

# Recognizing the success of Spatial Data Infrastructures

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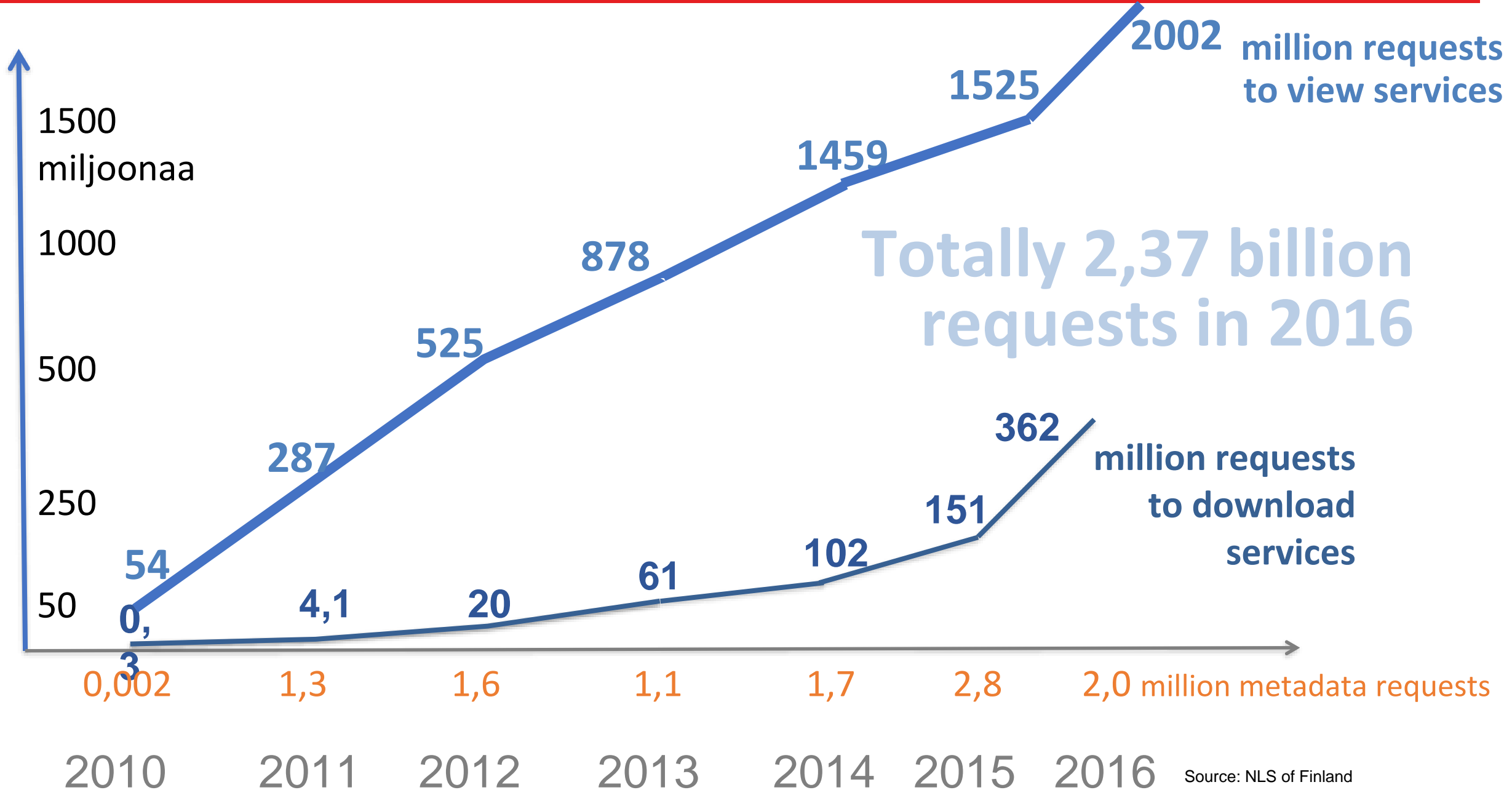
**FIG 2018**

Enhancing the Geospatial Maturity of Societies

**7.5.2018**



# The use of INSPIRE services in Finland



- Spatineo Platform
- Customer's data
- Automated surveys
- Third party data

Automated Data Collection



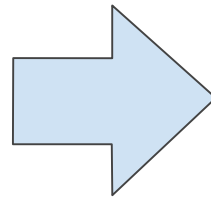
Assess Impact



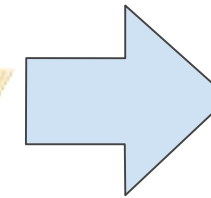
- Real-time dashboards
- Automated reports
- Transparency

Strategic goals

Measurable indicators

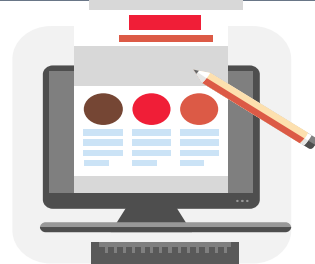


Recognize your Success



- Technology transfer
- Improvement of Indicators

Implementation



Recommendations



- Evaluate all options
- Specific technologies
- Communication with stakeholders

# Making Your Investment Count



Identify key indicators from strategic goals

Measure whether society is receiving the expected value from the open environmental data

Case: Finnish Environment Institute

- To produce crucial information and innovative solutions for an ecologically, economically and socially sustainable society.
- To respond proactively to society's ever-changing information needs.
- To make a difference for decision-making in the public and private sector through our internationally recognized research and development activities and our high quality expertise.





## Are all the municipalities in the risk of flooding using flood risk data? (T)

Municipalities on the list TulvariskiKunnat not using the data \*

Name
1. Alavieska
2. Espoo
3. Hamina
4. Huittinen
5. Ilmajoki
6. Inari
7. Isokyrö
8. Kauhava

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Municipalities on the list TulvariskiKunnat using the data

Jan 1, 2017 - Dec 31, 2017

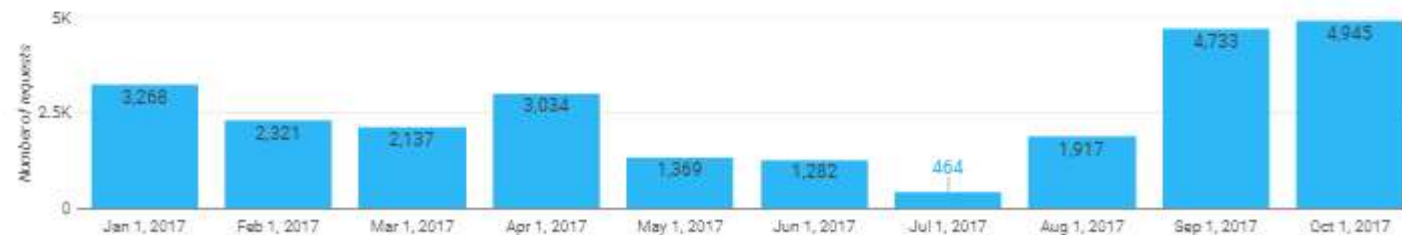
Name	Number of requests (%)
1. Helsinki	46.9%
2. Ylivieska	11.4%
3. Pori	11.3%
4. Vaasa	10.1%
5. Seinäjoki	9.4%
6. Jyväskylä	6.7%
7. Kotka	1.9%
8. Turku	1.1%
9. Kirkkonummi	0.7%
10. Sipoo	0.3%
11. Lapua	0.1%

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Total number of Tulvariskikunnat

37

Monthly distribution of data access requests by municipalities using flood risk data:



*Goal:*

Decrease the vulnerability of cities in climate change

*Impact indicator:*

All municipalities that have flood risk areas use data of flood risks



## How actively citizens are contributing to monitoring, observing and producing of data on nature? (F)

Number of Users and Unique Pageviews vs previous year

Jan 1, 2017 - Dec 31, 2017

Page Title	Number of users	% Δ	Unique Pageviews	% Δ
1. Järviwiki	33,068	-14.6% ↓	46,964	-12.5% ↓
2. Jäättilanne – Järviwiki	13,416	-28.5% ↓	18,537	-28.9% ↓
3. Levätilanne – Järviwiki	12,370	-29.6% ↓	17,248	-28.8% ↓
4. Järvien nimet – Järviwiki	9,694	-16.9% ↓	10,417	-17.9% ↓
5. Levävahti/Miten tunnistat sinilevän? – Järviwiki	6,653	-55.4% ↓	7,437	-55.2% ↓
6. Itämeri – Järviwiki	5,498	0.7% ↑	6,286	-1.2% ↓
7. Pintaveden lämpötila – Järviwiki	5,101	-20.1% ↓	6,759	-20.1% ↓
8. Suomen kunnat – Järviwiki	3,384	-19.5% ↓	3,763	-20.6% ↓
9. Järvitilastot/Syvimmät järvet – Järviwiki	2,802	58.4% ↑	2,982	54.0% ↑
<b>Grand total</b>	<b>323,933</b>	<b>0.7% ↑</b>	<b>908,124</b>	<b>-4.6% ↓</b>

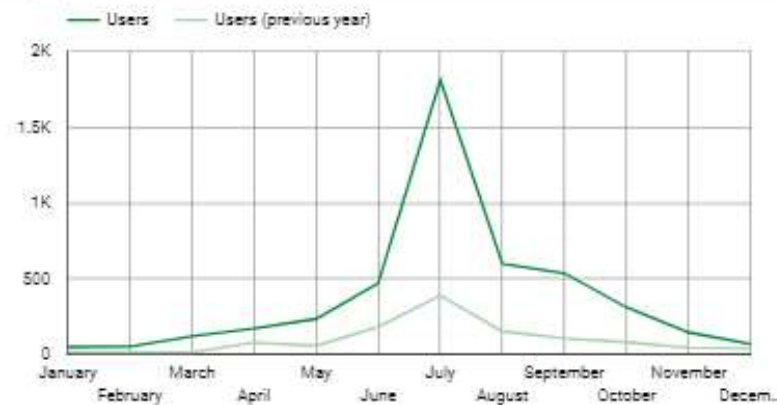
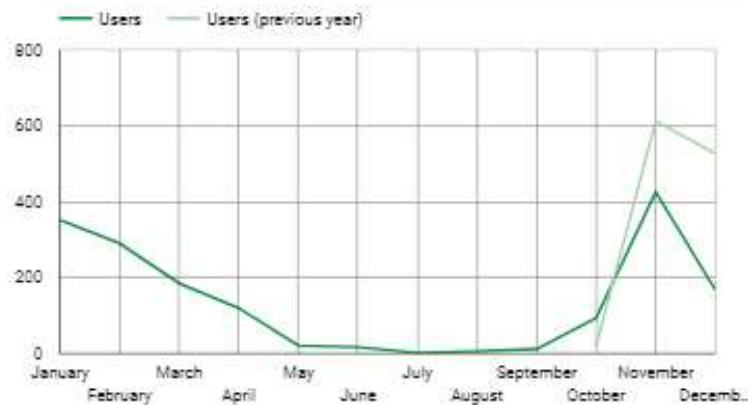
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**Goal:**  
Citizens' participate more widely in observing and collecting data from environment

**Impact indicator:**  
Citizens' activeness in providing observations

Monthly distribution of users of Talviseurantalähetä vs. previous year\*\*

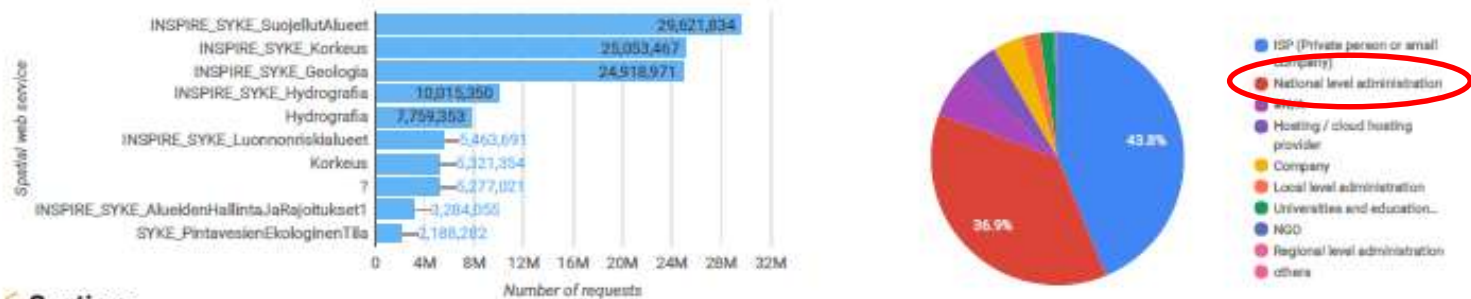
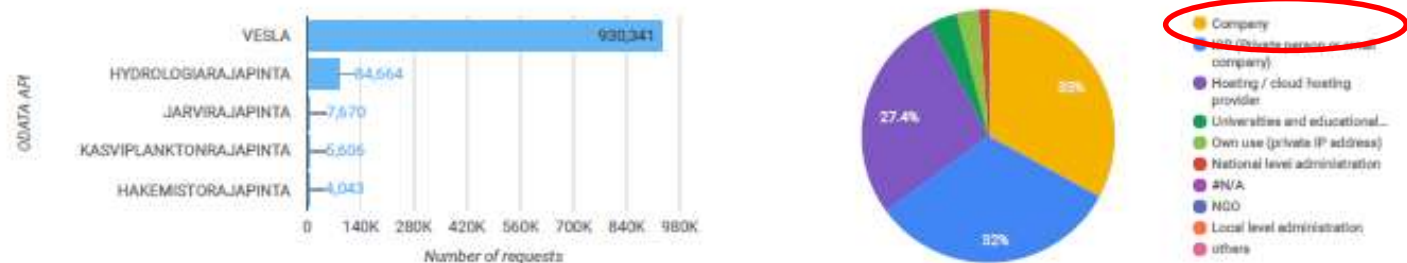
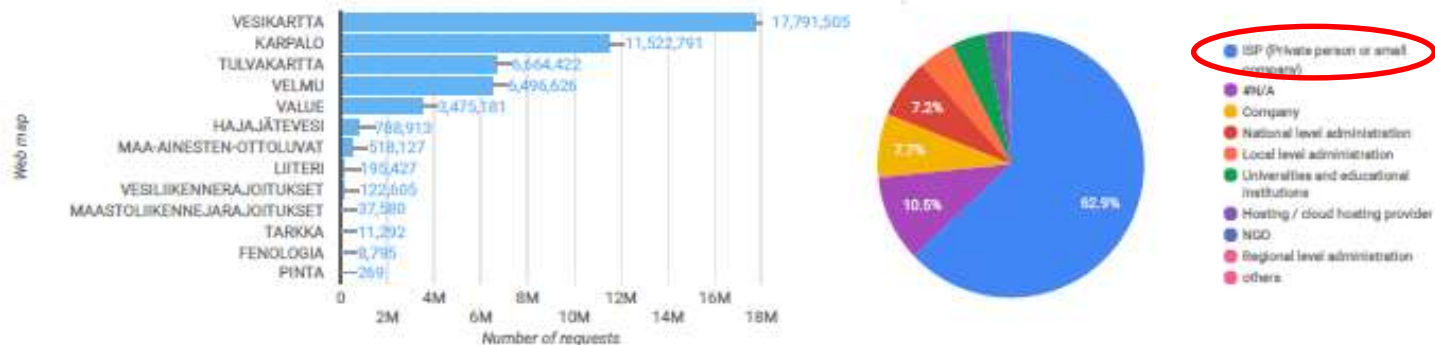
Monthly distribution of users of Havaintolähetä vs. previous year\*\*





## Who are the users and how much environmental information services are used? (F)

Usage of services and distribution by user groups\*\*\*



Goal:

Key information user groups use environmental information

Impact indicator:

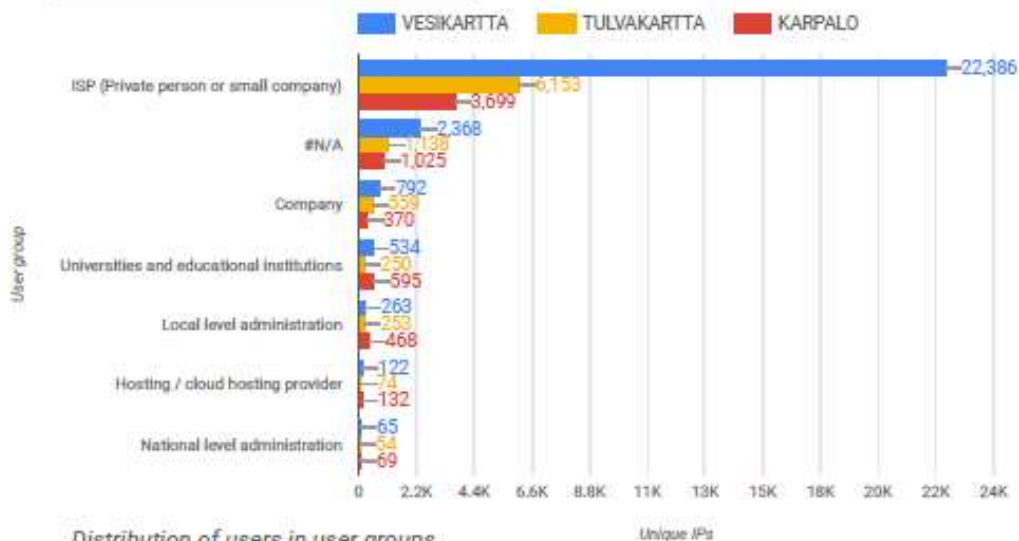
Division of usage of environmental information in user groups



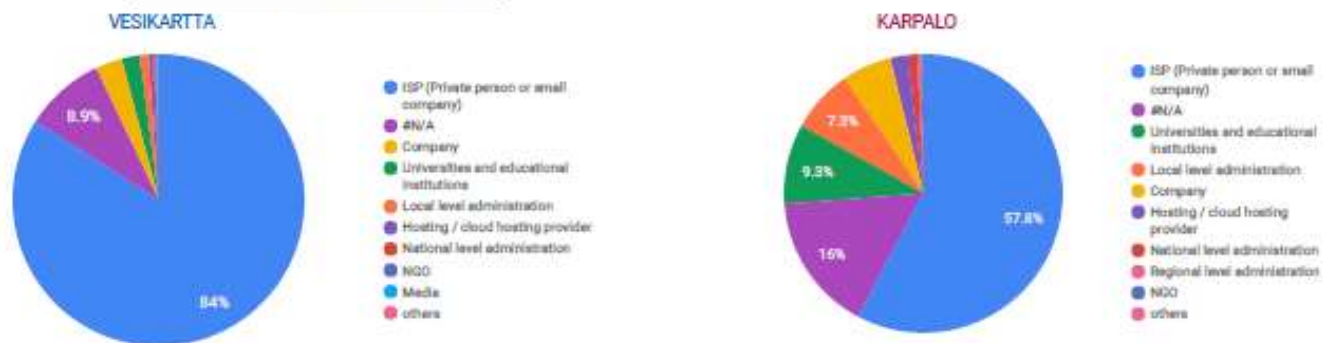
## Who are the specific users of VESIKARTTA, TULVAKARTTA and KARPALO? (F)

Amount of users in different user groups

Year 2017



Distribution of users in user groups



Goal:

Key information user groups use environmental information

Impact indicator:

Division of usage of environmental information in user groups

- Ensure that all information from web maps, data downloads and citizens' submissions of observations are collected
- A study to understand why there are big differences between the amount of users of web maps
  - Natural?
  - Potential users do not find web maps?
- Better communication of flood maps and flood information to cities
- Impact assessment can be developed based on user experience of SYKE:
  - Which indicators are most beneficial?
  - Do new information needs arise during 2018?

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