

# Climate Action Plan

2021–2025

Iceland   
Liechtenstein  
Norway grants



REYKJAVÍK  
CARBON NEUTRAL  
2040







# Reykjavik City

- Capital city of Iceland
- 135.000 habitants (of 350.000 total population in Iceland)
- 246 km<sup>2</sup>
- Average temperature 0-10°C
- 100% renewable energy (geothermal and hydro)
- Used to natural hazards, storms, earthquakes and volcanos
- Main environmental challenge: fossil fueled transport, most by private car





# Challenges - mitigation

Community-scale emissions inventory in Reykjavik according to scope in 2019;

Simple carbon footprint			Regional carbon footprint in addition to the value chain			Regional carbon footprint in addition to the value chain and the affect of other activities within the city limits		
	CO <sub>2</sub> t <sub>ig</sub>	Proportion		CO <sub>2</sub> t <sub>ig</sub>	Proportion		CO <sub>2</sub> t <sub>ig</sub>	Proportion
Transport	340,921	82%	Transport	340,921	64%	Transport	340,921	54%
Waste	54,524	13%	Waste	54,524	10%	Waste	54,524	9%
Energy use	21,637	5%	Energy use	21,637	4%	Energy use	21,637	3%
			Agriculture	3,510	1%	Agriculture	3,510	1%
			Chemical processes and industry	62,840	12%	Chemical processes and industry	62,840	10%
			Land use	45,421	9%	Land use	45,421	7%
						Manufacture of food products	8,043	1%
						Construction industry	93,968	15%
Total	417,082		Total	528,853		Total	630,864	



# Reykjavik City Climate Action Plan



- SECAP in 2011
- New Climate vision in 2016: to be carbon neutral 2040
  - and a Climate action plan for 5 years 2016-2020
  - includes both mitigation and adaptation
- New Climate action plan 2021-2025:
  - political steering committee
  - meetings with stakeholders
  - advertising campaign : every one could apply their ideas and actions – hundreds of ideas and actions
- The focus: 15 main actions
- The goal is reduction of 300.000 tons CO<sub>2</sub> eq until 2030 and net zero in 2040



# Carbon neutral by 2040

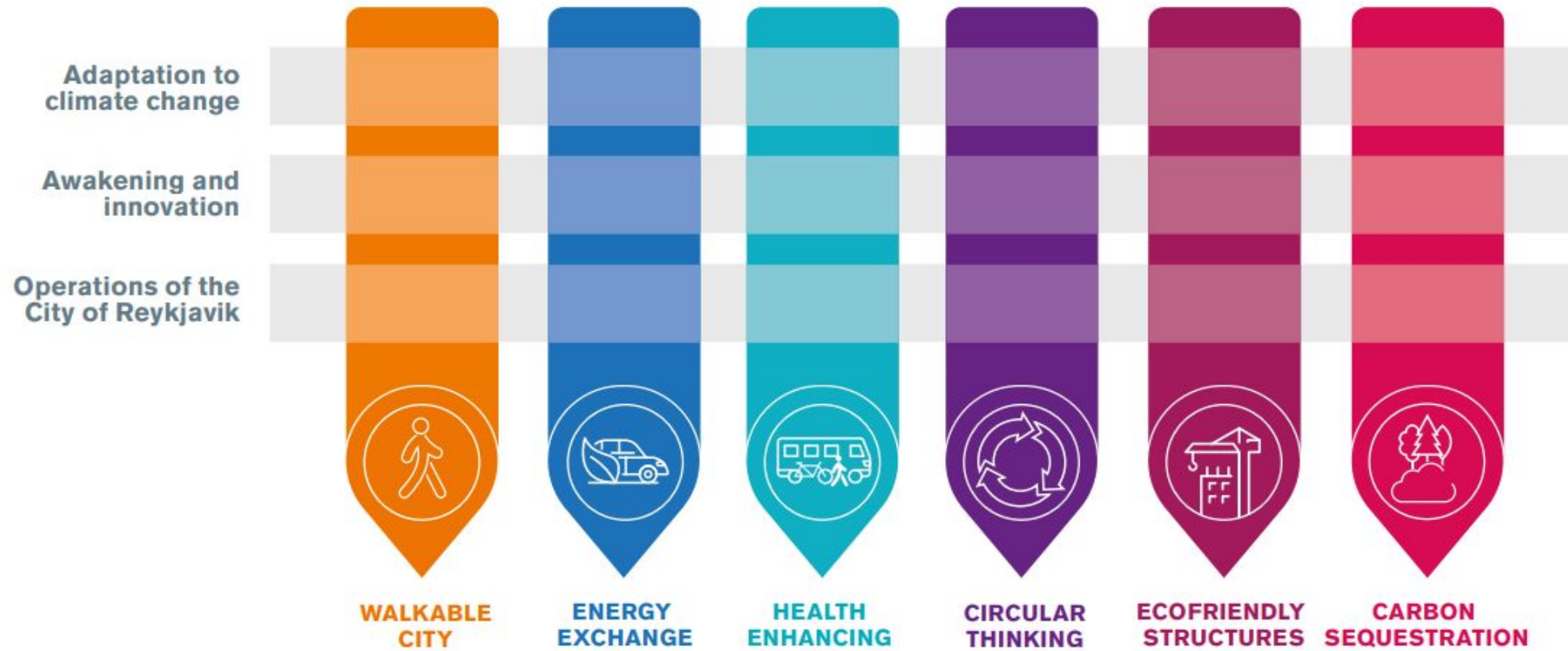


“The vision of Reykjavik is to be carbon-neutral by 2040 and adapt to climate change in a humane and nature based way. Reykjavik supports the goals of the Paris agreement to keep global warming within 1.5°C.

The action plan will be reviewed in 2025 and every five years after that in accordance with the Paris Agreement of 2015. The results will be evaluated at least yearly.”



# Climate neutral – how?





# Milestone: 300.000 tonnes by 2030

## - transport

### 1 15 minute district

Through the process of district planning, renewal of urban centres and investments in infrastructure, the City's districts will become more pedestrian-friendly and the access to green areas, outdoors-activities and services will be ensured within a radius of fifteen minutes' walk or on bicycle.

### 2 Green city development

The city's future development will all be within its defined urban growth limit line and 80% of housing development will be located within convenient distance from the new BusRapid Transport system, Borgarlínan.

### 3 Energy exchange everywhere

A comprehensive plan to be drawn up and carried out for energy exchange infrastructure for private cars with charging stations in the city districts, for commercial cars, trucks, for public transport systems, in the ports and at sea.

### 4 World class cycling city

A revised cycling plan is to set goals with the aim that Reykjavik becomes a world class cycling city.

### 5 Borgarlína (Cityline) and improved public transportation

Improved as well as efficient public transportation and the compaction of the city are to play a key role in attaining the goals for changes in travel behaviour. Further climate goals will be defined for the transportation agreement between the state and the association of metropolitan area communities (SSH).

In total approx.  
170,000 tonnes



A large crowd of people is gathered for an outdoor event, with city buildings visible in the background. The image is overlaid with a blue tint and white text.

# REYKJAVIK CAPITAL AREA EXPECTED GROWTH 2015-2040

# 70.000

How will we travel?  
How should we travel?



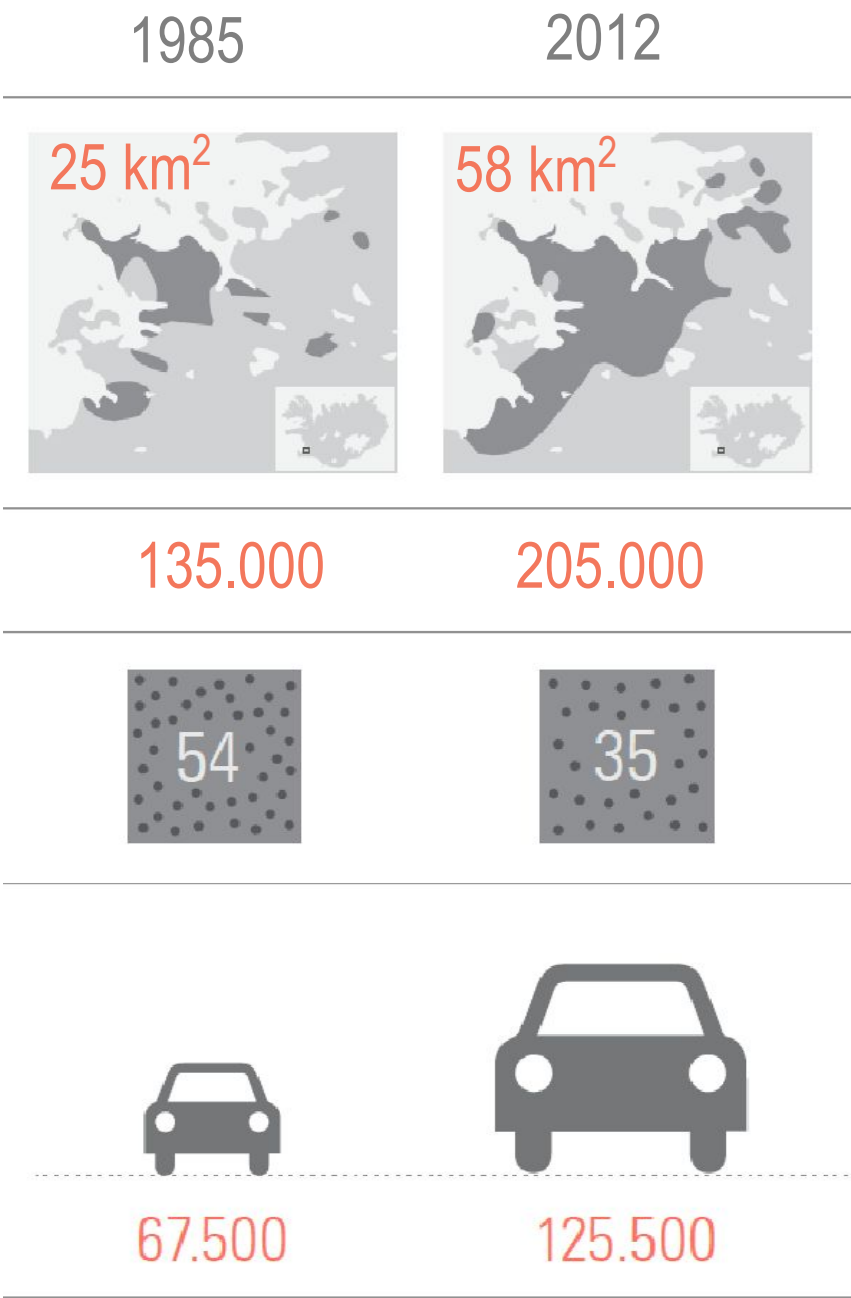
# + 70.000 – Lessons learned

URBAN AREA +132 %

POPULATION GROWTH +52 %

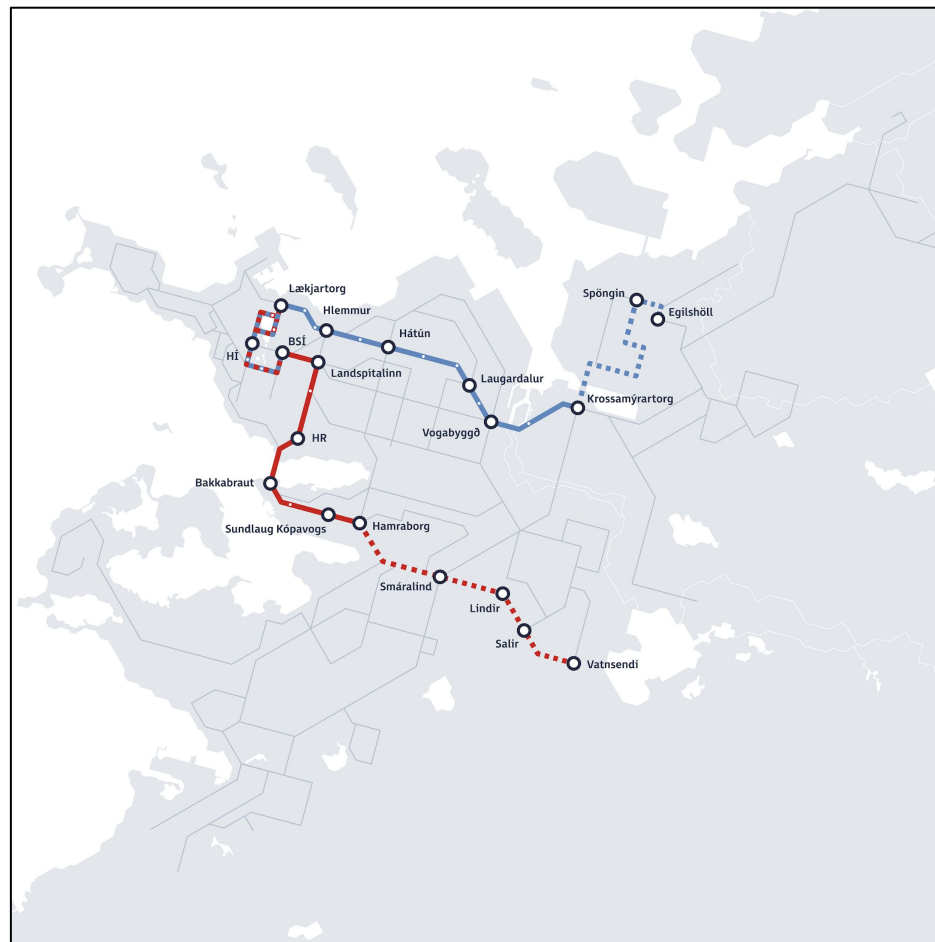
POPULATION DENSITY -35 %

PRIVATE CARS +86%





# Borgarlína – City Line





# Milestone: 300.000 tonnes by 2030

## - other sectors

<p><b>6 Zero waste</b> A comprehensive action plan to be developed for recirculation and recycling in order to support a more sustainable treatment of waste.</p>	54,000 tonnes
<p><b>7 Green food policy</b> The City's food policy to be implemented and cooperation to be organised involving green agriculture in Kjalarnes.</p>	
<p><b>8 Green construction industry</b> Cooperation to be organised with businesses and industry for a greener construction industry.</p>	Construction industry having attained carbon neutrality
<p><b>9 Turn CO<sub>2</sub> into stone</b> Know-how and solutions by OR and Carbfix are to be developed for the sequestration of carbon dioxide, and as the case may be of other greenhouse gases in partnership with universities and enterprises that are heavy emitters.</p>	22,000 for carbon neutral energy production
<p><b>10 Reclamation of wetlands</b> to be increased according to a special plan.</p>	45.00 tonnes because of land use
<p><b>11 Reykjavik climate forests</b> Climate forests to be promoted in collaboration with the Reykjavik Forestry society (Skógræktarfélag Reykjavíkur), and a forestry plan be presented.</p>	



# We turn CO<sub>2</sub> into stone

Carbfix provides a natural and permanent storage solution by turning CO<sub>2</sub> into stone underground in less than two years.



**13.271**

CO<sub>2</sub> injected today  
(metric tonnes)

**64,953.312**

Carbon dioxide  
injected since 2014  
(metric tonnes)



# Support actions

## SUPPORT-ACTIONS

that have mutual points of contact in new city districts and when renovating the older systems.

### 12 Operations of the City of Reykjavik

#### **Fossil fuel free by 2025**

Cars and equipment powered by fossil fuels will not be procured by the city as of 2021 and the cars and equipment that is already possessed will be replaced before the year 2025. (-800 tonnes)

### 13 Adaptation to climate change

#### **Blue-green surface water solutions**

New thinking in the application of utility systems with improved utilization of water and Blue-green surface water solutions to become the rule in new city districts and when renovating the older systems.

### 14 Flood control installations to become recreational areas and parks

Undertakings to be initiated for the reinforcement of flood control structures along the coastline where needed, aiming at nature based solutions, developing recreational areas, beach parks and facilities for ocean bathing at selected locations.

#### **Awakening and innovation**

### 15 Collaboration with business and industry

Continue to cooperate with Festa, centre for social responsibility and businesses under the banner of the City of Reykjavik & Festa Climate declaration towards further results in all sections of the economy.



# Making space for people (not cars)





# Making space for people (not cars)

**Before**



**After**







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