

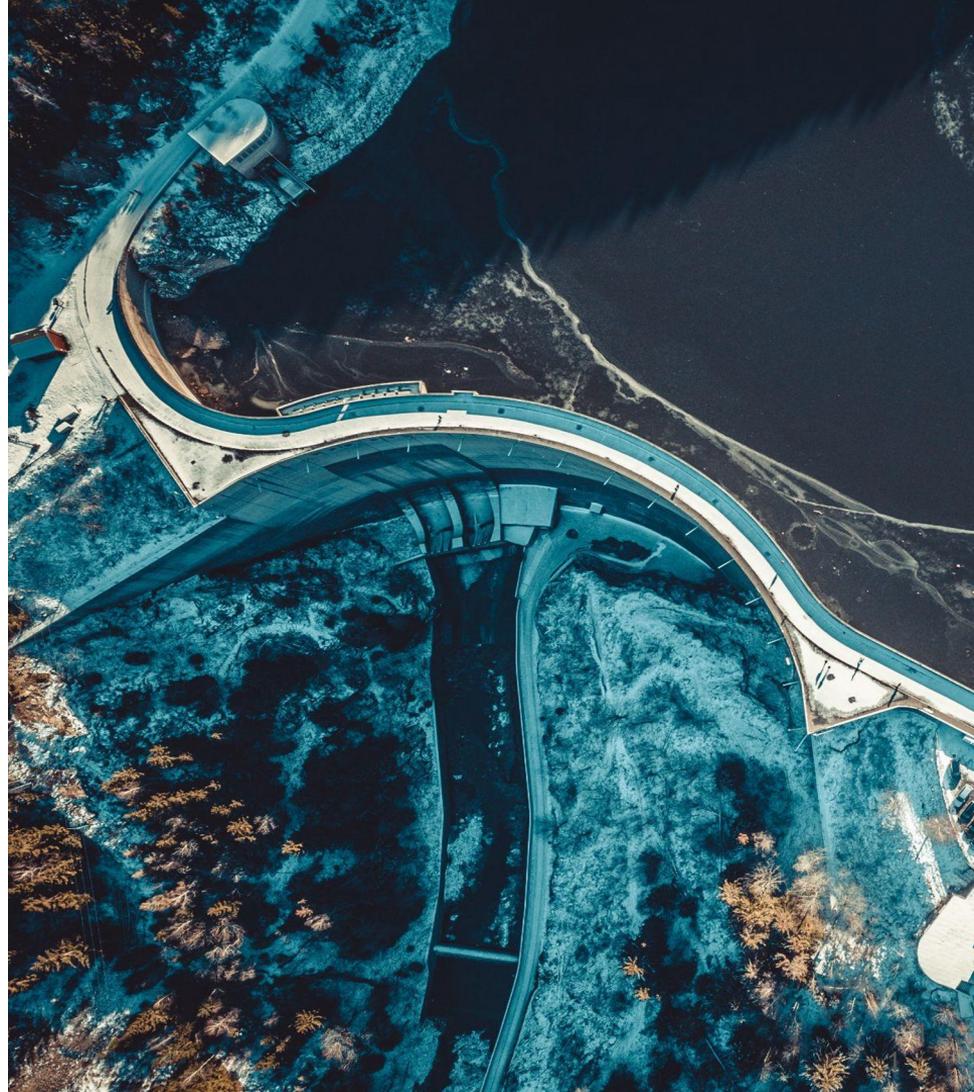


GaiaHub

**We make cities  
smart & climate  
neutral**



[www.gaiahub.earth](http://www.gaiahub.earth)



# GaiaHub Team: from research to startup



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*Chief Legal  
Officer*



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Yahia**

*Chief Science  
Officer*



# Our mission

# 70%

of global **GHGs** are produced by cities, and **1/3** of that is from **transport**.

# 55%

**EU target** of net reduction in greenhouse gases generated by traffic by **2030**.



How are we going to  
**reach that target in 6 years?**



Through **real-time data**,  
automated **reporting**,  
and **data-driven actions**.



Overview

Projects

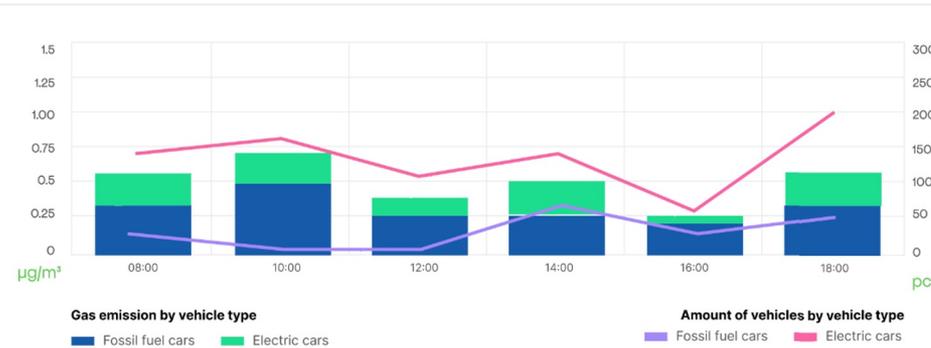
Riiamae

Places

Setup

## Simulated scenario

CO2 emission prediction 21.03.2023 08:00-18:00



Dominant Pollutant - PM<sub>10</sub>



23 dB

Average urban daily noise

**Average daily fossil fuel cars usage change since start of project**

-23.2% ▲ Goal: -40.00%

You are on track! Continuing with this rate, you will reach your goal 17.05.2023

### Details

08:00-10:00

Electric cars	50	22%
Fossil fuel cars	175	78%
Sum	225	100%

contribution

0.12 µg/m³  
1.00 µg/m³

Show these vehicles

- Buses
- Delivery trucks
- Manual bikes and scooters
- Electric bikes and scooters

Choose date and time

Dates  
21.03.2023 - 21.03.2023

Time  
08:00 - 9:30

Estimated number of people

690

### Cars

400

Electric cars	12
Fossil fuel cars	364
Unknown	24

### Bikes

72

### Small electric vehicles

75

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**Traffic radars** (speed, travel time, number of vehicles, etc)



**Urban noise sensors**



**Smart-edge Cameras** (vehicle type classification)



**Environmental sensors** (temperature, humidity, wind, pressure, GhGs, etc)

**GaiaHub** takes this data and combines it into knowledge in the following areas:

- **air quality** monitoring and prediction,
- **urban noise** monitoring and prediction,
- **congestion** monitoring and prediction,
- intelligent **vehicle counting** and classification.





## All-in-one dashboard

Near-real-time insights

Data fusion

Advanced ML algorithms

**Reporting tools**

**Simulation tools**

- ✓ GDPR compliant
- ✓ Secure and reliable
- ✓ Simple and intuitive UI
- ✓ Tested on non-tech professionals



Overview

Projects

Places

Setup

Projects

Zones

Sensors

Team

Welcome to GaiaHub!

In order to help you set up the app, we're going to ask you a series of questions.

Get started



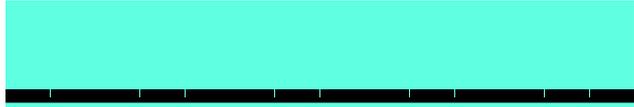
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How do we deliver **GaiaHub platform?**



# We sign a letter of intent with



City/company  
representative in charge of  
creating urban mobility  
policy



# We sign a letter of intent with **Port of Tallinn**

City/company  
representative in charge of  
creating urban mobility  
policy



# We sign a letter of intent with **Port of Tallinn** and define project goals.

City/company  
representative in charge of  
creating urban mobility  
policy



Reporting to EU and UN to comply with  
sustainability reporting requirements

Monitoring traffic hotspots

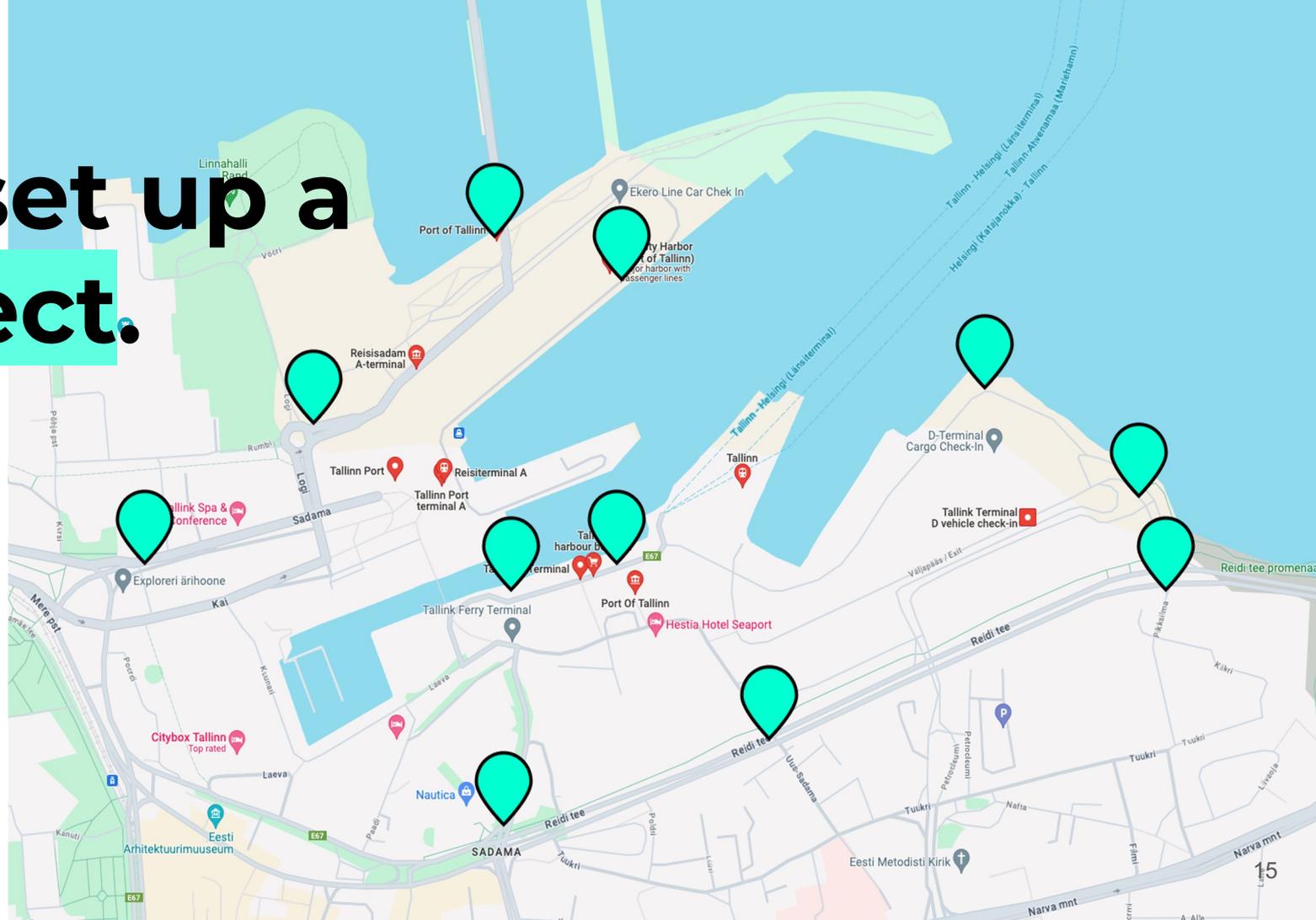
Investigating public transport routes

Testing policy success

# We set up a project.



# We set up a project.





# What can [your city/company ] gain from GaiaHub?

**Calculate GHG emissions** on the spot and **predict the emissions**

**Generate and schedule** reports to be sent to officials and to be suitable for EU-level, country level or company strategy **reporting**

**Provide data** to **estimate health effects** of urban air quality and noise on premises

**Simulate** possible **scenarios in vehicle traffic**

**Provide data proof** about **carbon neutrality plan progress**

**Build other solutions** on top of our data/API



# Products portfolio

## GaiaHub AIR

- Measure
- Predict
- Simulate

**Air quality**, incl. GHGs, particles; projected change and simulations

## GaiaHub TRAFFIC

**Aggregate traffic data**, incl intelligent vehicle counting

**Redirect traffic** through smart traffic lights based on predictions

**Simulation playground** for traffic situations

## GaiaHub REPORTS

- **Compliant** with European climate reporting standards
- Generate and schedule **automatic email reports** for officials
- Also suitable for companies under [ESG standards](#)





# Make your city smart and climate neutral

**GaiaHub** is an **ecosystem** of intelligent **reporting and simulation products** offering insight into **urban traffic's impact on the climate**.



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