



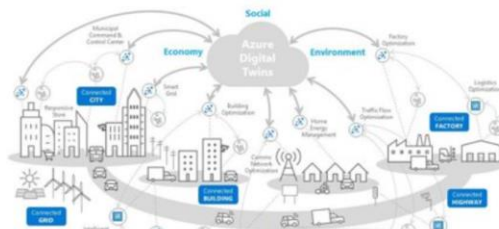
# Open Vilnius

## Vilnius 2.0: Navigating the Digital Transformation of City Municipality

# Digital Twin Starter Pack



Overproduced marketing graphics



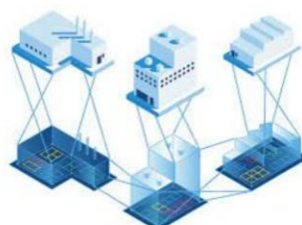
Icons and arrows in Illustrator



Renderings with ghostly digital stuff



Lots of digital lens flare (*flair*)



????



Some dude holding a digital thing

Source: Nathan Miller [@archinate](#) ([Nitter](#))

- Vilnius municipality is responsible for over 71 systems.
- Subordinate institutions have their own systems and data storages.





# #Transparency

**Purpose:** the desire to be in the lead, so a test batch of data and systems codes are opened.

**The aim was to increase transparency and openness.**

I phase

# #Open up everything

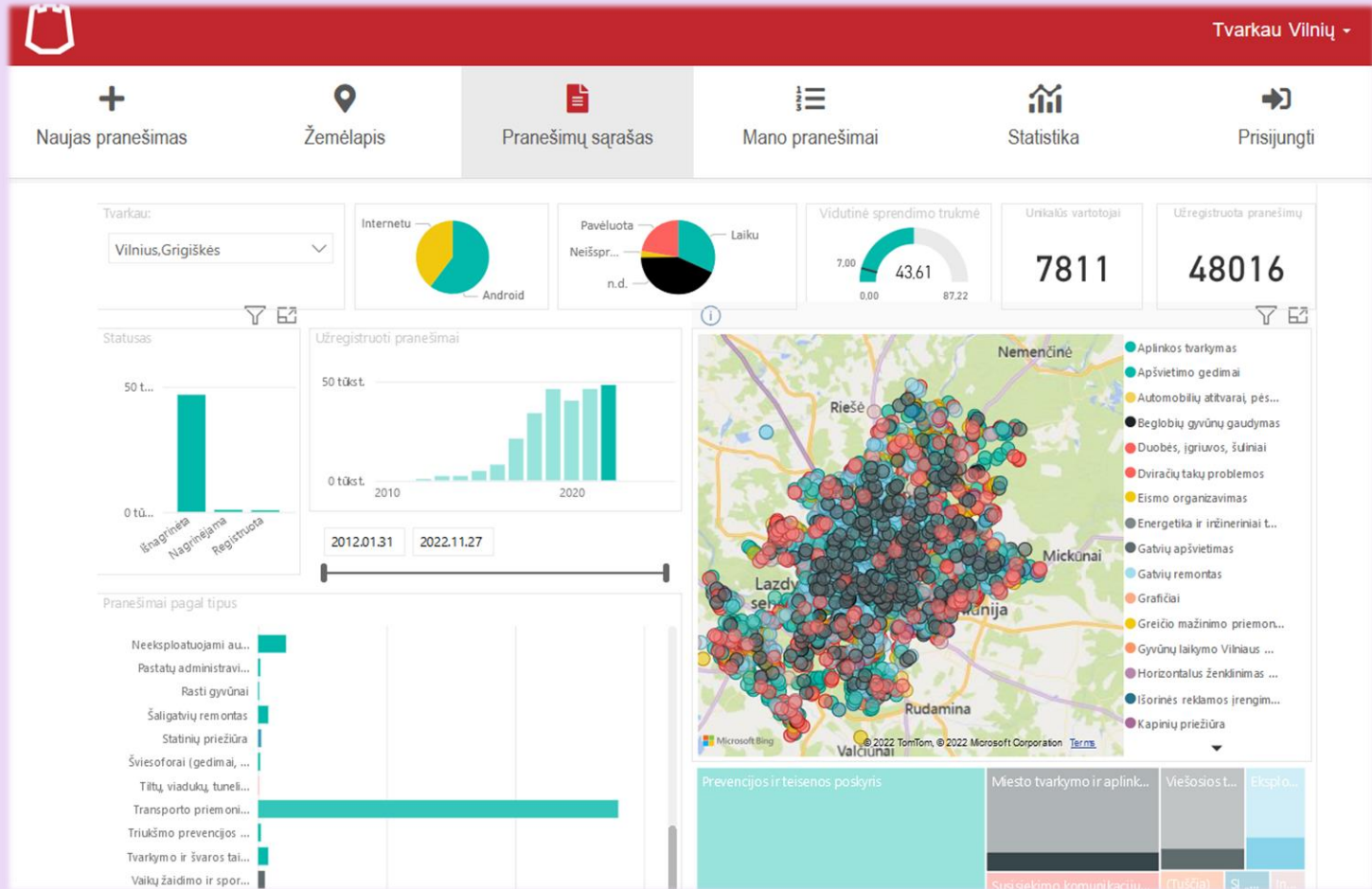
**Purpose:** open up everything possible— from excel files, CSV to applications' codes.

The Vilnius Tech community gets involved in the activities of Vilnius.

II phase



# Started to create more visual tools



Data was published in different types of ways – github, Atviras Vilnius, api



## Procesai



Teisės aktų priėmimo procesas

Peržiūrėti



Sąskaitų apmokėjimo procesas



Kandidatų į valdybas atranka

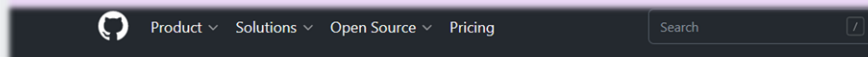


Naujo ar keičiamo maršruto trasos  
įgyvendinimo procesas

Peržiūrėti



Alkoholio vartojimo procesas



Vilnius city municipality

2 followers Vilnius, Lithuania http://www.vilnius.lt atviras@vilnius.lt

Overview Repositories 93 Projects Packages People 3

About

EN



OPEN DATA - OPEN ALGORITHM - OPEN INNOVATION

Machine to Machine

Human Readable

Data Lake

Open IoT  
playground  
in progress

Our Solutions  
Welcome To Contribute

Solutions From  
Others

Online Data  
API



Periodical  
Data

Tidy up  
City



3D MAP



Tools

IT City  
Community

Active

Legacy



# #Just what is needed

**Purpose:** focus on what is truly needed and what data can be used in practical manner.

Started to separate *different types* of users.

The examples of data tools to help make decisions emerge.

III phase



# What about now?



# #Value&quality

**Purpose:** to lead a value based further city digitalization.

**Values:**

- Know your users
- Transparency
- Open and high quality data
- Population inclusion
- Data-driven decisions
- Security

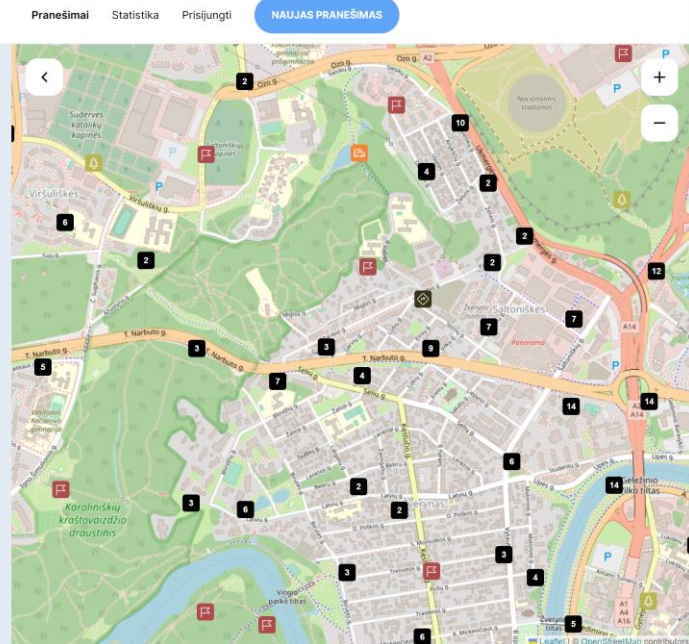
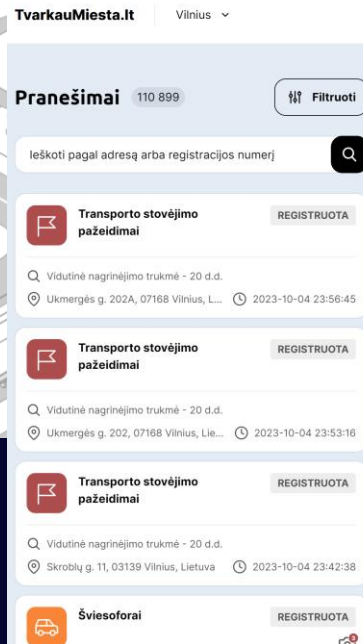
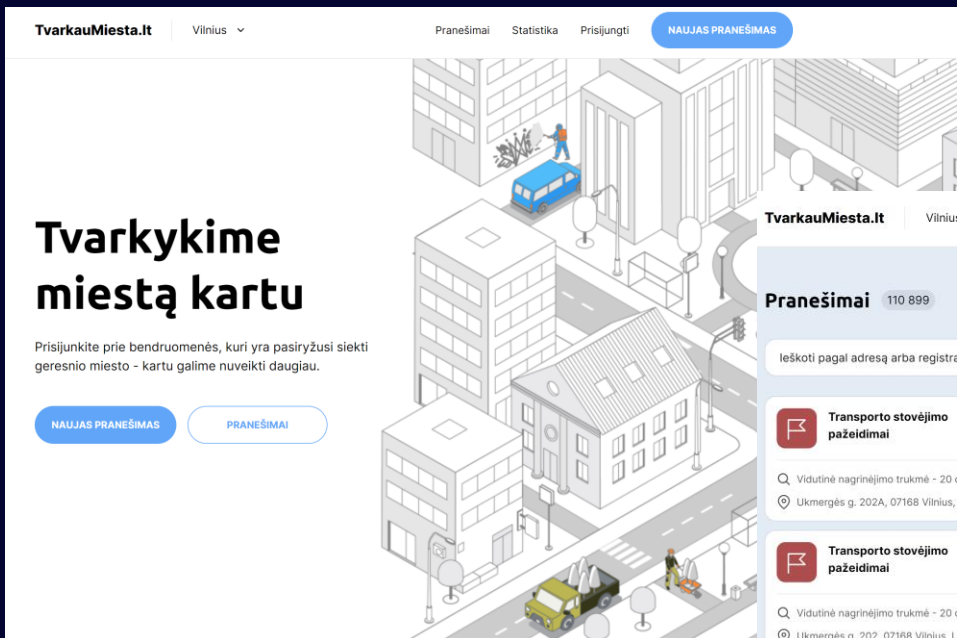
IV phase

# Open Vilnius users

1. **Start-up segment** - we are currently helping a bicycle navigation start-up to pick up and receive data from the system tvarkaumieta.lt after using our platform and API;
2. **Population, journalists segment** – successfully use maps and dashboards created from data;
3. **Hackathons, analysts, IT companies** – the users that need and use „raw“ data.
4. **Tech companies** – use our API sets for project development, e.g. tarkaumieta.lt.

# Transparency and population inclusion

## Tvarkau miesta



# Open Vilnius

Everything about Vilnius data in one place.

## Vilnius Database

All open data for analysts, startups and technical product developers

[Learn More](#)

## Vilnius API

Open data in API format for developing IT solutions

[Learn More](#)

## Data Visualizations

Visualizations of statistical data - for residents and decision makers

[Learn More](#)



# Services IS NEW

- Low code
- Instant feedback to the customer
- Interactive emails forms;
- Defined Service Delivery Process (BPMN);
- Decision tables (DMN);
- Multilingual capability

The image displays the Vilnius Services IS interface, which is a low-code platform for service delivery. The top section shows a customer service form with fields for contact information (name, email, phone, address) and service details (planned work, start date, address, and duration). Below the form is a BPMN process diagram illustrating the service flow, including steps like 'Check account', 'Check account', 'Check account', and 'Check account'. The bottom section shows a list of service requests with columns for status, priority, and date.

**Customer Service Form Fields:**

- Kontaktinė informacija:**
  - Pavardėjas: MATAS MACIULIS
  - El. paštas: maciulis.matas@gmail.com
  - Telefono numeris: [Empty]
  - Adresas: [Empty]
- Pagrindinė informacija:**
  - Planuojami darbai: [Empty]
  - Planuojama darbo pradžios data: [Empty]
  - Stovybos, remonto, montavimo darbu atlikimo adresas: [Empty]
  - Kitos paslaugos ir siūlomų reikalingų: [Empty]
  - Planuojama trūkimo trukmė per parą, valandomis: [Empty]
  - Primerinama, kad trūkimų skleidžiantis darbas gali vykti darbo dienomis 7-18 val., o poilsio ir švenčių dienomis 9-17 val.
  - Planuojamas trūkimo lygis: [Empty]

**BPMN Process Diagram:**

```

graph LR
    Start([Start]) --> Task1[Task 1]
    Task1 --> Task2[Task 2]
    Task2 --> Task3[Task 3]
    Task3 --> Task4[Task 4]
    Task4 --> Task5[Task 5]
    Task5 --> Task6[Task 6]
    Task6 --> Task7[Task 7]
    Task7 --> Task8[Task 8]
    Task8 --> Task9[Task 9]
    Task9 --> Task10[Task 10]
    Task10 --> Task11[Task 11]
    Task11 --> Task12[Task 12]
    Task12 --> Task13[Task 13]
    Task13 --> Task14[Task 14]
    Task14 --> Task15[Task 15]
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    Task26 --> Task27[Task 27]
    Task27 --> Task28[Task 28]
    Task28 --> Task29[Task 29]
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    Task36 --> Task37[Task 37]
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    Task93 --> Task94[Task 94]
    Task94 --> Task95[Task 95]
    Task95 --> Task96[Task 96]
    Task96 --> Task97[Task 97]
    Task97 --> Task98[Task 98]
    Task98 --> Task99[Task 99]
    Task99 --> Task100[Task 100]
    
```

**Service Request List:**

Užduoties ID	Užduoties pavadinimas	Užduoties statusas	Užduoties data
1	Užduoties pavadinimas	Užduoties statusas	Užduoties data
2	Užduoties pavadinimas	Užduoties statusas	Užduoties data
3	Užduoties pavadinimas	Užduoties statusas	Užduoties data
4	Užduoties pavadinimas	Užduoties statusas	Užduoties data
5	Užduoties pavadinimas	Užduoties statusas	Užduoties data
6	Užduoties pavadinimas	Užduoties statusas	Užduoties data
7	Užduoties pavadinimas	Užduoties statusas	Užduoties data
8	Užduoties pavadinimas	Užduoties statusas	Užduoties data
9	Užduoties pavadinimas	Užduoties statusas	Užduoties data
10	Užduoties pavadinimas	Užduoties statusas	Užduoties data

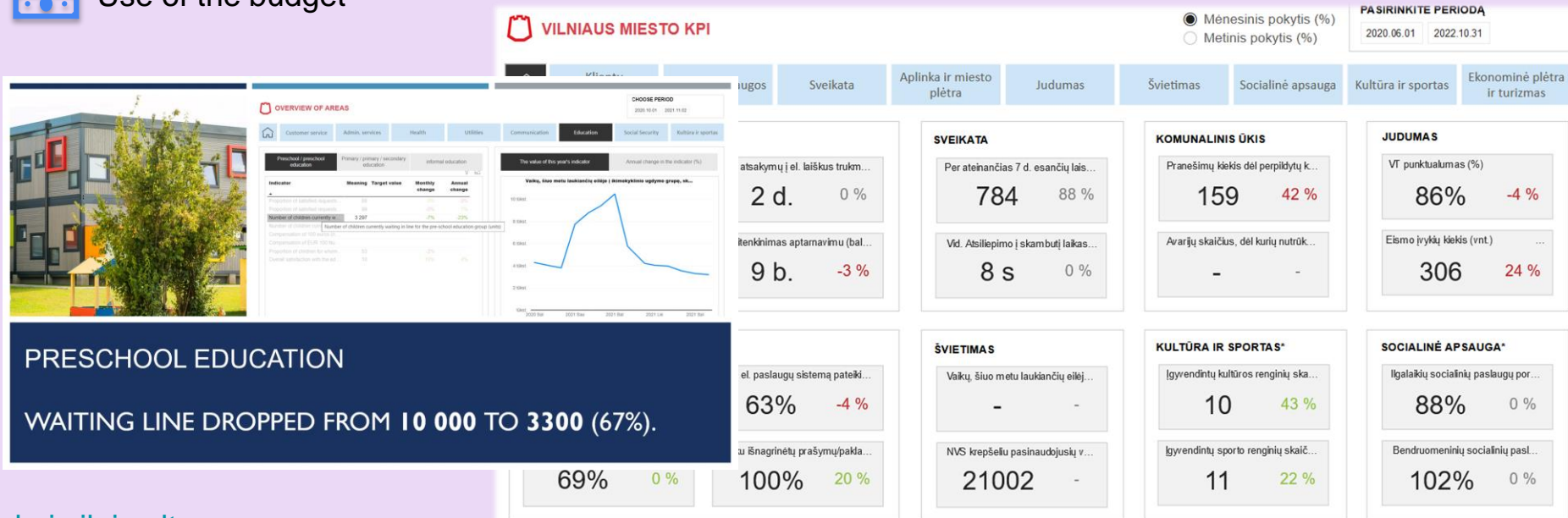
★★★ Day-to-day **monitoring** quality of services




## Strict supervision of service companies



## Use of the budget



# Listening to community

 | Active Vilnius

Premise searchOutdoor playgroundsAbout / InstructionsStatisticsENLogin

### What will you do today?

Rental time type

☒ One-time rent

☐ For private tenants (auctions)

Institution

Vilniaus Sofijos Kovalevskajos gimnazija ...

Place type

Select

City part


Select

Date from

Date to

Clear filters

Search

 | Active Vilnius

Premise searchOutdoor playgroundsAbout / InstructionsStatisticsENLogin

### Active leisure areas in Vilnius

#### Filters

6 results

Rental time type

☒ One-time rent

☐ For private tenants (auctions)

Institution

Select

Place type

Gym

☒ Gym 227

☐ Event Hall 182

☐ The stadium 155

☐ Cabinet 747


☐ Pool 5

☐ Tennis court 4

☐ Playground 4

Outdoor exercise


Select



Gym

Price for 1 hour 42 m<sup>2</sup> 2.02 €


Gabijos g. 1  
Vilniaus lopšelis-darželis „Gabijėle“



Gym

Price for 1 hour 76 m<sup>2</sup> 3.65 €


Sietyno g. 9  
Vilniaus lopšelis-darželis „Delfinukas“



Gym

Price for 1 hour 64 1.87 m<sup>2</sup> 30.81 €


Šviesos g. 16  
Vilniaus savivaldybės Grigiskių „Šviesos“ gimnazija



Gym

Price for 1 hour 462.5 m<sup>2</sup> 22.20 €


S. Stanevičiaus g. 98  
Vilniaus „Ateities“ mokykla



Gym

Price for 1 hour 278.97 m<sup>2</sup> 13.39 €

Trampolio g. 5  
Vilniaus Trakų Vokės gimnazija



Gym

Price for 1 hour 673.54 m<sup>2</sup> 32.33 €

Ozo g. 39  
Vilniaus Ozo gimnazija

# Security



VMSA saugumo  
spragų pranešimų  
programos konkursas

# BUG BOUNTY

```
registerController.php  x app.js
You, 7 months ago | author (You)
import VueRouter from "vue-router";
import routes from "../routes/routes";
import store from "../store/index";
import Vuex from "vuex";
import enLangFile from "../lang/en";

// Set config file into the global variable
window.config = require("../vue.config");

// Import bootstrap file
require("../bootstrap");

// Import vue globally
window.vue = require("vue");

require("../directives");

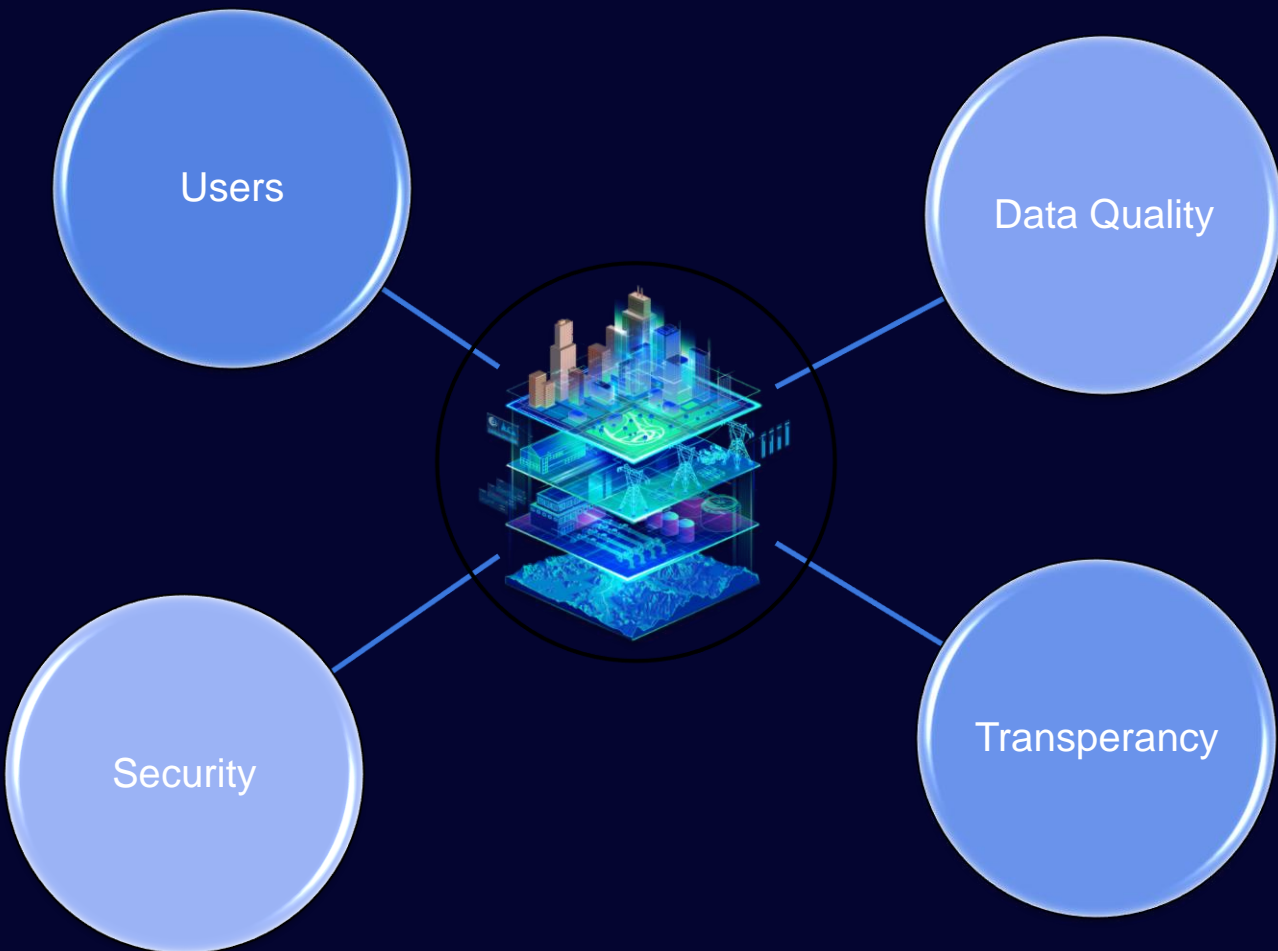
// Import vue-router management
require("../router");
```

# *Future we want to see*









**I WANT YOU TO  
SOLVE YOUR USERS PROBLEM**



# Thank you



## Open Vilnius