

FlaiHub – Platforma za dostop, pregledovanje in analizo odprtih podatkov aerolaserskih skeniranj

Open Source Geospatial Slovenija
Gozdarski inštitut Slovenije
17.10.2024, Ljubljana

Vsakodnevni izzivi pri obdelavi Lidar podatkov

Natančnost, stroški, zamude

Ali bom uspel končati projekt v času, znotraj proračuna in v skladu s projektno dokumentacijo?

Neprestano zastarana strojna in programska oprema

Ali imam dovolj prostora?
Ali imam dovolj računske moči?
So potrebne posodobitve?
Kako vključiti umetno inteligenco v procese?

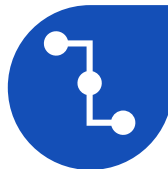
Pridobivanje podatkov

Ali obsahajo prosto dostopni podatki?
Kako jih lahko prenesem?
Kdaj so bili zajeti?
Jih lahko uporabim?

Zakaj se to dogaja?

Zaradi ...

Zahtev naročnikov



Višje zahteve natančnosti klasifikacije.
Več kategorij.
Krajši roki.
Napredek industrije.

Večje količine podatkov



Novi in močnejši senzorji.
Projektne zahteve.
Pogostejši zajemi podatkov.
Novi primeri uporabe.

Razdrobljene dostop








Vsaka država ima svoj portal.
Možnost prenosa.
Različne licence.

Inovacij



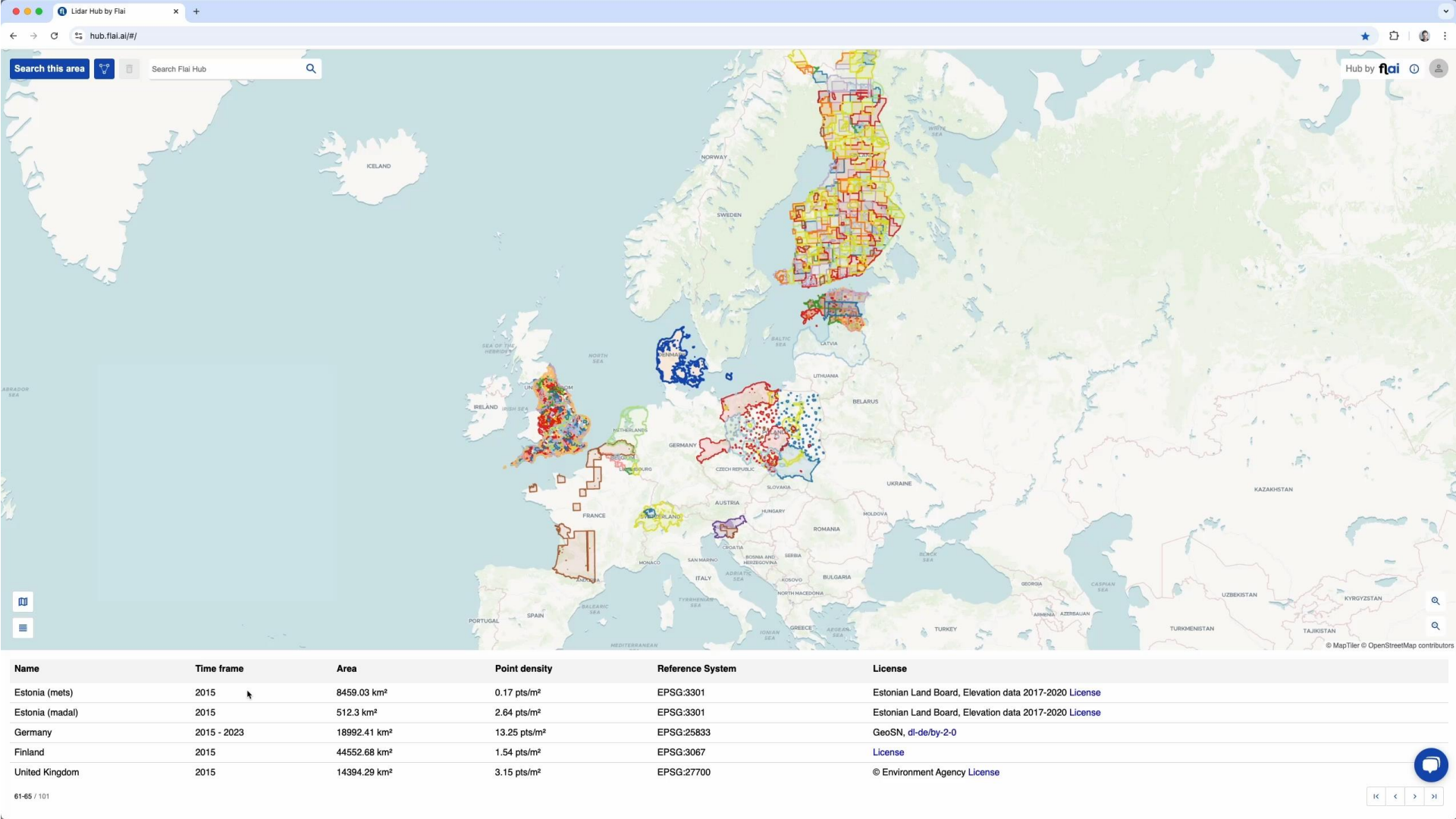
Nova orodja.
UI in kako ostati v koraku s časom.
Nove zahteve.

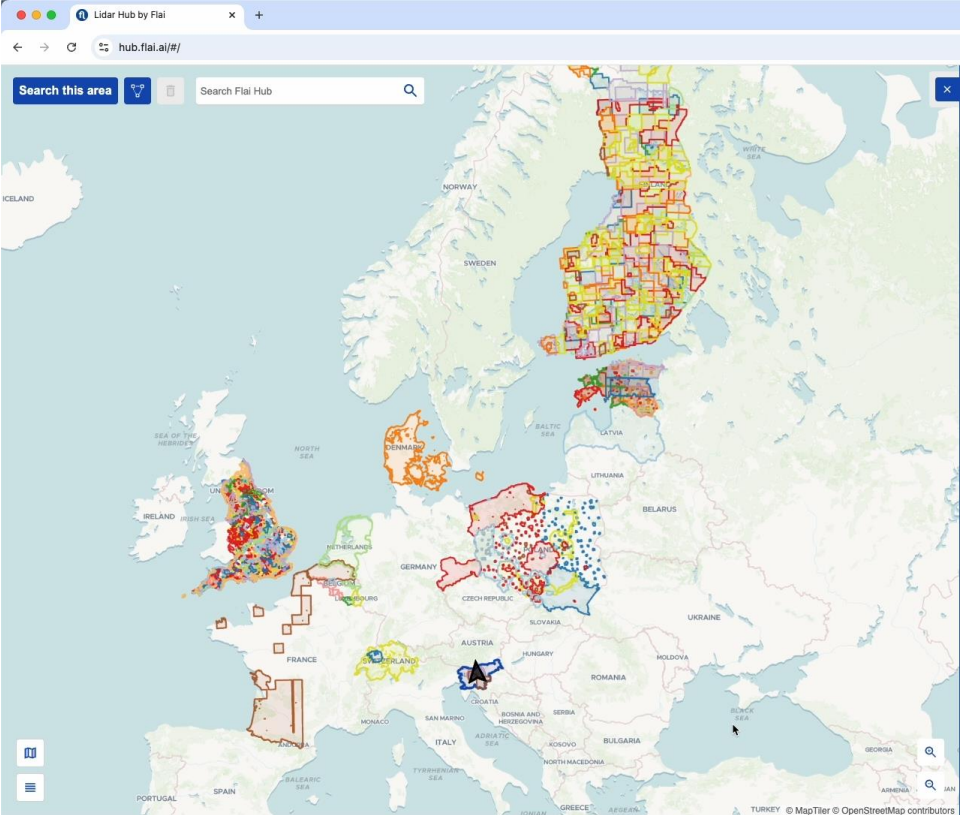
Novo obdobje obdelave Lidar podatkov

← Nekoč	Danes →
 Obdelava možna na namiznem računalniku.	Potrebujemo gruče (super) računalnikov. 
 Celotni projekti manjši od nekaj terabajtov.	Petabajti podatkov. 
 Zanimale so nas samo točke terena.	Potrebujemo vse možne kategorije. 
 Pričakovana natančnost.	Vse večja pričakovanja. 
 Razumni roki za oddajo.	Vse krajši roki. 

Nov pristop

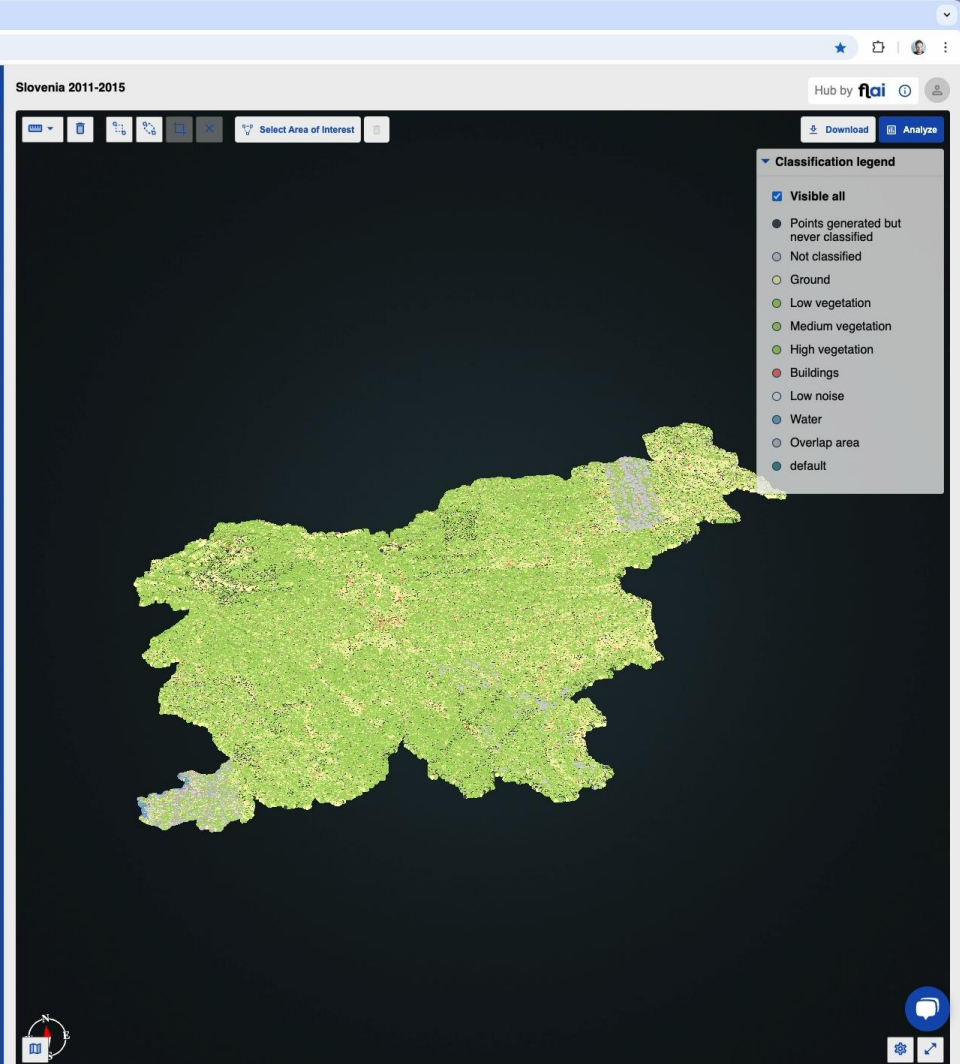


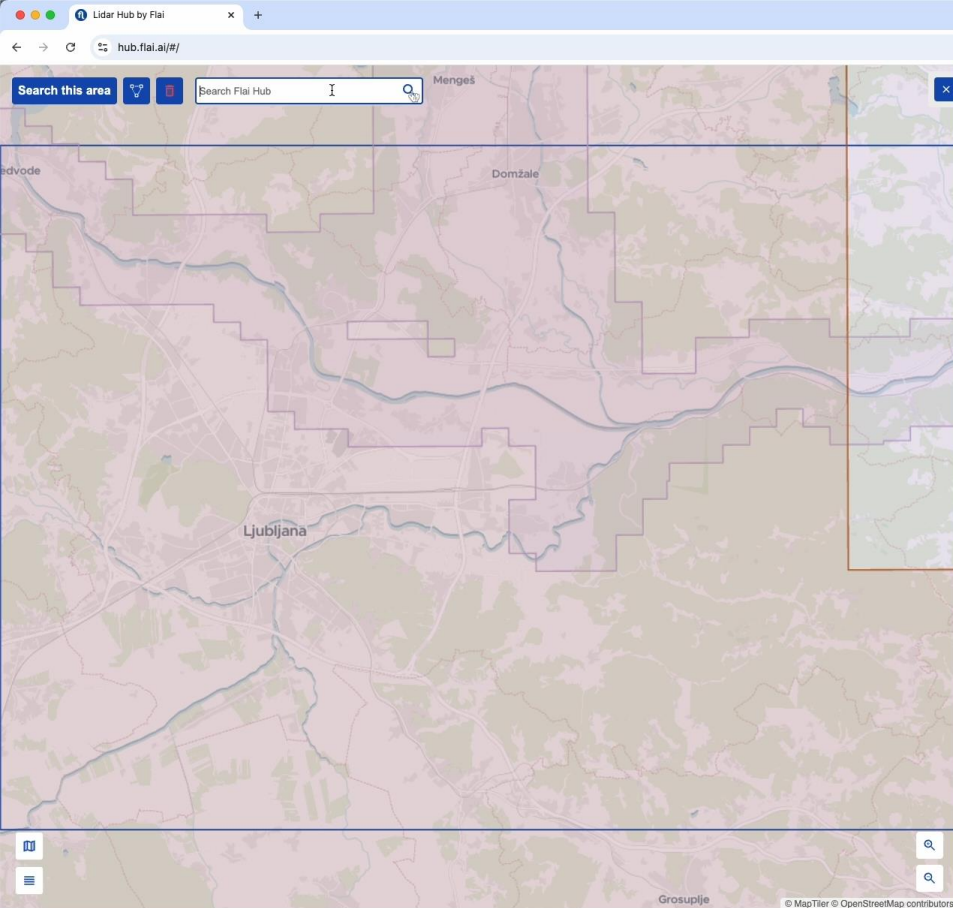




Name	Time frame	Area	Point density	Reference System	License
Poland	2020	3227.01 km ²	37.97 pts/m ²	EPSG:2180	The user can download any required data, without any limitations.
United Kingdom	2020	10133.78 km ²	2.25 pts/m ²	EPSG:27700	© Environment Agency License
Estonia (tava)	2020	11998.4 km ²	3.66 pts/m ²	EPSG:3301	Estonian Land Board, Elevation data 2017-2020 License
Netherlands	2020 - 2022	38757 km ²	23.36 pts/m ²	EPSG:28992	The government has shared the AHN publicly in the form of open data in full and without any conditions
Luxembourg	2019	2649.17 km ²	29.98 pts/m ²	EPSG:2169	License

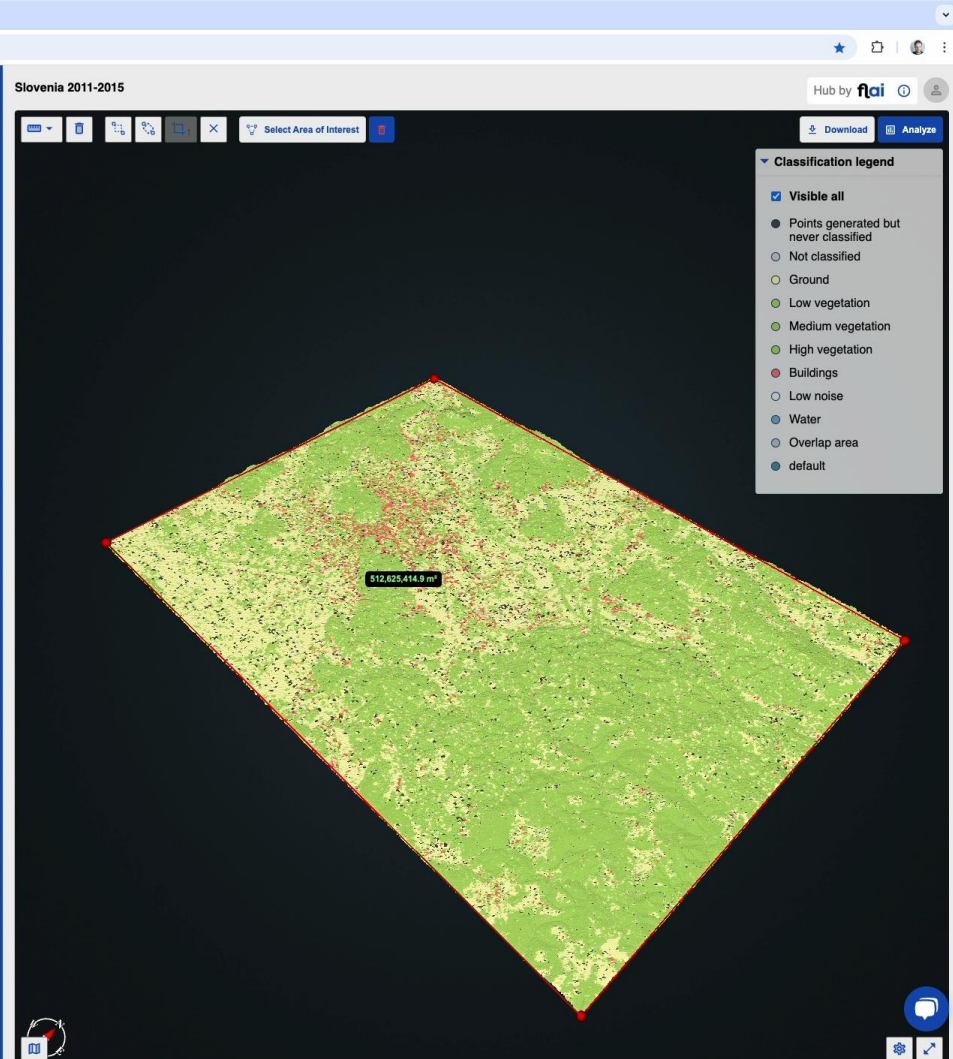
31-35 / 101

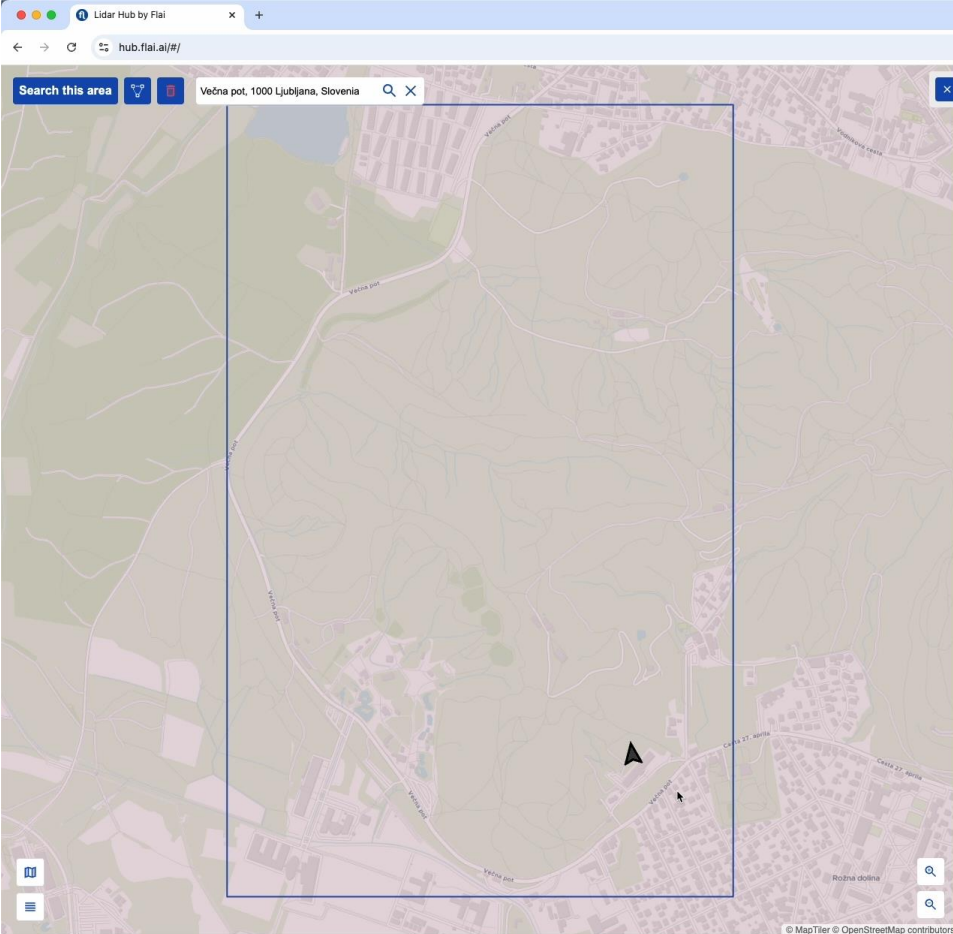




Name	Time frame	Area	Point density	Reference System	License
Slovenia - Water Corridors	2023	1967.44 km²	80.03 pts/m²	EPSG:3794	GURS, PLS 2023 License
Slovenia	2023	5584.15 km²	20.73 pts/m²	EPSG:3794	GURS, CLS 2023 License
Slovenia	2011 - 2015	21143.89 km²	20.22 pts/m²	EPSG:3794	Slovenian Environment Agency, LIDAR data 2011 - 2015 License

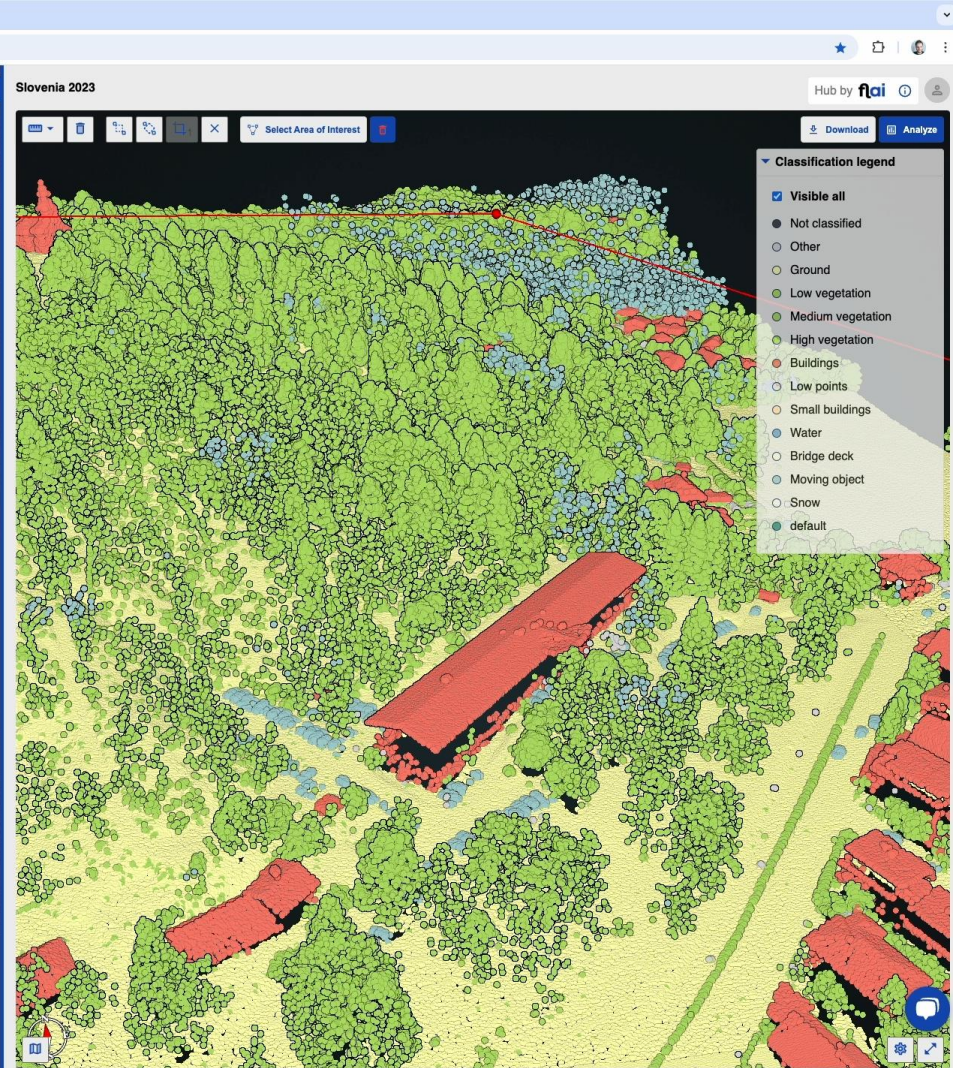
1-3 / 3

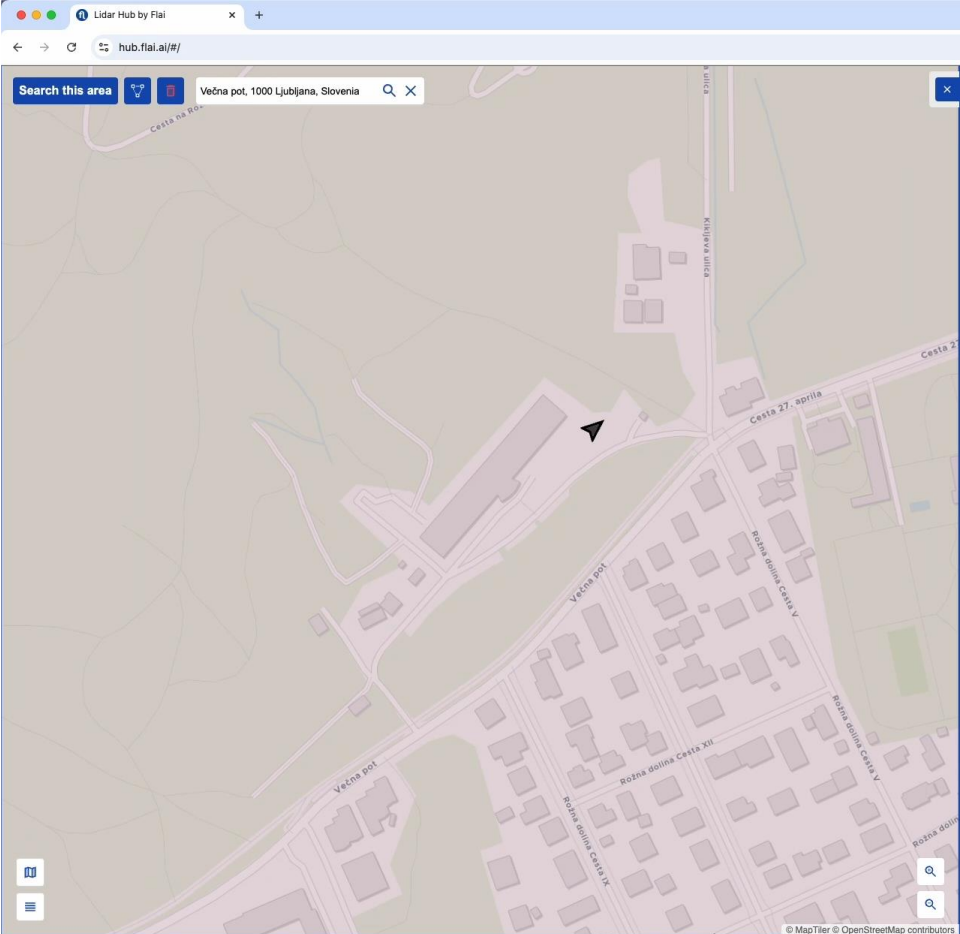




Name	Time frame	Area	Point density	Reference System	License
Slovenia	2023	5584.15 km ²	20.73 pts/m ²	EPSG:3794	GURS, CLS 2023 License
Slovenia	2011 - 2015	21143.89 km ²	20.22 pts/m ²	EPSG:3794	Slovenian Environment Agency, LIDAR data 2011 - 2015 License

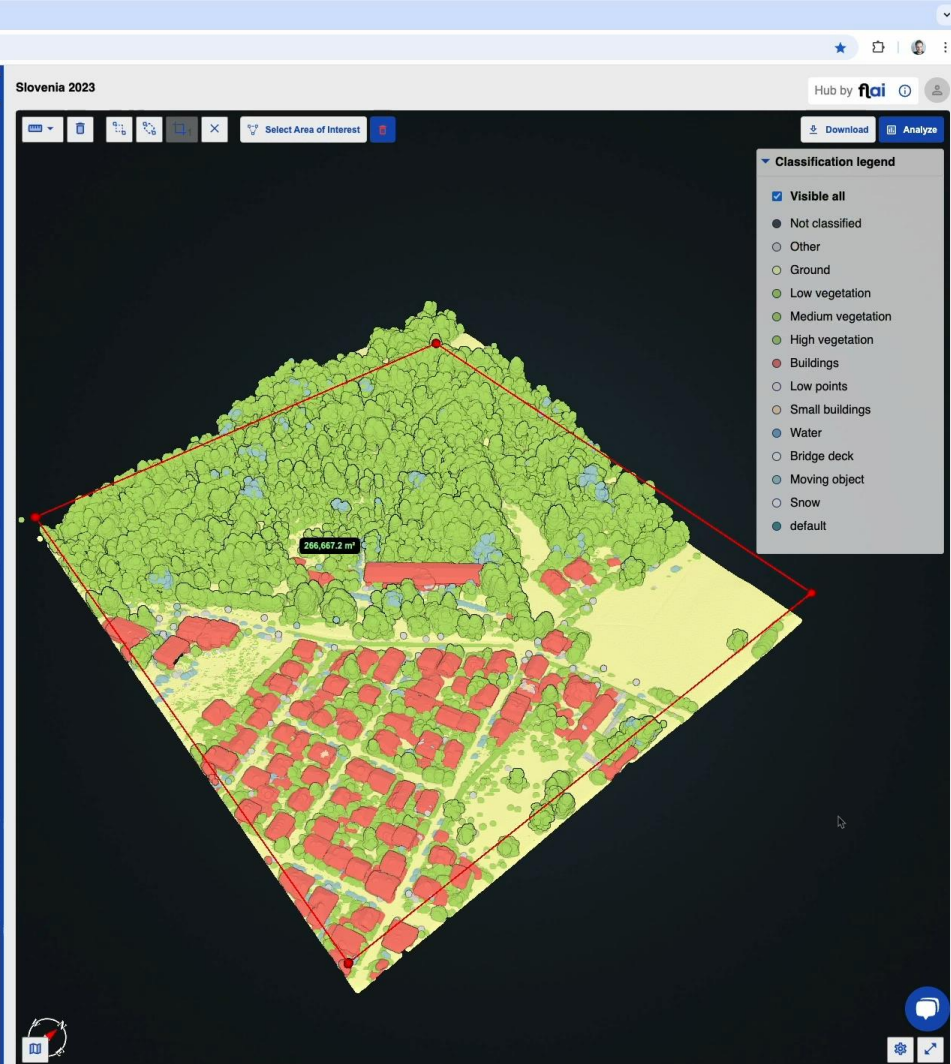
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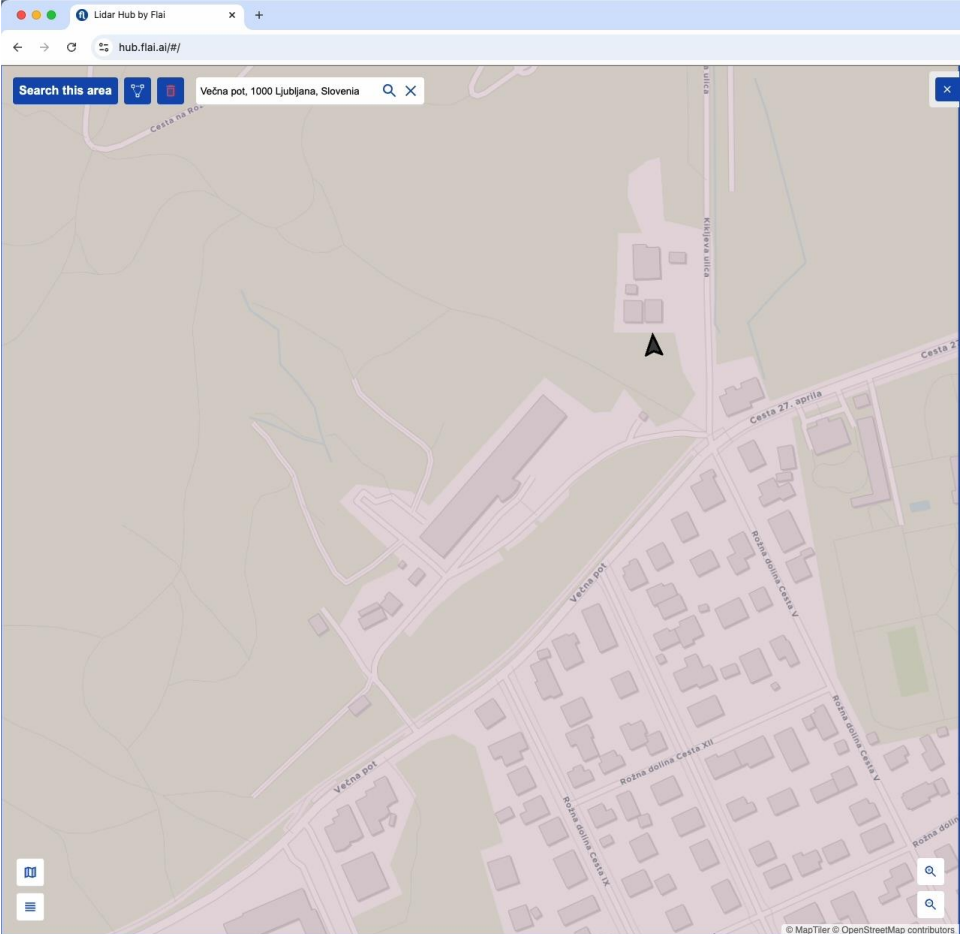




Name	Time frame	Area	Point density	Reference System	License
Slovenia	2023	5584.15 km ²	20.73 pts/m ²	EPSG:3794	GURS, CLS 2023 License
Slovenia	2011 - 2015	21143.89 km ²	20.22 pts/m ²	EPSG:3794	Slovenian Environment Agency, LIDAR data 2011 - 2015 License

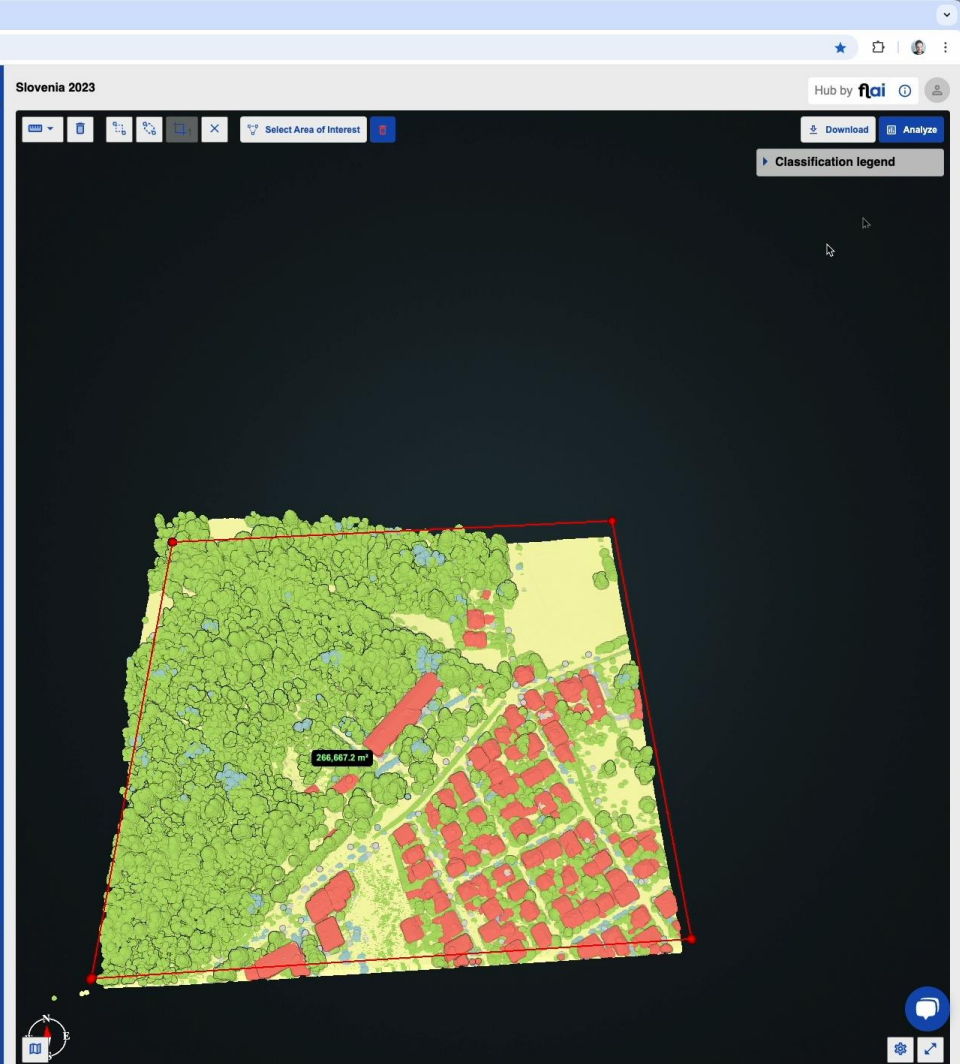
1-2 / 2

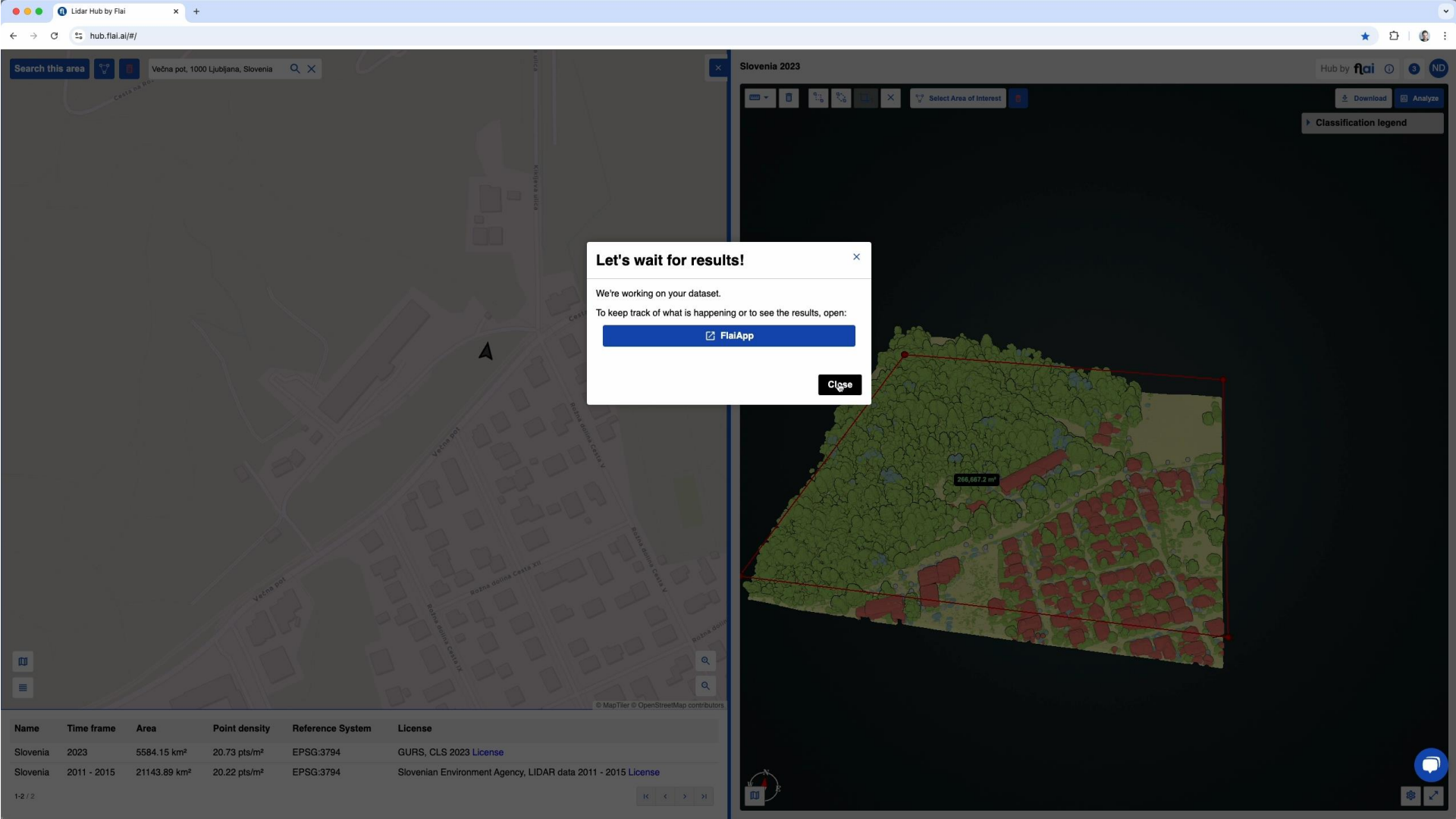




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Slovenia	2023	5584.15 km ²	20.73 pts/m ²	EPSG:3794	GURS, CLS 2023 License
Slovenia	2011 - 2015	21143.89 km ²	20.22 pts/m ²	EPSG:3794	Slovenian Environment Agency, LIDAR data 2011 - 2015 License

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Let's wait for results!

We're working on your dataset.

To keep track of what is happening or to see the results, open:

[FlaiApp](#)

Close



Name	Time frame	Area	Point density	Reference System	License
Slovenia	2023	5584.15 km²	20.73 pts/m²	EPSG:3794	GURS, CLS 2023 License
Slovenia	2011 - 2015	21143.89 km²	20.22 pts/m²	EPSG:3794	Slovenian Environment Agency, LIDAR data 2011 - 2015 License



- Dashboard

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Catalogue

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nejc.dougan@gmail.com ND

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Clear filters(1)

<input type="checkbox"/>	Name	Tags	Size	Owner	Created	Type	Status	Delete at	
<input type="checkbox"/>	Slovenia - Export selection to app - Contours (Flai class.)		48,05 MB	CLI user	Today at 15:03	point cloud	🟢	15. Nov 2024	🔗 📄 📄 📄 🗑
<input type="checkbox"/>	Slovenia - Export selection to app - Hillshade (Flai class.)		48,03 MB	CLI user	Today at 15:01	point cloud	🟢	15. Nov 2024	🔗 📄 📄 📄 🗑
<input type="checkbox"/>	Slovenia - Export selection to app - Forestry flow with Classifier - Forestry FlaiNet		48,05 MB	CLI user	Today at 15:00	point cloud	🟢	15. Nov 2024	🔗 📄 📄 📄 🗑
<input type="checkbox"/>	Slovenia - Export selection to app - Classifier - Aerial Mapping FlaiNet		48,05 MB	CLI user	Today at 15:00	point cloud	🟢	15. Nov 2024	🔗 📄 📄 📄 🗑
<input type="checkbox"/>	Slovenia - Export selection to app		38,81 MB	Nejc Dougan	Today at 14:51	point cloud	🟢	15. Nov 2024	🔗 📄 📄 📄 🗑
<input type="checkbox"/>	Slovenia - Export selection to app		38,81 MB	Nejc Dougan	Today at 14:50	point cloud	🟢	15. Nov 2024	🔗 📄 📄 📄 🗑
<input type="checkbox"/>	Slovenia - Export selection to app		38,81 MB	Nejc Dougan	Today at 14:50	point cloud	🟢	15. Nov 2024	🔗 📄 📄 📄 🗑
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<input type="checkbox"/>	Slovenia - Export selection to app		17,74 MB	Nejc Dougan	5. Oct 2024	point cloud	🟢	4. Nov 2024	🔗 📄 📄 📄 🗑

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Documentation

Support

Got any questions? I'm happy to help.



Download is being prepared

Dear Nejc Dougan

We are preparing the files for download. Once the files are prepared, you will receive an email with the download link.

Additionally, you can download the files in the [Download](#) tab once they are prepared.

Kind regards,

Flai team

OK



- Dashboard
- Projects
- Catalogue
- FlaiHub
- AI models
- AI learning point
- Downloads
- Flai CLI

Projects > Data Hub > Create flow

Create new flow

Flow name *

Demo

Price is indicative; final amount may vary.

283	2.83 €	10.51 €/km²	0h 1min 4s	3585 / 2000000
Proc. units	Price	Price per km²	Execution time	Used / bundle processing units

Description

vecto

Reader 2

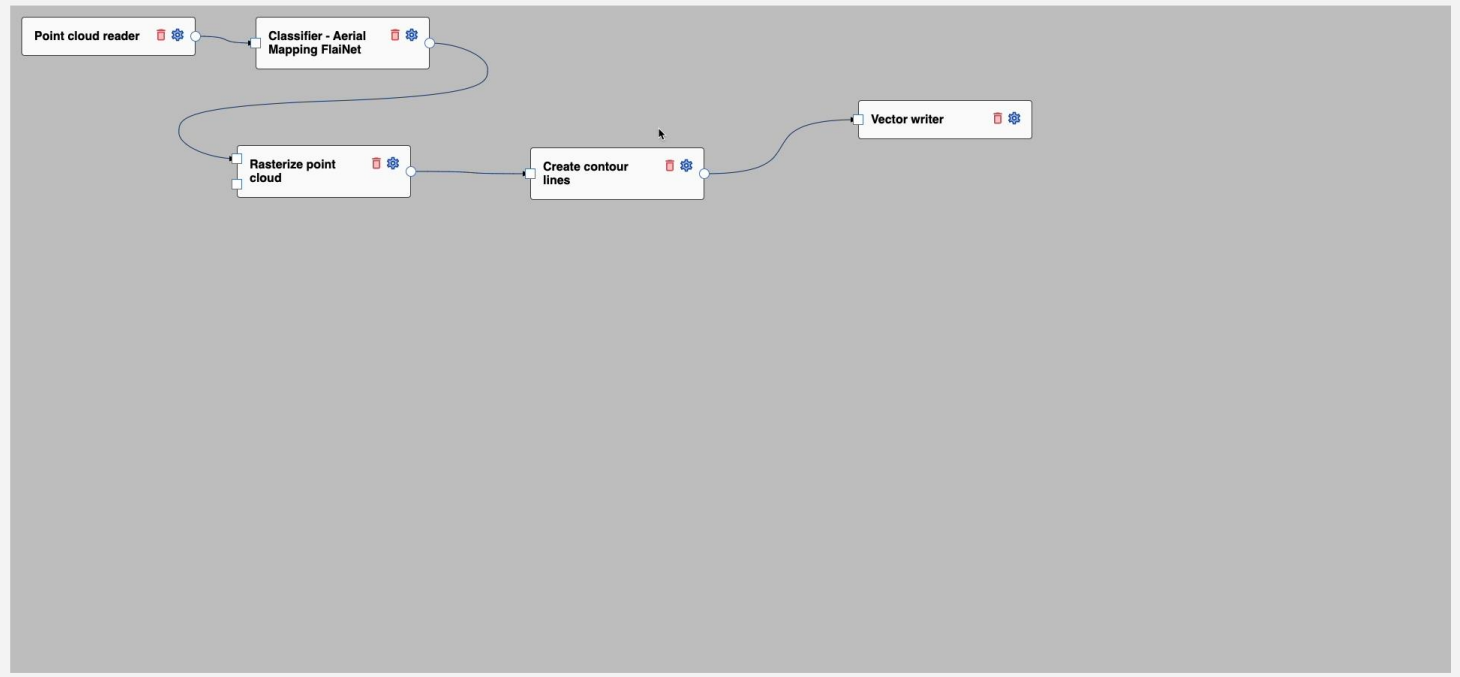
- Local vector reader
- Vector reader

Processor 6

- Clip point cloud by vector polygon
- Extend 3D point towards raster and create vector
- Mask point cloud by vector polygon
- Vectorize linear objects
- Vectorize objects in point cloud
- Vectorize water bodies (simple)

Writer 2

- Local vector writer
- Vector writer



Documentation

Support

Select flow template

Save as template Save Save and

FlaiHub omogoča enostavni dostop do podatkov in analiz oblakov točk s pomočjo umetne inteligence.



Vidi

Dostop in pregled velikih lidar podatkovnih zbirk.



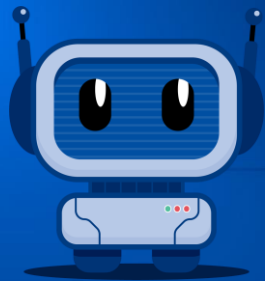
Obdelaj

Avtomatizirane obdelave s pomočje umetne inteligence.



Inoviraj

Uporabi izdelke za izdelavo novih produktov.



flai

Let the AI do the work!

FLAI

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info@flai.ai

flai