

Borgarráð

Loftslagsmaraðon - 2018

Lagt er til að Reykjavíkurborg leiði loftslagsmaraðon í Reykjavík þann 28. október 2018 með því að leggja til starfsmann tímabundið í kringum viðburðinn og aðstöðu fyrir þátttakendur í þann sólarhring sem loftslagsmaraðonið fer fram. Einnig er lagt til að stutt verði við vinningshafana frá árinu 2017 og 2018 með því að veita viðkomandi liði aðstöðu í 3 mánuði til að þróa verkefnið áfram og aðgang að starfsmanni Reykjavíkurborgar sem leiðbeinanda.

Greinargerð:

Loftslagsmaraðon er haldið í heilan sólarhring um allan heim á hverju ári, síðast var það haldið á sama tíma, 27. október 2017 í 104 borgum og voru þátttakendur alls 4.479. Tilgangur loftslagsmaraðonsins er að draga fram nýjar lausnir og hugmyndir til að sporna gegn loftslagsbreytingum en hugmyndirnar eru unnar í samráði við háskóla og nýsköpunarstarf. Verkefnið fellur vel að bæði snjallborgar- og loftslagsstefnum Reykjavíkurborgar. Climate-KIC (<https://climathon.climate-kic.org/>) stendur fyrir loftslagsmaraðoninu en það er stærsti evrópski samstarfsvettvangur einkageirans og hins opinbera um nýskapandi lausnir í loftslagsmálum. Climate-KIC var stofnað 2010 sem eitt af verkefnum EIT (European Institute of innovation and technology, <http://eit.europa.eu/eit-community/eit-glance>).

Reykjavíkurborg var styrktaraðili og þátttakandi í fyrsta loftslagsmaraðoni á Íslandi í október á síðasta ári. Alls tóku þá þrjú lið þátt í maraðoninu og lögðu þau til eftirfylgjandi hugmyndir: iMe: Integrative Mobility Ecosystem (app sem bestar ferðamáta útfrá losun gróðurhúsalofttegunda) en sú hugmynd var jafnframt vinningshafi maraðonsins í Reykjavík 2017. Little Green Fingers (tilraunaverkefni um matjurtaræktun í gróðurhúsi við valinn leikskóla / skóla) og

Magic Bus (samkeppni um skreytingar á strætó meðal skólakrakka). Sjá nánari lýsingu á verkefnum og maraðoninu sjálfu í fylgiskjöllum.

Næsta loftslagsmaraðon verður 28. október 2018 um allan heim. Kostnaður Reykjavíkurborgar við að leiða verkefnið er falin í vinnuframlagi starfsmanns Reykjavíkurborgar, að útvega aðstöðu fyrir maraðonið í sólarhring, fæðiskostnaður þátttakenda og verðlaun fyrir það lið sem vinnur.

Dagur B. Eggertsson

Hjálagt:

Reykjavík Climathon 2017 - report, dags. 30. nóvember 2017.

Dagskrá Climathon Reykjavík 2017.

iME- verkefni unnið í loftslagsmaraþoni 2017 (vinningsliðið árið 2017).

LittleGreenFingers - verkefni unnið í loftslagsmaraþoni 2017.

MagicBus - verkefni unnið í loftslagsmaraþoni 2017.

REYKJAVÍK CLIMATHON 2017 - REPORT

Challenge and context

Title of the challenge: **Let's improve the air of Reykjavík!**

Challenge description: The AIR is what's keeping us alive. It is necessary so we need to take care of it.

The greenhouse gases (GHG) we emit to the atmosphere are causing global warming. Part of them come from our cars and other transport. They also emit particles that are dangerous for our health but also contribute directly to climate change by affecting the amount of sunlight coming in by reflecting or absorbing it.

Reykjavik is known to be a **green city** thanks to its renewable energies (hydroelectric- and geothermal power) that power the city. But in 2015, the carbon emissions per Icelandic citizen was 10.2 tons compared to 5,8 tons per EU citizen. Hence, that is why Reykjavik took the decision in 2016 to become **carbon neutral by 2040** in accordance with the Paris Agreement from the COP21 in 2015. In order to achieve that goal, Reykjavik has to tackle the challenge of eliminating all human induced greenhouse gas (GHG) emissions in the city.

This challenge can be tackled in two points (and of course many others!):

1. Transportation mode / citizens mobility:

How can we improve the use of public transport? How can we incentivise people to take their bikes or walk in the city? Are there new ways to move in the city? What about the trains-like transportation?

In order to make that happen, we need to find solutions to adapt the infrastructures in the city. Better road quality, better bike lanes ... Any innovation and ideas will be welcome!

Fun fact: *How many kilometers do Icelandic people drive in a day, measured as trips to the moon? A hint, the distance Earth-Moon is 384 000km (answer below).*

2. Harbours & industries: Reduce our GHG emissions and air quality in general

The harbours are really attractive and highly used (cruise ships, cargo ships, fishing vessels and pedestrians...) and the GHG emissions and particles are sky-rocketing in these areas (<http://bit.ly/2eFZoRN>). How can we invert that and switch to electricity in the city, for example? Same thing is for the industries: how do we reduce the GHG emissions without impacting on the productivity?

Organiser and partners

Reykjavík Climathon has been organised by Justine Vanhalst, employee of Matís. The event has been supported by Matís ohf, itself, the city of Reykjavík, the French Embassy, the European delegation in Iceland and the Icelandic Ministry of Environment. The support has been either or both financial and by practical support (men-power).

Ideas and participants

-Winning Idea

iMe: Integrative Mobility Ecosystem

Team members:

Aarne Gralund (Finland) – M.Sc. Climate Change/Politics

Bhuiyan Seraj (Bangladesh) – M.Sc Fisheries/Food Science

Gisela Cardoso (Portugal) – Microbiology/Pharmacology

Weston Neal (USA) – Tour Guide

Kristjan Leosson (Iceland) – Innovation Center Iceland

General summary:

The proposed project is a smart traffic planning app that uses the modern technology at our fingertips to improve how we travel around our city. It will create conscious planning about our modes of transports, how healthy, how expensive and how we impact the local environment and air quality. Primarily this app will offer alternatives to private and single car usage which is the major driver of poor air quality in Reykjavik by raising awareness of the alternative travel options available.

This app will work with both local individuals and transport businesses to develop a fully integrated mobility system. Additional information provided by the app to discourage single car usage will be rapid traffic projections, and car sharing options. This app will build on experience from other global cities that use a similar transport streamlining system.

Climate impact:

-The overall aim of this app is to reduce private and single car usage. This will reduce the total number of cars on the road, and so the emissions, improving air quality in Reykjavik.

-This will also improve the quality of the roads, and air quality associated with asphalt damage since fewer vehicles means lower damage to the roads.

-Second Idea

Little Green Fingers

Team members:

Alexandra Leeper (England) – PhD Student in Sustainable aquaculture and marine resources research.

Ingrida Milko (Lithuania) – Environmental photography, SEEDs Volunteer.

Harriet Blotchaway (Gana) – MSc student in Environmental Resources

General summary:

Pilot scheme for an educational add-on in primary schools. We propose a complimentary course in growing local food and reducing food waste alongside the existing cooking classes. During the pilot, this year long curriculum add-on would aim to teach children the basics of vegetable gardening and care with a practical hands-on approach, cookery classes that use ingredients as efficiently as possible and even ingredients that are past their sell-by date, but still safe.

Finally, children will cook a meal for parents and local community at an end-of-year advent. This event will raise awareness for local food and bring the community together. The long-term objective of this project is to reduce imports of food, reduce food waste and to enhance connectedness between children, their source of food and their community.

Climate impact:

Several ways in which this scheme could reduce climate impact in Iceland in the long-term:

-Reduce food imports from overseas, so cutting down on air pollution associated with transport and carbon footprint of food.

-Optimise the amount of food product that is useable, and raising awareness of unnecessary food waste. Food waste adds to air pollution as it breaks down in the environment releasing methane and carbon dioxide, both potent greenhouse gases.

-Third Idea

Magic Bus

Team members:

Marie Jecker (France) – Environmental engineer with background in sustainability issues.

Mai Duong (Canada) – MSc student in environment and natural resources.

General summary:

This project proposes to reduce air pollution in Reykjavik city through a public engagement program that will encourage and boost the use of the public transport system, the Stræto buses. The key target audience of this public engagement is school age children who will have the opportunity to compete in a design competition to re-decorate the Stræto buses of Reykjavik in the most creative way they can imagine. A panel of artistic judges will select a winner and several runners up which will then be actually applied to buses in the city centre. Not only will this bring excitement and interest in using public transport, but each child will then receive a special check-list, competing to ride on each of these decorated buses over the year to win free bus rides. Similar decorated and interactive public transport have been used globally, for example the cat trains in Japan, and the Danish decorated buses with success.

Climate impact:

-Engaging school age children in the public transport system will encourage them to view this as a preferable form of transport to travelling by car, as bus journeys will be more fun and personalised experience. The school children will then have a personal connection to the public transport system.

-More individuals using public transport will overall reduce the car ownership and air pollution in the crowded city centre.

-It is hoped that by targeting school age community members, this project will develop public transport for life, creating a long term positive impact from this project.

Participants informations

The total number of participants during the Climathon was of 13 persons but not all of them stayed for the full 24-hours event.

Participant name	Email address	Idea or project he/she worked on
Aarne Granlund	aarnegranlund@gmail.com	iMe
Gisela Cardoso	cardoso.gisela89@gmail.com	iMe
Kristjan Leosson	kristjan.leosson@nmi.is	iMe
Weston Neal	westonneal@gmail.com	iMe
Bhuiyan Seraj	serajban@gmail.com	iMe
Johanna Velasquez	johannav622@gmail.com	Little Green finger
Ingrida Milko	milko.ingrida@gmail.com	Little Green finger
HARRIET NAA TECKIE BOTCHWAY	harrietbotchway24@gmail.com	Little Green finger
Alexandra Leeper	alexandral@matís.is	Little Green finger
Sigrid Merino	sigridmerino@hotmail.com	Magic Bus
Marie Jecker	marie.jecker@gmail.com	Magic Bus
Mai Duong	mai_duong@hotmail.com	Magic Bus
Kristina Daisy Racz	kristinaracz89@gmail.com	Magic Bus

Program and talks

See attached the document in the e-mail with the detailed program.

Here a recap of it. Note that Áslaug Thelma Einarsdóttir from Orka Náttúrunnar didn't come.

Climathon
Reykjavík

AGENDA
Friday 27th, October



13:00 – 13:10: Introduction speech by the organiser

13:10 – 13:20: Opening session with the **Mayor of Reykjavík** – *Dagur B. Eggertsson*

13:20 – 13:30: **French Ambassador** – *M. Graham Paul*

13:30 – 14:00: **Umhverfisstofnun** – *Vanda Úlfrún Liv Hellsing*

14:00 – 15:50: Team work with the facilitators

15:50 – 16:10: **Heilbrigðiseftirlit Reykjavíkur** – *Svava S. Steinarsdóttir*

16:10 – 16:30: **Veðurstofa Íslands** – *Halldór Björnsson*

16:30 – 16:50: **Strætó** - *Jóhannes Svavar Rúnarsson*

16:50 – 17:10: **Orka Náttúrunnar** – *Áslaug Thelma Einarsdóttir*

17:45 – 18:30: Cooking class with *Dóra Svavarsdóttir* from **Culina**

20:00 – 20:40: Diner + *Benjamin Sigurgeirsson*

20:40 – 00:00: Team work with the facilitators



AGENDA

Saturday 28th, October



00:00 – 00:45: **SURPRISE** at midnight and food break

00:45 – 7:00: Team work Team work with the facilitators

07:00 – 8:00: **Yoga** session with *Verka Paluskova*

08:00 – 08:30: Breakfast

08:30 – 10:30: Preparation to the pitch with the facilitators

10:30 – 11:30: Pitch presentation in front of the Jury

12:00 – 12:10: Best team reward by the jury

12:10 – 12:20: **EU Ambassador** - *Michael Mann*

12:20 – 12:30: Closing session with **the Minister of the Environment** - *Björt Ólafsdóttir*

12:30: Lunch

Direct action for the Climate during the Climathon

Planting trees:

During the Climathon 2017, at midnight, the participants planted 30 trees offered by the municipalities of Reykjavík in front of the facilities of Matis ohf.

The planting has been supervised by Krítinn H. Þórsteinsson. The trees will be taken care of by Justine Vanhalst, the organiser of the Climathon.

Smart cooking class:

A cooking class has been realised for the dinner of Friday night by Dóra Svavarsdóttir, chef at Cúlina restaurant. The purpose was to bring awareness concerning food waste and that the quality of the food doesn't reside in the beauty of it. By cooking what is called "ugly food" the participant might change his habits of consumption in supermarket.

Furthermore, the class emphasised also on the importance of using all the vegetable/fruit to cook with and thus reducing the amount of organic waste.

Reykjavík, 30th November 2017

Implementation of the projects

The purpose of Climathon is to see the ideas coming up during this event, being realised in reality. The objective in this report is to show the importance and interest that can have the ideas in questions.

All teams members are willing to be part of their own project if there is a possible future application of it. If an approval is given by the city hall of Reykjavík, teams are keen to move forward with proposal and budgeting plans. (attached the contact details).

I, Justine Vanhalst, commit myself to facilitate and ensure that everything will be taken into consideration before any decisions regarding the implementation of the ideas.

I am convince that with good communication and discussion we can take profit of the Climathon in order to succeed in reaching the objectives dictate by the Paris Agreement from the COP21.

Reykjavík, 30th of November

Justine Vanhalst



Event Program

Friday

13:00-13:05	Justine Vanhalst
13:05-13:20	Dagur B. Eggertsson
13:20-13:30	M. Graham Paul
13:30-14:00	Vanda Úlfrún Liv Hellsing
14:00-15:00	Solveig Zophionassdóttir
15:00-15:30	Groups
15:30-15:50	REFRESHMENTS
15:50-16:10	Svava S. Steinarsdóttir
16:10-16:30	Halldór Björnsson
16:30-16:50	Jóhannes Svavar Rúnarsson
16:50-17:10	Team work
16:50-17:45	Facilitator
17:45-18:30	Cooking dinner with Dóra
19:00-20:00	DINNER
20:00-20:20	
20:20-20:40	Benjamin Sigurgeirsson
20:40-23:40	Team work
23:40	Kristinn H. Þorsteinsson
00:00-00:43	MIDNIGHT TREE PLANTING

Saturday

01:00-01:30	Design Thinking
01:30-07:00	Team workshops
07:00-08:00	Yoga with Verka Paluskova
08:00-08:30	BREAKFAST
08:30-10:30	Team Work
10:30-11:30	Team Presentations
11:30-12:00	Jury Deliberation
12:00-12:10	Winner Announced
12:10-12:20	Björt Ólafsdóttir
12:20-12:30	Michael Mann
12:30-13:00	LUNCH

Co-ordinating Committee



Justine



Birgir



Hafþór



Solveig

Speakers



Dagur B. Eggertsson

Reykjavíkuborg



M. Graham Paul

French Embassy



Vanda Úlfrún Liv

Hellsing

Umhverfisstofnun



Svava Steinarsdóttir

Heilbrigðiseftirlit
Reykjavíkur

Halldór Björnsson

Veðurstofan



Jóhannes Svavar

Rúnarsson

Strætó

Benjamin
Sigurgeirsson

HI/TEDx Reykjavík

Kristinn H.
ÞorsteinssonGarðyrkjufélag
Íslands

Björt Ólafsdóttir

Björt framtíð



Michael Mann

Eu Embassy



The background features abstract, overlapping green geometric shapes, primarily triangles and polygons, in various shades of green, creating a modern and dynamic visual effect.

iME

Integrated Mobility Ecosystem
for the Reykjavik area



What we want to solve

- Traffic congestion
- High carbon emissions
- Traffic-related air pollution

Let's look at the numbers

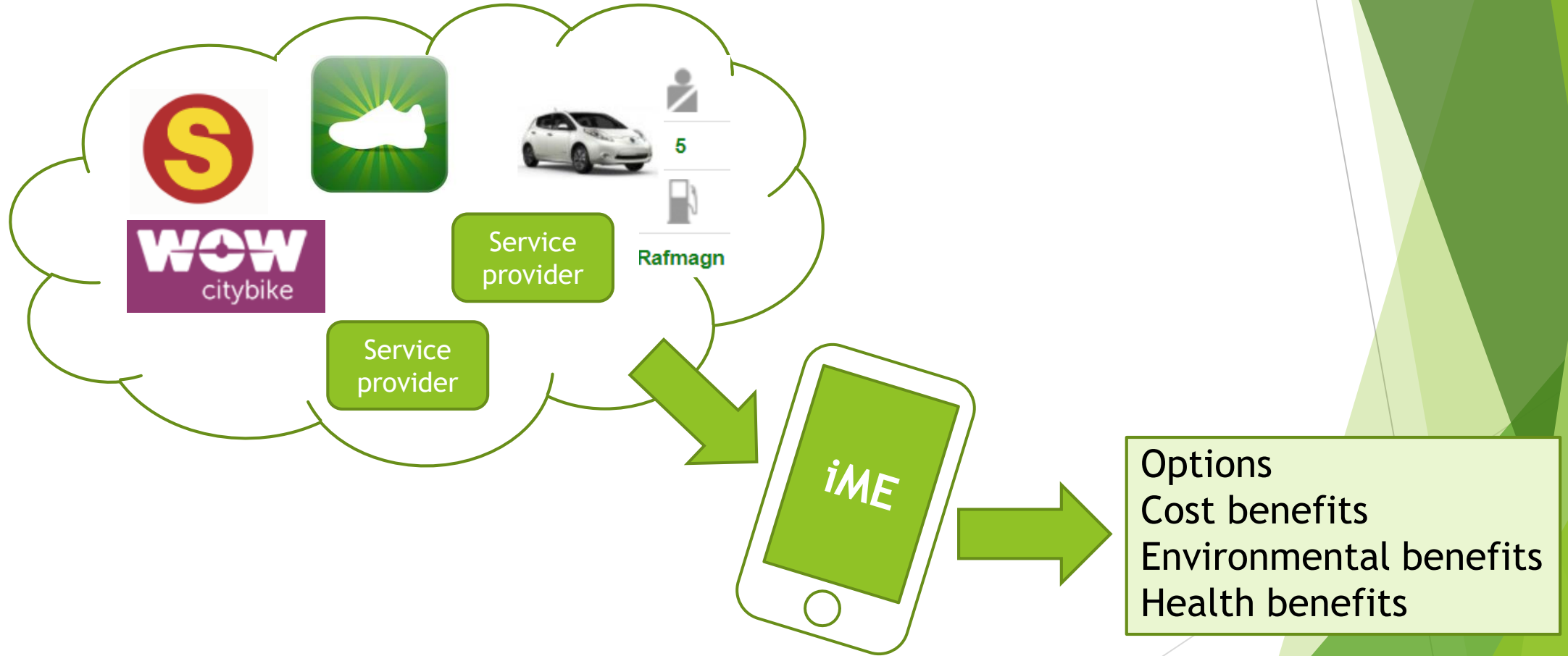
- 6.000.000 km/day driven in Reykjavik
- High ownership and operating cost of a private car
- Plug-in cars are still only 1.5% of the total fleet
- Asphalt-related particle pollution
- Road transport accounts for half of non-ETS Energy-GHG emissions
- Passenger potential must be increased for future public transport options

Our solution

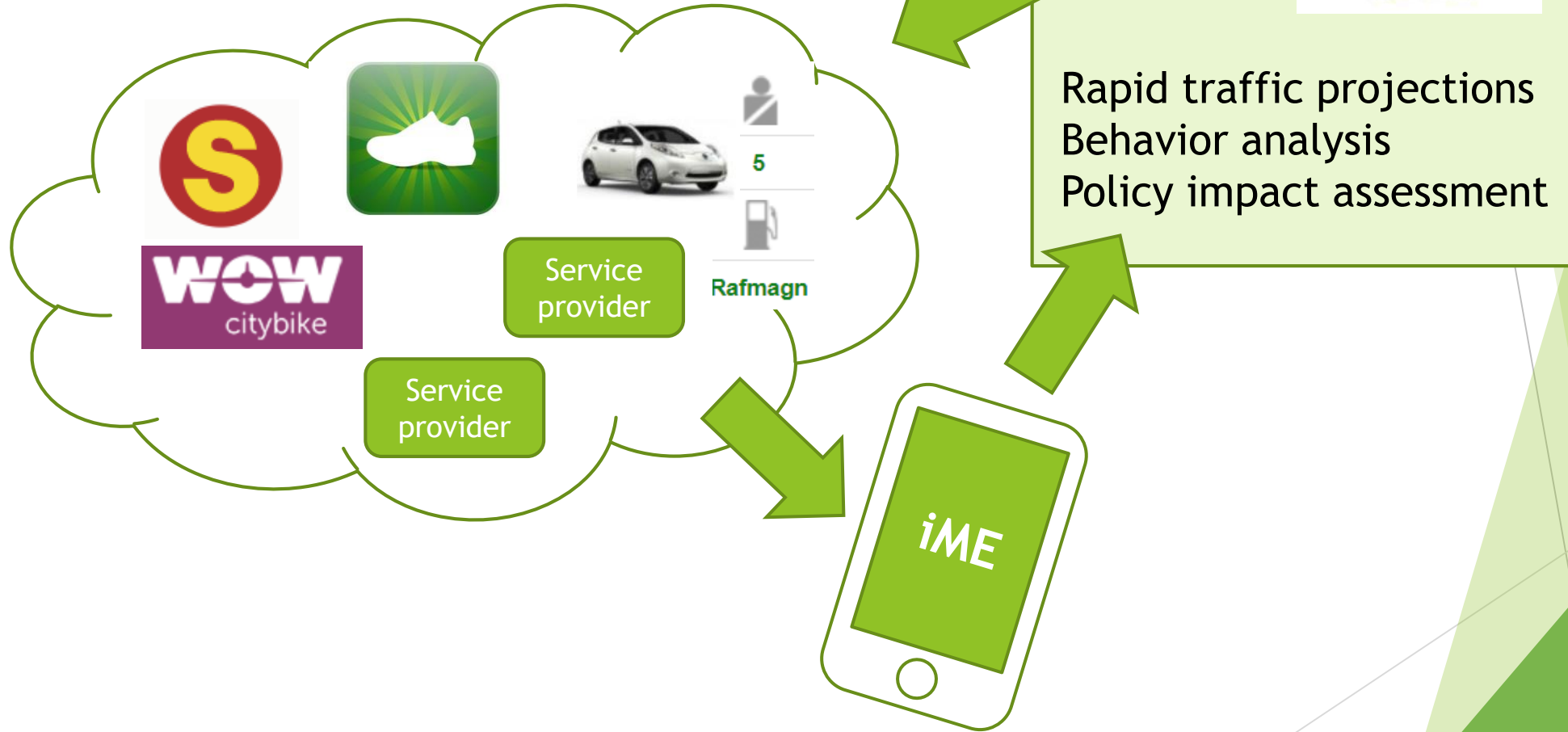
Smart traffic planning
Alternatives to private car use



What does it do?



What does it do?



Many examples for inspiration



Benefits

USERS

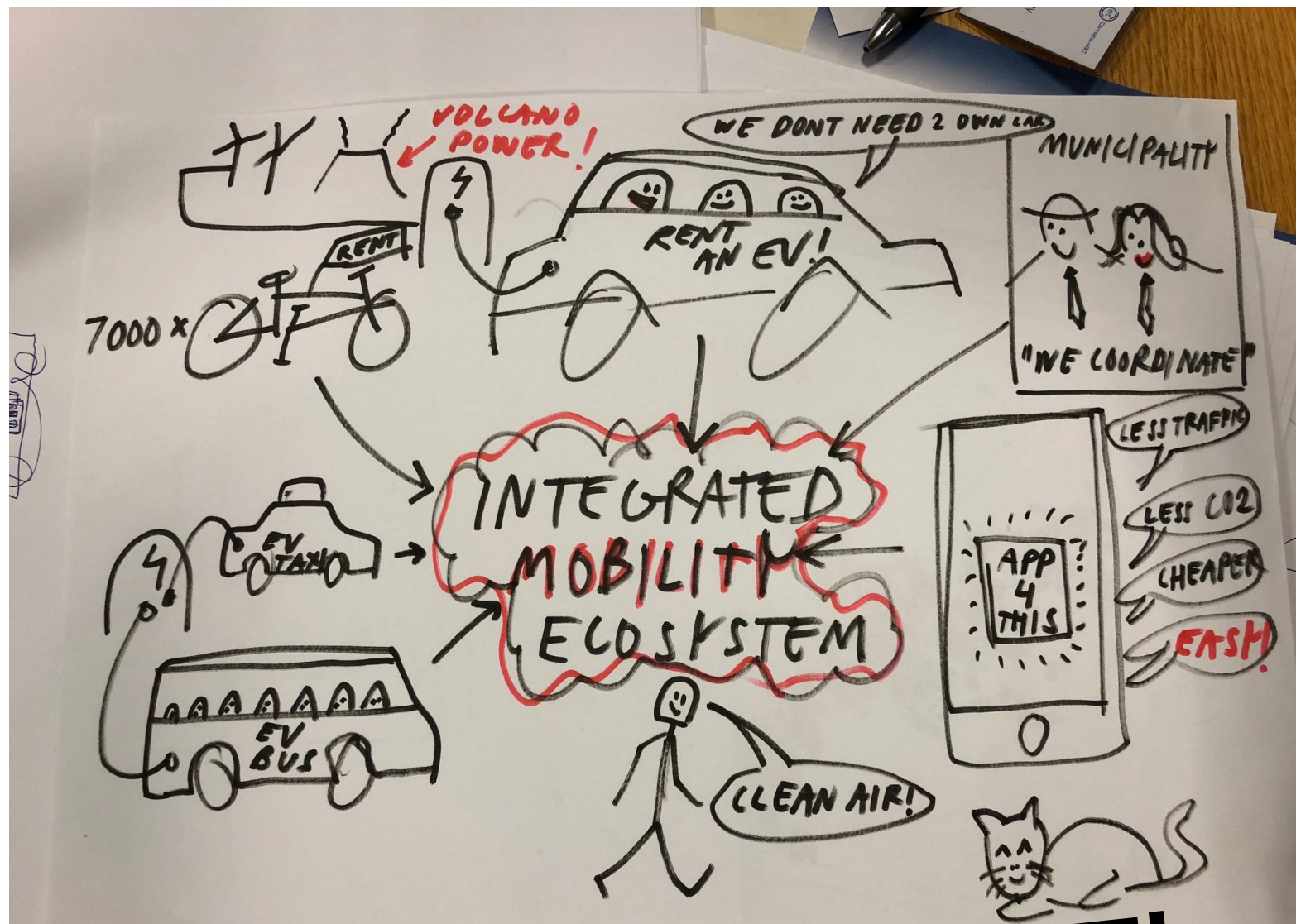
- Cost savings
- Health benefits
- Convenience
- Citizen advice

SERVICE PROVIDERS

- Certification
- More customers
- Social responsibility

MUNICIPALITIES

- Limiting car traffic
- Reducing emissions and pollution
- Influencing behavior patterns
- Policy impact analysis



Aarne Gralund (Finland)
M.Sc. Climate Change/Politics

Bhuiyan Seraj (Bangladesh)
M.Sc. Fisheries/Food Science

Gisela Cardoso (Portugal)
Microbiology/Pharmacology

Weston Neal (USA)
Tour Guide

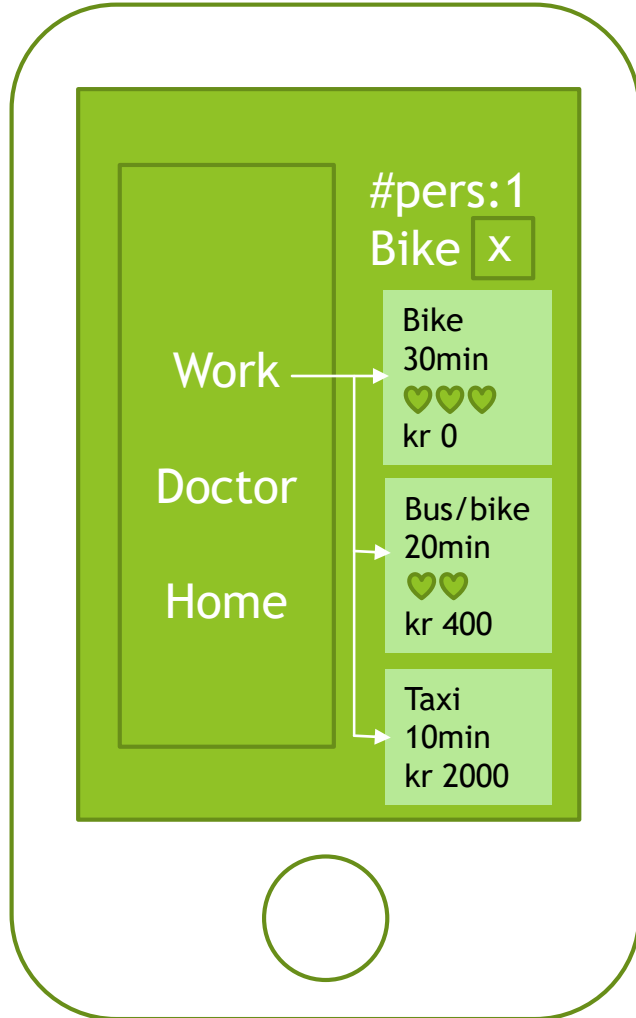
Kristjan Leosson (Iceland)
Innovation Center Iceland

Thank you!

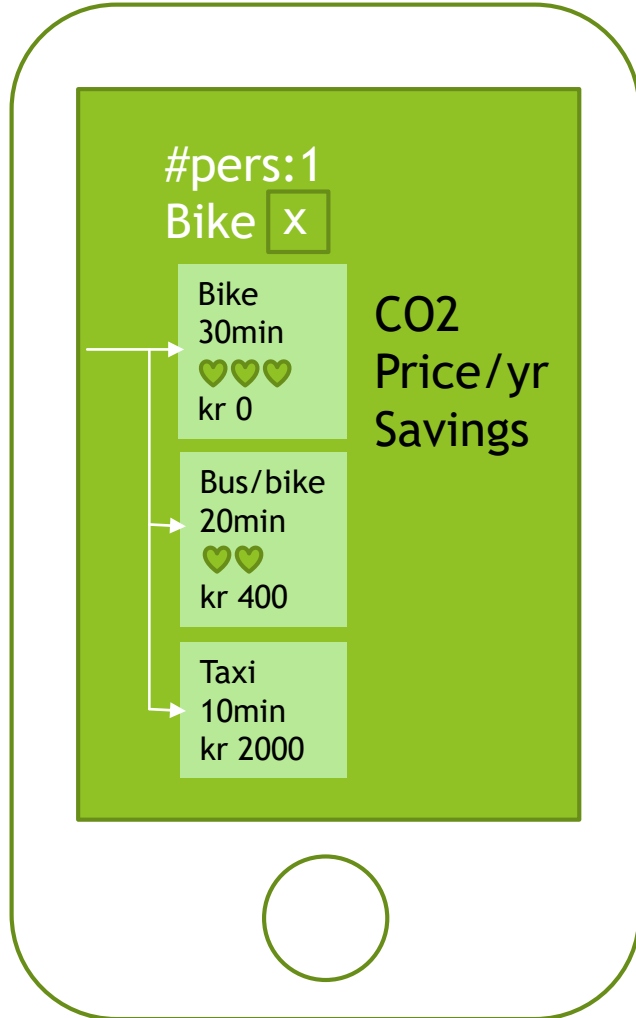
What does it do?



What does it do?



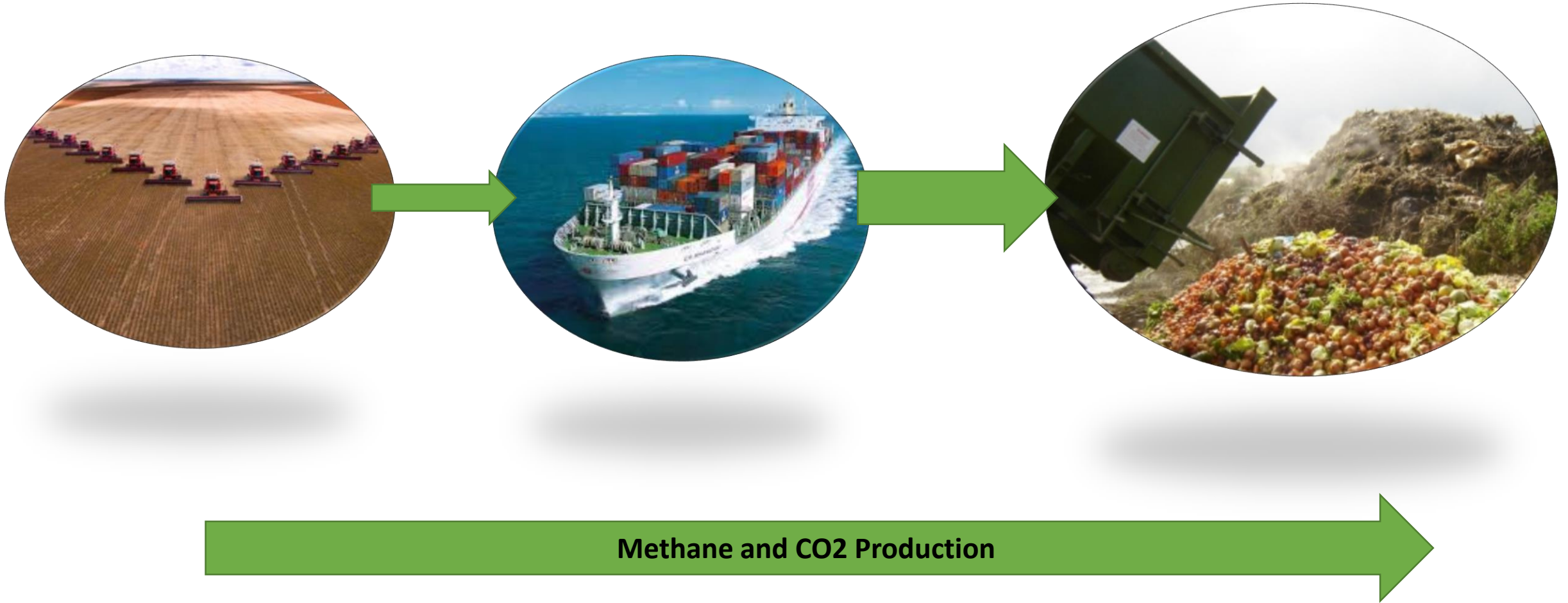
What does it do?





Little Green Fingers

FOOD WASTE AND CLIMATE CHANGE



Solution?



Positive behavioural changes for food production and food waste

HOW?



Growing and nurturing

HOW?



Cooking and Preserving

Take 5 Photography
www.take5photography.com

HOW?

Community engagement



Long Term Benefits?

- Reduced food waste and increased food appreciation
- Quality locally grown food
- Strengthening community bonds
- Increasing environmental awareness



What we need to get started

A top-down view of many hands, likely belonging to children, holding small green seedlings in a circle. The hands are arranged in a ring, with each hand holding a small plant with green leaves and dark soil. The background is dark, making the hands and plants stand out. The overall image conveys a sense of unity, growth, and environmental care.

Thank You



LEIÐAKORTIÐ



REYKJAVÍK



Til og frá To and
from Akureyri

KJALARNES

Til To Kjalarnes, Akureyri

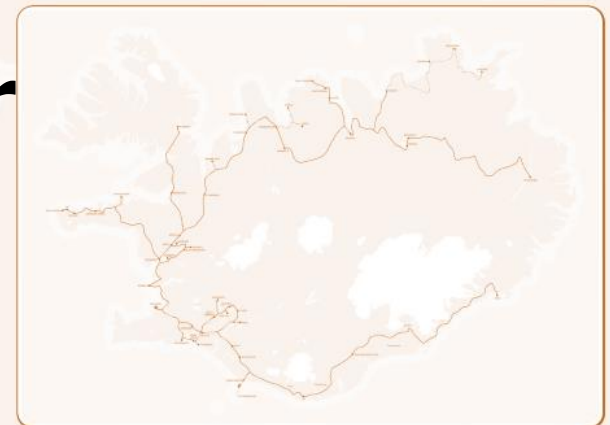
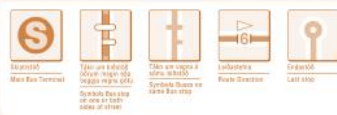
SKELLSBÆR

Áð To Launa

The Magic Bus

Marie Jecker
Mai Duong

UPPLÝSINGASÍMI / INFORMATION TEL.: 540 2700
STRÆTÓ.IS



Examples

- Children's Bus Decoration from Christmas Time
- Pride Bus
- Japanese Cat Train
- Denmark Public Bus



Raising awareness
about climate change

crowd funding

