

# Oskari for Admins and Purchasers



# Oskari administrative functions

- Managing map layers
- User management
- User roles and rights on different roles
- Default view
- Monitor the availability of map layers
- Administering embedded maps
- Announcements



# Maintenance of map layers

## Alternatives:

1. Import the layers via an API (admin)
2. Import the layers from files (a logged in user)
3. Create own features (a logged in user)

## The maintenance of map layers:

- Add or edit the information of map layers (see right)
- Visualisation
- Filtering of attribute table
- JSON
- Rights

## User rights

- view / publish
- roles / user account

### Map Layers

Layer	Count	Action		
Energy resources	2			
Environmental monitoring facilities	21			
Geographical grid systems	3			
Geographical names	20			
Geology	40			
Guide maps	25			
Habitats and biotopes	24			
Human health and safety	79			
Hydrography	45			
Land cover	426			
Land use	242			
My Map Layers	6			
Natural risk zones	22			
Flood hazard zones Catchment basin 1/2a	1			
Flood hazard zones Catchment basin 1/5a	1			
Flood hazard zones Catchment basin 1/10a	1			
Flood hazard zones Catchment basin 1/20a	1			
Flood hazard zones Catchment basin 1/50a	1			
Flood hazard zones Catchment basin 1/100a	1			
Flood hazard zones Catchment basin 1/250a	1			

### Layer administration

General Visualization Additional JSON Permissions

Interface URL (WMS)   
https:// paikkatiedot.ymparisto.fi/geoserver/syke\_pintavesienekol

Username and password

Interface version 1.1.1 1.3.0

Supported SRS EPSG:3067 Missing SRS EPSG:3857

Forced SRS

Unique name jarvet\_ekologinen\_tila\_2010

Name in Finnish Järven ekologinen tila 2010

Description in Finnish

Other languages

Dataprovider Finnish Environment institute

Maplayer groups

Select groups

Save Delete Add a new layer from same service Close

# Visualization

## The maintenance of map layers:

- Add or edit the information of map layers (see right)
- Visualisation
- Filtering of attribute table
- JSON
- Rights

## User rights

- view / publish
- roles / user account

Layer administration ×

General **Visualization** Additional JSON Permissions ★

Opacity Scale  
 100 % 1:1

Show map layer coverage on the map

Point distance in cluster

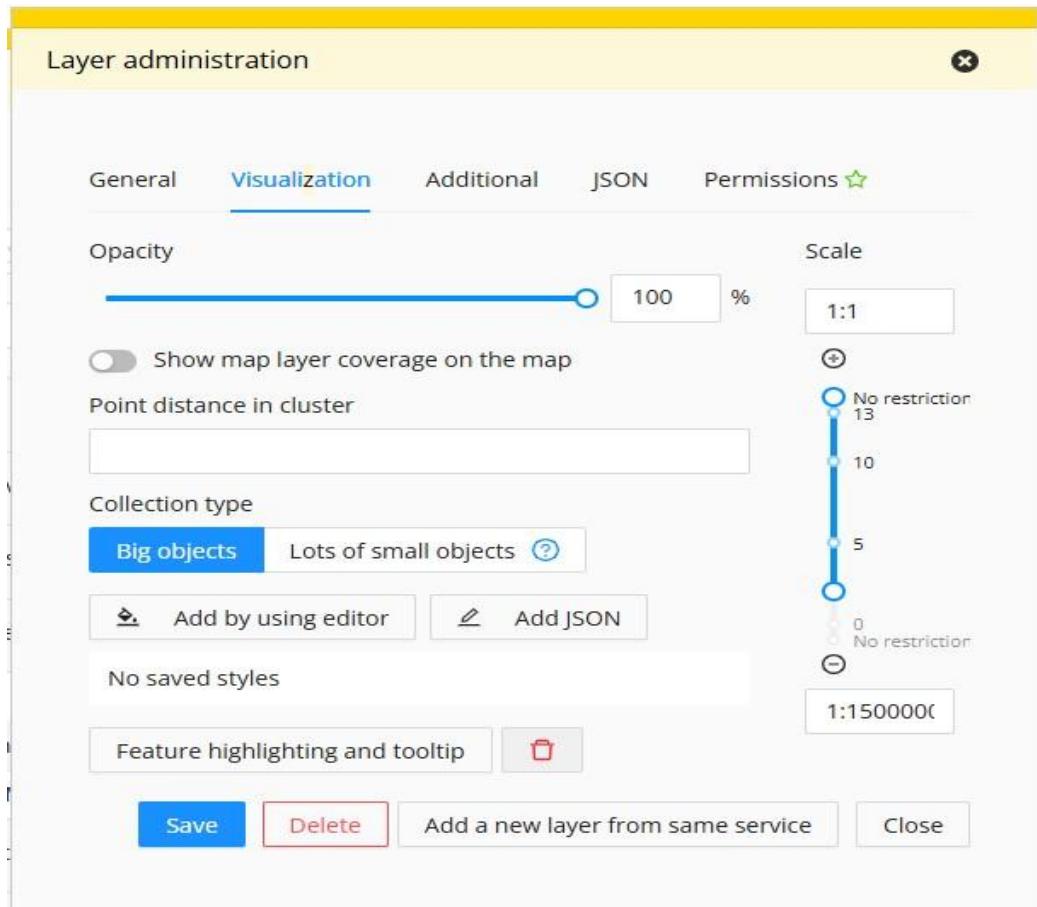
Collection type  
Big objects Lots of small objects ?

+ Add by using editor - Add JSON

No saved styles

Feature highlighting and tooltip -

Save Delete Add a new layer from same service Close



# Additional

## The maintenance of map layers:

- Add or edit the information of map layers (see right)
- Visualisation
- **Filtering of attribute table**
- JSON
- Rights

## User rights

- view / publish
- roles / user account

Layer administration ×

General Visualization Additional JSON Permissions ★

Layers unique identifier 3808  
This layer was created on 1/25/2023 12:20:40 PM  
This layer was last edited on 12/19/2023 01:11:15 PM

Capabilities update rate ?   [Show GetCapabilities response](#) ↗

Metadata file identifier ?   File identifier defined in the service: not available

Replaced file identifier ? 9ed32570-959b-42b4-b250-bb30a18318a0

Geometry type ? Unknown

Using properties of features

Feature filter  

Presentation ? Select properties Labeling Formatting

Use feature property as identifier ?  

Save Delete Add a new layer from same service Close

# JSON

## The maintenance of map layers:

- Add or edit the information of map layers (see right)
- Visualisation
- Filtering of attribute table
- **JSON**
- Rights

## User rights

- view / publish
- roles / user account

Layer administration ×

General Visualization Additional **JSON** Permissions ★

These tools enable advanced configuration, use with caution.

> Attributes +

< Capabilities parsed for layer

```
"gpkg",
"json",
"text/csv",
"text/xml; subtype=gml/2.1.2",
"text/xml; subtype=gml/3.1.1",
"text/xml; subtype=gml/3.2"
],
"srs": [
    "EPSG:3067"
],
"bbox": {
    "wkt": "POLYGON ((15.053785270822841
58.6074565294299, 15.053785270822841 70.26415662234614,
33.993537468175056 70.26415662234614,
33.993537468175056 58.6074565294299, 15.053785270822841
58.6074565294299))",
    "x": 15.053785270822841,
    "y": 58.6074565294299
}
```

> Options +

> Params +

Save Delete Add a new layer from same service Close



# Layer rights

## The maintenance of map layers:

- Add or edit the information of map layers (see right)
- Visualisation
- Filtering of attribute table
- JSON
- **Rights**

## User rights

- view / publish
- roles / user account

Layer administration

General Visualization Additional JSON Permissions

Role				
Administrator	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Guest	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Power User	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
User	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Karttakäyttäjät	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Karttajulkaisija_Demo	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Karttajulkaisija_Espoo	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Karttajulkaisija(GTK)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

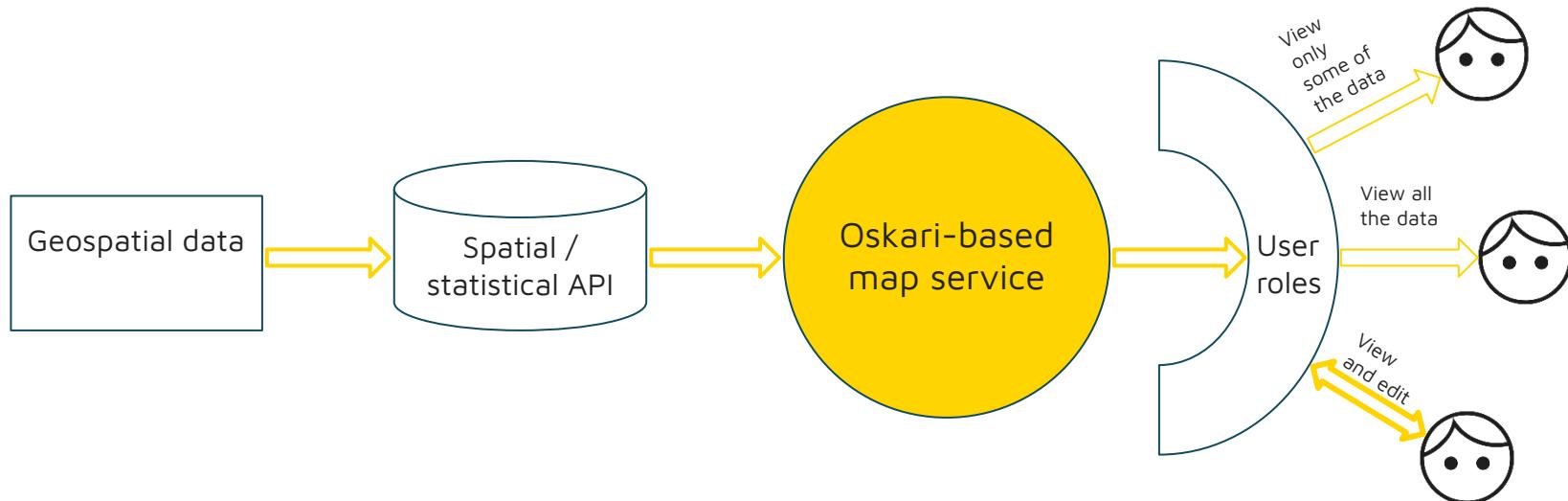
**Save** **Delete** **Add a new layer from same service** **Close**

# Embedded maps administration

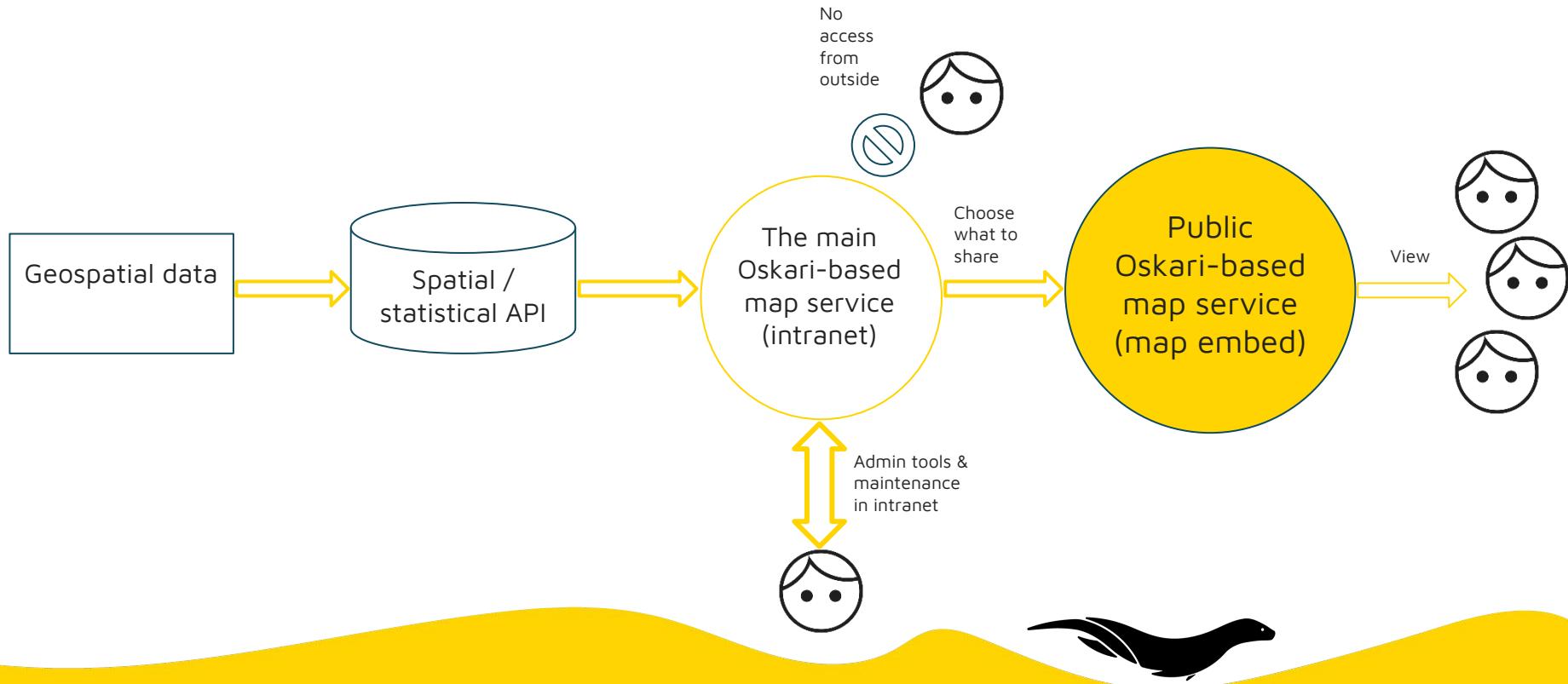
- User access limited to published maps
- Access restrictions by domain address if needed
- Access restricted by user name if needed
- Embedded maps may be extended by RPC Application



# Data flow in Oskari (simplified)



# Alternative data flow in Oskari (embedded map)



# Purchasing Oskari



# Purchasing Oskari

- What should one take into account when purchasing Oskari?
  - Before main points
- Main points of purchasing Oskari:
  - Consider what is the basic need: who and how the Oskari service will be used?
  - Recognise where you need expertise from elsewhere and what you can do internally
  - Is the basic Oskari package sufficient as is or does it need to be changed?
  - Are you buying a new instance or upgrading an old one: the things to consider are different
  - Plan who will maintain the service once the purchase is made: ensure continuity
  - Network and learn from others: Oskari users in your own or other organizations, end user



# Requirements for Oskari

Necessary:

- A server where Oskari is located
- Geospatial data that is available via an API

And if needed:

- A software (GeoServer, for example) that allows organisation to publish its own data via an API
- A database (PostgreSQL + PostGIS extensions, for example) if the organisation wants to allow user the end-users to import their own datasets to the map service



# Oskari development and continuity

- Oskari is developed together, NLS FI coordinates
- Developing follows the open source principles
  - Anyone can take part in developing
  - It is possible to do joint development between organizations
- The continuity of Oskari is secured by the continuity standards of NLS FI and the whole Oskari Joint Development Forum

The screenshot shows the GitHub organization profile for `Oskari.org`. The profile picture is a yellow seal logo. The repository count is 11 followers, located in Finland, with links to the website and LinkedIn group. Below the header, there are tabs for Overview, Repositories (15), Projects, Packages, and People (2). The 'Overview' tab is selected. Under the 'Pinned' section, six repositories are listed:

- `sample-application` (Public template) - Sample frontend for Oskari map application. (CSS, 5 stars, 22 forks)
- `oskari-frontend` (Public) - Frontend implementation for Oskari Map Application Framework. (JavaScript, 49 stars, 75 forks)
- `sample-server-extension` (Public template) - Site visible in `dev.oskari.org`. (Java, 4 stars, 12 forks)
- `oskari-server` (Public) - Backend implementation for Oskari Map Application Framework. (Java, 43 stars, 55 forks)
- `sample-configs` (Public) - Contains sample configurations for Oskari-related software. (Shell, 3 stars, 10 forks)
- `oskari-documentation` (Public) - Repository for versioned documentation. (1 star, 4 forks)

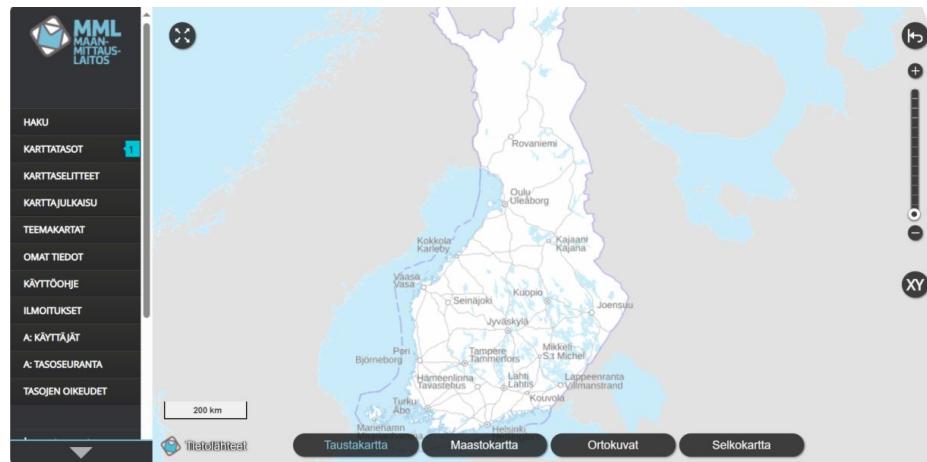
# The Oskari community

1. Oskari community is coordinated by **National Land Survey of Finland**
  - Product owner, technical coordinator
  - Communications coordinator as a consultant service
2. **Joint development forum**
  - 7 organisations (10/2025): NLS FI, Väylä, DVV, HSY, City of Tampere, City of Joensuu, Ubigu Ltd.
  - Meetings on a monthly basis: use cases, needs, co-operation possibilities, what's new
3. **Project steering committee** is responsible for the code
4. Development, consultation, training, support, maintenance
  - Different companies, no vendor lock-in
5. Oskari community
  - Organisations using Oskari: Lounaisinfo, Museovirasto, Ruokavirasto...
  - About 50 people, from both public and private sectors



# Use case: Suomi.fi maps

- A part of Finnish e-services for public sector organisations
- Municipalities and other public sector organisations can create and publish embedded maps
- Over 1000 map layers
- Organisations have **roles**, which have been granted **permissions** to different map layers
- Organisations ask their own non-public layers to be added to the service
- In numbers:
  - 300+ user accounts
  - approx. 1500 map embeds made
  - 41 mil. map layer views in 2023



# Use case: Karttapaikka (NLS FI)

- Made using map embed from Suomi.fi maps karttajulkaisusta and implementing RPC
- 6 mil. visitors annually

Maanmittauslaitos - Karttapaikka

FI / SV / EN

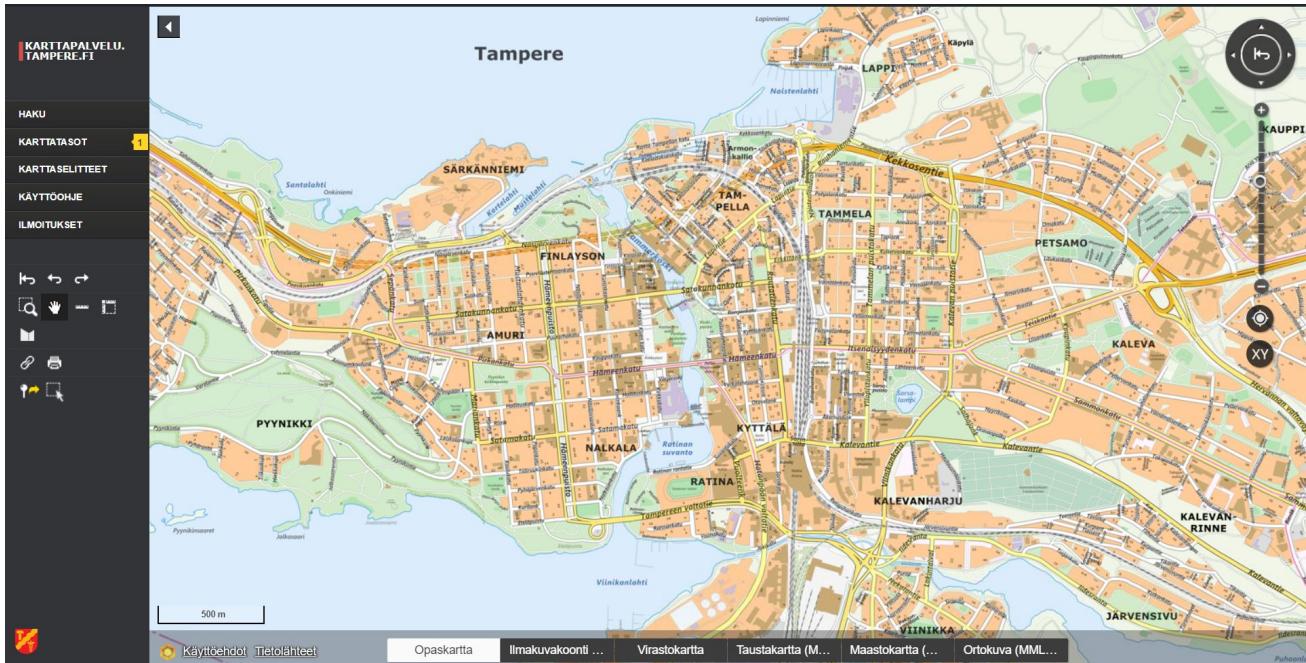
- Osta karttoja
- Lataa paikkatietoaineistoja
- Hoida kiinteistötäsoita
- Jaa karttalinkki
- Anna palautetta

Tietoa palvelusta



# Use case: City of Tampere

- The map service for City of Tampere
- Configurations include logging in via intranet
- An Oskari-based feedback tool has also been made: a split screen view where one half has a survey, the other has map embed that allows adding features to the map



# Thank you!

- **Website:** <https://oskari.org/>
- **GitHub:** <https://github.com/oskariorq/>
- **LinkedIn:** [Oskari - Open Source](#)
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