Helsinki

Ai4Cities
10.2.2021
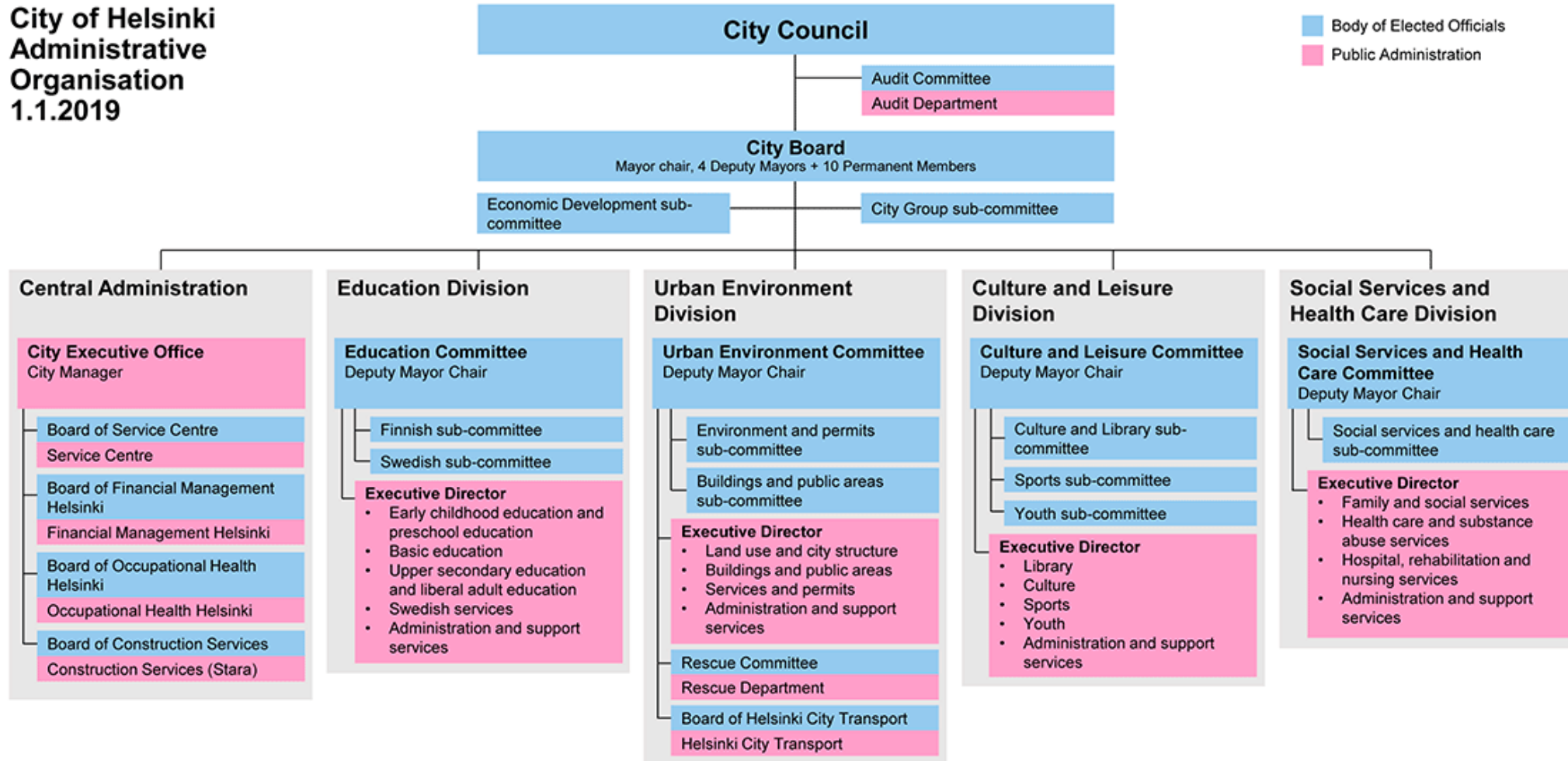
Pasi Rautio
Data, AI, Robotics
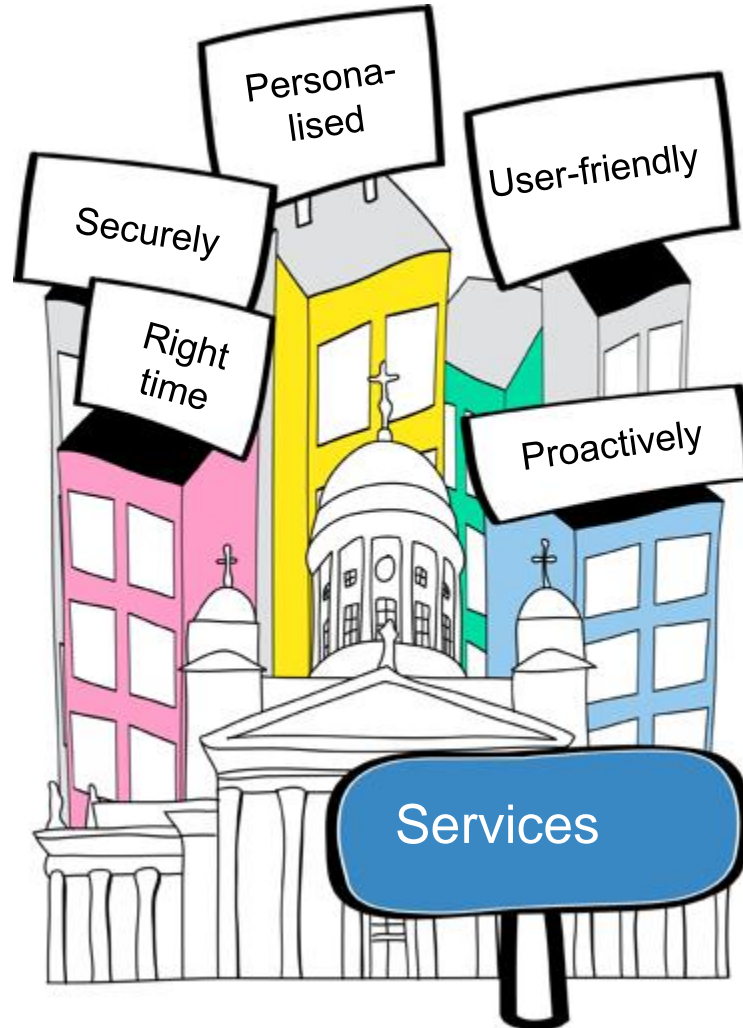
Helsinki

City of Helsinki digitalization

- Helsinki strives for being the most functioning city in the world. To achieve this goal we need to make the best use of digital technologies.

- Helsinki operates based on openness and transparency.

- Helsinki focuses on utilizing digitalization, robotization and AI.

Helsinki

38 000 people at your service

City of Helsinki Administrative Organisation 1.1.2019

Body of Elected Officials
Public Administration

City Council

Audit Committee
Audit Department

City Board
Mayor chair, 4 Deputy Mayors + 10 Permanent Members

Economic Development sub-committee

City Group sub-committee

Central Administration

City Executive Office
City Manager

Board of Service Centre
Service Centre

Board of Financial Management Helsinki
Financial Management Helsinki

Board of Occupational Health Helsinki
Occupational Health Helsinki

Board of Construction Services
Construction Services (Stara)

Education Division

Education Committee
Deputy Mayor Chair

Finnish sub-committee

Swedish sub-committee

Executive Director
- Early childhood education and preschool education
- Basic education
- Upper secondary education and liberal adult education
- Swedish services
- Administration and support services

Urban Environment Division

Urban Environment Committee
Deputy Mayor Chair

Environment and permits sub-committee

Buildings and public areas sub-committee

Executive Director
- Land use and city structure
- Buildings and public areas
- Services and permits
- Administration and support services

Rescue Committee
Rescue Department

Board of Helsinki City Transport
Helsinki City Transport

Culture and Leisure Division

Culture and Leisure Committee
Deputy Mayor Chair

Culture and Library sub-committee

Sports sub-committee

Youth sub-committee

Executive Director
- Library
- Culture
- Sports
- Youth
- Administration and support services

Social Services and Health Care Division

Social Services and Health Care Committee
Deputy Mayor Chair

Social services and health care sub-committee

Executive Director
- Family and social services
- Health care and substance abuse services
- Hospital, rehabilitation and nursing services
- Administration and support services

Helsinki

10.2.2021

3

The Most Functional City in the World that Makes the Best Use of Digitalisation

Data Strategy for Helsinki

Helsinki

https://digi.hel.fi/english/

https://digi.hel.fi/english/helsinki-city-data-strategy/

Data vision:

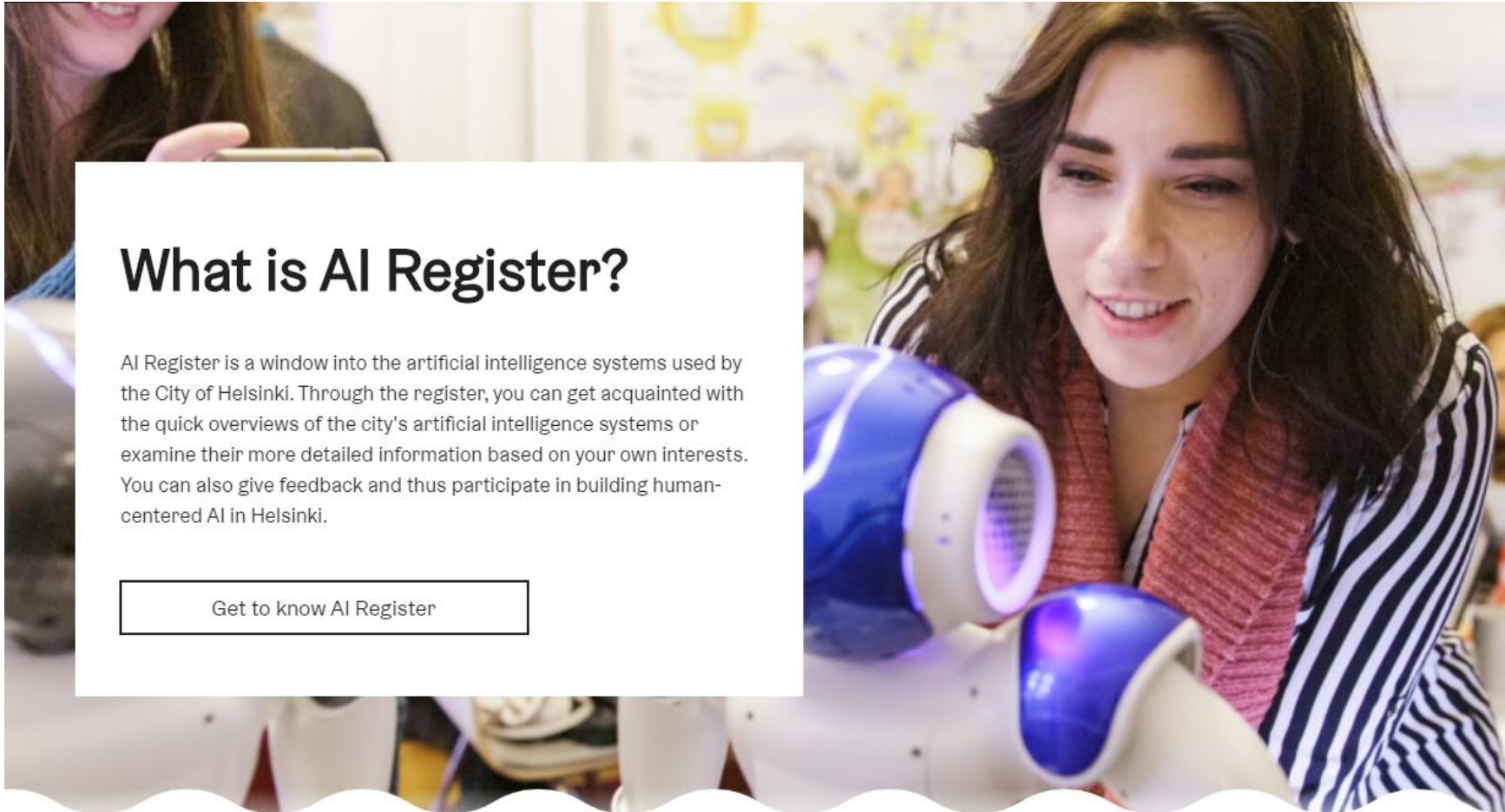# Helsinki's data is the most usable and used urban data by 2025

Helsinki

Four objectives

1. Proactive and personalised services at people's terms
2. Data-driven decision-making
3. Optimising city's operations
4. Fostering business ecosystem

AI in cities depends on the trust of citizens

AI Register

What is AI Register?

AI Register is a window into the artificial intelligence systems used by the City of Helsinki. Through the register, you can get acquainted with the quick overviews of the city's artificial intelligence systems or examine their more detailed information based on your own interests. You can also give feedback and thus participate in building human-centered AI in Helsinki.

Get to know AI Register

Helsinki

https://ai.hel.fi/en/ai-register/

Artificial intelligence systems of Helsinki

Learn about the use cases where we currently utilise artificial intelligence as part of our city services.
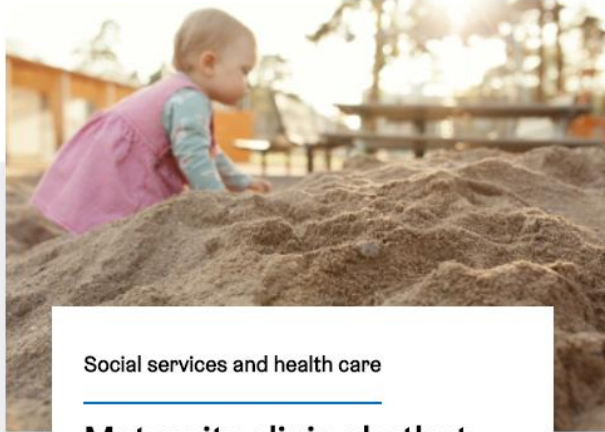
Social services and health care

Maternity clinic chatbot NeRo

The chatbot answers the clients of the Helsinki counselling centres' questions without queuing at all times of the day. In addition to problems related to the child's growth or development and pregnancy, the customers can also ask questions about dental care, speech development, and...

> Read more

Housing and environment

Parking chatbot

The parking chatbot is a customer service channel of city's parking services. Service provides automated answers to the parking-related questions of city residents and visitors. The service is available at the city parking website of Helsinki. The service aims to improve the availability...

> Read more

Social services and health care

Health center chatbot

The chatbot provides health and illness-related advice easily without queuing. Chatbot directs the users to the right digital health services and advises on questions related to dental, mental health, substance abuse and social services. The service answers the most frequently asked...

> Read more

Helsinki 3D
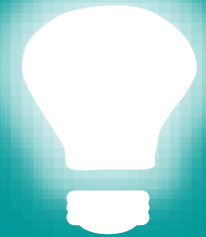
Digital twin of the city

Reality Mesh

Semantic CityGML
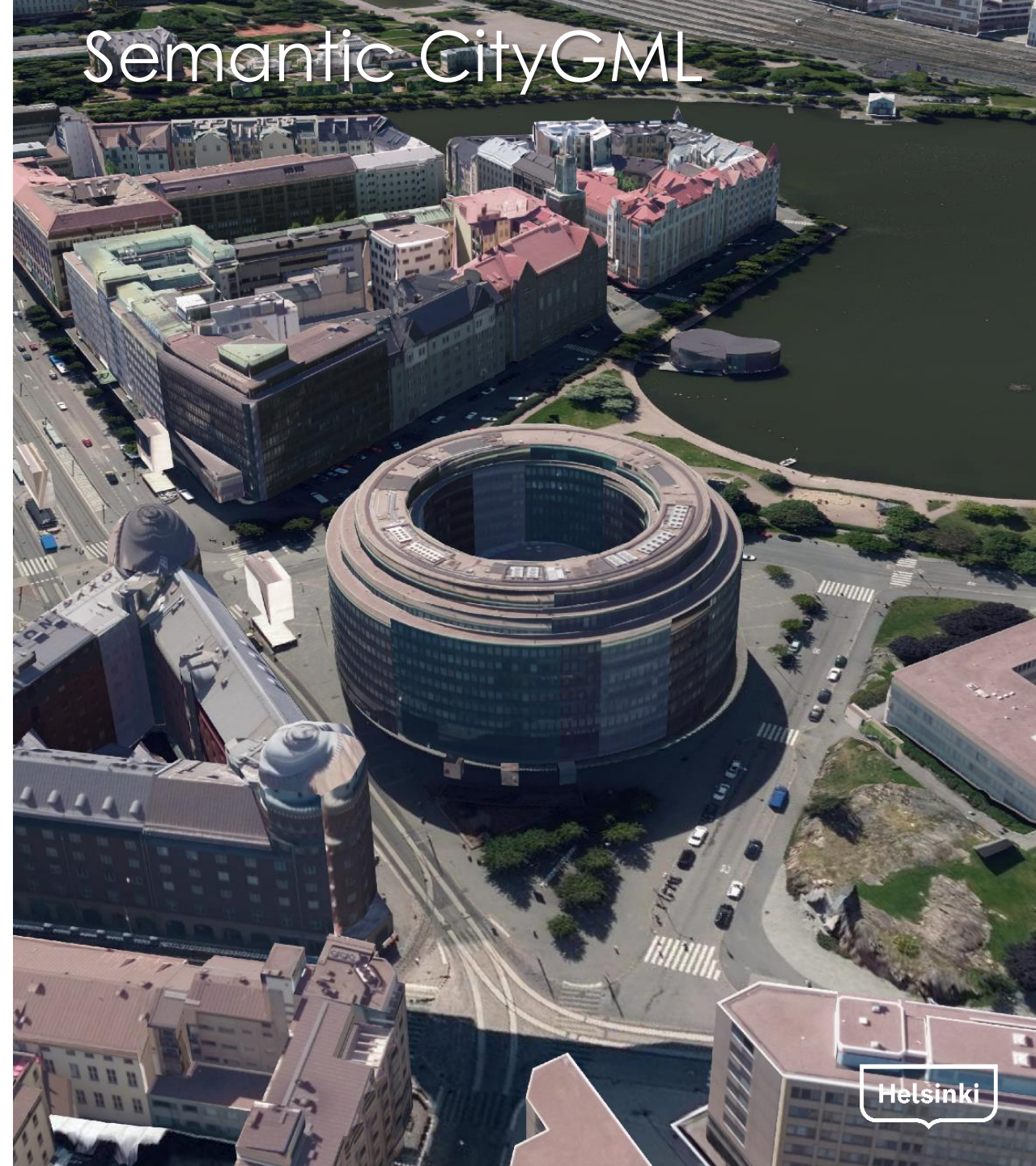
Helsinki

OPEN DATA UTILIZATION

Development
Solutions
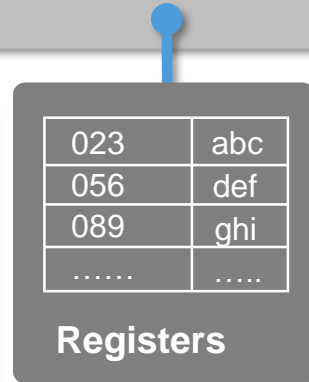Analytics

3D CITY MODELS
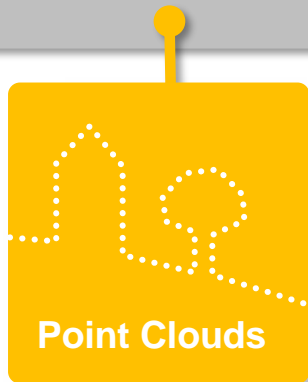
REALITY MODEL

CityGML MODEL

TECHNOLOGY LAYER

DATA

Helsinki

Point Clouds

Oblique Images

GIS Databases

023	abc
056	def
089	ghi
......	.....

Registers

IFC / InfraModel

New Geodata
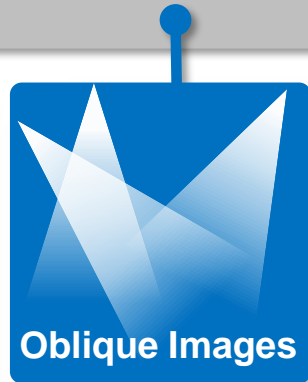
The Kalasatama Digital Twins Project

hel.fi/3D

Radiation per month

— global
— diffuse
— direct

Radiation [kWh]

Month
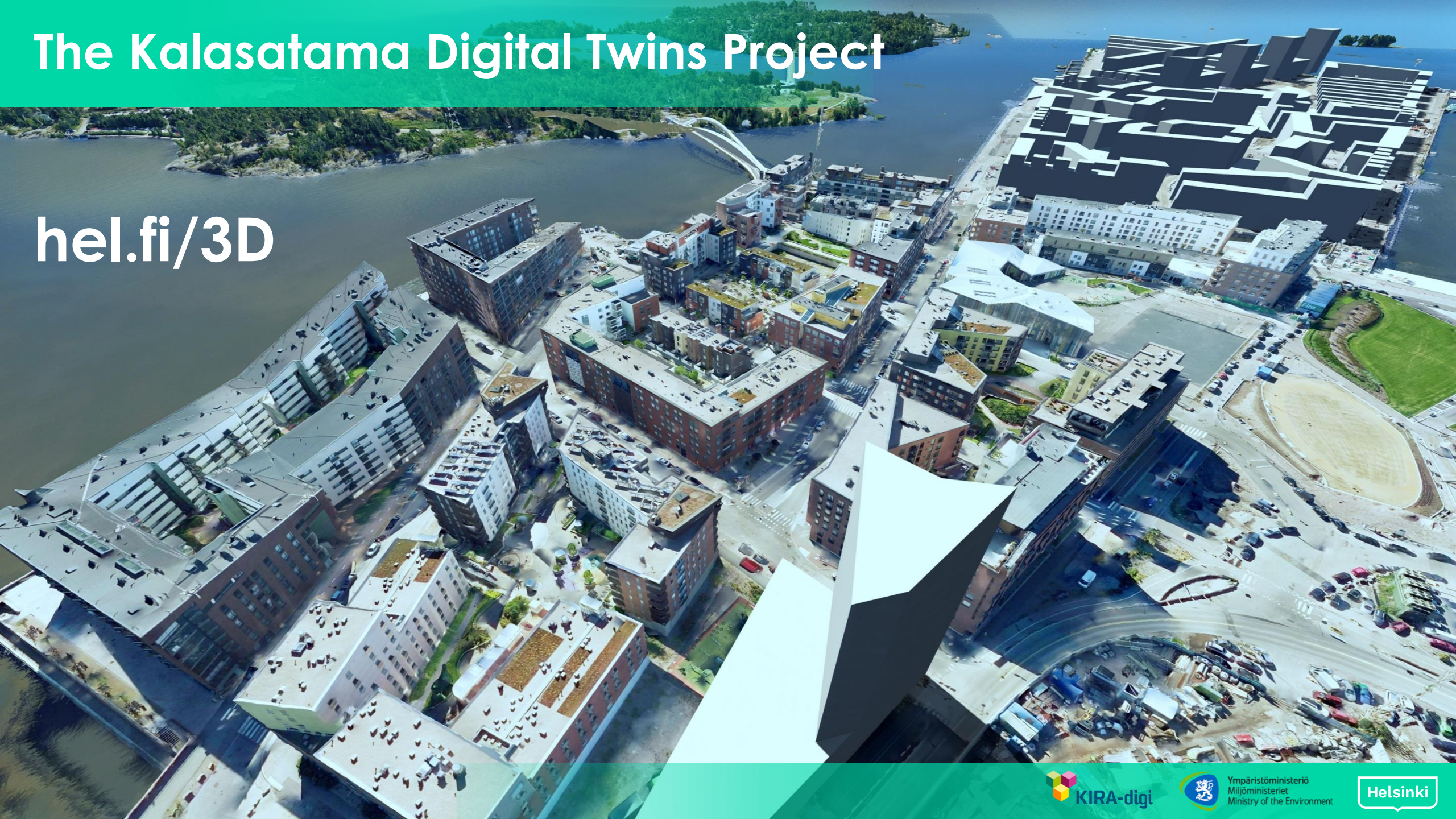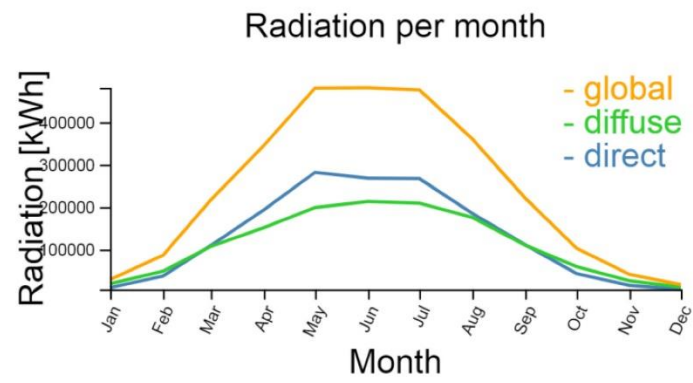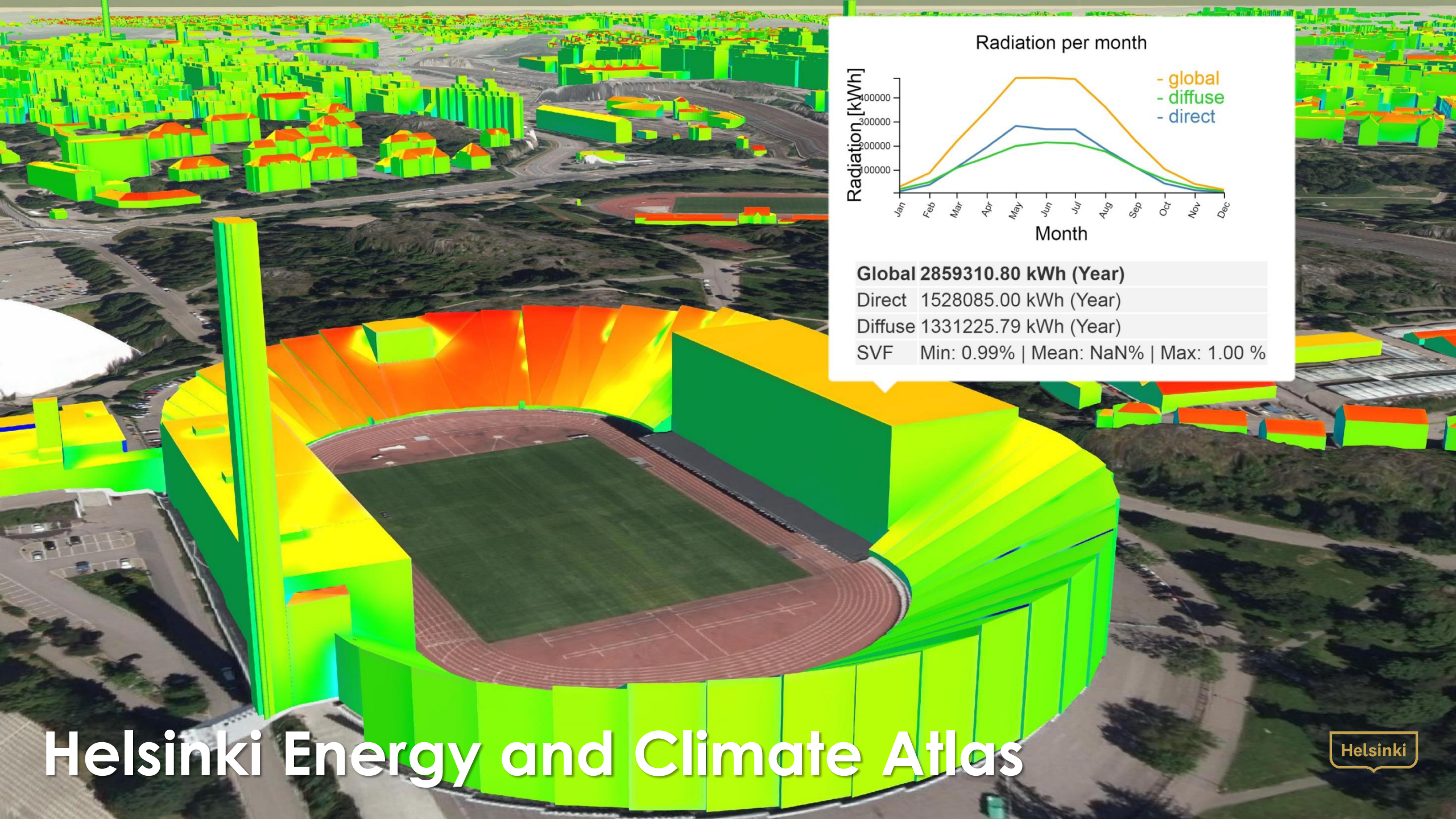
Global	2859310.80 kWh (Year)
Direct	1528085.00 kWh (Year)
Diffuse	1331225.79 kWh (Year)
SVF	Min: 0.99% | Mean: NaN% | Max: 1.00 %

Helsinki Energy and Climate Atlas

Helsinki

Helsinki 3D — Digital twin of the city

- **Youtube:** https://www.youtube.com/channel/UCC5zVtGUdLXRI354lghLLqg
- **Web site:** https://www.hel.fi/helsinki/en/administration/information/general/3d

- **Carbon neutral Helsinki 2035:** https://www.hel.fi/helsinki/en/housing/environmental/programmes/climate-action/

Helsinki

Open Data

- https://hri.fi/en_gb/

Thank you!

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Data and Analytics
City of Helsinki

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Helsinki