

How to assess and showcase the impact of open environmental information

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INSPIRE Conference 2018

Make it work together

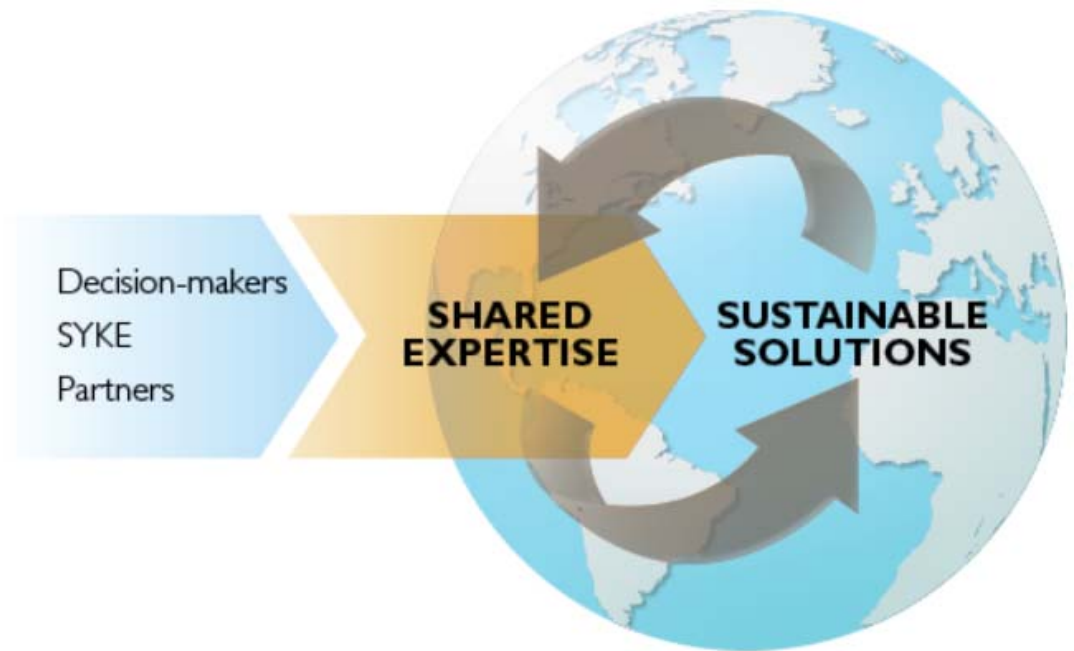
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SYKE Finnish Environment Institute | Suomen ympäristökeskus | Finlands miljöcentral

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Open information

RESEARCH DATA SERVICE

AVOINTIETO 10 VUOTTA
OPENDATA | 10 YEARS

SYKE:n AVOIMEEN TIETOON
DIVE INTO SYKE OPEN DATA

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Finnish Environment Institute (SYKE) produces open data and information for an ecologically, economically and socially sustainable society. SYKE's open data includes versatile information on water resources, surface and ground waters, the Baltic Sea, environmental load and distractions, the valuable natural environment, land cover and the built environment.

Environmental data is accessible by utilizing web services, spatial datasets and satellite observations, as well as data stored in environmental information systems. Environmental data can also be viewed in various web map applications.

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



Automated Data Collection

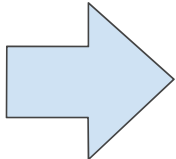


Assess Impact

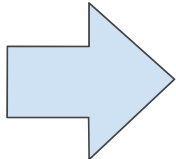
- Real-time dashboards
- Automated reports
- Transparency

Strategic goals

Measurable indicators



Recognize your Success



- Technology transfer
- Improvement of Indicators

Implementation



Recommendations

- Evaluate all options
- Specific technologies
- Communication with stakeholders





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

Jan 1, 2017 - Dec 31, 2017

Number of Users and Unique Pageviews vs previous year

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. Levätillanne – Järviwiki	12,370	-29.6% ↓	17,248	-28.8% ↓
4. Järvien nimet – Järviwiki	9,694	-16.9% ↓	10,417	-17.9% ↓
5. Levävahti/Miten tunnistan 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% ↑
Grand total	323,933	0.7% ↑	908,124	-4.6% ↓

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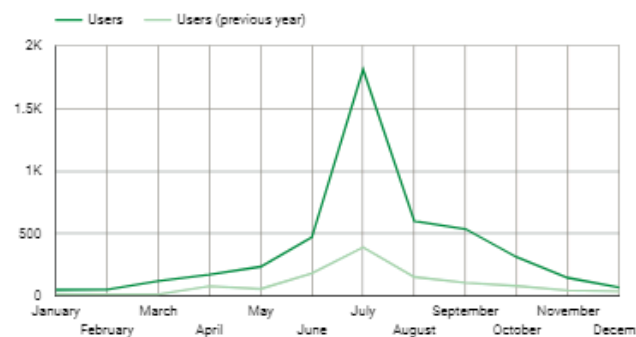
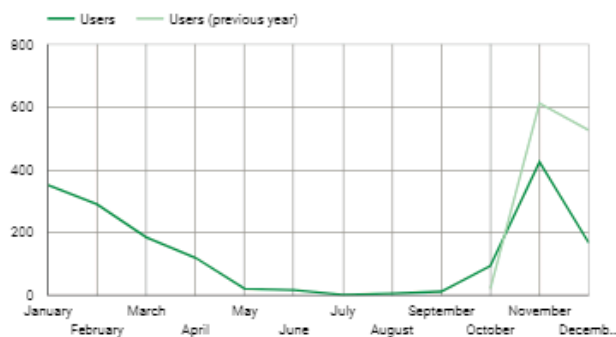
- Lake wiki
- Ice condition
- Algal situation
- Surface water temperature

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

Impact indicator:
Citizens' activeness in providing observations

Monthly distribution of users of Talviseurantalähehti vs. previous year**

Monthly distribution of users of Havaintolähehti vs. previous year**

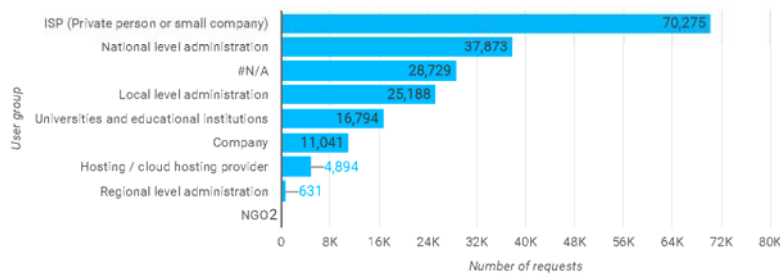




Who are the specific users of data on built environment? (F)

Jan 1, 2017 - Dec 29, 2017

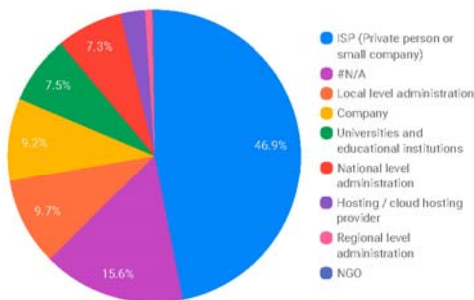
Amount of requests per user group



Goal:
Comprehensive information on built environment to authorities, companies and citizens

Impact indicator:
Who are the specific users of data on built environment

Distribution of users in user groups

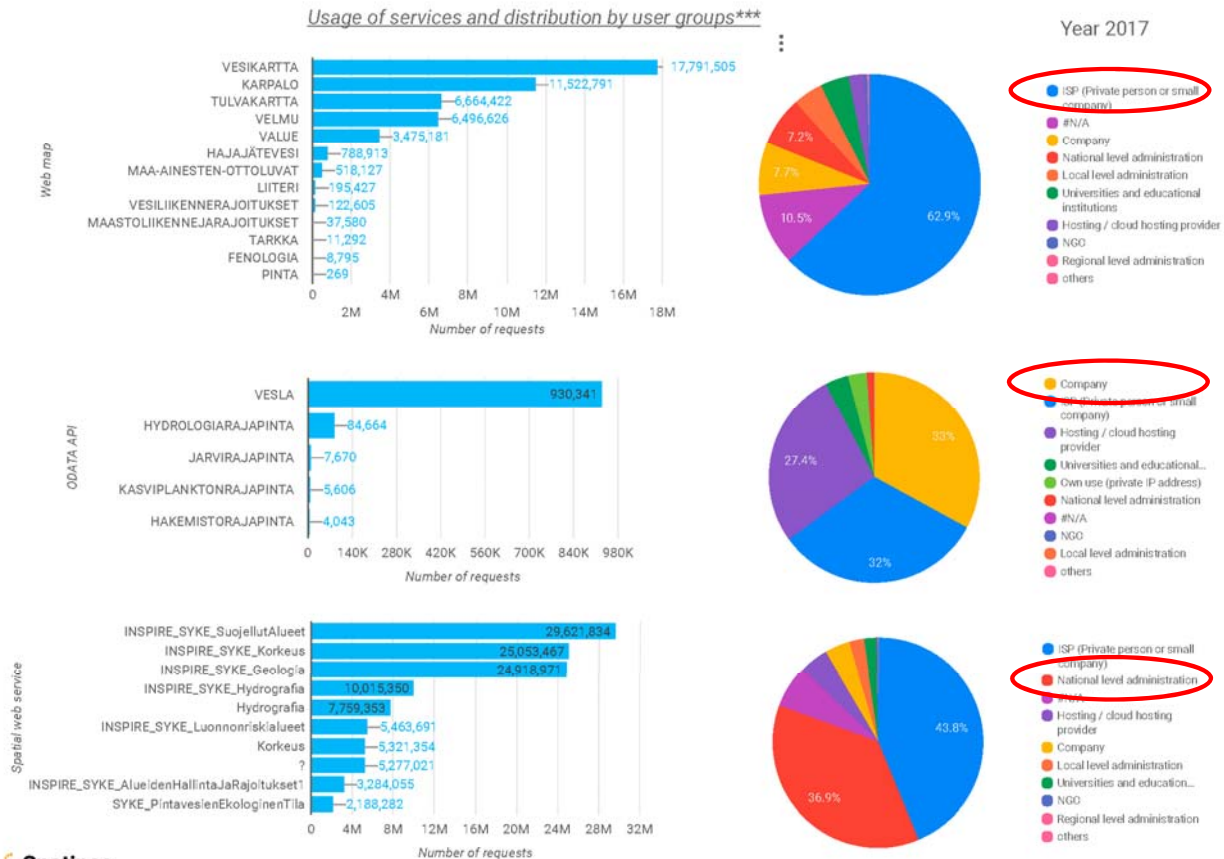


Monthly distribution of Users and Unique Pageviews





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



Goal:
Key information user groups use environmental information

Impact indicator:
Division of usage of environmental information in user groups



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



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%

Total number of Tulvariskikunnat

37

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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

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