	Blue			Blue		Blue		Yellow	Yellow			Yellow	Red	11	2.0
Cost and sustainability	Yellow			Yellow	Red				Yellow		Blue		Yellow		Yellow			Yellow	11	2.4
Operators business		Yellow		Red	Red				Yellow	Red	Yellow		Yellow	Yellow	Yellow	Red	Red	Yellow	13	3.1
Education and qualification			Yellow		Blue				Yellow		Blue		Red			Blue	Blue	Yellow	12	1.6
Plurality and participation in public life	Yellow	Yellow	Blue	Yellow	Blue			Blue	Yellow	Red	Blue		Red		Yellow		Yellow	Blue	12	2.3
Cosmopolitanism or Open mindedness	Red	Yellow		Red					Red	Blue			Yellow				Yellow	Blue	11	2.4
Housing quality					Blue		Yellow		Blue	Red			Blue				Blue		10	1.6
Governance transparency and accountability			Yellow	Yellow					Yellow	Red	Yellow		Red		Blue	Red	Yellow	Yellow	13	2.3
Productivity	Yellow			Yellow	Yellow	Yellow			Blue				Yellow		Red	Red	Red	Yellow	13	2.5
Innovative spirit and entrepreneurship	Yellow		Yellow	Blue	Red				Red	Blue			Blue				Yellow	Yellow	11	2.2
International relations	Yellow		Yellow	Red					Red	Yellow			Blue				Yellow	Yellow	11	2.4
Improved conditions for impaired and/or elderly people		Blue		Yellow			Red		Blue		Blue		Yellow				Yellow	Yellow		
Creativity								Red										Blue		
Accessibility to services other than transport	Red		Blue	Red	Yellow		Yellow		Red	Blue	Yellow		Blue		Yellow		Red			
Quality of city services (other than transport)		Yellow		Yellow	Blue				Yellow	Blue			Yellow				Red			
Citizens' participation in decision-making	Yellow		Red					Yellow	Blue	Red	Blue		Red				Yellow			
Citizens' participation in public and social services	Yellow			Blue	Yellow			Red	Blue	Red	Blue		Red		Yellow		Yellow	Yellow		
Labour market flexibility									Yellow	Yellow			Blue			Yellow		Yellow		

Letterkenny	Ciclogreen	AcoustiCity	Bettair	Save a Space	Fiware	Bustimize	FI-ASSIST	greenApes	SaMIMY	IDA	ROSY	Kissmybike	MUV	OpenMove	Cigo!Fleet	nowlog	CASMOB	Stop-buy	Start-ups matched	Average value of the matching
Use of renewable resources																			9	1.6
Attractiveness/beauty of natural surroundings																			10	2.5
Education and qualification																			12	1.6
City image (e.g tech-driven)																			13	3.5
Individual safety																			10	2.2
Health																			11	2.5
Governance transparency and accountability																			13	2.3
Labour market flexibility																			10	1.6
Innovative spirit and entrepreneurship																			11	2.2
International relations																			11	2.4
Perceived quality of the infrastructures																			11	2.7
Accessibility																			11	2.0
Operators business																			13	3.1
Plurality and participation in public life																			12	2.3
Creativity																			12	1.7
Cosmopolitanism or Open mindedness																			11	2.4
Citizens' participation in public and social services																			13	2.4
Productivity																			13	2.5
Congestion																			11	2.4
Parking availability																			10	2.8
Improved conditions for impaired and/or elderly people																			10	1.9
Transport safety																			9	1.8
On board security																			8	1.6
Parking security																			8	2.4
Cost and sustainability																			11	2.4
Awareness increase about sustainability																			15	2.7
Accessibility to services other than transport																			13	2.7
Quality of city services (other than transport)																			10	2.2
Housing quality																			10	1.6
Perceived quality of PT																			10	2.6
Improved conditions for soft modes																			11	2.4
Vulnerable Road Users safety																			9	1.3
Emissions																			13	3.0
Noise																			12	2.9
Citizens' participation in decision-making																			13	2.2
Info mobility																				
Land use																				

Annex II - City needs mapping (Start-ups)

Ciclogreen	Friedrikstad	Patras	Naples	Messina	Wintertur	Helsinki	Kalamata	Cluj Napoca	Malaga	Copenhagen	Carouge	Turku	Barcelona	Letterkenny
Congestion	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red
Info mobility	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red
Improved conditions for soft modes	Red	Red	Blue	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Blue
Emissions	Red	Red	Red	Red	Red	White	Red	Red	Red	Red	Red	Red	Red	Blue
Noise	Blue	Red	Red	Red	Red	White	Red	Red	Red	Red	Red	Red	Red	Blue
Land use	Blue	Red	Blue	Red	Blue	White	Red	Red	Red	Blue	Red	Red	Red	Blue
Awareness increase about sustainability	Red	Red	Red	Red	Red	White	Red	Red	Red	Red	Red	Red	Red	Red
Cosmopolitanism or Open mindedness	Red	Red	Red	Red	Blue	White	Red	Red	Red	Red	Red	Red	Blue	Red
Accessibility to services other than transport	Red	Red	Red	Red	Blue	White	Red	Red	Red	Red	Red	Red	Blue	Red
City image (e.g tech-driven)	Red	Red	Red	Red	Red	White	Red	Red	Red	Red	Red	Red	Red	Red
Health	Red	Red	Blue	Red	Red	White	Red	Red	Red	Red	Red	Red	Red	Red
Cost and sustainability	Red	Red	Red	Red	Red	Red	Red	Red	Red	Blue	Red	Red	Blue	Red
Attractiveness/beauty of natural surroundings	Blue	Red	Red	Red	Red	White	Red	Red	Red	Red	Red	Red	Red	Red
Plurality and participation in public life	Red	Red	Blue	Red	Blue	White	Red	Red	Red	Blue	Red	Red	Blue	Red
Creativity	Red	Red	Red	Red	Blue	White	Red	Red	Red	Blue	Red	Red	Blue	Red
Citizens' participation in decision-making	Red	Red	Red	Red	Red	White	Red	Red	Red	Red	Red	Red	Blue	Red
Citizens' participation in public and social services	Red	Red	Blue	Red	Red	White	Red	Red	Red	Red	Red	Red	Blue	Red
Productivity	Red	Red	Red	Red	Red	White	Red	Red	Red	Red	Red	Red	Blue	Red
Innovative spirit and entrepreneurship	Red	Red	Red	Red	Red	White	Red	Red	Red	Red	Red	Red	Blue	Red
International relations	Red	Red	Red	Red	Red	White	Red	Red	Red	Red	Red	Red	Blue	Red
Perceived quality of PT	Red	Red	Red	Red	Blue	Red	Red	Red	Red	Blue	Red	Red	Blue	Red
Improved conditions for impaired and/or elderly people	Red	Red	Blue	Red	Red	White	Red	Red	Red	Red	Red	Red	Blue	Red
Vulnerable Road Users safety	Blue	Red	Red	Red	Red	White	Red	Red	Red	Red	Red	Red	Red	Blue
Parking availability	Blue	Red	Red	Red	Red	White	Red	Red	Red	Red	Red	Red	Red	Blue
Perceived quality of the infrastructures	Red	Red	Red	Red	Blue	White	Red	Red	Red	Blue	Red	Red	Red	Red
Accessibility	Blue	Red	Blue	Red	Red	White	Red	Red	Red	Red	Red	Red	Blue	Red
Transport safety	Red	Red	Red	Red	Red	White	Red	Red	Red	Red	Red	Red	Red	Red
On board security	Blue	Red	Red	Red	Red	White	Red	Red	Red	Red	Blue	Red	Red	Red
Parking security	Blue	Red	Red	Red	Red	White	Red	Red	Red	Blue	Red	Red	Red	Red
Operators business	Red	Red	Red	Red	Red	White	Red	Red	Red	Red	Red	Red	Blue	Red
Use of renewable resources	Red	Red	Blue	Red	Red	White	Red	Red	Red	Red	Red	Red	Red	Red
Education and qualification	Red	Red	Red	Red	Red	White	Red	Red	Red	Red	Red	Red	Blue	Red
Quality of city services (other than transport)	Red	Red	Blue	Red	Red	White	Red	Red	Red	Red	Red	Red	Blue	Red
Individual safety	Blue	Red	Blue	Red	Blue	White	Red	Red	Red	Red	Red	Red	Red	Red
Housing quality	Red	Red	Red	Red	Red	White	Red	Red	Red	Red	Red	Red	Blue	Red
Governance transparency and accountability	Red	Red	Red	Red	Red	White	Red	Red	Red	Red	Red	Red	Blue	Red
Labour market flexibility	Red	Red	Red	Red	Blue	White	Red	Red	Red	Red	Red	Red	Blue	Red
Issues matched	24	24	24	24	21	7	24	24	24	22	24	24	19	22
Start-up average value of the matching	3.17	3.17	3.17	3.17	3.19	2.71	3.17	3.17	3.17	3.23	3.17	3.17	3.26	3.09

	Friedrikstad	Patras	Naples	Messina	Wintertur	Helsinki	Kalamata	Cluj Napoca	Malaga	Copenhagen	Carouge	Turku	Barcelona	Letterkenny
Acousticity														
Noise														
Attractiveness/beauty of natural surroundings														
City image (e.g tech-driven)														
Perceived quality of the infrastructures														
Improved conditions for soft modes														
Awareness increase about sustainability														
Individual safety														
Cost and sustainability														
Operators business														
Plurality and participation in public life														
Cosmopolitanism or Open mindedness														
Quality of city services (other than transport)														
Health														
Housing quality														
Governance transparency and accountability														
Citizens' participation in decision-making														
Citizens' participation in public and social services														
Congestion														
Parking availability														
Info mobility														
Perceived quality of PT														
Improved conditions for impaired and/or elderly people														
Accessibility														
Transport safety														
Vulnerable Road Users safety														
On board security														
Parking security														
Emissions														
Use of renewable resources														
Land use														
Education and qualification														
Creativity														
Accessibility to services other than transport														
Productivity														
Labour market flexibility														
Innovative spirit and entrepreneurship														
International relations														
Issues matched	36	37	37	37	30	15	37	37	37	35	36	37	30	35
Start-up average value of the matching	1.75	1.73	1.73	1.73	1.73	1.47	1.73	1.73	1.73	1.74	1.75	1.73	1.80	1.77

	Friedrikstad	Patras	Naples	Messina	Wintertur	Helsinki	Kalamata	Cluj Napoca	Malaga	Copenhagen	Carouge	Turku	Barcelona	Letterkenny
Bettair														
Emissions	Red	Red	Red	Red	Red	White	Red	Red	Red	Red	Red	Red	Red	Red
Noise	Blue	Yellow	Yellow	Red	Yellow	White	Yellow	Red	Red	Red	Red	Yellow	Yellow	Blue
City image (e.g tech-driven)	Red	Red	Red	Red	Red	White	Red	Red	Red	Red	Red	Yellow	Yellow	Red
Individual safety	Blue	Yellow	Blue	Yellow	Blue	White	Red	Red	Red	Red	Red	Yellow	Yellow	Red
Health	Yellow	Yellow	Blue	Yellow	Yellow	White	Red	Red	Red	Red	Red	Red	Yellow	Red
Citizens' participation in decision-making	Yellow	Yellow	Yellow	Red	Yellow	White	Yellow	Red	Red	Red	Red	Yellow	Blue	Blue
Attractiveness/beauty of natural surroundings	Blue	Red	Red	Red	Yellow	White	Red	Red	Red	Red	Red	Red	Yellow	Red
Awareness increase about sustainability	Red	Yellow	Blue	Red	Yellow	White	Red	Red	Red	Red	Red	Yellow	Yellow	Yellow
Governance transparency and accountability	Yellow	Yellow	Yellow	Red	Yellow	White	Yellow	Red	Red	Red	Red	Yellow	Blue	Red
Use of renewable resources	Yellow	Yellow	Blue	Red	Red	White	Yellow	Red	Red	Red	Red	Red	Yellow	Red
Education and qualification	Red	Red	Yellow	Red	Red	White	Red	Red	Red	Red	Red	Blue	Blue	Red
Quality of city services (other than transport)	Yellow	Red	Blue	Red	Red	White	Red	Red	Red	Red	Red	Blue	Blue	Yellow
Housing quality	Yellow	Yellow	Blue	Red	Yellow	White	Yellow	Red	Red	Red	Red	Yellow	Blue	Yellow
Citizens' participation in public and social services	Yellow	Yellow	Blue	Red	Yellow	White	Red	Red	Red	Red	Red	Blue	Blue	Yellow
Innovative spirit and entrepreneurship	Red	Red	Red	Red	Yellow	White	Red	Red	Red	Red	Red	Red	Blue	Red
International relations	Yellow	Red	Red	Red	Yellow	White	Red	Red	Red	Red	Red	Red	Blue	Red
Land use	Blue	Yellow	Blue	Red	Blue	White	Red	Red	Red	Red	Red	Red	Yellow	Blue
Plurality and participation in public life	Yellow	Yellow	Blue	Yellow	Blue	White	Red	Red	Red	Red	Red	Yellow	Blue	Yellow
Creativity	Blue	Yellow	Yellow	Red	Blue	White	Red	Red	Red	Red	Red	Yellow	Blue	Yellow
Cosmopolitanism or Open mindedness	Blue	Red	Red	Red	Blue	White	Red	Red	Red	Red	Red	Red	Blue	Yellow
Accessibility to services other than transport	Yellow	Yellow	Yellow	Yellow	Blue	White	Red	Red	Red	Red	Red	Red	Blue	Yellow
Productivity	Yellow	Yellow	Yellow	Red	Blue	White	Red	Red	Red	Red	Red	Red	Blue	Yellow
Labour market flexibility	Blue	Yellow	Yellow	Yellow	Blue	White	Red	Red	Red	Red	Red	Red	Blue	Red
Congestion	Yellow	Red	Red	Red	Yellow	White	Red	Red	Red	Red	Red	Red	Red	Yellow
Parking availability	Blue	Red	Red	Red	Blue	White	Red	Red	Red	Red	Red	Red	Red	Yellow
Info mobility	Yellow	Red	Red	Red	Red	White	Red	Red	Red	Red	Red	Red	Yellow	Blue
Perceived quality of PT	Yellow	Yellow	Yellow	Yellow	Blue	White	Red	Red	Red	Red	Red	Red	Blue	Blue
Perceived quality of the infrastructures	Yellow	Yellow	Red	Red	Blue	White	Red	Red	Red	Red	Red	Red	Red	Yellow
Improved conditions for soft modes	Red	Yellow	Blue	Red	Blue	White	Red	Red	Red	Red	Red	Red	Yellow	Blue
Improved conditions for impaired and/or elderly people	Yellow	Yellow	Blue	Red	Blue	White	Red	Red	Red	Red	Red	Red	Blue	Yellow
Accessibility	Blue	Yellow	Blue	Red	Blue	White	Red	Red	Red	Red	Red	Red	Blue	Yellow
Transport safety	Yellow	Yellow	Red	Red	Yellow	White	Red	Red	Red	Red	Red	Red	Yellow	Yellow
Vulnerable Road Users safety	Yellow	Red	Red	Red	Yellow	White	Red	Red	Red	Red	Red	Red	Yellow	Blue
On board security	Blue	Yellow	Yellow	Yellow	Yellow	White	Red	Red	Red	Red	Blue	Red	Yellow	Yellow
Parking security	Blue	Yellow	Yellow	Yellow	Blue	White	Red	Red	Red	Red	Red	Red	Yellow	Yellow
Cost and sustainability	Yellow	Yellow	Yellow	Yellow	Red	White	Red	Red	Red	Red	Red	Red	Blue	Yellow
Operators business	Yellow	Yellow	Yellow	Yellow	Red	White	Red	Red	Red	Red	Red	Red	Blue	Yellow
Issues matched	23	23	23	23	20	0	23	23	23	23	23	23	17	22
Start-up average value of the matching	2.35	2.35	2.35	2.35	2.40	0.00	2.35	2.35	2.35	2.35	2.35	2.35	2.53	2.41

Save - a - space

	Friedrikstad	Patras	Naples	Messina	Wintertur	Helsinki	Kalamata	Cluj Napoca	Malaga	Copenhagen	Carouge	Turku	Barcelona	Letterkenny
Parking availability	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red
Info mobility	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
Perceived quality of PT	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red
Perceived quality of the infrastructures	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
Operators business	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
Land use	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red
Accessibility to services other than transport	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
City image (e.g tech-driven)	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red
Parking security	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
Cost and sustainability	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
Emissions	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
Plurality and participation in public life	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
Quality of city services (other than transport)	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
Productivity	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
Congestion	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
Improved conditions for impaired and/or elderly people	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
Accessibility	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
Noise	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
Awareness increase about sustainability	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
Cosmopolitanism or Open mindedness	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
Individual safety	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
Health	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
International relations	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
Improved conditions for soft modes	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
Transport safety	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
Vulnerable Road Users safety	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
On board security	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
Use of renewable resources	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
Attractiveness/beauty of natural surroundings	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
Education and qualification	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
Creativity	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
Housing quality	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
Governance transparency and accountability	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
Citizens' participation in decision-making	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
Citizens' participation in public and social services	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
Labour market flexibility	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
Innovative spirit and entrepreneurship	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
Issues matched	36	37	37	37	30	14	37	37	37	35	36	37	30	35
Start-up average value of the matching	2.19	2.22	2.22	2.22	2.13	2.57	2.22	2.22	2.22	2.14	2.25	2.22	2.30	2.11

Fiware	Friedrikstad	Patras	Naples	Messina	Wintertur	Helsinki	Kalamata	Cluj Napoca	Malaga	Copenhagen	Carouge	Turku	Barcelona	Letterkenny
Info mobility														
Perceived quality of the infrastructures														
Cosmopolitanism or Open mindedness														
City image (e.g tech-driven)														
Innovative spirit and entrepreneurship														
International relations														
Accessibility to services other than transport														
Productivity														
Parking availability														
Improved conditions for impaired and/or elderly people														
Accessibility														
Cost and sustainability														
Operators business														
Emissions														
Attractiveness/beauty of natural surroundings														
Awareness increase about sustainability														
Quality of city services (other than transport)														
Citizens' participation in public and social services														
Congestion														
Improved conditions for soft modes														
Transport safety														
Vulnerable Road Users safety														
On board security														
Parking security														
Noise														
Use of renewable resources														
Land use														
Education and qualification														
Plurality and participation in public life														
Creativity														
Individual safety														
Health														
Housing quality														
Governance transparency and accountability														
Citizens' participation in decision-making														
Labour market flexibility														
Perceived quality of PT														
Issues matched	35	36	36	36	30	13	36	36	36	35	35	36	29	34
Start-up average value of the matching	1.91	1.89	1.89	1.89	1.83	1.85	1.89	1.89	1.89	1.89	1.91	1.89	1.93	1.85

Bustimize	Friedrikstad	Patras	Naples	Messina	Wintertur	Helsinki	Kalamata	Cluj Napoca	Malaga	Copenhagen	Carouge	Turku	Barcelona	Letterkenny
Perceived quality of PT	10	10	10	10	7	6	10	10	10	8	10	10	9	10
Cost and sustainability	2.40	2.40	2.40	2.40	2.29	2.83	2.40	2.40	2.40	2.00	2.40	2.40	2.56	2.40
Operators business	10	10	10	10	7	6	10	10	10	8	10	10	9	10
Perceived quality of the infrastructures	2.40	2.40	2.40	2.40	2.29	2.83	2.40	2.40	2.40	2.00	2.40	2.40	2.56	2.40
Accessibility	10	10	10	10	7	6	10	10	10	8	10	10	9	10
Emissions	2.40	2.40	2.40	2.40	2.29	2.83	2.40	2.40	2.40	2.00	2.40	2.40	2.56	2.40
Awareness increase about sustainability	10	10	10	10	7	6	10	10	10	8	10	10	9	10
Productivity	2.40	2.40	2.40	2.40	2.29	2.83	2.40	2.40	2.40	2.00	2.40	2.40	2.56	2.40
Congestion	10	10	10	10	7	6	10	10	10	8	10	10	9	10
Quality of city services (other than transport)	2.40	2.40	2.40	2.40	2.29	2.83	2.40	2.40	2.40	2.00	2.40	2.40	2.56	2.40
Parking availability	10	10	10	10	7	6	10	10	10	8	10	10	9	10
Info mobility	2.40	2.40	2.40	2.40	2.29	2.83	2.40	2.40	2.40	2.00	2.40	2.40	2.56	2.40
Improved conditions for soft modes	10	10	10	10	7	6	10	10	10	8	10	10	9	10
Improved conditions for impaired and/or elderly people	2.40	2.40	2.40	2.40	2.29	2.83	2.40	2.40	2.40	2.00	2.40	2.40	2.56	2.40
Transport safety	10	10	10	10	7	6	10	10	10	8	10	10	9	10
Vulnerable Road Users safety	2.40	2.40	2.40	2.40	2.29	2.83	2.40	2.40	2.40	2.00	2.40	2.40	2.56	2.40
On board security	10	10	10	10	7	6	10	10	10	8	10	10	9	10
Parking security	2.40	2.40	2.40	2.40	2.29	2.83	2.40	2.40	2.40	2.00	2.40	2.40	2.56	2.40
Noise	10	10	10	10	7	6	10	10	10	8	10	10	9	10
Use of renewable resources	2.40	2.40	2.40	2.40	2.29	2.83	2.40	2.40	2.40	2.00	2.40	2.40	2.56	2.40
Land use	10	10	10	10	7	6	10	10	10	8	10	10	9	10
Attractiveness/beauty of natural surroundings	2.40	2.40	2.40	2.40	2.29	2.83	2.40	2.40	2.40	2.00	2.40	2.40	2.56	2.40
Education and qualification	10	10	10	10	7	6	10	10	10	8	10	10	9	10
Plurality and participation in public life	2.40	2.40	2.40	2.40	2.29	2.83	2.40	2.40	2.40	2.00	2.40	2.40	2.56	2.40
Creativity	10	10	10	10	7	6	10	10	10	8	10	10	9	10
Cosmopolitanism or Open mindedness	2.40	2.40	2.40	2.40	2.29	2.83	2.40	2.40	2.40	2.00	2.40	2.40	2.56	2.40
Accessibility to services other than transport	10	10	10	10	7	6	10	10	10	8	10	10	9	10
City image (e.g tech-driven)	2.40	2.40	2.40	2.40	2.29	2.83	2.40	2.40	2.40	2.00	2.40	2.40	2.56	2.40
Individual safety	10	10	10	10	7	6	10	10	10	8	10	10	9	10
Health	2.40	2.40	2.40	2.40	2.29	2.83	2.40	2.40	2.40	2.00	2.40	2.40	2.56	2.40
Housing quality	10	10	10	10	7	6	10	10	10	8	10	10	9	10
Governance transparency and accountability	2.40	2.40	2.40	2.40	2.29	2.83	2.40	2.40	2.40	2.00	2.40	2.40	2.56	2.40
Citizens' participation in decision-making	10	10	10	10	7	6	10	10	10	8	10	10	9	10
Citizens' participation in public and social services	2.40	2.40	2.40	2.40	2.29	2.83	2.40	2.40	2.40	2.00	2.40	2.40	2.56	2.40
Labour market flexibility	10	10	10	10	7	6	10	10	10	8	10	10	9	10
Innovative spirit and entrepreneurship	2.40	2.40	2.40	2.40	2.29	2.83	2.40	2.40	2.40	2.00	2.40	2.40	2.56	2.40
International relations	10	10	10	10	7	6	10	10	10	8	10	10	9	10
Issues matched	10	10	10	10	7	6	10	10	10	8	10	10	9	10
Start-up average value of the matching	2.40	2.40	2.40	2.40	2.29	2.83	2.40	2.40	2.40	2.00	2.40	2.40	2.56	2.40

FI ASSIST	Friedrikstad	Patras	Naples	Messina	Wintertur	Helsinki	Kalamata	Cluj Napoca	Malaga	Copenhagen	Carouge	Turku	Barcelona	Letterkenny
Improved conditions for impaired and/or elderly people														
Perceived quality of the infrastructures														
Improved conditions for soft modes														
On board security														
Transport safety														
Accessibility to services other than transport														
Housing quality														
Accessibility														
Vulnerable Road Users safety														
Individual safety														
Congestion														
Parking availability														
Info mobility														
Perceived quality of PT														
Parking security														
Cost and sustainability														
Operators business														
Emissions														
Noise														
Use of renewable resources														
Land use														
Attractiveness/beauty of natural surroundings														
Awareness increase about sustainability														
Education and qualification														
Plurality and participation in public life														
Creativity														
Cosmopolitanism or Open mindedness														
Quality of city services (other than transport)														
City image (e.g tech-driven)														
Health														
Governance transparency and accountability														
Citizens' participation in decision-making														
Citizens' participation in public and social services														
Productivity														
Labour market flexibility														
Innovative spirit and entrepreneurship														
International relations														
Issues matched	10	10	10	10	7	7	10	10	10	10	9	10	8	10
Start-up average value of the matching	2.20	2.20	2.20	2.20	2.43	2.43	2.20	2.20	2.20	2.20	2.33	2.20	2.00	2.20

greenApes	Friedrikstad	Patras	Naples	Messina	Wintertur	Helsinki	Kalamata	Cluj Napoca	Malaga	Copenhagen	Carouge	Turku	Barcelona	Letterkenny
Awareness increase about sustainability	Red	Yellow	Blue	Red	Yellow	White	Red	Red	Yellow	Red	Red	Yellow	Blue	Yellow
Creativity	Red	Yellow	Yellow	Red	Blue	White	Yellow	Red	Yellow	Blue	Yellow	Yellow	Blue	Yellow
Accessibility to services other than transport	Red	Yellow	Yellow	Yellow	Blue	White	Yellow	Red	Yellow	Red	Red	Red	Blue	Yellow
City image (e.g tech-driven)	Red	Red	Blue	Red	Yellow	White	Red	Red	Yellow	Red	Red	Yellow	Blue	Yellow
Citizens' participation in public and social services	Red	Yellow	Blue	Red	Yellow	White	Red	Red	Yellow	Red	Red	Yellow	Blue	Yellow
Citizens' participation in decision-making	Yellow	Yellow	Yellow	Red	Yellow	White	Yellow	Red	Yellow	Red	Red	Yellow	Blue	Yellow
Plurality and participation in public life	Blue	Yellow	Blue	Yellow	Blue	White	Red	Red	Yellow	Blue	Yellow	Yellow	Blue	Yellow
Congestion	Yellow	Red	Red	Red	Yellow	White	Yellow	Red	Yellow	Yellow	Yellow	Red	Yellow	Yellow
Parking availability	Blue	Yellow	Red	Yellow	Blue	White	Yellow	Red	Yellow	Blue	Yellow	Red	Yellow	Yellow
Info mobility	Yellow	Yellow	Red	Yellow	Red	Red	Yellow	Red	Yellow	Yellow	Yellow	Yellow	Blue	Yellow
Perceived quality of PT	Yellow	Yellow	Yellow	Yellow	Blue	Red	Yellow	Red	Red	Blue	Red	Red	Blue	Yellow
Perceived quality of the infrastructures	Yellow	Yellow	Red	Yellow	Blue	Red	Yellow	Red	Red	Blue	Yellow	Red	Yellow	Yellow
Improved conditions for soft modes	Red	Yellow	Blue	Red	Red	Red	Yellow	Red	Red	Red	Red	Yellow	Blue	Yellow
Improved conditions for impaired and/or elderly people	Yellow	Yellow	Yellow	Yellow	Blue	Red	Red	Red	Yellow	Red	Red	Red	Blue	Yellow
Accessibility	Blue	Yellow	Blue	Red	Blue	White	Yellow	Red	Yellow	Red	Red	Red	Blue	Yellow
Transport safety	Yellow	Yellow	Yellow	Red	Yellow	Red	Yellow	Red	Red	Red	Red	Red	Yellow	Yellow
Vulnerable Road Users safety	Yellow	Red	Yellow	Red	Red	Red	Yellow	Red	Red	Red	Red	Red	Yellow	Yellow
On board security	Blue	Yellow	Yellow	Yellow	Yellow	White	Yellow	Red	Yellow	Blue	Red	Yellow	Yellow	Yellow
Parking security	Blue	Yellow	Yellow	Yellow	Blue	White	Yellow	Red	Red	Blue	Yellow	Yellow	Yellow	Yellow
Cost and sustainability	Yellow	Yellow	Yellow	Red	Red	Red	Yellow	Red	Red	Red	Red	Red	Blue	Yellow
Operators business	Yellow	Yellow	Yellow	Red	Yellow	White	Yellow	Red	Red	Yellow	Red	Red	Blue	Yellow
Emissions	Yellow	Yellow	Yellow	Red	Yellow	White	Yellow	Red	Yellow	Red	Red	Red	Blue	Yellow
Noise	Blue	Yellow	Yellow	Red	Yellow	White	Yellow	Red	Yellow	Yellow	Yellow	Yellow	Blue	Yellow
Use of renewable resources	Yellow	Yellow	Blue	Red	Red	White	Yellow	Red	Yellow	Red	Red	Red	Yellow	Red
Land use	Blue	Yellow	Red	Red	Blue	White	Yellow	Red	Yellow	Blue	Yellow	Red	Yellow	Red
Attractiveness/beauty of natural surroundings	Blue	Red	Red	Yellow	Yellow	White	Red	Red	Yellow	Red	Yellow	Red	Yellow	Red
Education and qualification	Red	Red	Yellow	Red	Red	White	Red	Red	Red	Red	Red	Red	Blue	Red
Cosmopolitanism or Open mindedness	Yellow	Red	Red	Red	Blue	White	Yellow	Red	Red	Yellow	Blue	Yellow	Blue	Yellow
Quality of city services (other than transport)	Yellow	Red	Blue	Yellow	Red	White	Red	Red	Yellow	Red	Red	Yellow	Blue	Yellow
Individual safety	Blue	Yellow	Yellow	Yellow	Blue	White	Yellow	Red	Yellow	Red	Red	Red	Blue	Yellow
Health	Yellow	Yellow	Blue	Yellow	Blue	White	Yellow	Red	Yellow	Yellow	Red	Red	Yellow	Red
Housing quality	Yellow	Yellow	Blue	Red	Yellow	White	Yellow	Red	Yellow	Yellow	Yellow	Yellow	Blue	Yellow
Governance transparency and accountability	Yellow	Yellow	Yellow	Red	Yellow	White	Yellow	Red	Yellow	Yellow	Red	Yellow	Blue	Red
Productivity	Yellow	Yellow	Yellow	Red	Blue	White	Yellow	Red	Yellow	Red	Yellow	Red	Blue	Yellow
Labour market flexibility	Yellow	Yellow	Yellow	Yellow	Blue	White	Yellow	Red	Yellow	Red	Red	Red	Blue	Red
Innovative spirit and entrepreneurship	Red	Red	Red	Red	Yellow	White	Yellow	Red	Red	Yellow	Red	Red	Blue	Red
International relations	Red	Red	Red	Red	Yellow	White	Yellow	Red	Red	Yellow	Red	Red	Blue	Red
Issues matched	7	7	7	7	6	0	7	7	7	7	7	7	3	7
Start-up average value of the matching	3.29	3.29	3.29	3.29	3.17	0.00	3.29	3.29	3.29	3.29	3.29	3.29	3.00	3.29

SaMMY	Friedrikstad	Patras	Naples	Messina	Wintertur	Helsinki	Kalamata	Cluj Napoca	Malaga	Copenhagen	Carouge	Turku	Barcelona	Letterkenny
Parking availability	Red	Red	Red	Yellow	Blue	Yellow	Yellow	Red	Yellow	Blue	Yellow	Yellow	Red	Yellow
Info mobility	Yellow	Yellow	Red	Yellow	Red	Red	Yellow	Red	Red	Yellow	Yellow	Yellow	Yellow	Blue
Perceived quality of the infrastructures	Red	Yellow	Red	Yellow	Blue	Red	Yellow	Red	Red	Blue	Yellow	Red	Yellow	Yellow
Parking security	Blue	Yellow	Yellow	Yellow	Blue	Yellow	Yellow	Red	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
Emissions	Yellow	Yellow	Yellow	Yellow	Yellow	White	Yellow	Red	Yellow	Red	Yellow	Yellow	Red	Blue
Noise	Blue	Yellow	Yellow	Red	Yellow	White	Yellow	Red	Yellow	Yellow	Yellow	Yellow	Yellow	Blue
Attractiveness/beauty of natural surroundings	Blue	Red	Red	Yellow	Yellow	White	Red	Yellow	Yellow	Red	Yellow	Yellow	Yellow	Red
Cosmopolitanism or Open mindedness	Red	Yellow	Yellow	Red	Blue	White	Yellow	Red	Red	Yellow	Blue	Yellow	Blue	Yellow
Accessibility to services other than transport	Yellow	Yellow	Yellow	Yellow	Blue	White	Yellow	Red	Red	Yellow	Yellow	Yellow	Yellow	Yellow
City image (e.g tech-driven)	Red	Red	Yellow	Yellow	Red	White	Yellow	Red	Yellow	Yellow	Yellow	Yellow	Yellow	Red
Innovative spirit and entrepreneurship	Red	Red	Red	Yellow	Yellow	White	Yellow	Red	Yellow	Yellow	Yellow	Yellow	Blue	Red
International relations	Red	Red	Red	Yellow	Yellow	White	Yellow	Red	Yellow	Yellow	Yellow	Yellow	Blue	Red
Operators business	Yellow	Yellow	Yellow	Yellow	Red	Yellow	Red	Red	Yellow	Yellow	Yellow	Yellow	Blue	Yellow
Congestion	Yellow	Red	Red	Red	Red	Yellow	Red	Red	Red	Blue	Red	Red	Red	Blue
Perceived quality of PT	Yellow	Yellow	Yellow	Yellow	Blue	Red	Yellow	Red	Red	Blue	Red	Red	Blue	Blue
Cost and sustainability	Yellow	Yellow	Yellow	Red	Yellow	White	Red	Red	Red	Blue	Red	Red	Blue	Yellow
Awareness increase about sustainability	Red	Yellow	Blue	Red	Yellow	White	Red	Red	Yellow	Red	Red	Red	Yellow	Yellow
Education and qualification	Red	Red	Yellow	Red	Red	White	Red	Red	Yellow	Yellow	Yellow	Yellow	Blue	Red
Plurality and participation in public life	Yellow	Yellow	Blue	Yellow	Blue	White	Red	Red	Yellow	Blue	Yellow	Yellow	Yellow	Yellow
Quality of city services (other than transport)	Yellow	Red	Blue	Red	Red	White	Red	Red	Red	Yellow	Yellow	Yellow	Blue	Yellow
Governance transparency and accountability	Yellow	Yellow	Yellow	Red	Yellow	White	Yellow	Red	Red	Yellow	Yellow	Yellow	Blue	Red
Labour market flexibility	Yellow	Yellow	Yellow	Yellow	Blue	White	Yellow	Red	Red	Yellow	Yellow	Yellow	Blue	Red
Improved conditions for soft modes	Red	Yellow	Blue	Red	Red	Red	Red	Red	Yellow	Yellow	Yellow	Yellow	Yellow	Blue
Improved conditions for impaired and/or elderly people	Yellow	Yellow	Blue	Yellow	Blue	Red	Red	Red	Yellow	Yellow	Yellow	Yellow	Blue	Yellow
Accessibility	Blue	Yellow	Blue	Red	Blue	Red	Red	Red	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
Transport safety	Yellow	Yellow	Red	Red	Yellow	Red	Red	Red	Red	Red	Red	Red	Yellow	Yellow
Vulnerable Road Users safety	Yellow	Red	Yellow	Red	Red	White	Red	Red	Red	Red	Red	Red	Yellow	Blue
On board security	Blue	Yellow	Yellow	Yellow	Yellow	White	Red	Red	Yellow	Blue	Red	Yellow	Yellow	Yellow
Use of renewable resources	Yellow	Yellow	Blue	Red	Red	White	Yellow	Red	Yellow	Red	Red	Yellow	Yellow	Red
Land use	Blue	Yellow	Blue	Red	Yellow	White	Red	Red	Yellow	Yellow	Yellow	Yellow	Blue	Yellow
Creativity	Yellow	Yellow	Yellow	Red	Blue	White	Red	Red	Yellow	Blue	Yellow	Yellow	Blue	Yellow
Individual safety	Blue	Yellow	Blue	Yellow	Blue	White	Red	Red	Yellow	Yellow	Red	Yellow	Yellow	Red
Health	Yellow	Yellow	Blue	Yellow	Yellow	White	Red	Red	Yellow	Yellow	Yellow	Yellow	Yellow	Red
Housing quality	Yellow	Yellow	Blue	Red	Yellow	White	Yellow	Red	Yellow	Yellow	Yellow	Yellow	Blue	Yellow
Citizens' participation in decision-making	Yellow	Yellow	Blue	Red	Yellow	White	Red	Red	Yellow	Yellow	Red	Yellow	Blue	Yellow
Citizens' participation in public and social services	Yellow	Yellow	Blue	Red	Yellow	White	Red	Red	Yellow	Yellow	Red	Yellow	Blue	Yellow
Productivity	Yellow	Yellow	Yellow	Red	Blue	White	Red	Red	Yellow	Red	Yellow	Red	Blue	Yellow
Issues matched	37	37	37	37	30	14	37	37	37	35	36	37	30	35
Start-up average value of the matching	2.27	2.27	2.27	2.27	2.23	2.21	2.27	2.27	2.27	2.29	1.94	2.27	2.40	2.26

IDA	Friedrikstad	Patras	Naples	Messina	Wintertur	Helsinki	Kalamata	Cluj Napoca	Malaga	Copenhagen	Carouge	Turku	Barcelona	Letterkenny
Emissions	Red	Yellow	Yellow	Yellow	Yellow	White	Yellow	Red	Yellow	Red	Red	Yellow	Red	White
Noise	Blue	Yellow	Yellow	Red	Yellow	White	Yellow	Red	Red	Red	Red	Yellow	Yellow	Blue
Use of renewable resources	Red	Yellow	Blue	Red	Red	White	Yellow	Red	Yellow	Red	Red	Red	Yellow	White
Land use	Blue	Yellow	Yellow	Red	Blue	White	Red	Red	Yellow	Blue	Yellow	Red	Yellow	Blue
Awareness increase about sustainability	Red	Yellow	Blue	Red	Yellow	White	Red	Red	Yellow	Red	Red	Yellow	Yellow	White
Plurality and participation in public life	Yellow	Yellow	Blue	Yellow	Blue	White	Red	Red	Yellow	Blue	Yellow	Yellow	Blue	Yellow
Individual safety	Blue	Yellow	Blue	Yellow	Blue	White	Red	Red	Yellow	Yellow	Red	Yellow	Yellow	Red
Health	Yellow	Yellow	Blue	Yellow	Yellow	White	Red	Red	Yellow	Yellow	Red	Yellow	Yellow	White
Housing quality	Yellow	Yellow	Blue	Red	Yellow	White	Red	Red	Yellow	Yellow	Yellow	Yellow	Blue	Yellow
Governance transparency and accountability	Yellow	Yellow	Blue	Red	Yellow	White	Red	Red	Yellow	Yellow	Red	Yellow	Blue	Red
Citizens' participation in decision-making	Yellow	Yellow	Blue	Red	Yellow	White	Red	Red	Yellow	Yellow	Red	Yellow	Blue	Blue
Citizens' participation in public and social services	Yellow	Yellow	Blue	Red	Yellow	White	Red	Red	Yellow	Yellow	Red	Yellow	Blue	Yellow
Quality of city services (other than transport)	Yellow	Red	Blue	Yellow	Red	White	Red	Red	Yellow	Yellow	Red	Yellow	Blue	Yellow
City image (e.g tech-driven)	Yellow	Yellow	Blue	Red	Blue	White	Red	Red	Yellow	Yellow	Red	Yellow	Blue	Red
Productivity	Yellow	Yellow	Blue	Red	Blue	White	Red	Red	Yellow	Yellow	Red	Yellow	Blue	Yellow
Labour market flexibility	Yellow	Yellow	Blue	Red	Blue	White	Red	Red	Yellow	Yellow	Red	Yellow	Blue	Red
International relations	Yellow	Yellow	Blue	Red	Yellow	White	Red	Red	Yellow	Yellow	Red	Yellow	Blue	Red
Attractiveness/beauty of natural surroundings	Blue	Yellow	Blue	Red	Yellow	White	Red	Red	Yellow	Red	Yellow	Yellow	Blue	Yellow
Education and qualification	Yellow	Yellow	Blue	Red	Blue	White	Red	Red	Yellow	Yellow	Red	Yellow	Blue	Yellow
Creativity	Blue	Yellow	Blue	Red	Blue	White	Red	Red	Yellow	Blue	Yellow	Yellow	Blue	Yellow
Cosmopolitanism or Open mindedness	Blue	Yellow	Blue	Red	Blue	White	Red	Red	Yellow	Yellow	Blue	Yellow	Blue	Yellow
Accessibility to services other than transport	Yellow	Yellow	Blue	Red	Blue	White	Red	Red	Yellow	Yellow	Red	Yellow	Blue	Yellow
Innovative spirit and entrepreneurship	Blue	Yellow	Blue	Red	Yellow	White	Red	Red	Yellow	Yellow	Red	Yellow	Blue	Red
Congestion	Yellow	Yellow	Blue	Red	Yellow	White	Red	Red	Yellow	Yellow	Red	Yellow	Blue	Yellow
Parking availability	Blue	Yellow	Blue	Red	Blue	White	Red	Red	Yellow	Blue	Yellow	Yellow	Blue	Yellow
Info mobility	Yellow	Yellow	Blue	Red	Red	White	Red	Red	Yellow	Yellow	Yellow	Yellow	Blue	Blue
Perceived quality of PT	Yellow	Yellow	Blue	Red	Blue	White	Red	Red	Yellow	Blue	Red	Yellow	Blue	Blue
Perceived quality of the infrastructures	Yellow	Yellow	Blue	Red	Blue	White	Red	Red	Yellow	Blue	Yellow	Yellow	Blue	Yellow
Improved conditions for soft modes	Red	Yellow	Blue	Red	Blue	White	Red	Red	Yellow	Red	Red	Yellow	Blue	Blue
Improved conditions for impaired and/or elderly people	Yellow	Yellow	Blue	Red	Blue	White	Red	Red	Yellow	Yellow	Red	Yellow	Blue	Yellow
Accessibility	Blue	Yellow	Blue	Red	Blue	White	Red	Red	Yellow	Yellow	Red	Yellow	Blue	Yellow
Transport safety	Yellow	Yellow	Blue	Red	Yellow	White	Red	Red	Yellow	Yellow	Red	Yellow	Blue	Yellow
Vulnerable Road Users safety	Yellow	Red	Blue	Red	Yellow	White	Red	Red	Yellow	Yellow	Red	Yellow	Blue	Yellow
On board security	Blue	Yellow	Blue	Red	Blue	White	Red	Red	Yellow	Blue	Blue	Yellow	Blue	Yellow
Parking security	Blue	Yellow	Blue	Red	Blue	White	Red	Red	Yellow	Yellow	Red	Yellow	Blue	Yellow
Cost and sustainability	Yellow	Yellow	Blue	Red	Red	White	Red	Red	Yellow	Blue	Red	Yellow	Blue	Yellow
Operators business	Yellow	Yellow	Blue	Red	Yellow	White	Red	Red	Yellow	Yellow	Red	Yellow	Blue	Yellow
Issues matched	23	23	23	23	20	0	23	23	23	23	23	23	17	22
Start-up average value of the matching	3.09	3.09	3.09	3.09	3.25	0.00	3.09	3.09	3.09	3.09	3.09	3.09	3.24	3.05

ROSY	Friedrikstad	Patras	Naples	Messina	Wintertur	Helsinki	Kalamata	Cluj Napoca	Malaga	Copenhagen	Carouge	Turku	Barcelona	Letterkenny
Congestion	Red	Red	Red	Red	Yellow	Red	Yellow	Red	Red	Yellow	Yellow	Yellow	Red	Yellow
Info mobility	Yellow	Yellow	Red	Yellow	Yellow	Red	Yellow	Red	Red	Yellow	Yellow	Yellow	Yellow	Blue
Operators business	Yellow	Yellow	Yellow	Yellow	Red	Yellow	Red	Red	Red	Yellow	Red	Yellow	Blue	Yellow
Emissions	Yellow	Yellow	Yellow	Yellow	Yellow	White	Yellow	Red	Red	Yellow	Red	Yellow	Yellow	Blue
Noise	Blue	Yellow	Yellow	Red	Yellow	White	Yellow	Red	Red	Yellow	Red	Yellow	Yellow	Blue
City image (e.g tech-driven)	Red	Red	Yellow	Red	Red	White	Yellow	Red	Red	Yellow	Yellow	Yellow	Yellow	Red
Accessibility to services other than transport	Yellow	Yellow	Yellow	Yellow	Blue	White	Yellow	Red	Red	Yellow	Red	Yellow	Blue	Yellow
Parking availability	Blue	Red	Red	Yellow	Blue	Yellow	Red	Red	Yellow	Blue	Yellow	Yellow	Red	Blue
Improved conditions for soft modes	Yellow	Yellow	Blue	Red	Yellow	White	Red	Red	Red	Yellow	Red	Yellow	Yellow	Blue
Awareness increase about sustainability	Red	Yellow	Blue	Red	Yellow	White	Red	Red	Red	Yellow	Red	Yellow	Yellow	Yellow
Individual safety	Blue	Yellow	Blue	Yellow	Blue	White	Red	Red	Yellow	Yellow	Red	Yellow	Yellow	Red
Health	Yellow	Yellow	Blue	Yellow	Yellow	White	Red	Red	Red	Yellow	Red	Yellow	Yellow	Red
Governance transparency and accountability	Yellow	Yellow	Yellow	Red	Yellow	White	Red	Red	Red	Yellow	Red	Yellow	Blue	Red
Perceived quality of PT	Yellow	Yellow	Yellow	Yellow	Blue	Red	Yellow	Red	Red	Blue	Yellow	Red	Red	Yellow
Perceived quality of the infrastructures	Yellow	Yellow	Red	Yellow	Blue	Red	Yellow	Red	Red	Blue	Yellow	Red	Red	Yellow
Improved conditions for impaired and/or elderly people	Yellow	Yellow	Blue	Yellow	Blue	Red	Yellow	Red	Red	Yellow	Red	Yellow	Blue	Yellow
Accessibility	Blue	Yellow	Blue	Red	Blue	Red	Yellow	Red	Red	Yellow	Red	Yellow	Blue	Yellow
Vulnerable Road Users safety	Yellow	Red	Yellow	Red	Red	White	Red	Red	Red	Yellow	Red	Yellow	Yellow	Blue
On board security	Blue	Yellow	Yellow	Yellow	Yellow	White	Red	Red	Red	Blue	Yellow	Yellow	Yellow	Yellow
Parking security	Blue	Yellow	Yellow	Yellow	Blue	Red	Yellow	Red	Red	Blue	Yellow	Yellow	Yellow	Yellow
Cost and sustainability	Yellow	Yellow	Yellow	Red	Yellow	White	Red	Red	Red	Blue	Red	Yellow	Blue	Yellow
Use of renewable resources	Yellow	Yellow	Blue	Red	Red	White	Yellow	Red	Red	Yellow	Red	Yellow	Yellow	Red
Land use	Blue	Yellow	Blue	Red	Blue	White	Yellow	Red	Red	Blue	Yellow	Yellow	Yellow	Blue
Attractiveness/beauty of natural surroundings	Blue	Red	Red	Yellow	Yellow	White	Red	Red	Yellow	Red	Yellow	Red	Yellow	Red
Education and qualification	Red	Yellow	Yellow	Yellow	Red	White	Red	Red	Red	Yellow	Red	Yellow	Blue	Yellow
Plurality and participation in public life	Yellow	Yellow	Blue	Yellow	Blue	White	Red	Red	Red	Blue	Yellow	Yellow	Blue	Yellow
Creativity	Yellow	Yellow	Yellow	Red	Blue	White	Yellow	Red	Red	Yellow	Yellow	Yellow	Blue	Yellow
Cosmopolitanism or Open mindedness	Yellow	Red	Red	Yellow	Blue	White	Yellow	Red	Red	Blue	Yellow	Yellow	Blue	Yellow
Quality of city services (other than transport)	Yellow	Red	Blue	Yellow	Red	White	Red	Red	Red	Yellow	Red	Yellow	Blue	Yellow
Housing quality	Yellow	Yellow	Yellow	Red	Yellow	White	Red	Red	Red	Yellow	Red	Yellow	Blue	Yellow
Citizens' participation in decision-making	Yellow	Yellow	Blue	Red	Yellow	White	Red	Red	Red	Yellow	Red	Yellow	Blue	Yellow
Citizens' participation in public and social services	Yellow	Yellow	Blue	Red	Yellow	White	Red	Red	Red	Yellow	Red	Yellow	Blue	Yellow
Productivity	Yellow	Yellow	Yellow	Red	Blue	White	Red	Red	Red	Yellow	Red	Yellow	Blue	Yellow
Labour market flexibility	Yellow	Yellow	Yellow	Yellow	Blue	White	Yellow	Red	Red	Yellow	Red	Yellow	Blue	Red
Innovative spirit and entrepreneurship	Red	Red	Red	Red	Yellow	White	Red	Red	Red	Yellow	Red	Red	Blue	Red
International relations	Blue	Red	Red	Red	Yellow	White	Red	Red	Red	Yellow	Red	Red	Blue	Red
Transport safety	Yellow	Yellow	Yellow	Red	Yellow	Red	Yellow	Red	Red	Red	Red	Yellow	Yellow	Yellow
Issues matched	36	37	37	37	31	14	37	37	37	35	36	37	31	35
Start-up average value of the matching	1.78	1.76	1.76	1.76	1.87	1.93	1.76	1.76	1.76	1.80	1.78	1.76	1.81	1.71

Kissmybike	Friedrikstad	Patras	Naples	Messina	Wintertur	Helsinki	Kalamata	Cluj Napoca	Malaga	Copenhagen	Carouge	Turku	Barcelona	Letterkenny
Improved conditions for soft modes	Red	Yellow	Blue	Red	Red	Red	Red	Red	Red	Red	Red	Yellow	Yellow	Blue
Transport safety	Red	Yellow	Yellow	Red	Yellow	Red	Yellow	Red	Red	Red	Red	Red	Yellow	Yellow
Parking security	Blue	Yellow	Yellow	Yellow	Blue	Yellow	Yellow	Red	Red	Blue	Yellow	Yellow	Yellow	Yellow
Congestion	Yellow	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Yellow	Red	Yellow
Parking availability	Blue	Red	Red	Yellow	Blue	Yellow	Yellow	Red	Red	Blue	Yellow	Yellow	Red	Yellow
Operators business	Yellow	Yellow	Yellow	Yellow	Red	Yellow	Red	Red	Red	Yellow	Red	Yellow	Blue	Yellow
Info mobility	Yellow	Yellow	Red	Yellow	Red	Red	Yellow	Red	Red	Yellow	Yellow	Yellow	Yellow	Blue
Perceived quality of PT	Yellow	Yellow	Yellow	Yellow	Blue	Red	Yellow	Red	Red	Blue	Red	Red	Blue	Blue
Perceived quality of the infrastructures	Yellow	Yellow	Red	Yellow	Yellow	Red	Red	Red	Red	Blue	Yellow	Red	Red	Yellow
Improved conditions for impaired and/or elderly people	Yellow	Yellow	Blue	Yellow	Blue	Red	Red	Red	Red	Yellow	Red	Red	Blue	Yellow
Accessibility	Blue	Yellow	Blue	Red	Blue	Red	Yellow	Red	Red	Red	Red	Red	Blue	Yellow
Vulnerable Road Users safety	Yellow	Red	Yellow	Yellow	Yellow	Red	Red	Red	Red	Yellow	Red	Red	Yellow	Blue
On board security	Blue	Yellow	Yellow	Yellow	Yellow	Red	Red	Red	Red	Yellow	Blue	Red	Yellow	Yellow
Cost and sustainability	Yellow	Yellow	Yellow	Red	Yellow	Yellow	Red	Red	Red	Blue	Red	Red	Red	Yellow
Emissions	Yellow	Yellow	Yellow	Yellow	Yellow	Red	Yellow	Red	Red	Red	Red	Yellow	Red	Blue
Noise	Blue	Yellow	Yellow	Red	Yellow	Red	Yellow	Red	Red	Red	Red	Red	Yellow	Blue
Use of renewable resources	Yellow	Yellow	Blue	Red	Red	Red	Red	Red	Yellow	Red	Red	Red	Yellow	Red
Land use	Blue	Yellow	Blue	Red	Blue	Red	Red	Red	Yellow	Blue	Yellow	Red	Yellow	Blue
Attractiveness/beauty of natural surroundings	Blue	Red	Red	Yellow	Yellow	Red	Red	Red	Red	Red	Yellow	Yellow	Yellow	Red
Awareness increase about sustainability	Red	Yellow	Blue	Red	Yellow	Red	Red	Red	Red	Red	Red	Red	Yellow	Yellow
Education and qualification	Red	Red	Yellow	Red	Red	Red	Red	Red	Red	Yellow	Red	Red	Blue	Red
Plurality and participation in public life	Yellow	Yellow	Blue	Yellow	Blue	Red	Red	Red	Red	Blue	Yellow	Yellow	Yellow	Yellow
Creativity	Yellow	Yellow	Yellow	Red	Blue	Red	Red	Red	Yellow	Blue	Yellow	Yellow	Blue	Yellow
Cosmopolitanism or Open mindedness	Yellow	Red	Red	Red	Red	Red	Yellow	Red	Red	Yellow	Blue	Yellow	Blue	Yellow
Accessibility to services other than transport	Yellow	Red	Yellow	Yellow	Blue	Red	Red	Red	Red	Red	Red	Red	Blue	Yellow
Quality of city services (other than transport)	Yellow	Red	Blue	Yellow	Red	Red	Red	Red	Red	Red	Red	Red	Blue	Yellow
City image (e.g tech-driven)	Red	Red	Yellow	Red	Red	Red	Red	Red	Red	Yellow	Yellow	Yellow	Yellow	Red
Individual safety	Blue	Yellow	Blue	Yellow	Blue	Red	Red	Red	Yellow	Yellow	Red	Red	Yellow	Red
Health	Yellow	Yellow	Blue	Yellow	Yellow	Red	Red	Red	Yellow	Yellow	Yellow	Red	Yellow	Yellow
Housing quality	Yellow	Yellow	Blue	Red	Yellow	Red	Red	Red	Red	Yellow	Yellow	Yellow	Blue	Yellow
Governance transparency and accountability	Yellow	Yellow	Yellow	Red	Yellow	Red	Red	Red	Red	Yellow	Red	Yellow	Blue	Red
Citizens' participation in decision-making	Yellow	Yellow	Yellow	Red	Yellow	Red	Red	Red	Yellow	Yellow	Red	Yellow	Blue	Blue
Citizens' participation in public and social services	Yellow	Yellow	Blue	Red	Yellow	Red	Red	Red	Yellow	Yellow	Red	Yellow	Blue	Yellow
Productivity	Yellow	Yellow	Yellow	Red	Blue	Red	Red	Red	Yellow	Red	Yellow	Red	Blue	Yellow
Labour market flexibility	Yellow	Yellow	Yellow	Yellow	Yellow	Red	Red	Red	Yellow	Red	Yellow	Red	Blue	Red
Innovative spirit and entrepreneurship	Red	Red	Red	Red	Yellow	Red	Red	Red	Red	Yellow	Red	Red	Blue	Red
International relations	Red	Red	Red	Red	Yellow	Red	Red	Red	Red	Yellow	Red	Red	Blue	Red
Issues matched	5	6	6	6	5	6	6	6	6	6	6	6	6	6
Start-up average value of the matching	2.80	3.00	3.00	3.00	2.80	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00

MUV	Friedrikstad	Patras	Naples	Messina	Wintertur	Helsinki	Kalamata	Cluj Napoca	Malaga	Copenhagen	Carouge	Turku	Barcelona	Letterkenny
Info mobility														
Perceived quality of PT														
Perceived quality of the infrastructures														
Improved conditions for soft modes														
On board security														
Parking security														
Awareness increase about sustainability														
Education and qualification														
Plurality and participation in public life														
Governance transparency and accountability														
Citizens' participation in decision-making														
Citizens' participation in public and social services														
Congestion														
Parking availability														
Improved conditions for impaired and/or elderly people														
Accessibility														
Vulnerable Road Users safety														
Cost and sustainability														
Emissions														
Cosmopolitanism or Open mindedness														
City image (e.g tech-driven)														
Individual safety														
Health														
Productivity														
Transport safety														
Operators business														
Noise														
Use of renewable resources														
Creativity														
Quality of city services (other than transport)														
Land use														
Attractiveness/beauty of natural surroundings														
Accessibility to services other than transport														
Housing quality														
Labour market flexibility														
Innovative spirit and entrepreneurship														
International relations														
Issues matched	36	37	37	37	30	14	37	37	37	35	36	37	30	35
Start-up average value of the matching	2.75	2.78	2.78	2.78	2.67	3.29	2.78	2.78	2.78	2.74	2.75	2.78	2.87	2.80

OPENMove	Friedrikstad	Patras	Naples	Messina	Wintertur	Helsinki	Kalamata	Cluj Napoca	Malaga	Copenhagen	Carouge	Turku	Barcelona	Letterkenny
Info mobility														
Perceived quality of PT														
Accessibility														
Operators business														
Governance transparency and accountability														
Congestion														
Parking availability														
Perceived quality of the infrastructures														
Improved conditions for soft modes														
Improved conditions for impaired and/or elderly people														
Transport safety														
Vulnerable Road Users safety														
On board security														
Parking security														
Cost and sustainability														
Emissions														
Noise														
Use of renewable resources														
Land use														
Attractiveness/beauty of natural surroundings														
Awareness increase about sustainability														
Education and qualification														
Plurality and participation in public life														
Creativity														
Cosmopolitanism or Open mindedness														
Accessibility to services other than transport														
Quality of city services (other than transport)														
City image (e.g tech-driven)														
Individual safety														
Health														
Housing quality														
Citizens' participation in decision-making														
Citizens' participation in public and social services														
Productivity														
Labour market flexibility														
Innovative spirit and entrepreneurship														
International relations														
Issues matched	5	5	5	5	3	4	5	5	5	4	5	5	5	4
Start-up average value of the matching	2.6	2.60	2.60	2.60	2.33	3.00	2.60	2.60	2.60	2.50	2.60	2.60	2.60	2.50

	Friedrikstad	Patras	Naples	Messina	Wintertur	Helsinki	Kalamata	Cluj Napoca	Malaga	Copenhagen	Carouge	Turku	Barcelona	Letterkenny
Cigofleet														
Parking availability	Red	Red	Red	Yellow	Blue	Yellow	Yellow	Red	Yellow	Yellow	Yellow	Yellow	Red	Yellow
Emissions	Yellow	Yellow	Yellow	Yellow	Yellow	White	Yellow	Red	Yellow	Red	Red	Yellow	Red	Blue
Noise	Blue	Yellow	Yellow	Red	Blue	White	Red	Red	Red	Red	Yellow	Red	Yellow	Blue
Productivity	Yellow	Yellow	Yellow	Yellow	Blue	White	Red	Red	Red	Red	Yellow	Red	Blue	Yellow
Cost and sustainability	Yellow	Yellow	Yellow	Yellow	Red	Yellow	Red	Red	Red	Blue	Red	Red	Blue	Yellow
Operators business	Yellow	Yellow	Yellow	Yellow	Red	White	Red	Red	Red	Yellow	Red	Yellow	Blue	Yellow
Land use	Blue	Yellow	Blue	Red	Blue	White	Yellow	Red	Yellow	Blue	Yellow	Red	Yellow	Blue
Awareness increase about sustainability	Red	Yellow	Blue	Red	Yellow	White	Red	Red	Yellow	Red	Red	Yellow	Yellow	Yellow
Plurality and participation in public life	Yellow	Yellow	Yellow	Yellow	Blue	White	Red	Red	Red	Blue	Yellow	Yellow	Blue	Yellow
Accessibility to services other than transport	Yellow	Yellow	Yellow	Yellow	Blue	White	Red	Red	Red	Red	Red	Red	Blue	Yellow
Governance transparency and accountability	Yellow	Yellow	Yellow	Red	Yellow	White	Red	Red	Red	Yellow	Red	Yellow	Blue	Red
Citizens' participation in decision-making	Yellow	Yellow	Yellow	Red	Yellow	White	Red	Red	Red	Yellow	Red	Yellow	Blue	Yellow
Citizens' participation in public and social services	Yellow	Yellow	Blue	Red	Yellow	White	Red	Red	Red	Yellow	Red	Yellow	Blue	Yellow
Congestion	Yellow	Red	Red	Red	Red	White	Red	Red	Red	Yellow	Yellow	Yellow	Red	Yellow
Info mobility	Yellow	Red	Red	Yellow	Red	Red	Red	Red	Red	Yellow	Yellow	Yellow	Red	Blue
Perceived quality of PT	Yellow	Yellow	Yellow	Yellow	Blue	Red	Red	Red	Red	Blue	Red	Red	Blue	Yellow
Perceived quality of the infrastructures	Yellow	Yellow	Red	Red	Blue	Red	Red	Red	Red	Blue	Yellow	Red	Red	Yellow
Improved conditions for soft modes	Red	Yellow	Blue	Red	Red	White	Red	Red	Red	Red	Yellow	Yellow	Yellow	Blue
Improved conditions for impaired and/or elderly people	Yellow	Yellow	Yellow	Yellow	Blue	Red	Red	Red	Red	Yellow	Red	Red	Blue	Yellow
Accessibility	Blue	Yellow	Blue	Red	Blue	Red	Red	Red	Red	Yellow	Red	Red	Blue	Yellow
Transport safety	Yellow	Yellow	Yellow	Red	Yellow	Red	Red	Red	Red	Yellow	Yellow	Yellow	Yellow	Yellow
Vulnerable Road Users safety	Yellow	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Blue
On board security	Blue	Yellow	Yellow	Yellow	Yellow	White	Red	Red	Red	Blue	Yellow	Yellow	Yellow	Yellow
Parking security	Blue	Yellow	Yellow	Yellow	Blue	White	Red	Red	Red	Blue	Yellow	Yellow	Yellow	Yellow
Use of renewable resources	Yellow	Yellow	Blue	Red	Yellow	White	Red	Red	Red	Yellow	Yellow	Yellow	Red	Red
Attractiveness/beauty of natural surroundings	Blue	Red	Red	Red	Yellow	White	Red	Red	Yellow	Yellow	Yellow	Yellow	Yellow	Red
Education and qualification	Red	Red	Yellow	Red	Red	White	Red	Red	Red	Yellow	Red	Red	Blue	Red
Creativity	Yellow	Yellow	Yellow	Red	Blue	White	Red	Red	Red	Blue	Yellow	Yellow	Blue	Yellow
Cosmopolitanism or Open mindedness	Yellow	Red	Red	Red	Blue	White	Red	Red	Red	Yellow	Blue	Yellow	Blue	Yellow
Quality of city services (other than transport)	Yellow	Red	Blue	Yellow	Red	White	Red	Red	Red	Yellow	Yellow	Yellow	Blue	Yellow
City image (e.g tech-driven)	Red	Red	Yellow	Red	Red	White	Red	Red	Red	Yellow	Yellow	Yellow	Yellow	Red
Individual safety	Blue	Yellow	Blue	Yellow	Blue	White	Red	Red	Red	Yellow	Red	Yellow	Yellow	Red
Health	Yellow	Yellow	Blue	Yellow	Yellow	White	Red	Red	Red	Yellow	Red	Red	Yellow	Red
Housing quality	Yellow	Yellow	Blue	Red	Yellow	White	Red	Red	Red	Yellow	Yellow	Yellow	Blue	Yellow
Labour market flexibility	Yellow	Yellow	Yellow	Yellow	Blue	White	Red	Red	Red	Yellow	Yellow	Yellow	Blue	Yellow
Innovative spirit and entrepreneurship	Red	Red	Red	Red	Yellow	White	Red	Red	Red	Yellow	Red	Red	Blue	Red
International relations	Yellow	Yellow	Yellow	Yellow	Yellow	White	Red	Red	Red	Yellow	Red	Red	Blue	Red
Issues matched	13	13	13	13	13	3	13	13	13	12	13	13	10	12
Start-up average value of the matching	3.15	3.15	3.15	3.15	3.15	3.33	3.15	3.15	3.15	3.17	3.15	3.15	3.40	3.17

nowlog	Friedrikstad	Patras	Naples	Messina	Wintertur	Helsinki	Kalamata	Cluj Napoca	Malaga	Copenhagen	Carouge	Turku	Barcelona	Letterkenny
Operators business	9	9	9	9	8	2	9	9	9	9	9	9	8	9
Health	9	9	9	9	8	2	9	9	9	9	9	9	8	9
Governance transparency and accountability	9	9	9	9	8	2	9	9	9	9	9	9	8	9
Productivity	9	9	9	9	8	2	9	9	9	9	9	9	8	9
Labour market flexibility	9	9	9	9	8	2	9	9	9	9	9	9	8	9
Perceived quality of the infrastructures	9	9	9	9	8	2	9	9	9	9	9	9	8	9
City image (e.g tech-driven)	9	9	9	9	8	2	9	9	9	9	9	9	8	9
Awareness increase about sustainability	9	9	9	9	8	2	9	9	9	9	9	9	8	9
Education and qualification	9	9	9	9	8	2	9	9	9	9	9	9	8	9
Congestion	9	9	9	9	8	2	9	9	9	9	9	9	8	9
Parking availability	9	9	9	9	8	2	9	9	9	9	9	9	8	9
Info mobility	9	9	9	9	8	2	9	9	9	9	9	9	8	9
Perceived quality of PT	9	9	9	9	8	2	9	9	9	9	9	9	8	9
Improved conditions for soft modes	9	9	9	9	8	2	9	9	9	9	9	9	8	9
Improved conditions for impaired and/or elderly people	9	9	9	9	8	2	9	9	9	9	9	9	8	9
Accessibility	9	9	9	9	8	2	9	9	9	9	9	9	8	9
Transport safety	9	9	9	9	8	2	9	9	9	9	9	9	8	9
Vulnerable Road Users safety	9	9	9	9	8	2	9	9	9	9	9	9	8	9
On board security	9	9	9	9	8	2	9	9	9	9	9	9	8	9
Parking security	9	9	9	9	8	2	9	9	9	9	9	9	8	9
Cost and sustainability	9	9	9	9	8	2	9	9	9	9	9	9	8	9
Emissions	9	9	9	9	8	2	9	9	9	9	9	9	8	9
Noise	9	9	9	9	8	2	9	9	9	9	9	9	8	9
Use of renewable resources	9	9	9	9	8	2	9	9	9	9	9	9	8	9
Land use	9	9	9	9	8	2	9	9	9	9	9	9	8	9
Attractiveness/beauty of natural surroundings	9	9	9	9	8	2	9	9	9	9	9	9	8	9
Plurality and participation in public life	9	9	9	9	8	2	9	9	9	9	9	9	8	9
Creativity	9	9	9	9	8	2	9	9	9	9	9	9	8	9
Cosmopolitanism or Open mindedness	9	9	9	9	8	2	9	9	9	9	9	9	8	9
Accessibility to services other than transport	9	9	9	9	8	2	9	9	9	9	9	9	8	9
Quality of city services (other than transport)	9	9	9	9	8	2	9	9	9	9	9	9	8	9
Individual safety	9	9	9	9	8	2	9	9	9	9	9	9	8	9
Housing quality	9	9	9	9	8	2	9	9	9	9	9	9	8	9
Citizens' participation in decision-making	9	9	9	9	8	2	9	9	9	9	9	9	8	9
Citizens' participation in public and social services	9	9	9	9	8	2	9	9	9	9	9	9	8	9
Innovative spirit and entrepreneurship	9	9	9	9	8	2	9	9	9	9	9	9	8	9
International relations	9	9	9	9	8	2	9	9	9	9	9	9	8	9
Issues matched	9	9	9	9	8	2	9	9	9	9	9	9	8	9
Start-up average value of the matching	2.78	2.78	2.78	2.78	2.88	3.00	2.78	2.78	3.22	2.78	2.78	2.78	2.75	2.78

CASMOB	Friedrikstad	Patras	Naples	Messina	Wintertur	Helsinki	Kalamata	Cluj Napoca	Malaga	Copenhagen	Carouge	Turku	Barcelona	Letterkenny
Info mobility														
Operators business														
Attractiveness/beauty of natural surroundings														
Accessibility to services other than transport														
Quality of city services (other than transport)														
Productivity														
Congestion														
Perceived quality of PT														
Plurality and participation in public life														
Creativity														
Cosmopolitanism or Open mindedness														
City image (e.g tech-driven)														
Citizens' participation in public and social services														
Innovative spirit and entrepreneurship														
International relations														
Parking availability														
Perceived quality of the infrastructures														
Improved conditions for soft modes														
Improved conditions for impaired and/or elderly people														
Accessibility														
Vulnerable Road Users safety														
Land use														
Education and qualification														
Citizens' participation in decision-making														
Labour market flexibility														
Transport safety														
On board security														
Parking security														
Emissions														
Noise														
Use of renewable resources														
Awareness increase about sustainability														
Individual safety														
Health														
Housing quality														
Governance transparency and accountability														
Cost and sustainability														
Issues matched	36	37	37	37	30	14	37	37	37	35	36	37	30	35
Start-up average value of the matching	2.28	2.24	2.24	2.24	2.20	2.14	2.24	2.24	2.24	2.26	2.28	2.24	2.10	2.20

Stop-Buy	Friedrikstad	Patras	Naples	Messina	Wintertur	Helsinki	Kalamata	Cluj Napoca	Malaga	Copenhagen	Carouge	Turku	Barcelona	Letterkenny
Parking availability	Red	Red	Red	Yellow	Yellow	Yellow	Yellow	Red	Yellow	Yellow	Yellow	Yellow	Red	Yellow
Info mobility	Yellow	Yellow	Red	Yellow	Red	Red	Yellow	Red	Red	Yellow	Yellow	Yellow	Yellow	Blue
Accessibility	Red	Yellow	Blue	Red	Blue	Red	Yellow	Red	Yellow	Yellow	Red	Red	Blue	Yellow
Congestion	Yellow	Yellow	Red	Red	Red	Yellow	Yellow	Red	Red	Yellow	Yellow	Yellow	Red	Yellow
Operators business	Yellow	Yellow	Yellow	Yellow	Red	Yellow	Red	Red	Red	Yellow	Yellow	Yellow	Blue	Yellow
Emissions	Yellow	Yellow	Yellow	Yellow	Yellow	White	Yellow	Red	Yellow	Red	Red	Yellow	Red	Blue
Awareness increase about sustainability	Red	Yellow	Blue	Red	Yellow	White	Red	Red	Yellow	Red	Red	Yellow	Yellow	Yellow
Innovative spirit and entrepreneurship	Yellow	Red	Red	Yellow	Yellow	White	Yellow	Red	Red	Yellow	Red	Red	Blue	Red
Perceived quality of PT	Yellow	Yellow	Yellow	Yellow	Blue	Red	Yellow	Red	Red	Blue	Red	Red	Blue	Yellow
Improved conditions for impaired and/or elderly people	Yellow	Yellow	Blue	Yellow	Blue	Red	Yellow	Red	Red	Yellow	Red	Red	Blue	Yellow
Cost and sustainability	Yellow	Yellow	Yellow	Yellow	Red	Yellow	Red	Red	Red	Blue	Red	Red	Blue	Yellow
Land use	Blue	Yellow	Blue	Red	Blue	White	Yellow	Red	Yellow	Blue	Yellow	Yellow	Yellow	Blue
City image (e.g tech-driven)	Red	Red	Yellow	Red	Red	White	Yellow	Red	Red	Yellow	Yellow	Yellow	Yellow	Red
Governance transparency and accountability	Yellow	Yellow	Red	Red	Yellow	White	Yellow	Red	Yellow	Yellow	Red	Yellow	Yellow	Yellow
Citizens' participation in decision-making	Yellow	Yellow	Yellow	Yellow	Yellow	White	Yellow	Red	Yellow	Yellow	Red	Red	Blue	Blue
Citizens' participation in public and social services	Yellow	Yellow	Blue	Red	Yellow	White	Red	Red	Yellow	Yellow	Red	Red	Blue	Yellow
International relations	Red	Red	Red	Yellow	Yellow	White	Yellow	Red	Red	Yellow	Red	Red	Red	Red
Perceived quality of the infrastructures	Yellow	Yellow	Red	Yellow	Blue	Red	Yellow	Red	Red	Blue	Yellow	Yellow	Red	Yellow
Improved conditions for soft modes	Blue	Yellow	Blue	Red	Red	Red	Yellow	Red	Red	Red	Red	Yellow	Yellow	Blue
Noise	Blue	Yellow	Yellow	Red	Yellow	White	Yellow	Red	Red	Yellow	Red	Red	Yellow	Blue
Education and qualification	Red	Red	Yellow	Red	Red	White	Red	Red	Red	Yellow	Red	Red	Blue	Red
Creativity	Yellow	Yellow	Yellow	Red	Blue	White	Yellow	Red	Yellow	Blue	Yellow	Yellow	Blue	Yellow
Cosmopolitanism or Open mindedness	Yellow	Red	Red	Yellow	Blue	White	Yellow	Red	Red	Yellow	Blue	Yellow	Blue	Yellow
Transport safety	Yellow	Yellow	Yellow	Red	Yellow	Red	Yellow	Red	Red	Red	Red	Red	Yellow	Yellow
Vulnerable Road Users safety	Yellow	Yellow	Yellow	Yellow	Yellow	Red	Yellow	Red	Red	Red	Red	Red	Yellow	Blue
On board security	Blue	Yellow	Yellow	Yellow	Yellow	Red	White	Red	Red	Yellow	Blue	Red	Yellow	Yellow
Parking security	Blue	Yellow	Yellow	Yellow	Blue	Yellow	Yellow	Red	Red	Blue	Yellow	Yellow	Yellow	Yellow
Use of renewable resources	Yellow	Yellow	Blue	Red	Red	White	Yellow	Red	Red	Red	Red	Red	Yellow	Red
Attractiveness/beauty of natural surroundings	Blue	Red	Red	Yellow	Yellow	White	Red	Red	Yellow	Yellow	Yellow	Red	Yellow	Red
Plurality and participation in public life	Yellow	Yellow	Yellow	Yellow	Blue	White	Yellow	Red	Yellow	Blue	Red	Red	Blue	Yellow
Accessibility to services other than transport	Yellow	Yellow	Yellow	Yellow	Blue	White	Yellow	Red	Red	Red	Red	Red	Blue	Yellow
Quality of city services (other than transport)	Yellow	Red	Blue	Yellow	Red	White	Red	Red	Red	Red	Red	Yellow	Blue	Yellow
Individual safety	Blue	Yellow	Blue	Yellow	Blue	White	Red	Red	Yellow	Yellow	Red	Red	Yellow	Red
Health	Yellow	Yellow	Blue	Yellow	Yellow	White	Yellow	Red	Yellow	Yellow	Yellow	Red	Yellow	Red
Housing quality	Yellow	Yellow	Yellow	Red	Blue	White	Yellow	Red	Red	Yellow	Yellow	Yellow	Blue	Yellow
Productivity	Yellow	Yellow	Yellow	Red	Blue	White	Yellow	Red	Red	Yellow	Yellow	Red	Blue	Yellow
Labour market flexibility	Yellow	Yellow	Yellow	Yellow	Blue	White	Yellow	Red	Red	Yellow	Yellow	Red	Blue	Red
Issues matched	23	23	23	23	18	10	23	23	23	21	23	23	19	21
Start-up average value of the matching	2.22	2.22	2.22	2.22	2.33	2.60	2.22	2.22	2.22	2.24	2.22	2.22	2.32	2.14