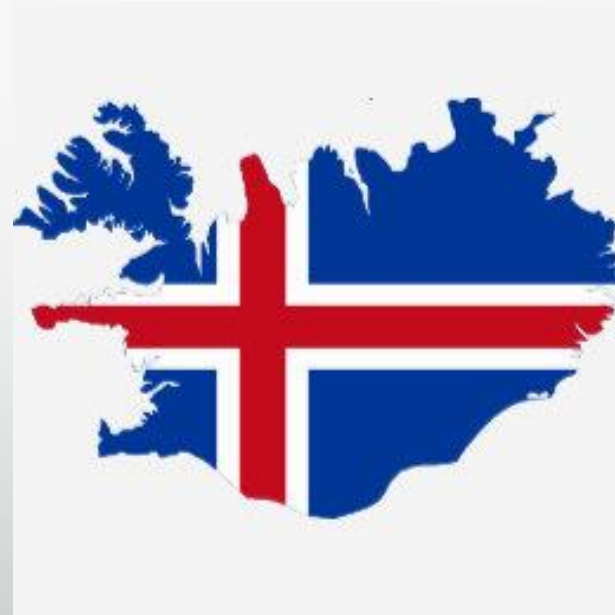


The Sustainable Mobility Transition of Iceland



Jasmin Eble



Agenda

- General information about Iceland
- Sustainability in Iceland
- Mobility Transition
- Summary

Facts and figures

- Roughly 330 000 inhabitants (most live in cities)
- Second biggest island in Europe (thin populated)
- Volcanoes, glaciers, geysers and waterfalls typical for the country
- High standard of living
- Tourism, aluminum industry and export of fish

Infrastructure and mobility behavior

- Ring Road
- Difficult weather conditions
- Bus system
- No rail traffic
- Air transportation is popular



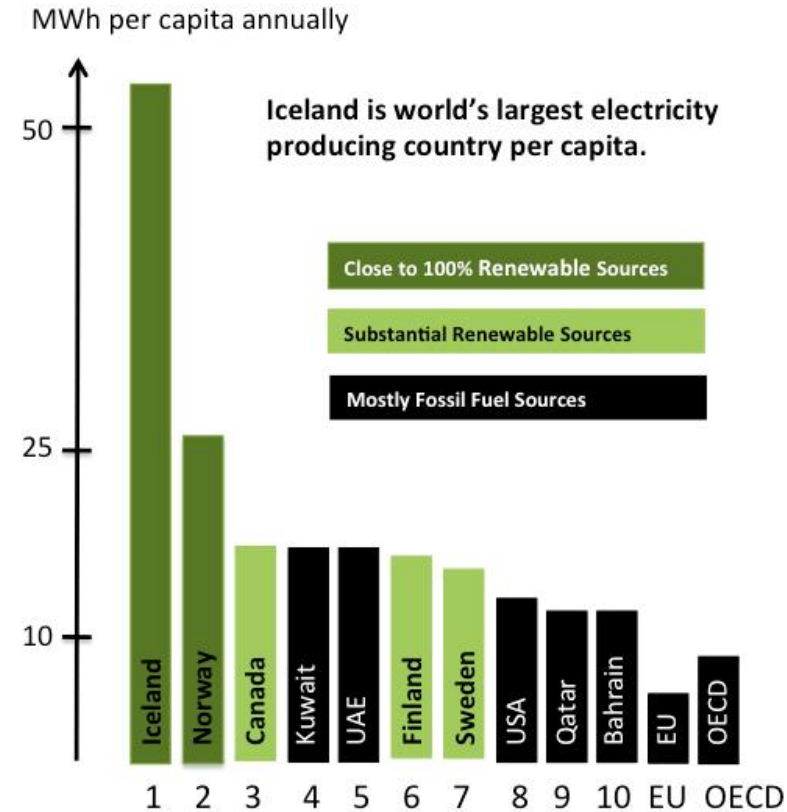
Sustainable measures

- Almost 100% of the energy comes from renewable sources
- Water and geothermal power (geology), wind energy
- Largest green energy and electricity producer per capita
- Promotion of sustainable tourism

ICELAND IS GREEN **LEADER** IN POWER PRODUCTION

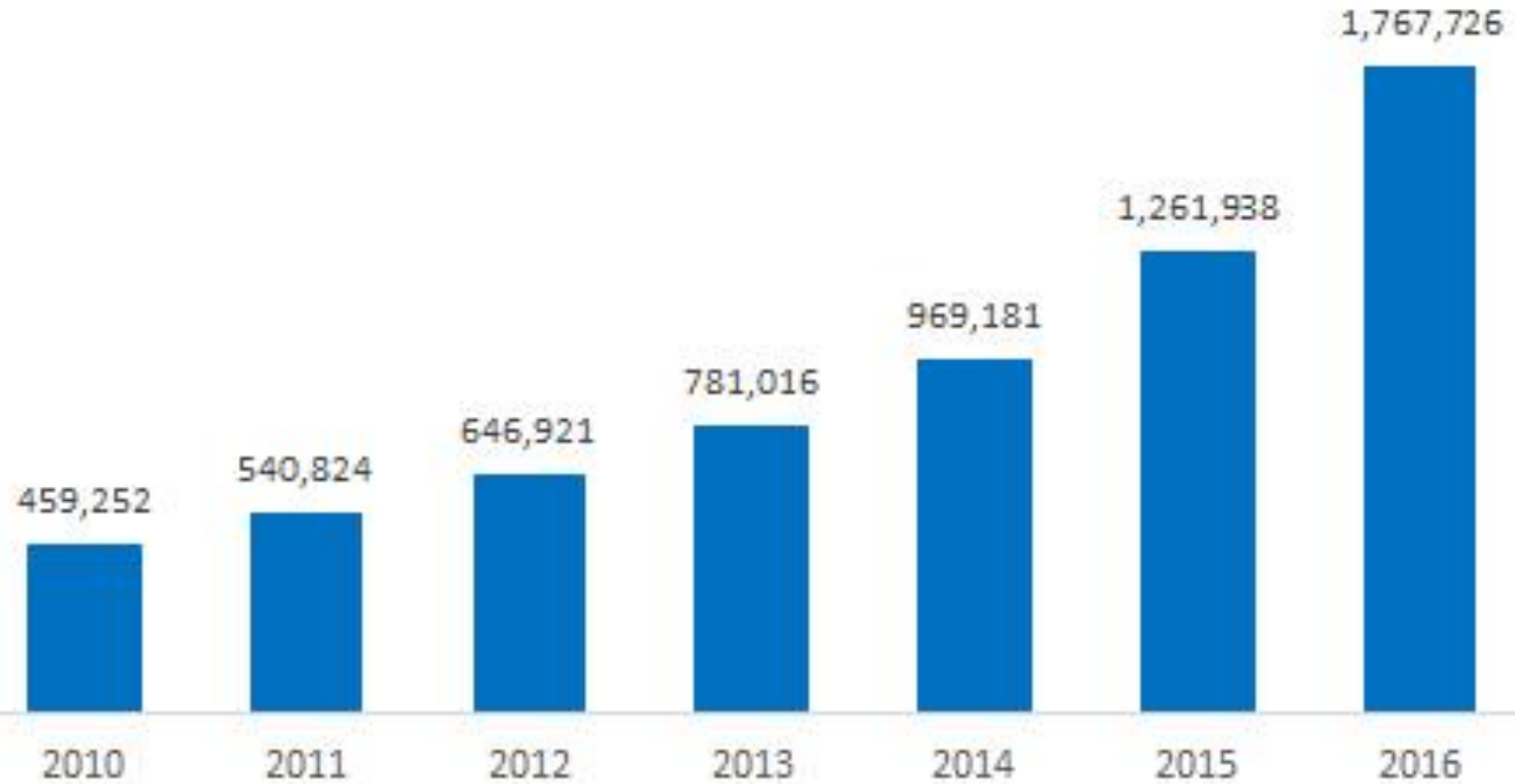
1.	Iceland	54 MWh
2.	Norway	26 MWh
3.	Canada	17 MWh
4.	Kuwait	17 MWh
5.	UAE	17 MWh
6.	Finland	16 MWh
7.	Sweden	15 MWh
8.	USA	13 MWh
9.	Qatar	12 MWh
10.	Bahrain	12 MWh
	OECD average	8-9 MWh
	EU average	5-6 MWh

Production as 2015.
Sources: IEA, EIA, OECD et.al.



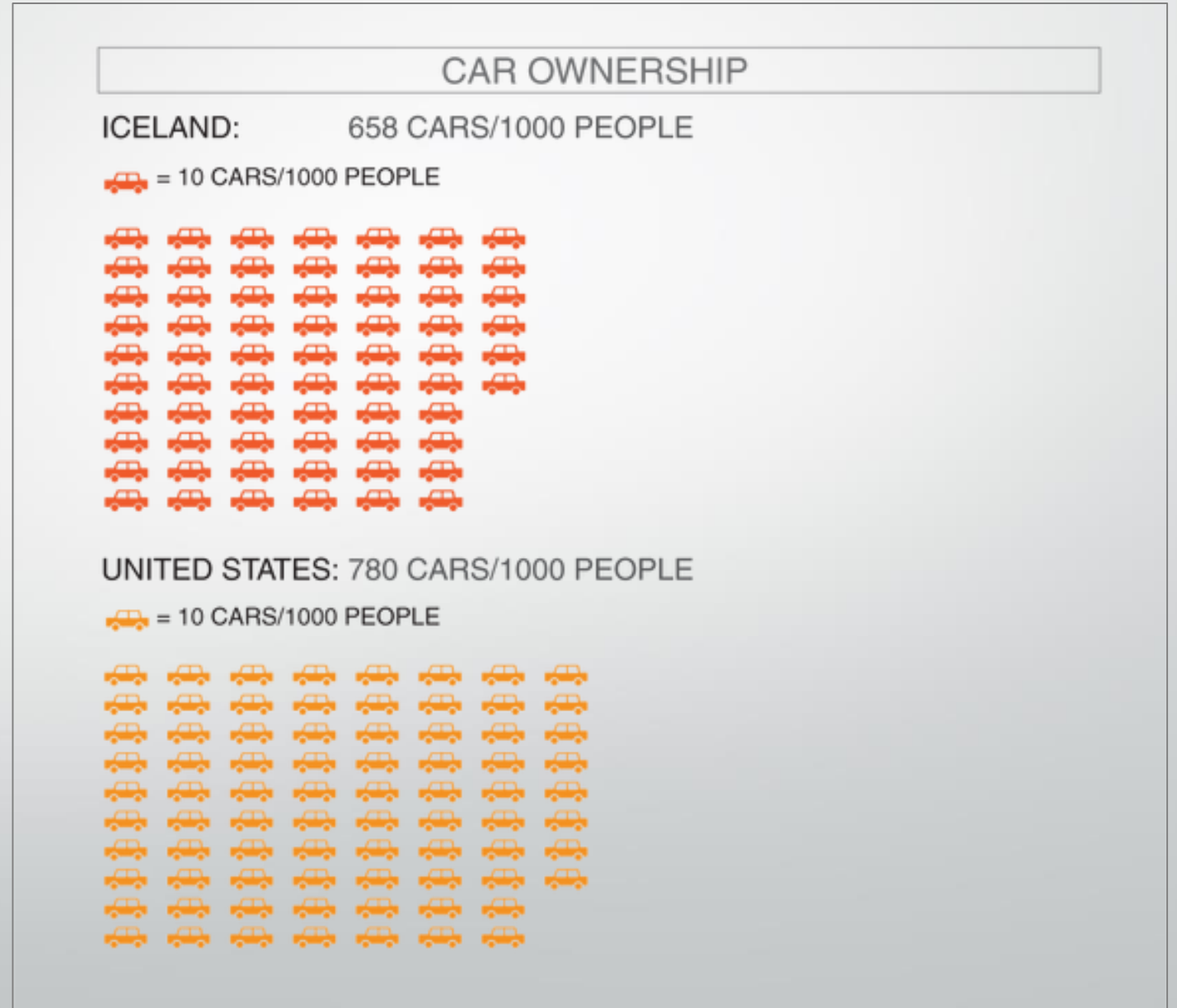
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Visitors through Keflavik Airport 2010 - 2016



Unsustainable behavior

- High level of car dependency



- 
- Internal flights
 - Compared to Norway much less electric vehicles
 - Aluminum smelters -> GHG emissions (growth by 28% since the 90's)

Mobility Transition

- Until the middle of the 20th century fossil fuels were used
- Fossil fuels today mainly in the transport sector
- Sheep dung as a fuel for heating
- Renewable energy -> energy consumption started to rise (>US)

TOTAL ENERGY USAGE PER CAPITA

ICELAND: 137,000 kwh/year

⚡ = 1000 KWH



UNITED STATES: 91,000 kwh/year

⚡ = 1000 KWH



Summary

- Sustainability pioneer
- From backwards, poor nation to advanced, wealthy economy
- Lucky because of the geographical conditions
- Improvements in regards of sustainability are possible
- Conflict between economic interests and pollution control



Takk fyrir!