

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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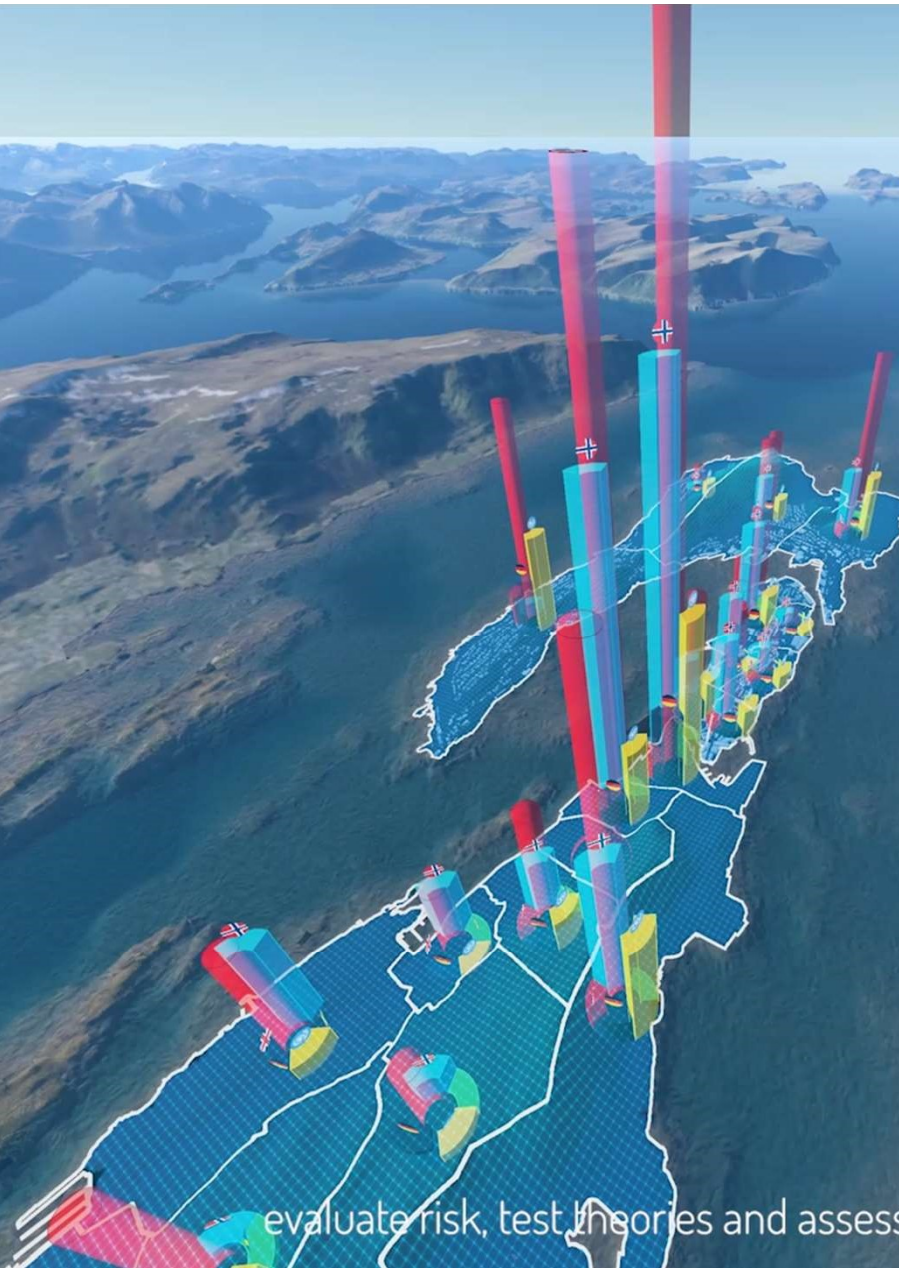


Menu

Ålesund

MOVEMENT OF PEOPLE

+ ADD LAYER



evaluate risk, test theories and assess progress.

TIME LAPSE 24H
RECORDED Mon 13 Jun 2018

00h
12h

12.00

DETAILS PAUSE

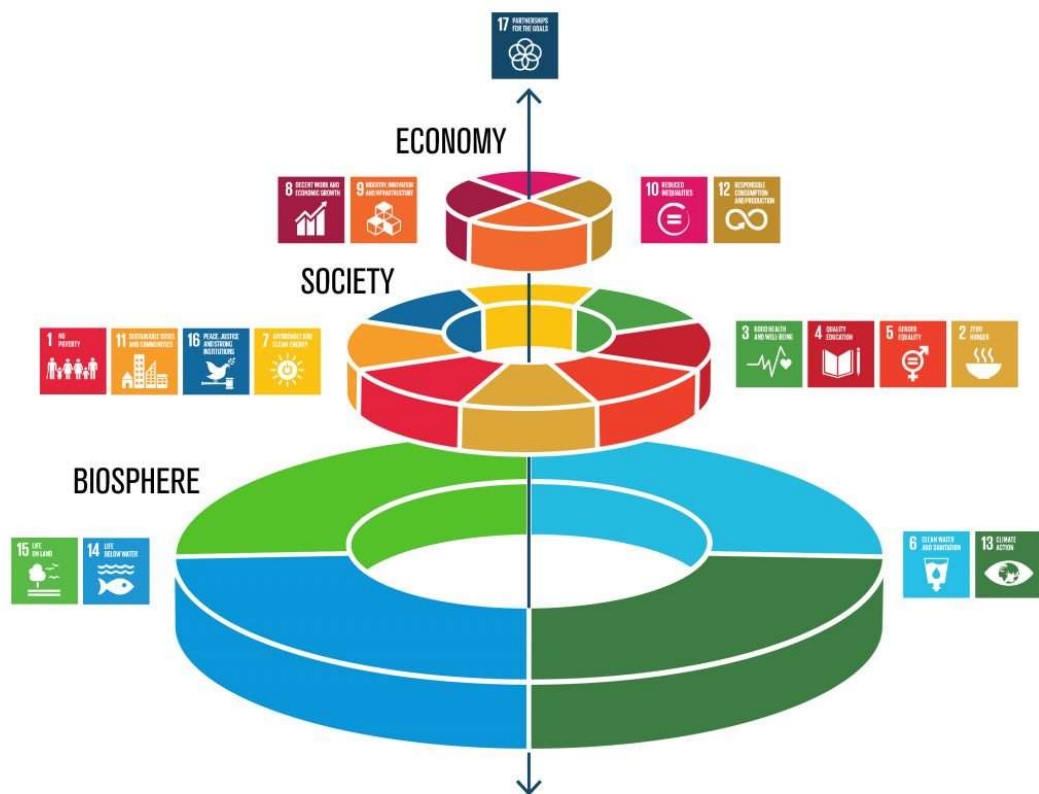
SUSTAINABLE DEVELOPMENT GOALS



AUGMENT CITY

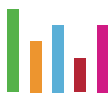


The Three Dimensions



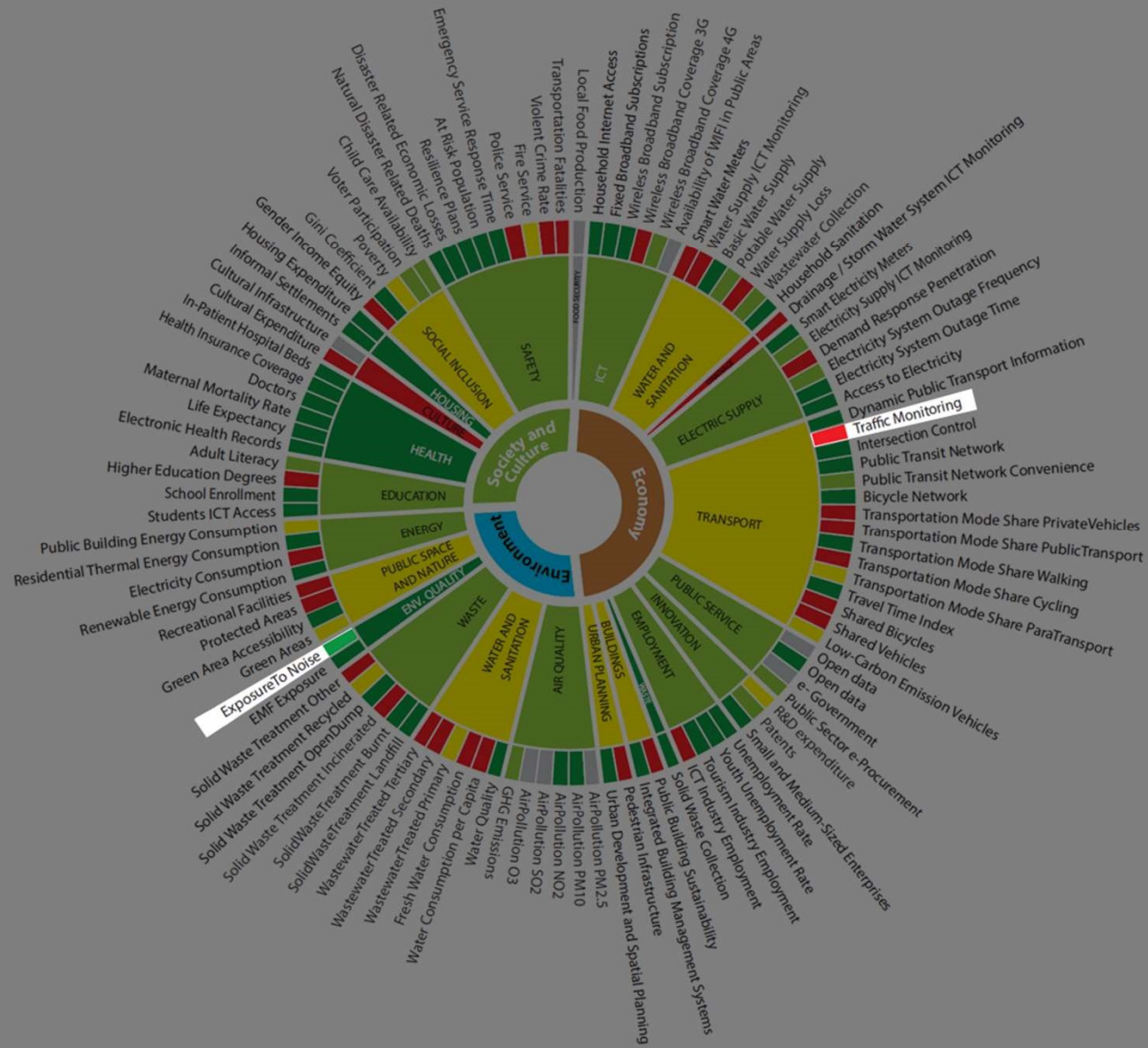
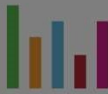
- Economic
- Society
- Environment

Graphics by Berken Lokantze/Reame



AUGMENT CITY





Ålesund Airport

102
dB

Ålesund

NOISE EXPOSURE

TRAFFIC

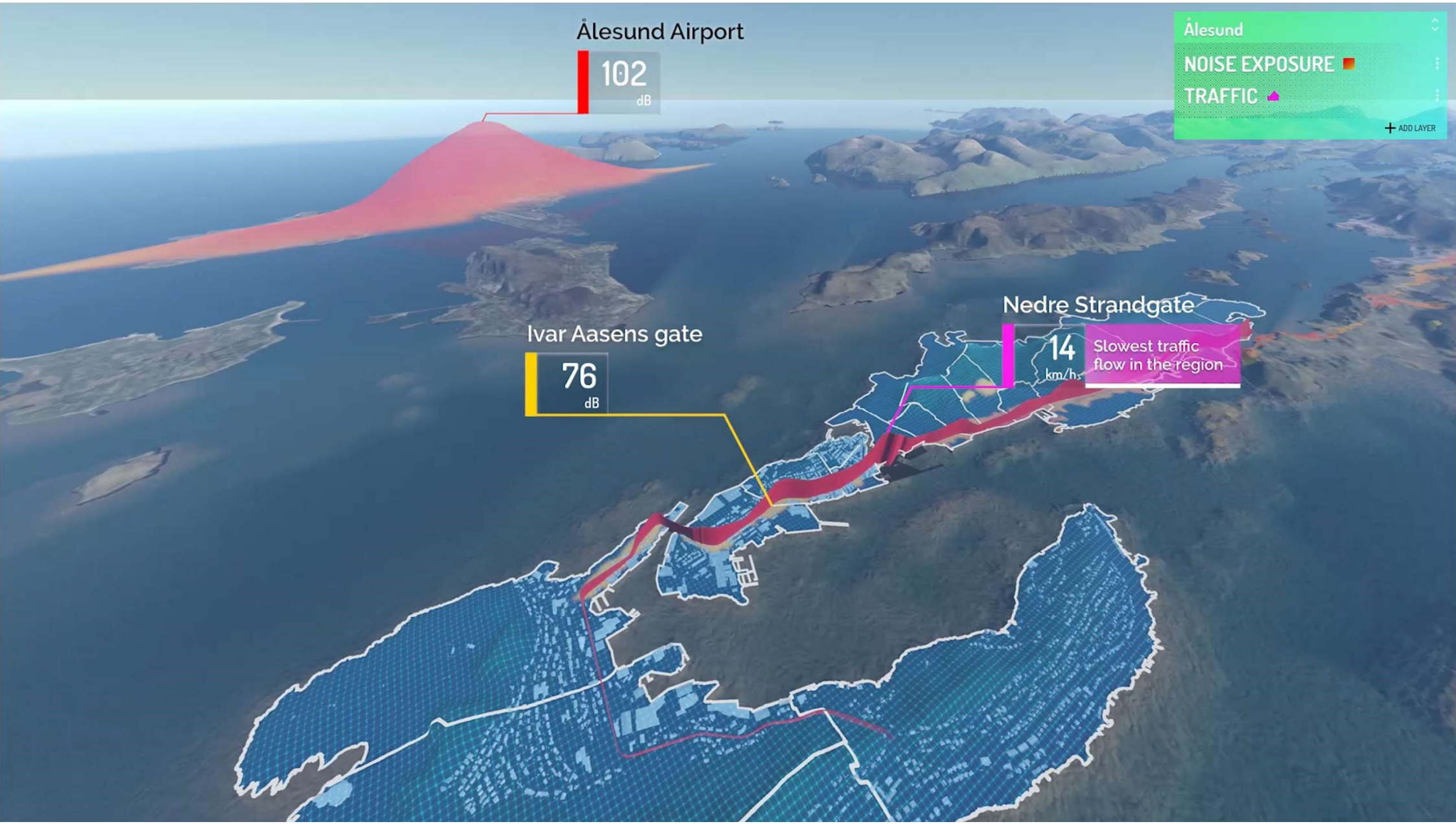
+ ADD LAYER

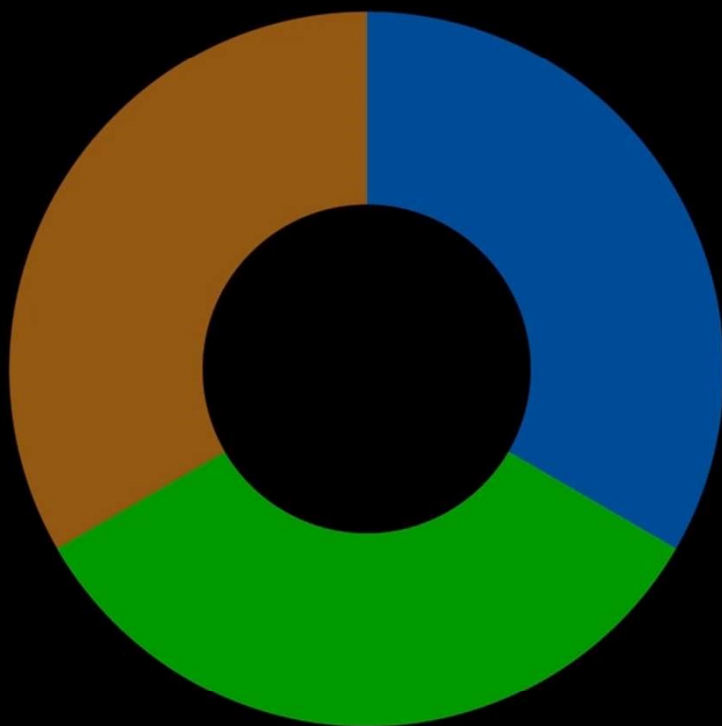
Ivar Aasens gate

76
dB

Nedre Strandgate

14
km/h
Slowest traffic
flow in the region





Case study

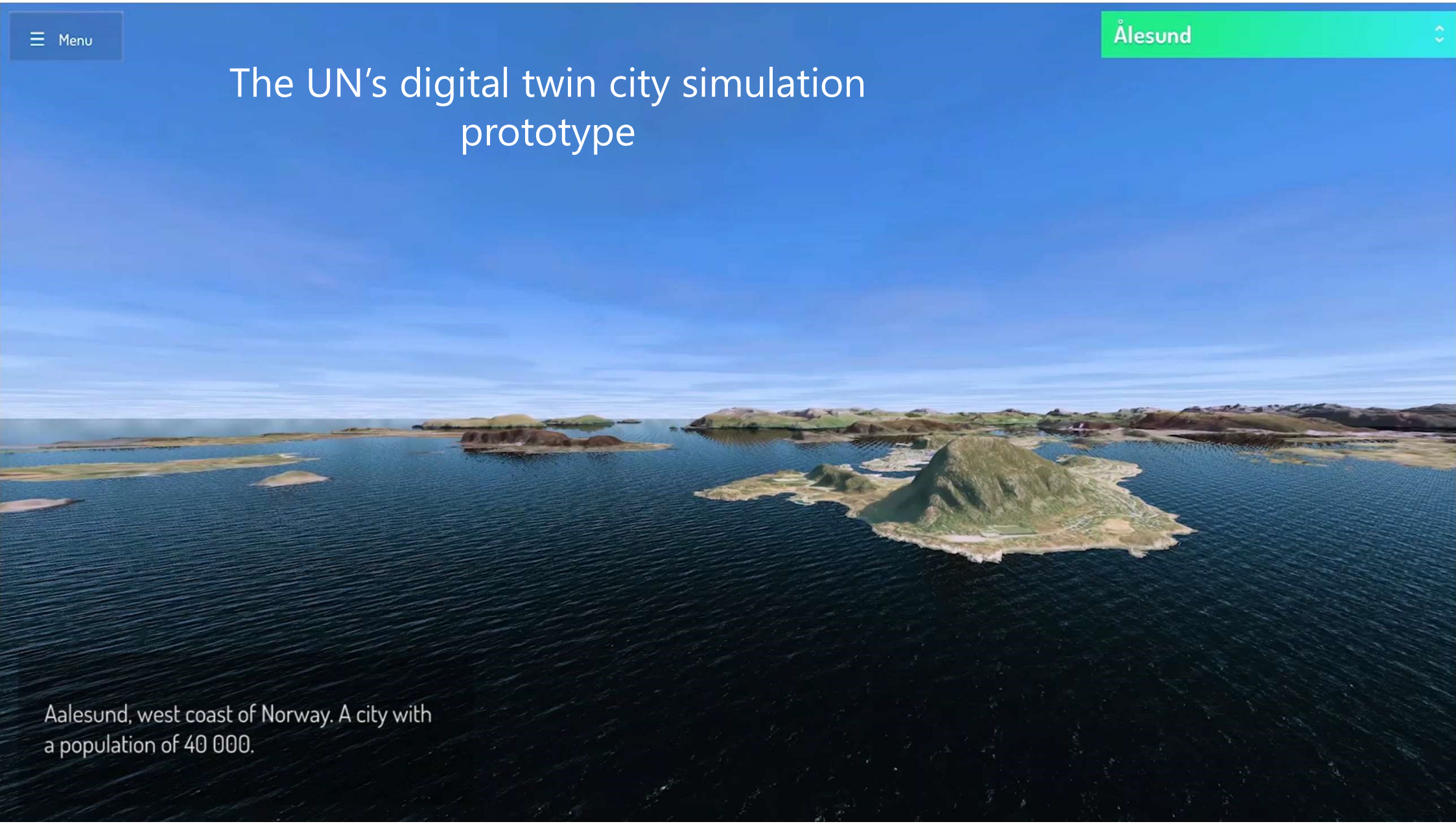


AUGMENT CITY



The UN's digital twin city simulation prototype

Ålesund, west coast of Norway. A city with a population of 40 000.



Menu

Ålesund

EMERGENCY
RESPONSE TIME



TRAFFIC

+ ADD LAYER

Fire station

110

TIME LAPSE 24H
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DETAILS

PAUSE

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.

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 ⌵

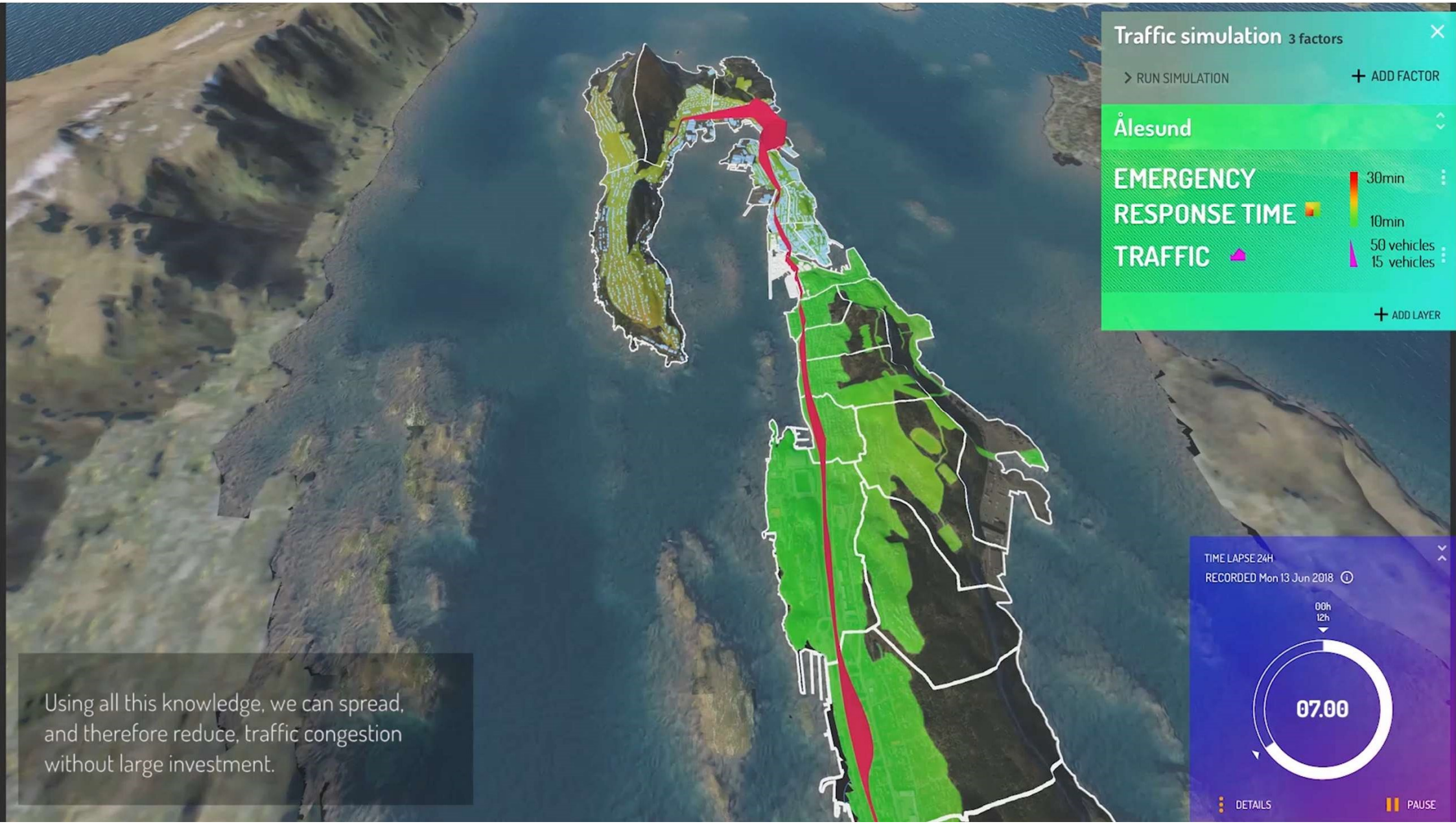
ADD LAYER ✕

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 through rush hour traffic.



Traffic simulation 3 factors ✕

> RUN SIMULATION + ADD FACTOR

Ålesund ⌵

EMERGENCY RESPONSE TIME 📊

TRAFFIC 📊

30min
10min
50 vehicles
15 vehicles

+ ADD LAYER

TIME LAPSE 24H ⌵

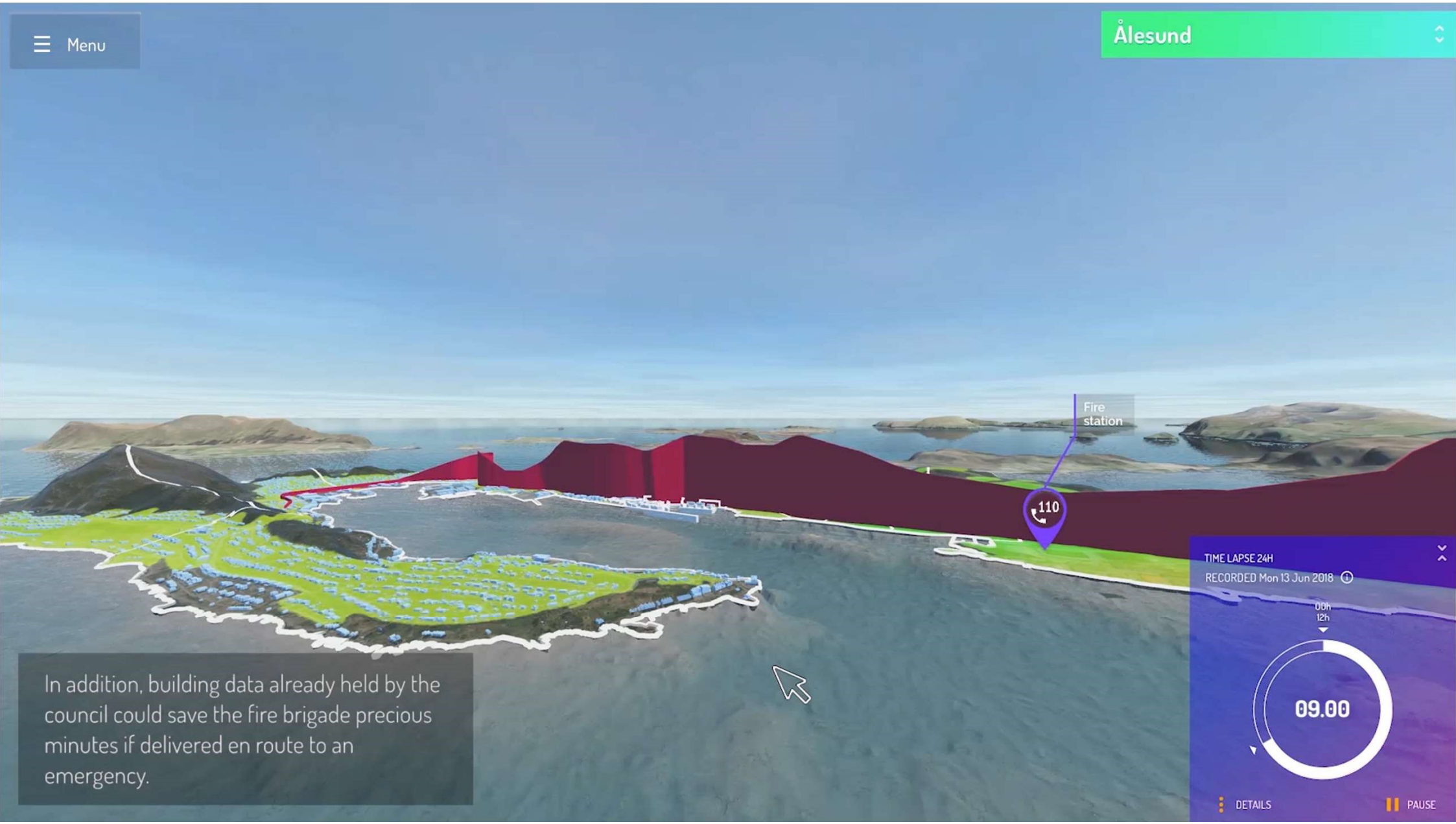
RECORDED Mon 13 Jun 2018 🕒

00h
12h
⌵

07.00

⋮ DETAILS ⏸ PAUSE

Using all this knowledge, we can spread, and therefore reduce, traffic congestion without large investment.



In addition, building data already held by the council could save the fire brigade precious minutes if delivered en route to an emergency.

TIME LAPSE 24H
RECORDED Mon 13 Jun 2018

00h
12h

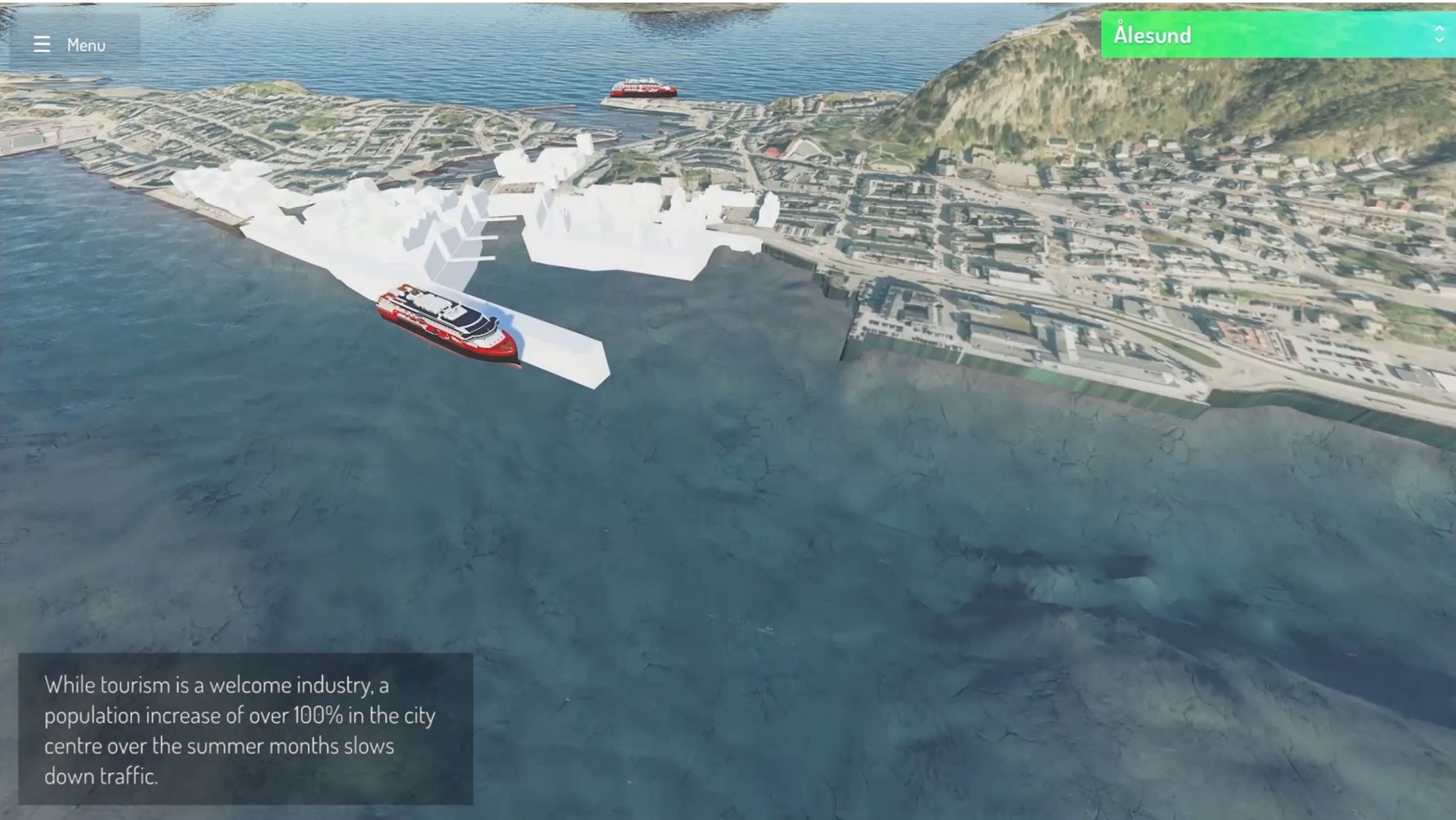
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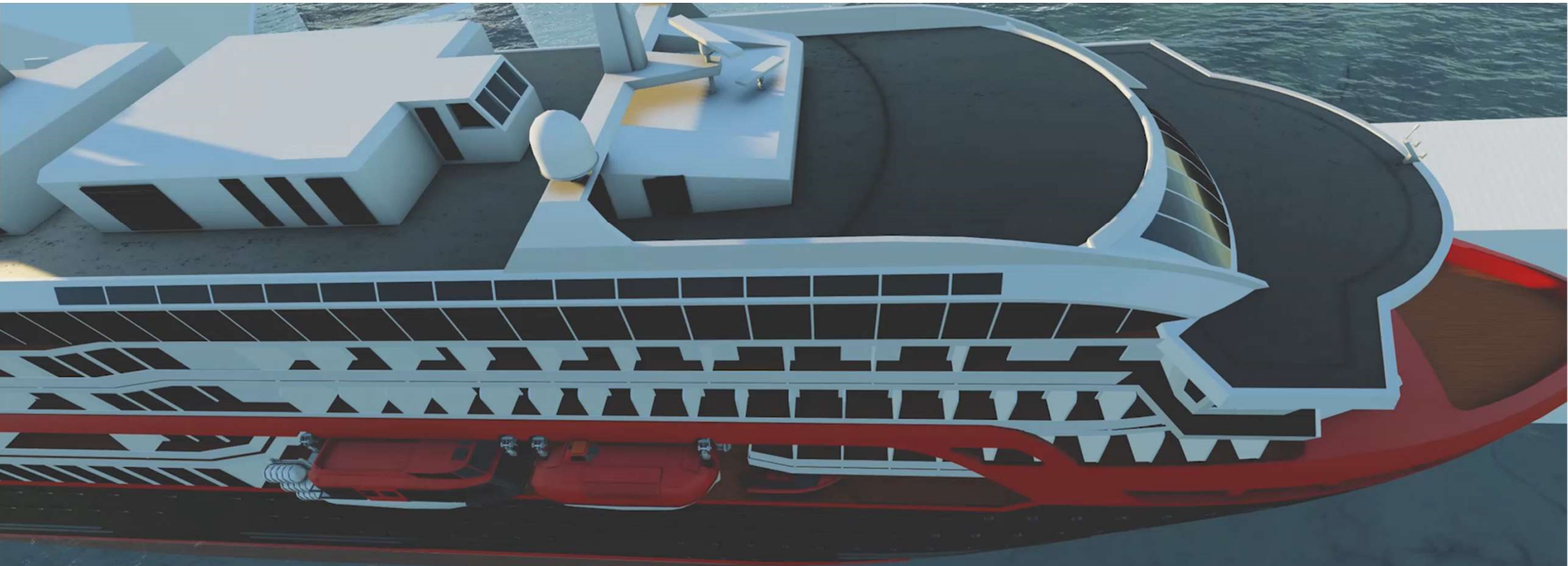
DETAILS PAUSE

☰ 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.

★ ..BREAKING NEWS ★ Augment City will be the Global simulation partner for U4SSC UN programme



AUGMENT CITY



UNECE

UN HABITAT
FOR A BETTER URBAN FUTURE



Convention on
Biological Diversity



ECLAC



Empowered lives.
Resilient nations.



United Nations
Economic Commission for Africa



United Nations
Educational, Scientific and
Cultural Organization



United Nations
Environment Programme



United Nations
Framework Convention on
Climate Change



UNITED NATIONS
UNIVERSITY
UNU-EGOV



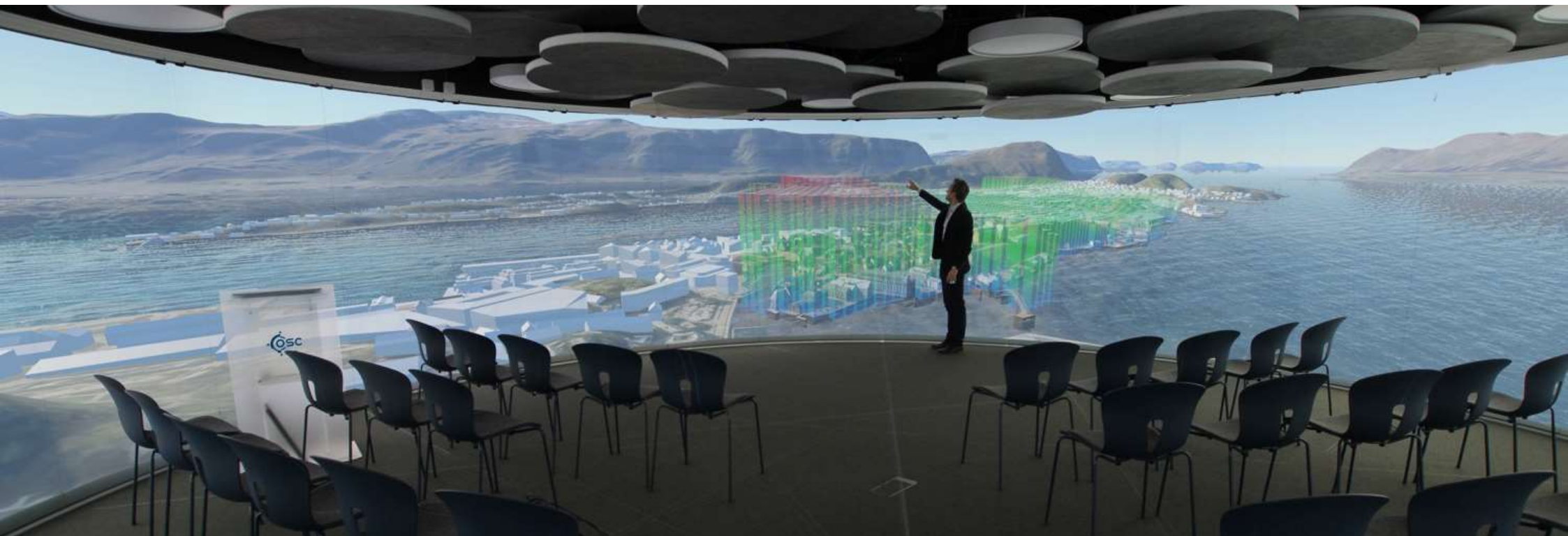
WORLD
METEOROLOGICAL
ORGANIZATION



AUGMENT CITY



The future tool for smart visualisation and simulation



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