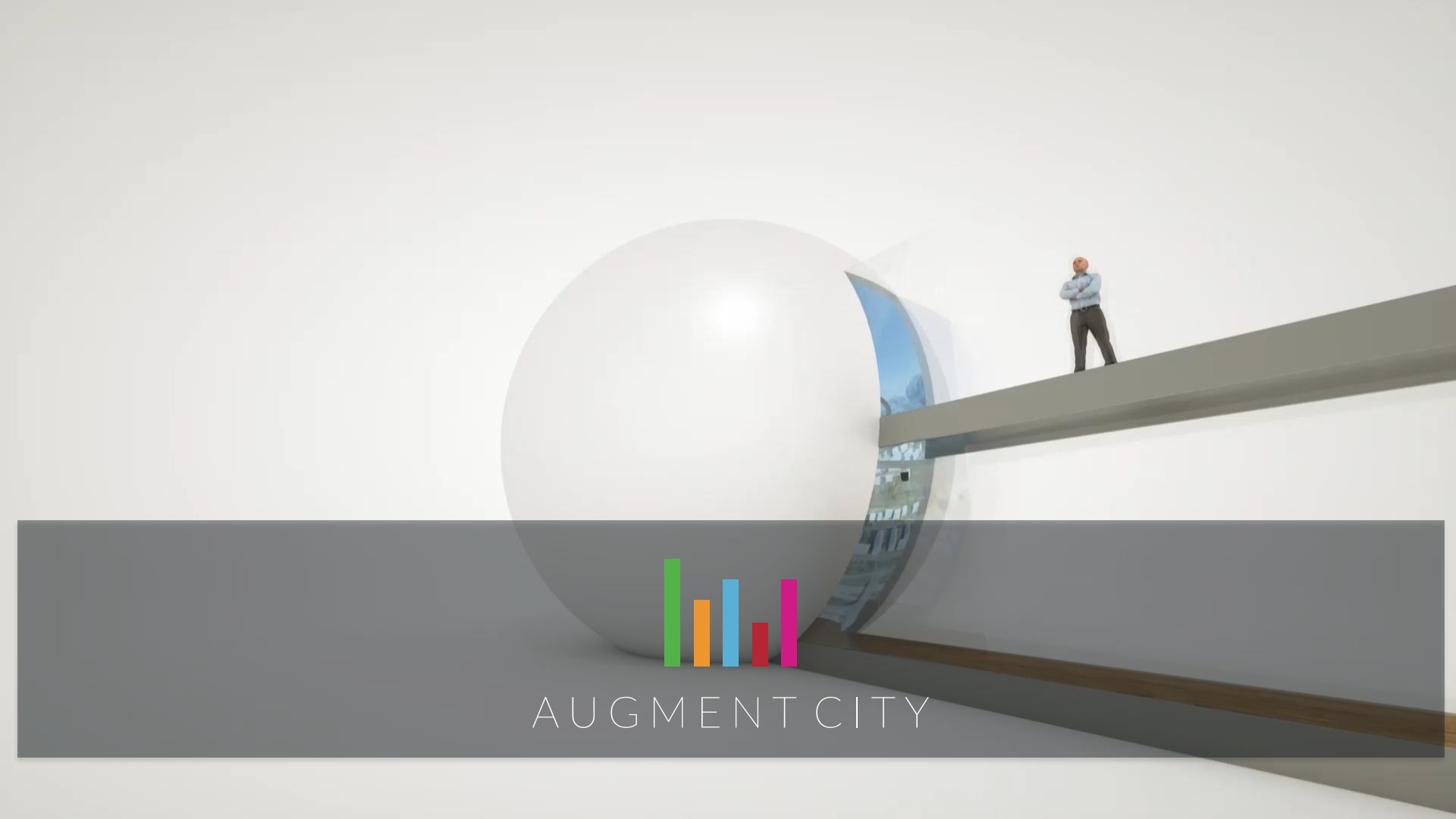
AUGMENT CITY

# Human interaction with big data

Driving to work in the morning….

Processing and understanding risks without a second thought

**Humans are designed to understand and evaluate data in a visual form**

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# From almost real to beyond real

Simulation Visuals

Simulation Core & Physics

Next to real simulation

Using simulation tools:

To go beyond what is possible in real life

Augmented simulation

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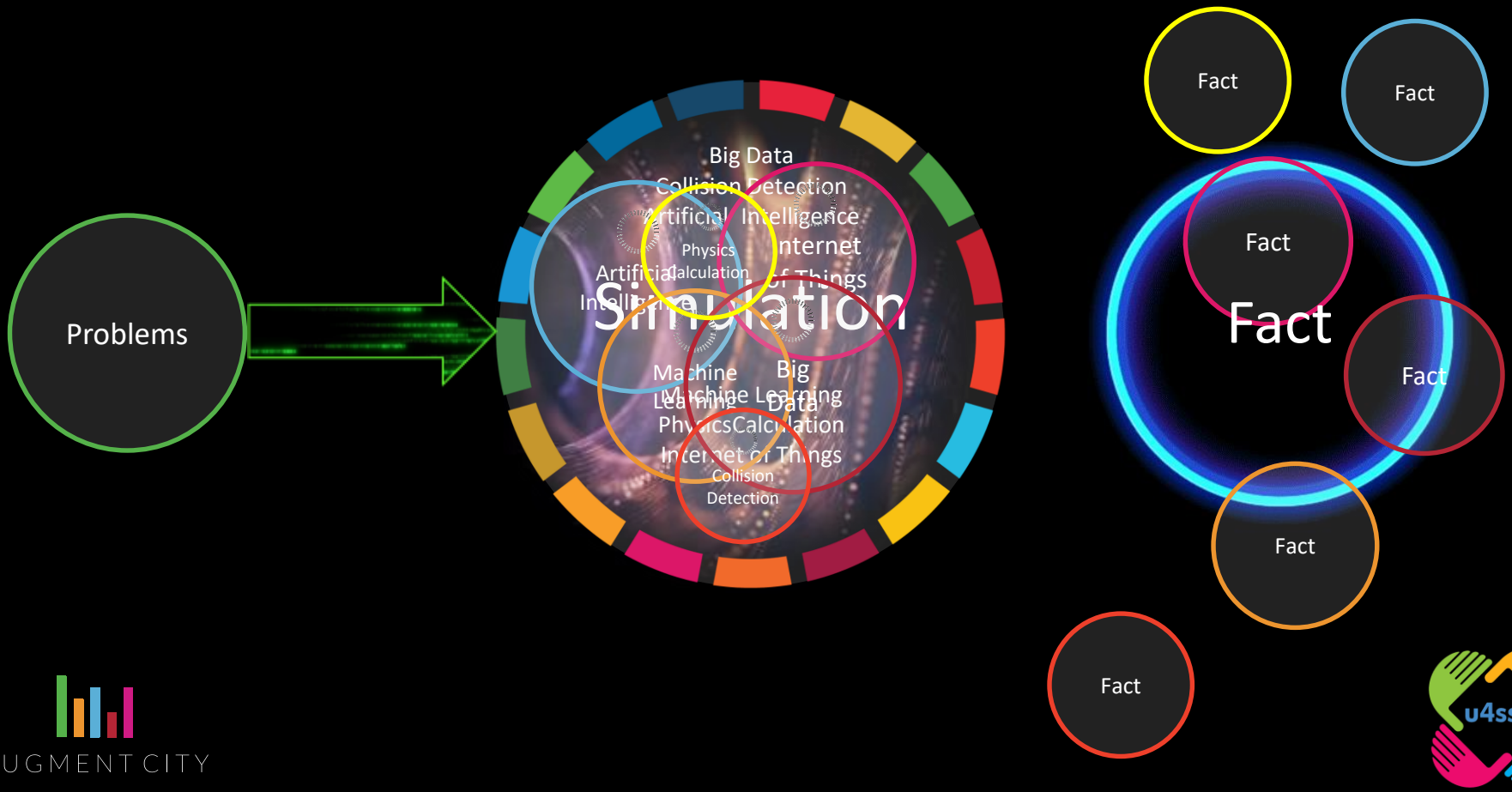
Problems
Big Data
Collision Detection
Artificial Intelligence
Physics Calculation
Internet of Things
Simulation
Machine Learning
Big Data
Fact
Fact
Fact
Fact
Fact
Fact
Fact
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Offshore

City

Health

Finance

Education

Big Data
Collision Detection
Artificial Intelligence

# Simulation

Machine Learning
Physics Calculation
Internet of Things

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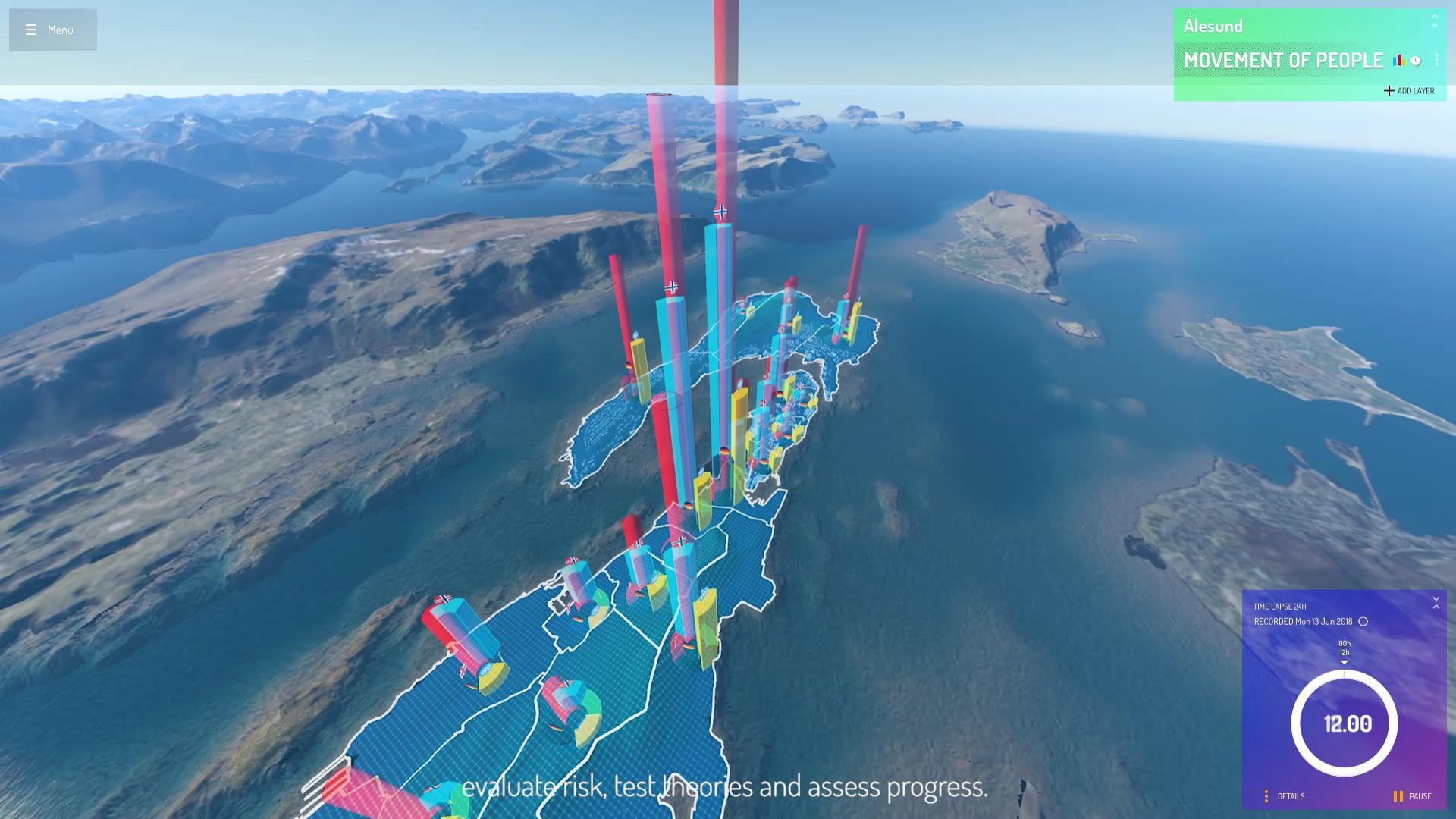
Menu
Ålesund
MOVEMENT OF PEOPLE
ADD LAYER
TIME LAPSE 24H
RECORDED Mon 13 Jun 2018
00h
12h
12.00
DETAILS
PAUSE
evaluate risk, test theories and assess progress.

# SUSTAINABLE DEVELOPMENT GOALS

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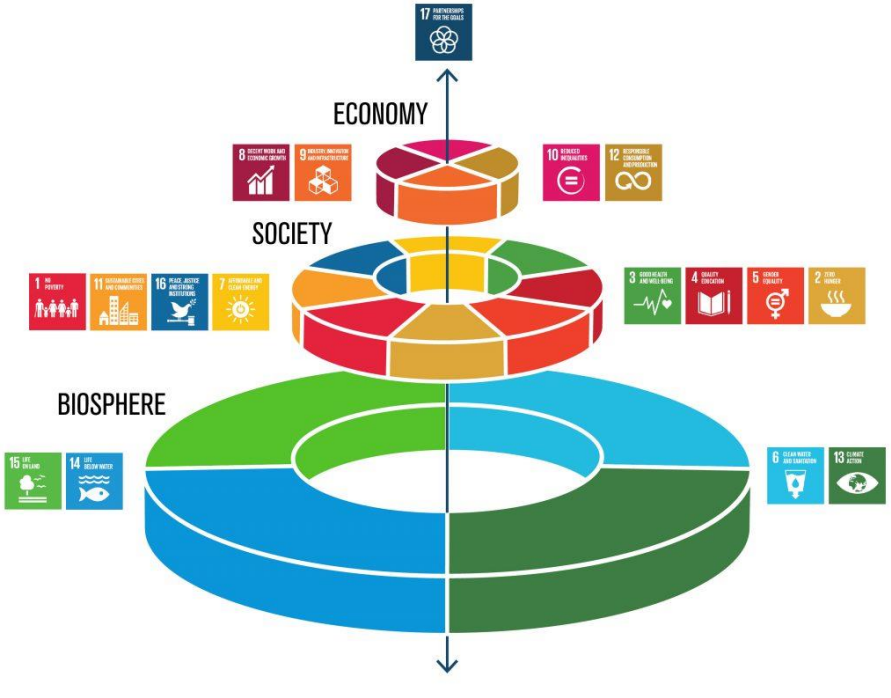
# The Three Dimensions




- Economic
- Society
- Environment

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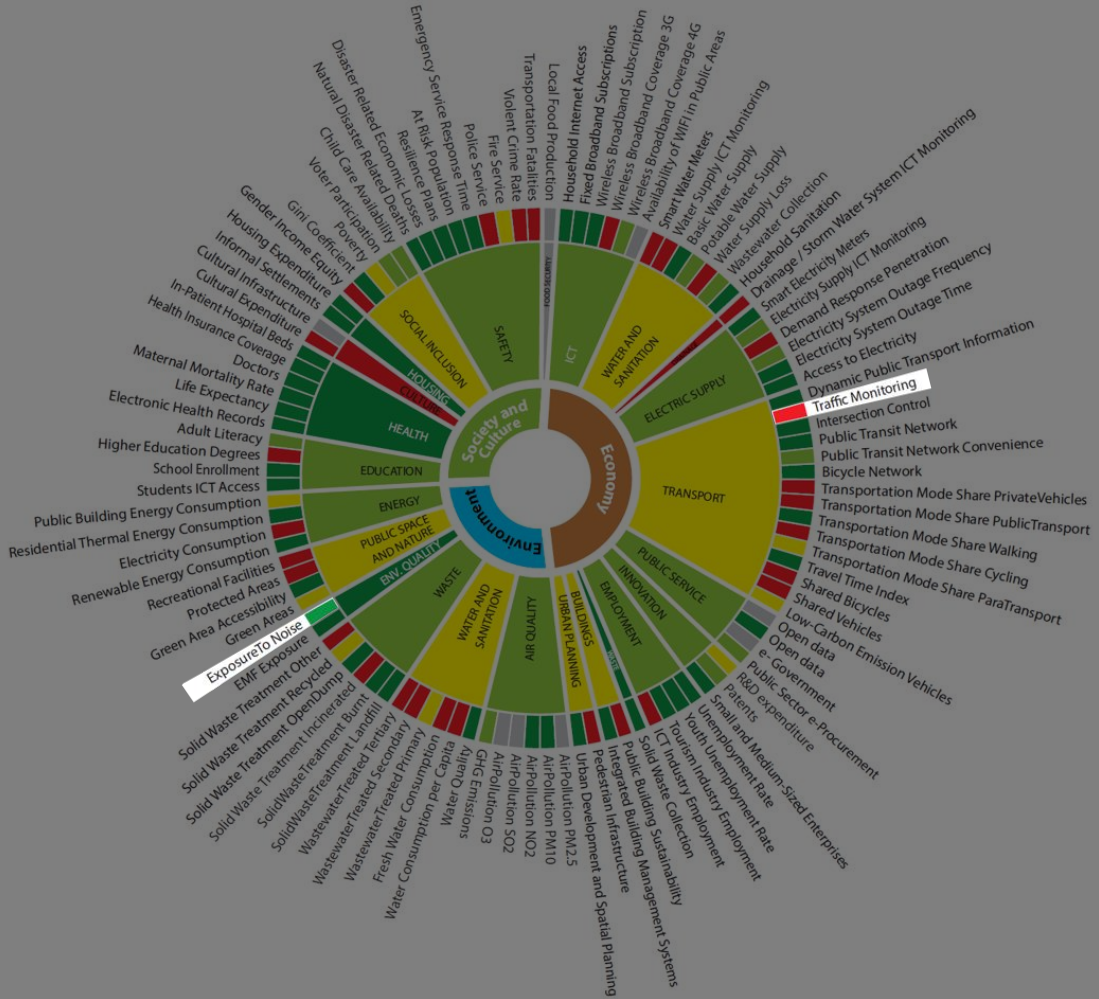


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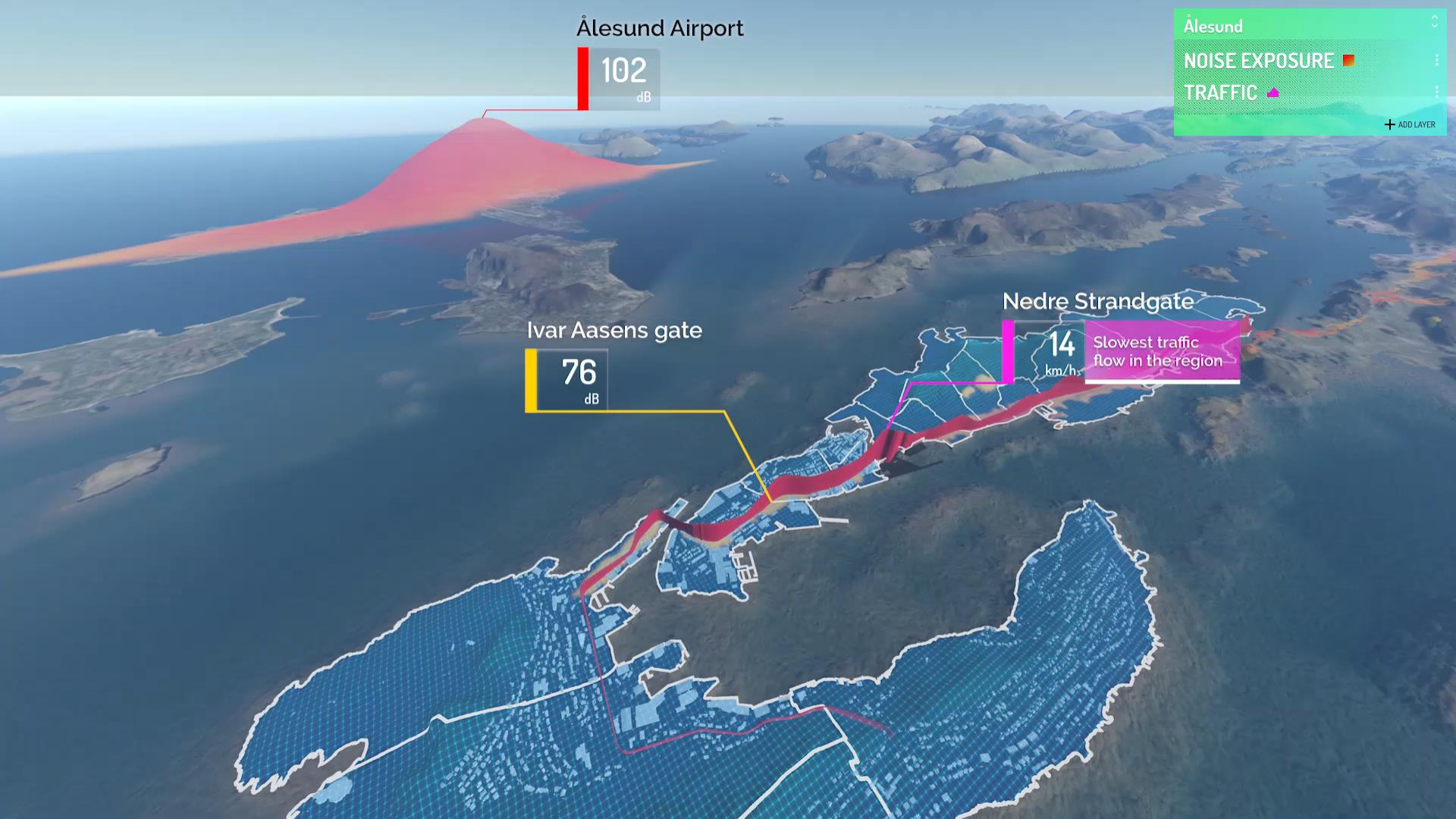
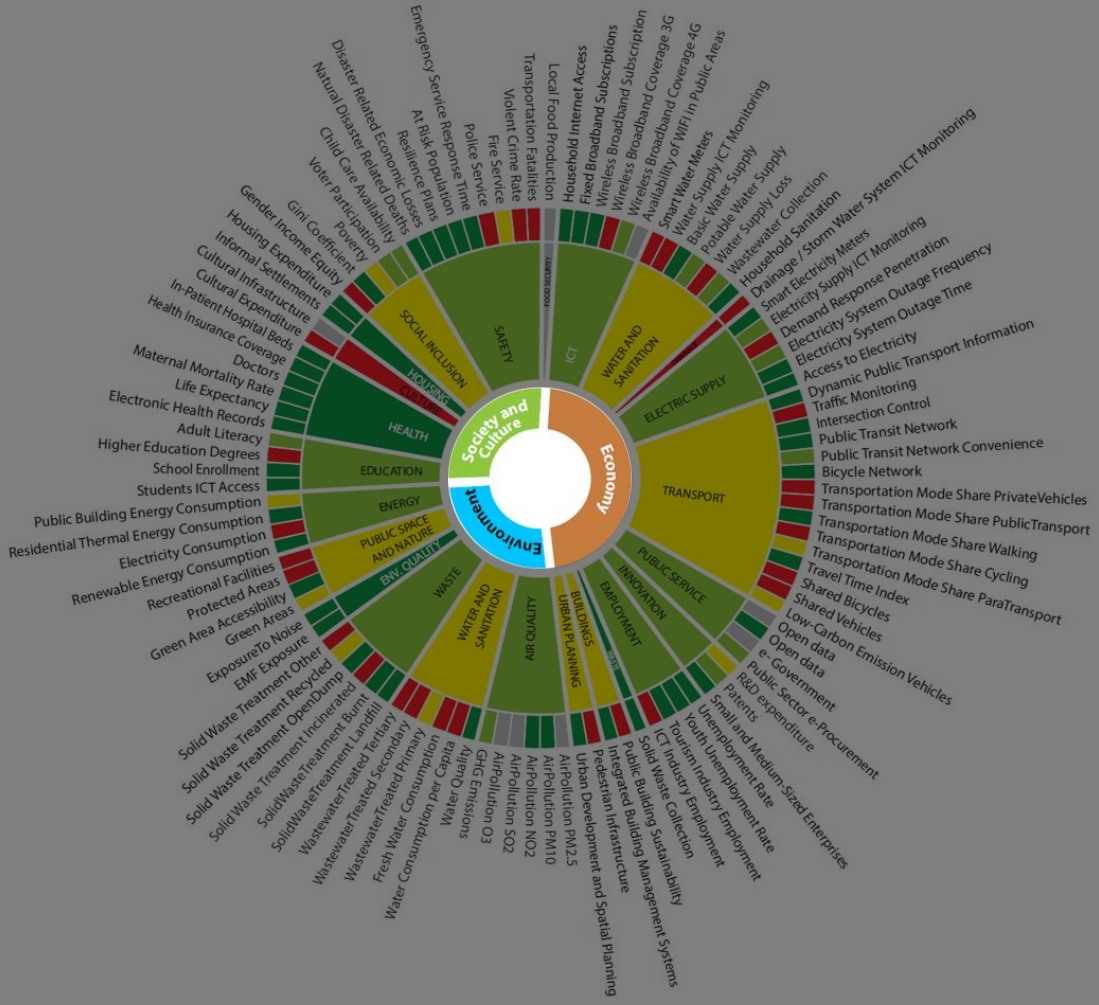

Ålesund Airport
102
dB
Ålesund
NOISE EXPOSURE
TRAFFIC
ADD LAYER
Nedre Strandgate
14
km/h
Slowest traffic flow in the region
Ivar Aasens gate
76
dB

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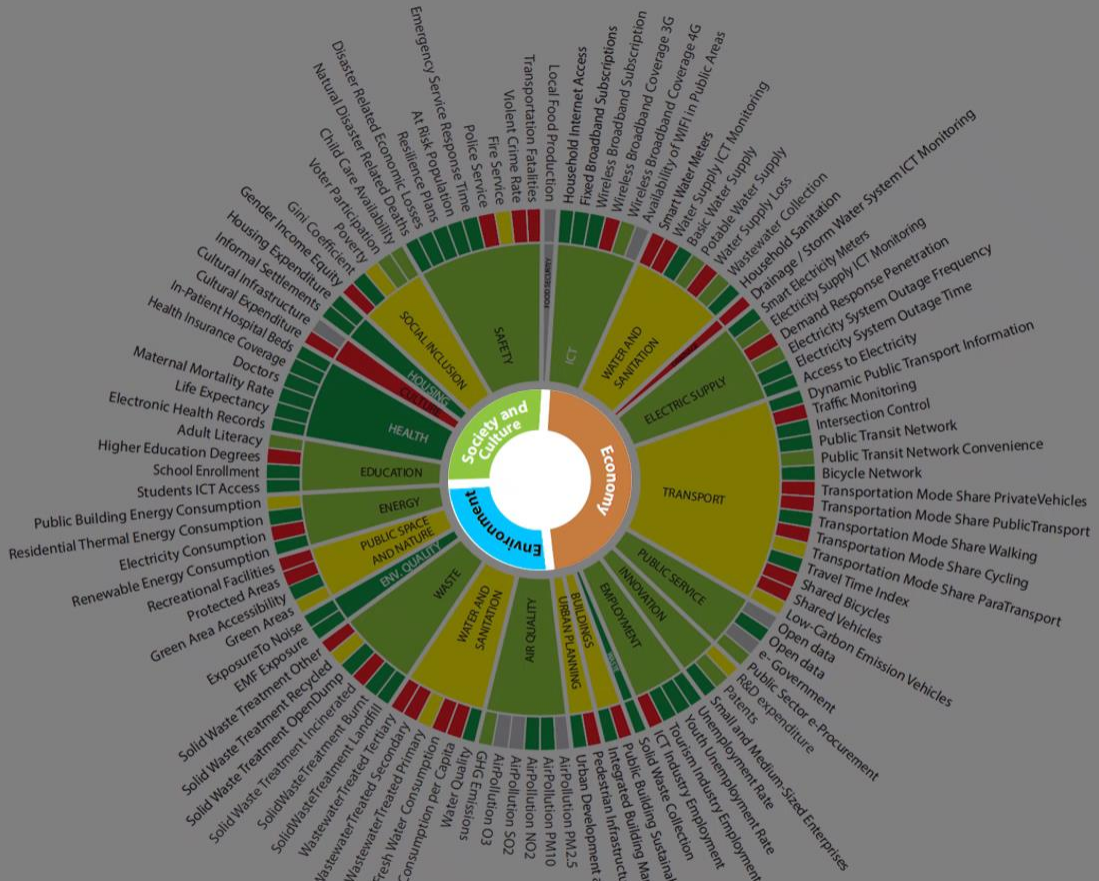


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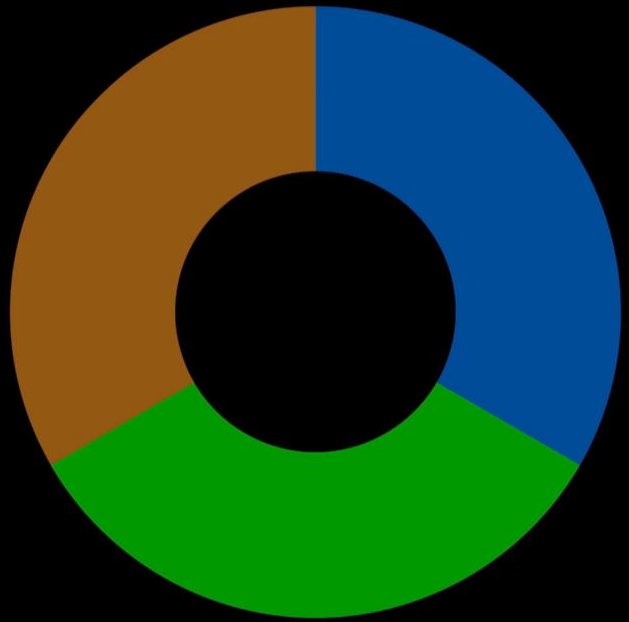

# Case study

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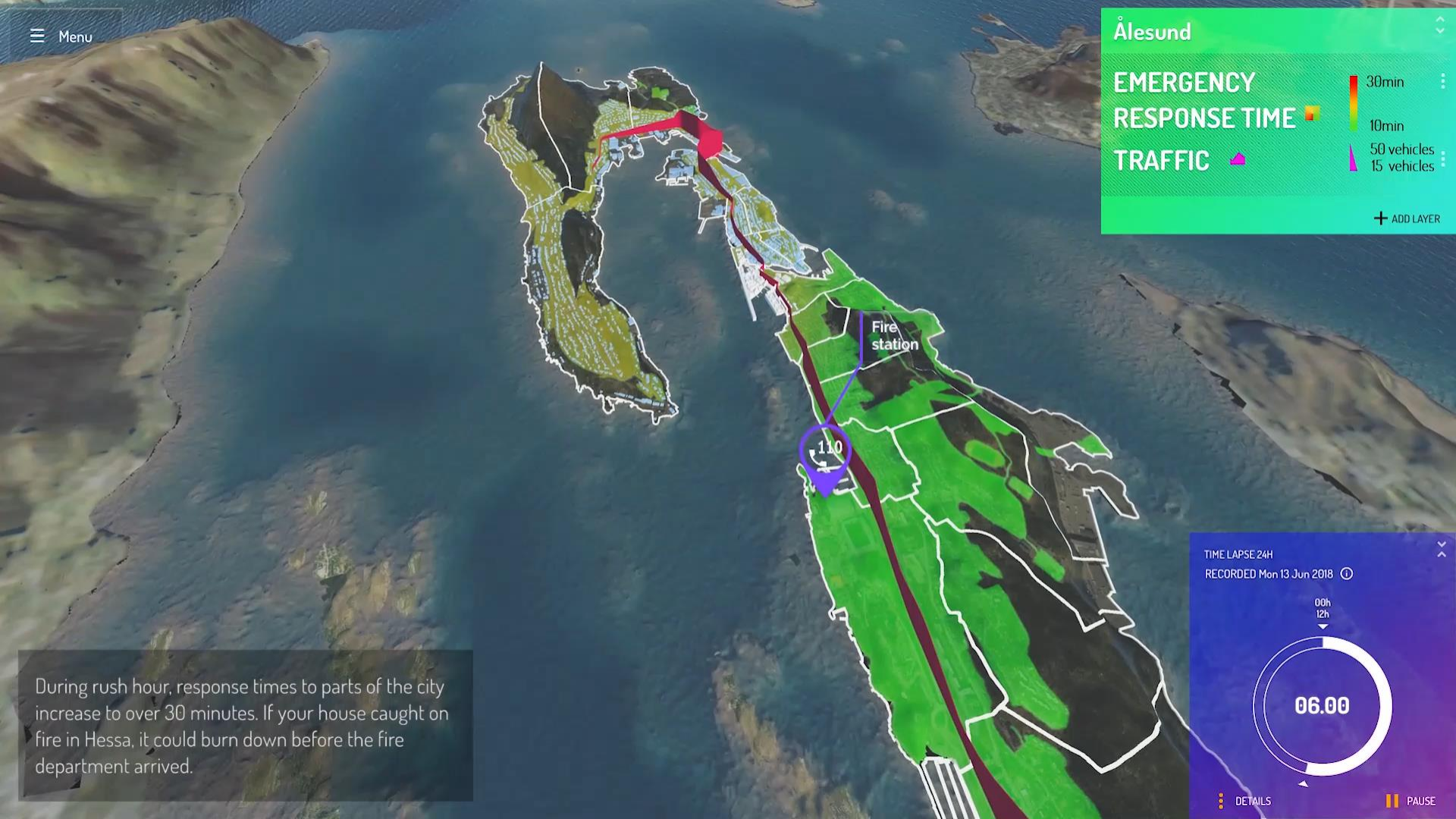
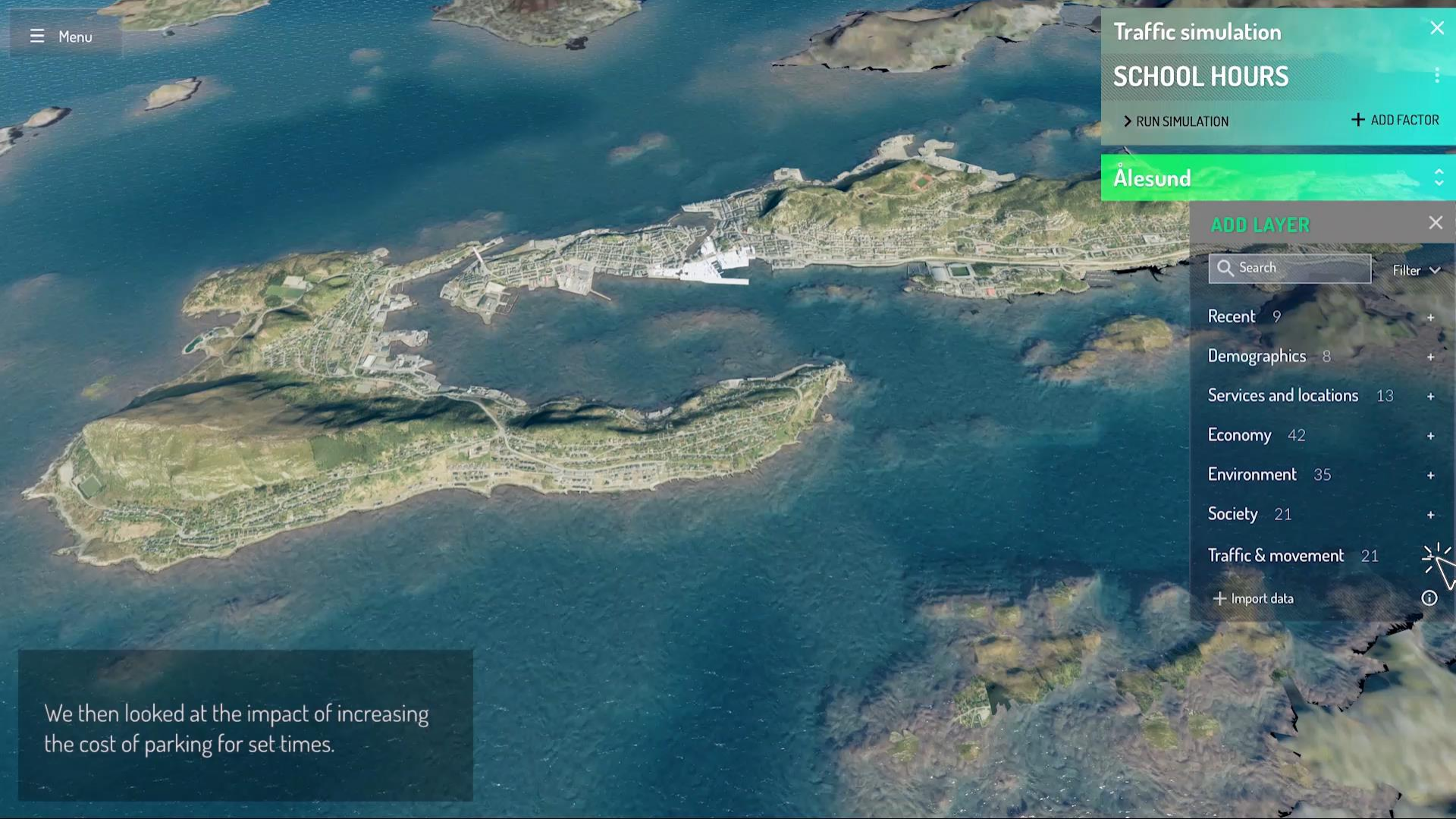
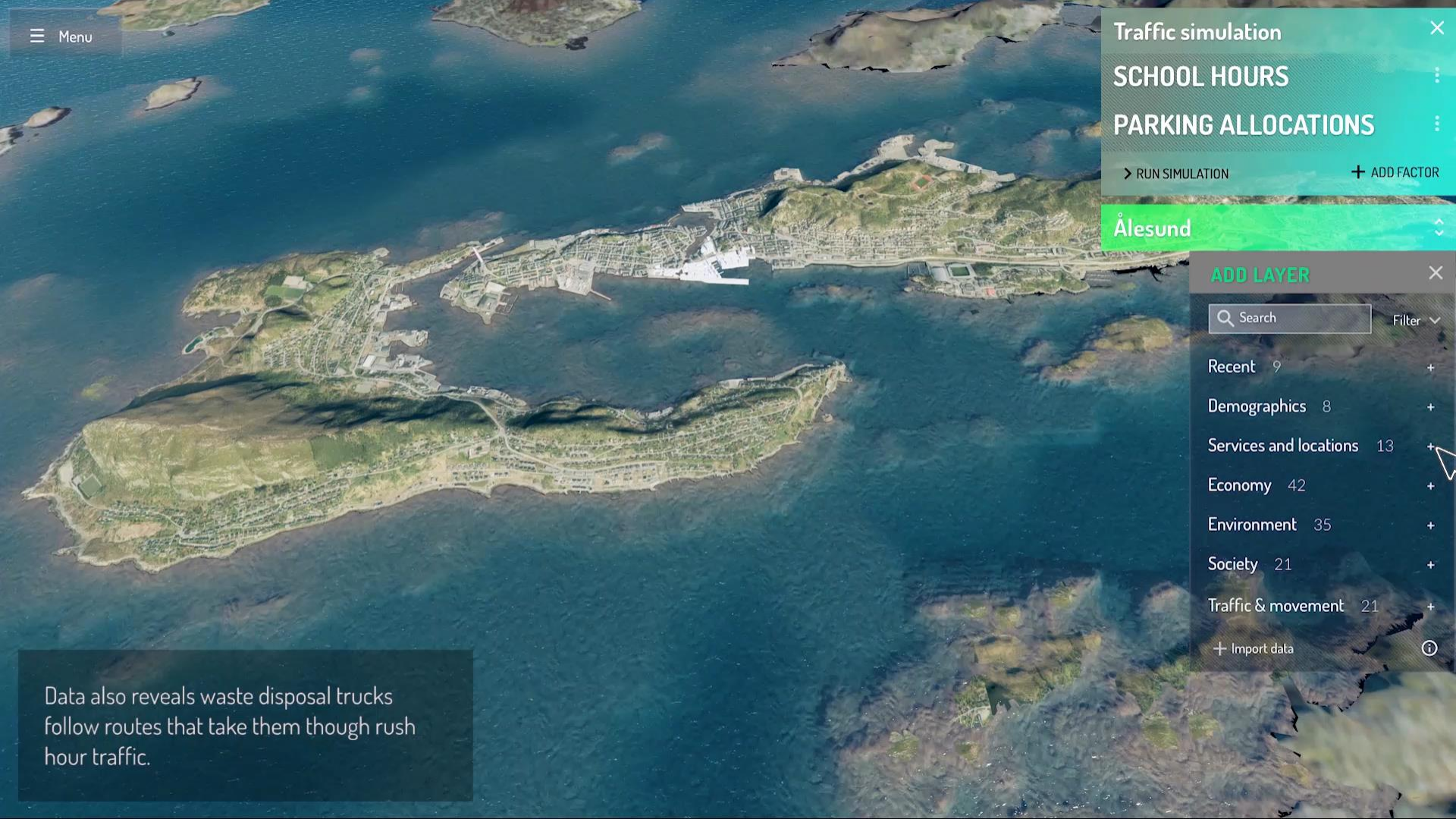
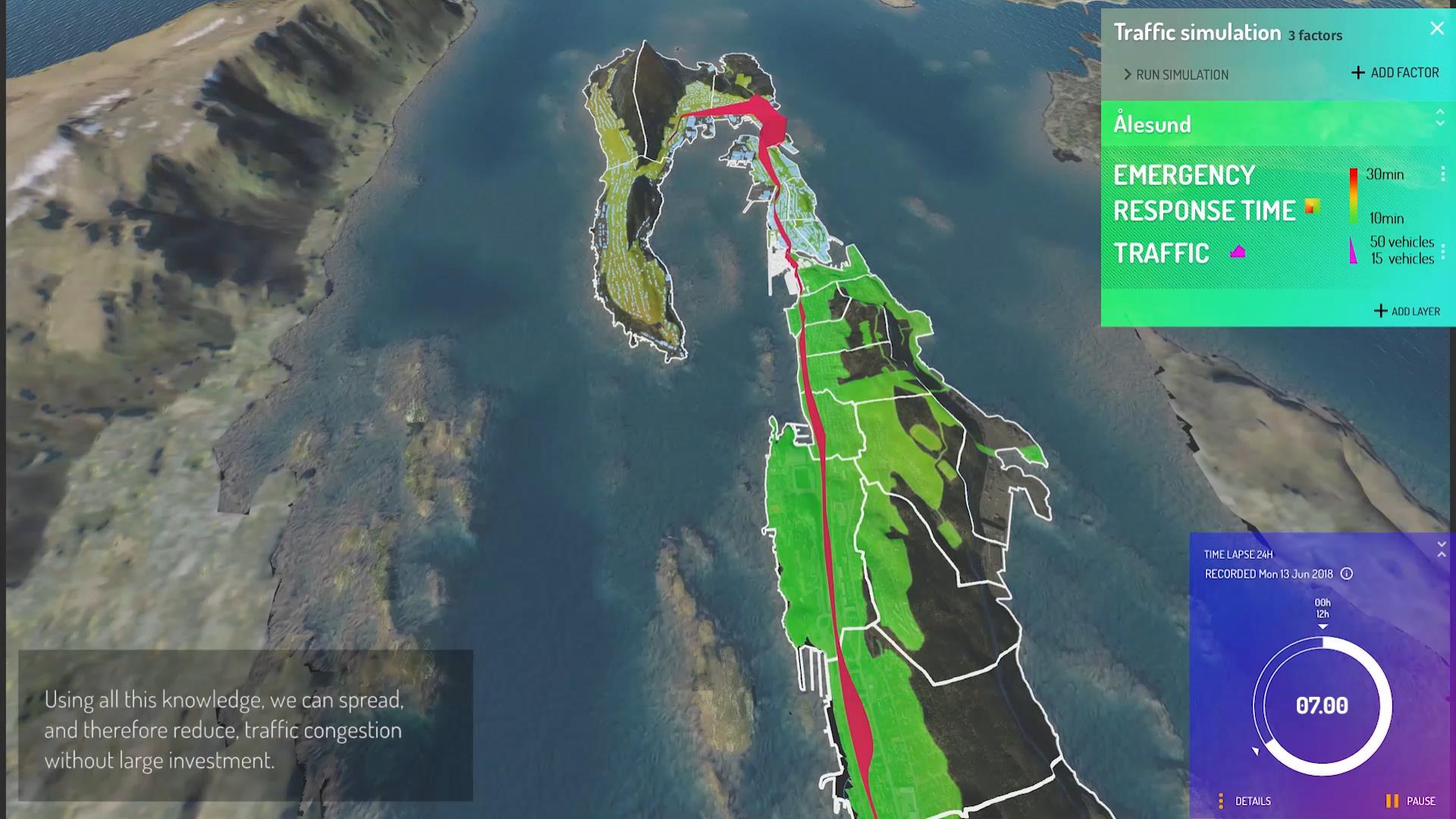
Menu
Ålesund
The UN’s digital twin city simulation prototype
Aalesund, west coast of Norway. A city with
a population of 40 000.


Menu
Ålesund
EMERGENCY RESPONSE TIME
30min
10min
TRAFFIC
50 vehicles
15 vehicles
ADD LAYER
Fire station
110
During rush hour, response times to parts of the city increase to over 30 minutes. If your house caught on fire in Hessa, it could burn down before the fire department arrived.
TIME LAPSE 24H
RECORDED Mon 13 Jun 2018
00h
12h
06.00
DETAILS
PAUSE

Menu
Traffic simulation
RUN SIMULATION
ADD FACTOR
Ålesund
ADD LAYER
Search
Filter
Recent 9
Demographics 8
Services and locations 13
Economy 42
Environment 35
Society 21
Traffic & movement 21
Import data
The digital twin offers insights that reveal novel solutions. We were able to identify, for example, that childcare opening times has a large effect on rush hour traffic.


Menu
Traffic simulation
SCHOOL HOURS
RUN SIMULATION
ADD FACTOR
Ålesund
ADD LAYER
Search
Filter
Recent 9
Demographics 8
Services and locations 13
Economy 42
Environment 35
Society 21
Traffic & movement 21
Import data
We then looked at the impact of increasing the cost of parking for set times.


Menu
Traffic simulation
SCHOOL HOURS
PARKING ALLOCATIONS
RUN SIMULATION
ADD FACTOR
Ålesund
ADD LAYER
Search
Filter
Recent 9
Demographics 8
Services and locations 13
Economy 42
Environment 35
Society 21
Traffic & movement 21
Import data
Data also reveals waste disposal trucks follow routes that take them though rush hour traffic.

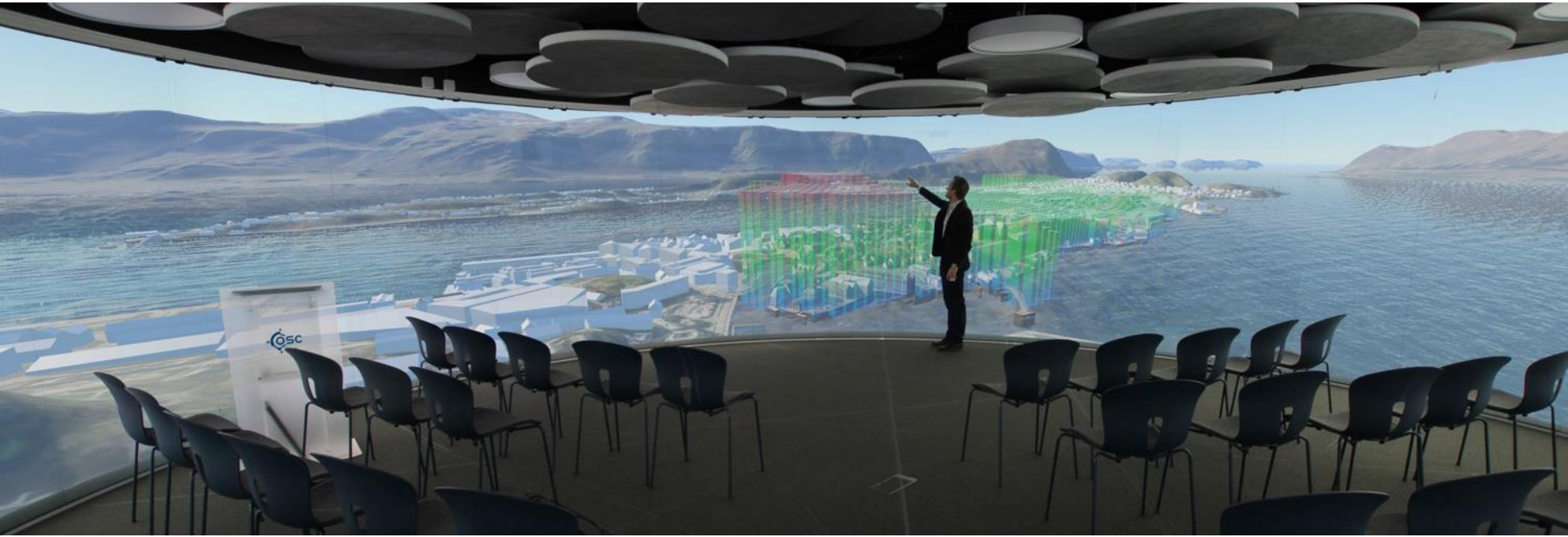

Traffic simulation 3 factors
RUN SIMULATION
ADD FACTOR
Ålesund
EMERGENCY RESPONSE TIME
30min
10min
TRAFFIC
50 vehicles
15 vehicles
ADD LAYER
TIME LAPSE 24H
RECORDED Mon 13 Jun 2018
00h
12h
07.00
DETAILS
PAUSE
Using all this knowledge, we can spread, and therefore reduce, traffic congestion without large investment.

Menu
Ålesund
Fire station
110
TIME LAPSE 24H
RECORDED Mon 13 Jun 2018
00h
12h
09.00
DETAILS
PAUSE
In addition, building data already held by the council could save the fire brigade precious minutes if delivered en route to an emergency.

Menu
Ålesund
While tourism is a welcome industry, a population increase of over 100% in the city centre over the summer months slows down traffic.

It's now possible to understand every aspect of your city better, so you can choose smart and sustainable solutions. Augment City will help you build a more efficient, effective city, and improve your inhabitants' quality of life.

# The future tool for smart visualisation and simulation



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