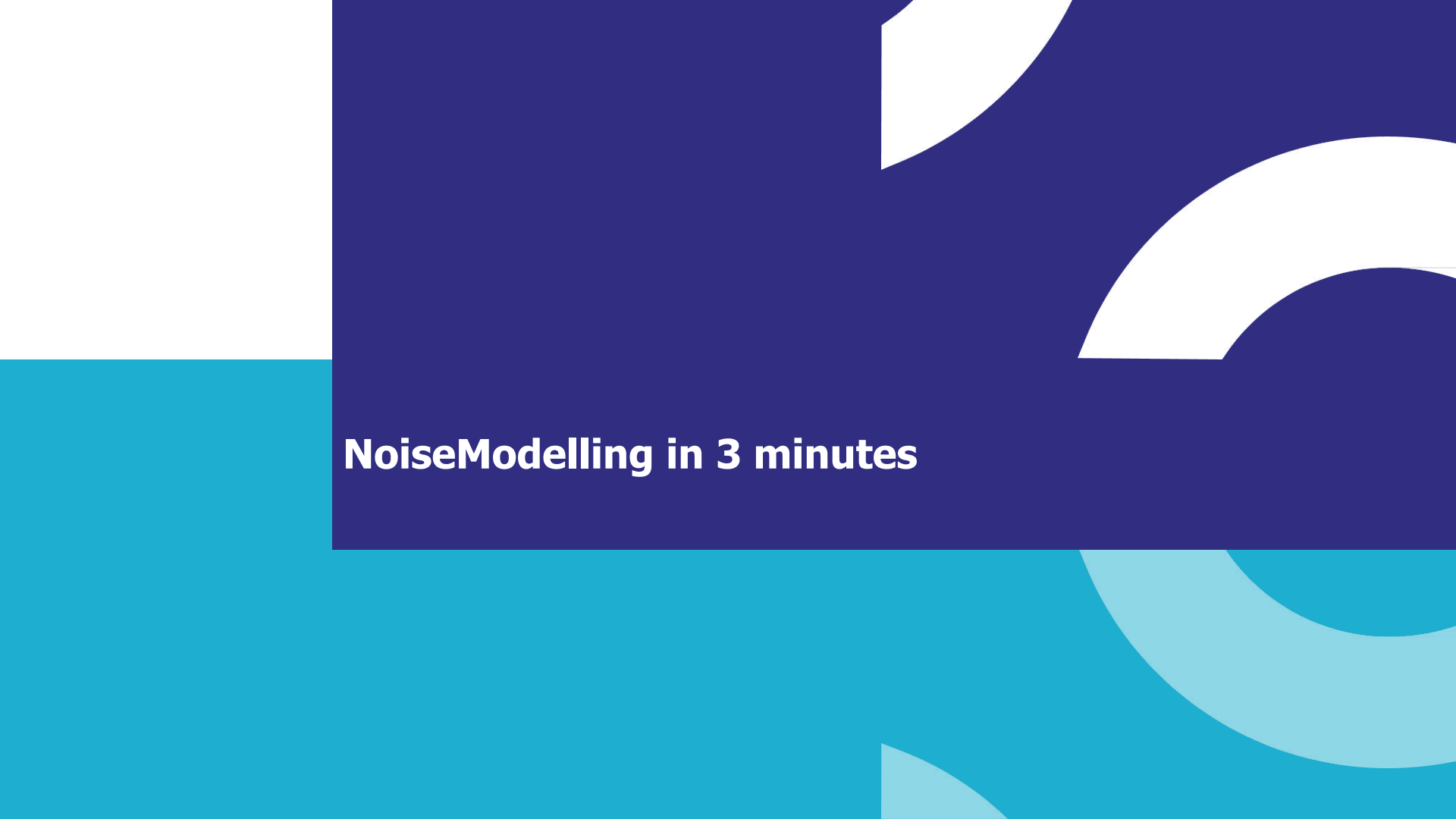
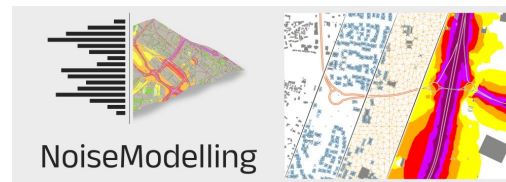




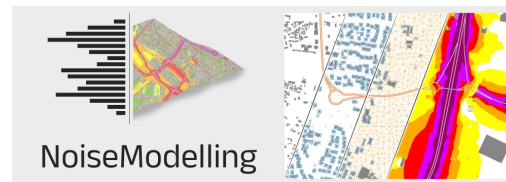
NoiseModelling in 3 minutes

NoiseMapping tool



- Since 2010
- Implement CNOSSOS-EU method
- Road, railway, and “industrial” sound sources
- From local to national scale
- By and mainly for research
- Not a concurrent of NMS (support, user interface...)

Open-Source tool



- Open-science initiative (GPLv3)
 - reproducibility
 - transparency
 - traceability

Allowed :

- Commercial use
- Modification
- Redistribution
- Selling services based on the software
- Using in your own company

Not allowed :

- Closing the source
- Adding extra license restrictions
- Mixing with incompatible licenses
- Distributing without full source code
- Preventing user from modifying on devices (anti-Tivoization)

Github distributed

<https://github.com/Universite-Gustave-Eiffel/NoiseModelling/>

NoiseModellingPublic

main20 Branches36 Tags

Go to file

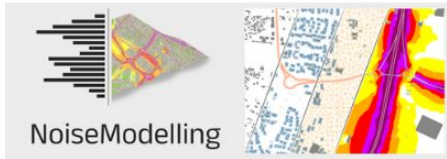
Add fileCode

gpetit Merge pull request #807 from gpetit/assimilationDoc5Sa9d72c · yesterday3,036 Commits

.github	Update CI.yml	last month
Docs	Update documentation	yesterday
Licenses	Update license-GPL.txt	8 years ago
noisemodelling-emission	Merge pull request #777 from Adrien-lb/Fix_HeightDirec...	last month
noisemodelling-jdbc	Update DefaultCutPlaneProcessing.java	3 months ago
noisemodelling-pathfinder	[maven-release-plugin] prepare for next development it...	3 months ago
noisemodelling-propagation	[maven-release-plugin] prepare for next development it...	3 months ago
noisemodelling-tutorial-01	About #765 add conformity ratio	2 months ago
wps_scripts	Merge pull request #786 from MaguetteD/DataAssimil...	3 weeks ago
wpsbuilder	improve groovy	4 months ago
.gitignore	secret gradle.properties at account folder not project fol...	3 months ago
.readthedocs.yaml	Merge branch 'main' into 5.X	5 months ago
CODE_OF_CONDUCT.md	Create CODE_OF_CONDUCT.md	6 years ago
LICENSE	Create License	6 years ago
README.md	Update README.md	2 weeks ago
nbactions.xml	Add main for independent plugin.	14 years ago
pom.xml	fix pom for next release	3 months ago
preparation.sh	Few fixes.	4 years ago

READMECode of conductGPL-3.0 license

CIpassingLicenseGPLv3Docspassingreleasev5.0.0



NoiseModelling

NoiseModelling

NoiseModelling is a library capable of producing noise maps. It can be freely used either for research and education, as well as by companies in a professional use.

About

A open-source model to compute noise maps.

[noisemodelling.readthedocs.io/](#)

java

research

gis

pathfinding

pathfinder

noise

modelling

propagation

acoustics

sound-propagation

cnossos-eu

noise-modelling

noise-propagation

Readme

GPL-3.0 license

Code of conduct

Activity

Custom properties

173 stars

43 watching

80 forks

Report repository

Releases31

NoiseModelling v5.0.0Lateston Mar 21

+ 30 releases

Packages

No packages published

Publish your first package

Contributors22

+ 8 contributors

Deployments52

github-pages yesterday

+ 51 deployments

Languages

java63.4%

Groovy33.7%

CSS2.1%

JavaScript0.4%

HTML0.2%

Shell0.1%

Batchfile0.1%

NoiseModelling website and documentation

Website :

<https://noise-planet.org/noisemodelling.html>

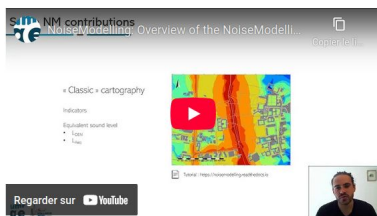


👁 Visionner 43 🍴 Fork 80 📄 Issue 92 📄 Télécharger

NoiseModelling is a free and open-source tool designed to produce environmental noise maps on very large urban areas. It can be used as a Java library or be controlled through a user friendly web interface.

NoiseModelling is closely paired with the spatial database **H2GIS** or **PostGIS** in order to handle a large amount of spatial features. In addition to the operational aspect, this tool is an excellent support for training, teaching and research.

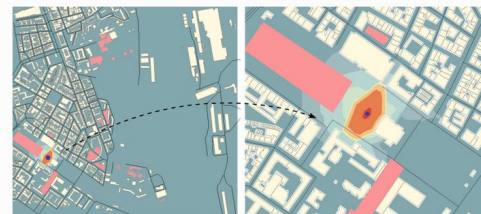
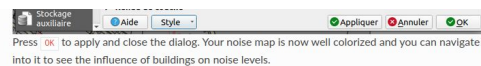
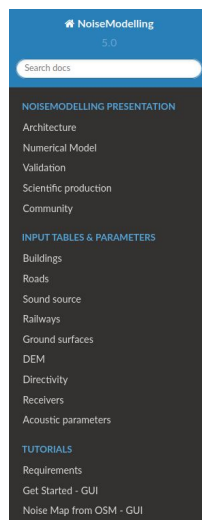
NoiseModelling video presentation



To see more videos about NoiseModelling, please have a look to this [dedicated playlist](#) on our YouTube channel.

Documentation :

<https://noisemodelling.readthedocs.io/en/latest/>



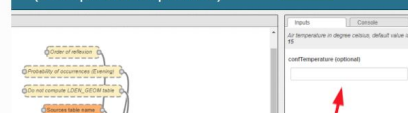
Step 4: Change the default parameters

To produce this noise map, we used, in most of WPS scripts, default parameters (e.g the height of the source, the number of reflections, the air temperature, ...). You are prompted to redo some of the previous steps by changing some of the settings. You will then be able to visually see what impact they have on the final noise map.

Note

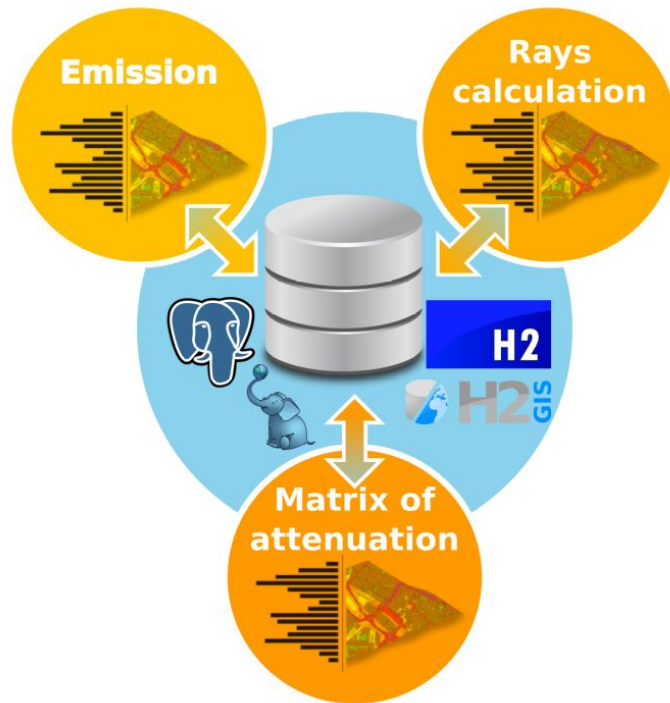
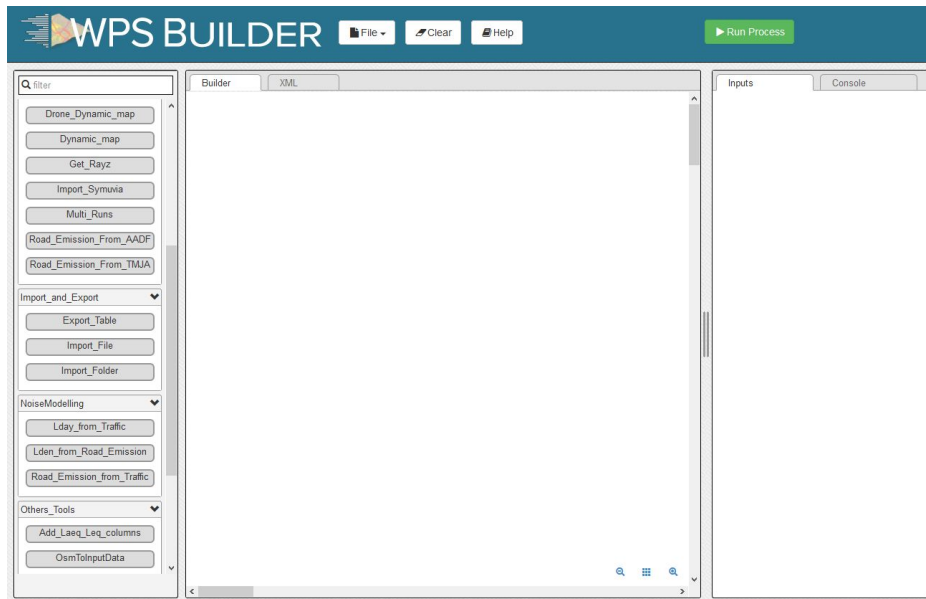
To change optional parameters (the yellow boxes) just select them and fill the needed informations in the right-side menu.

(Example with temperature)



NoiseModelling

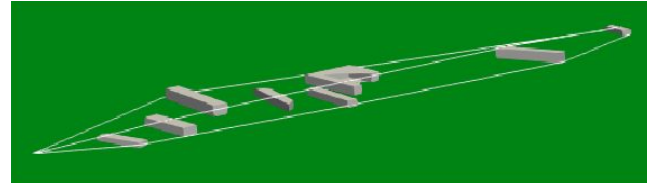
- 4 Java libraries
- Direct connection to GIS databases
- User Interface or control via scripts (groovy, python, etc.)



NoiseModelling in detail (see tomorrow !)

- CNOSSOS EU (Road & Rail)
- Large scale / robustness
- Meso-center / HPC calculation
- Unit tests / regressions (ISO/TR 17534 - 4:2020)
- ...

Some use cases (see tomorrow !)



Some key figures



- ~12,000 release downloads
- ~8 downloads/day
- 20 unique visits/day on GitHub page
- 172 GitHub stars
- ~230,000 lines of code
- 22 contributors

Universities & Research Institutes :

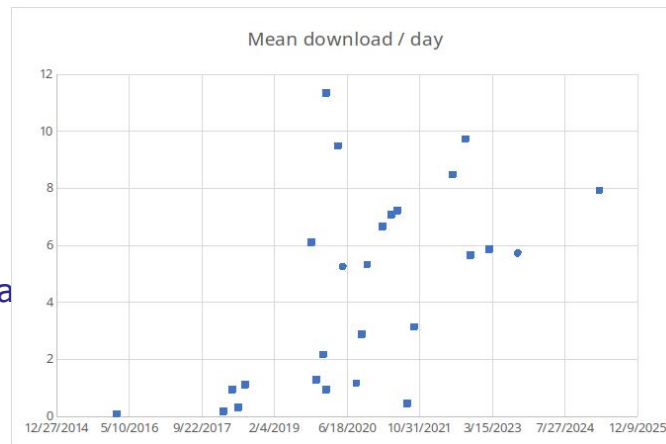
- KTH Royal, Utrecht University, Université de Sherbrooke (Canada), Groupe WAVES (Université de Gand - Belgique), Dipartimento di Ingegneria Civile/DICIV (Università di Salerne - Italie), HFT Stuttgart University of Applied Science, ONERA...

5 private companies

- Neovya, Quiet Places Ltd, Airbus, Orbiwise et Archimethod...

Public institutes :

- Centre National d'Incendie et de Secours - CNIS (Luxembourg), CEDEX, CEREMA...



HRISK with NoiseModelling : ~10 downloads/day

NoiseModelling Technical Committee



Pierre
Acoustician
Researcher



Nicolas
Main dev.



Gwendall
GIS expert
Documentation



Arnaud
Acoustician
Researcher



Valentin
Acoustician
MatSim enthusiast



Judicaël
Founder
OpenResearch

 **Mattermost** & 1 half day meeting / trimester

NoiseModelling Technical Committee



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Judicaël
Founder
OpenResearch

 **Mattermost** & 1 half day meeting / trimester

But not a Univ. Eiffel tool! We lead, but open-source = own to the community

You can join!

How to contribute in FLOSS (NoiseModelling)?

Code

1. Bug reports (Issues, github tab)
2. Upstream your code
3. Bug fixes
4. Implement new features
5. Be a core developer

Community

1. Tell to community !
2. Open discussions (Discussions, github tab)
3. Contribute to discussions
4. Participate to NM Days
5. Help NM Days organisation
6. Propose documentation (e.g. video)
7. Be an ambassador

Coordination (mattermost)

1. Join the technical committee meetings
2. Join the technical committee

Help to fund the projects

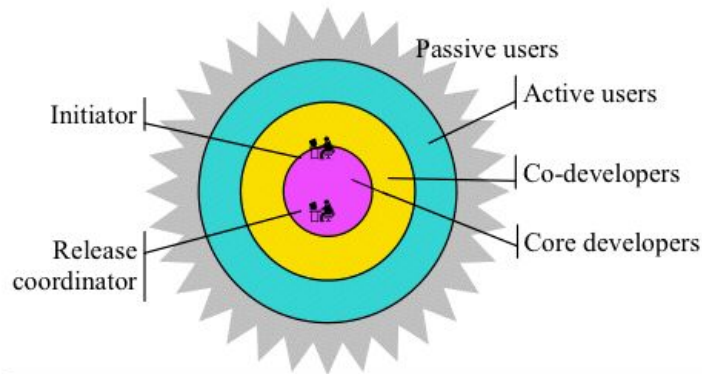
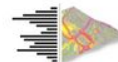


Figure 1: A synthesised FLOSS development team structure.

How to conserve
a normal distribution
with large standard deviation !

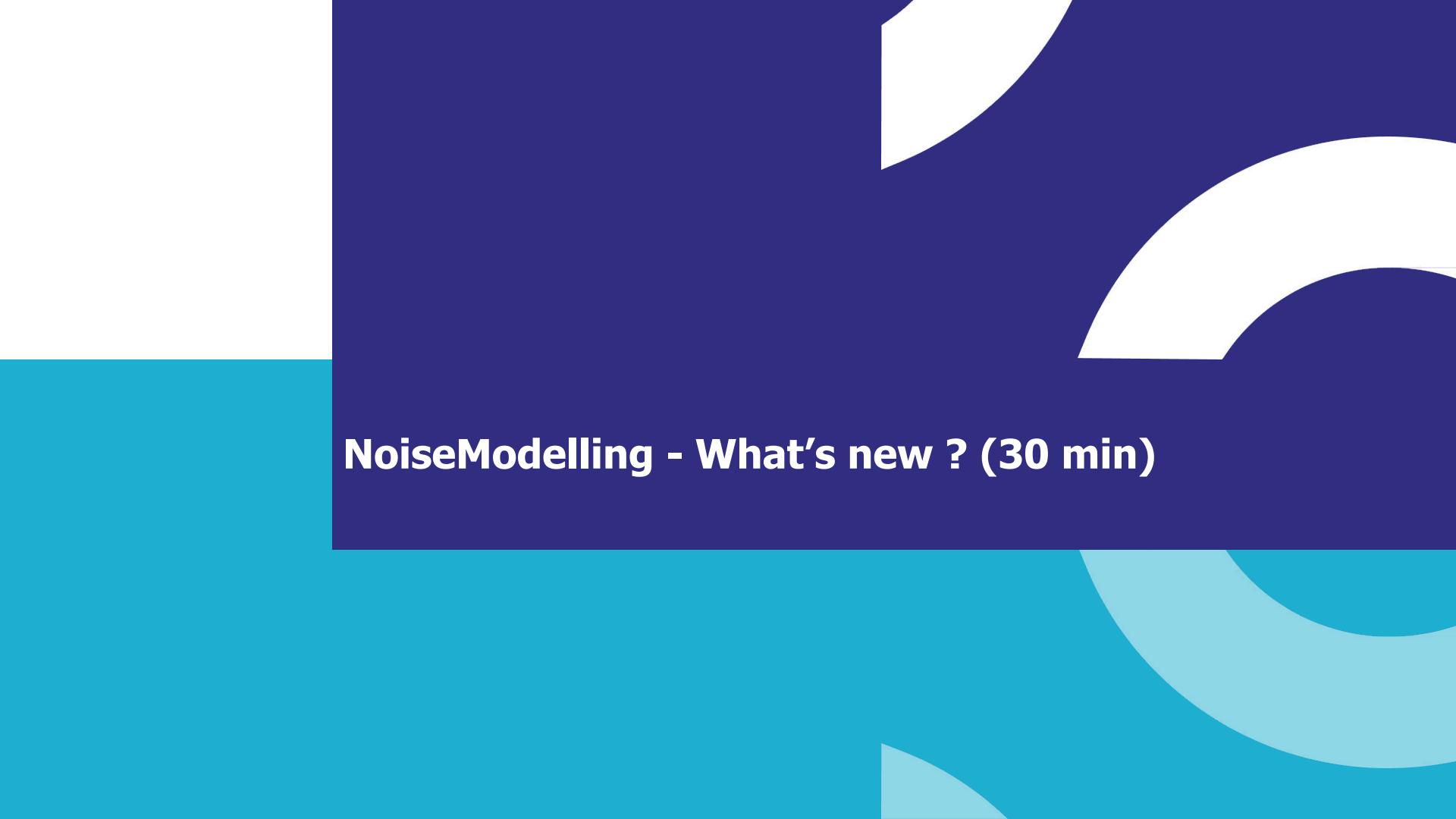


Day 1 (June 26th 2025)

French, UTC+2	Type	Title	First speaker	Affiliation(s)
15h00 - 15h15		Welcome coffee		
15h15 - 15h30	Presentation	Introduction	NoiseModelling Team	
15h30 - 15h50	Presentation	Open Research in acoustics : The Noise-Planet & UMRAE experience	Judicaël Picaut	UMRAE, Univ Gustave Eiffel, Cerema
15h50 - 16h30	Presentation	Toward a collaborative room acoustics simulation software community	Maarten Hornikx	Eindhoven University of Technology
16h30 - 16h45		Break		
16h45 - 17h05	Presentation	Open source data & software for noise and vibration modelling in the Netherlands	Arnaud Kok, Rob Van Loon	National Institute for Public Health and the Environment
17h05 - 17h25	Presentation	Code_TYMPAN™ software for calculating industrial noise in the environment 	Thibaud Thérint	EDF
17h25 - 17h35	Presentation	CNOSSOS EU & Open source	Pierre Aumond	UMRAE, Univ Gustave Eiffel, Cerema
17h35 - ...		Brainstorm Open Research for environmental acoustics		

Day 2 (June 27th 2025)

French, UTC+2	Type	Title	First Speaker	Affiliation(s)
09h00 - 09h30		Welcome coffee		
09h30 - 10h00	Presentation	NoiseModelling - What's new?	Pierre Aumond	UMRAE, Univ Gustave Eiffel, Cerema
10h00 - 10h15	User presentation	LLM-based Multi-agent Framework for Traffic Noise Mapping 	Zhiyong Wang, Yueying Zhang	South China University of Technology
10h15 - 10h30	User presentation	Towards a comprehensive noise assessment in Spain	Ignacio Soto Molina	Spanish ministry of the Environment
10h30 - 10h45	User presentation	Applying EU standards to noise mapping in emerging	Alexandra L. Montenegro	Università di Pisa, ARPAT
10h45 - 11h00	User presentation	Understanding the relation between traffic and noise in urban motorways using UAVs and low-cost sensors 	Oriol Pascual Anglès, Jasso Espadaler Clapés	MobiLysis
11h00 - 11h30	Tutorial	NoiseModelling in action	NoiseModelling team	
11h30 - 12h00		Break (coffee + snacks)		
12h00 - 12h15	User presentation	Data assimilation for dynamic urban noise mapping	Ndeye Maguette Diagne	UMRAE, Univ Gustave Eiffel, Cerema
12h15 - 12h30	User presentation	From road traffic volumes to individual vehicle representation	Yu Gao, Sacha Baclet	UMRAE, KTH Royal Institute of Technology
12h30 - 12h45	User presentation	Synthetic population & NoiseModelling	Valentin Le Bescond	UMRAE, Univ Gustave Eiffel, Cerema
12h45 - 13h00		Break (coffee + snacks)		
13h00 - 13h20	User presentation	NoiseCapture vs NoiseModelling: a test case on Sherbrooke university campus 	Léonor Rimani	Université de Sherbrooke
13h20 - 14h00	Discussion	Whishlist for NoiseModelling Days 2026		



NoiseModelling - What's new ? (30 min)

Thank you !



NoiseModelling Days 2025 - crew members



Pierre
Researcher
Makes things happen



Gwendall
GIS expert
Markdown lover



Valentin
Acoustician
MatSim enjoyer



Sacha
SUMO enjoyer



Maguette
Dev.
Test breaker



Judicaël
Founder
OpenResearch



Ignacio
Spanish Ambassador
CPU killer

More about you



1. Go to <https://www.mentimeter.com/>
2. Enter the 27419542 code to join

Join at menti.com | Use vote code 2741 9542

JOSS publication

Title: “*NoiseModelling: an open-source software for outdoor noise mapping*”

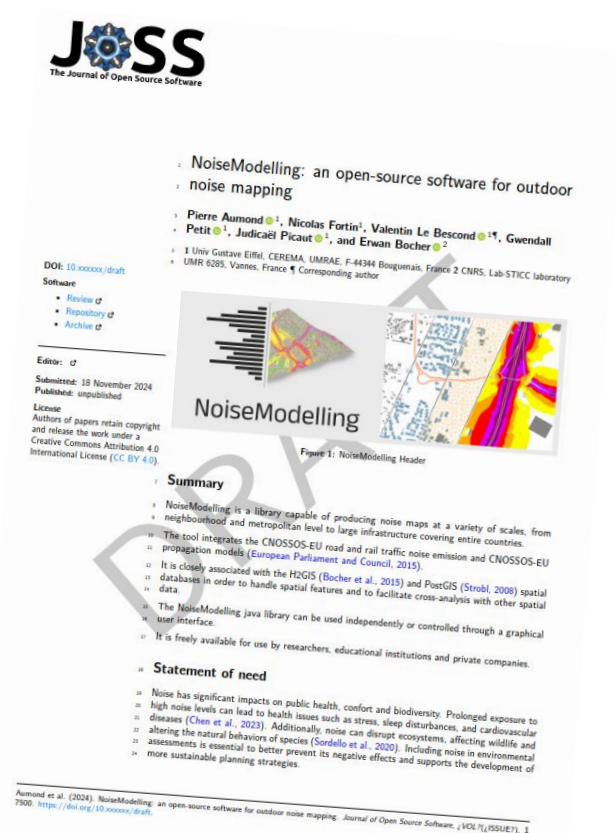
→ Need of an up-to-date reference paper

→ The paper to cite in your article!

→ Research of editor

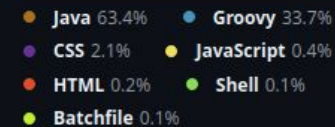
More details:

<https://github.com/openjournals/joss-reviews/issues/7500#issuecomment-3001338833>



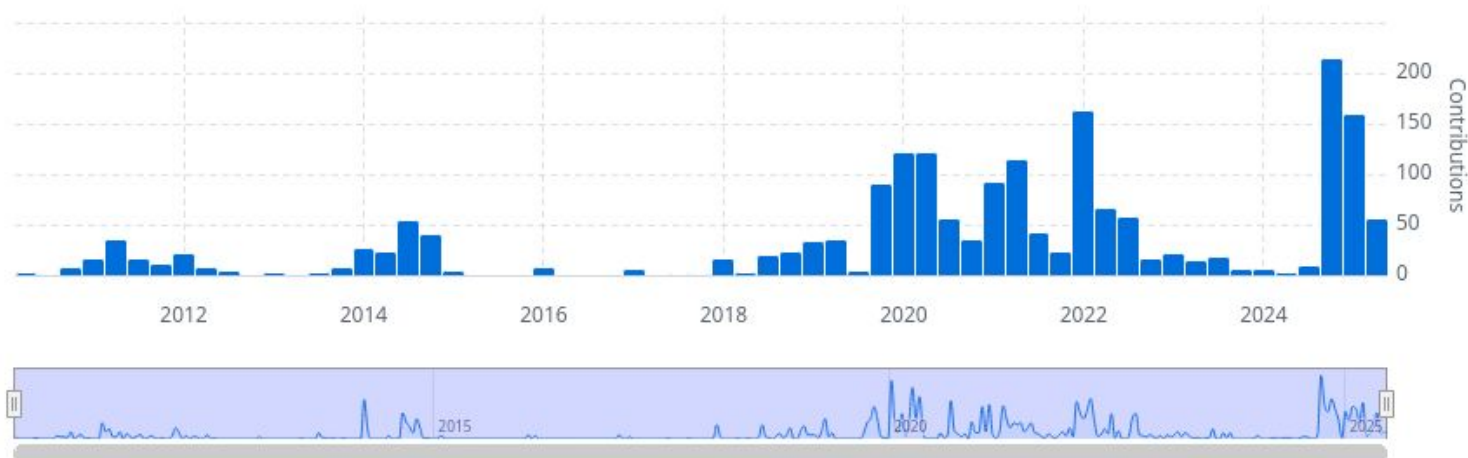
NoiseModelling code

Languages



Commits over time

Weekly from 30 mai 2010 to 22 juin 2025



<https://github.com/Universite-Gustave-Eiffel/NoiseModelling/graphs/contributors>

NoiseModelling achievements since 2023 → From 4.0 to 5.0.1

Move from the standard approach “Day Evening Night” to a more flexible “PERIOD” column, while **maintaining compatibility with previous** source table.

Before:

SOURCE

- PK_SOURCE
- THE_GEOM
- LWD500



After:

SOURCE_GEOM

- PK_SOURCE
- THE_GEOM

SOURCE_EMISSION (optional)

- PK_SOURCE
- PERIOD
- HZ500

NoiseModelling achievements since 2023 → From 4.0 to 5.0.1

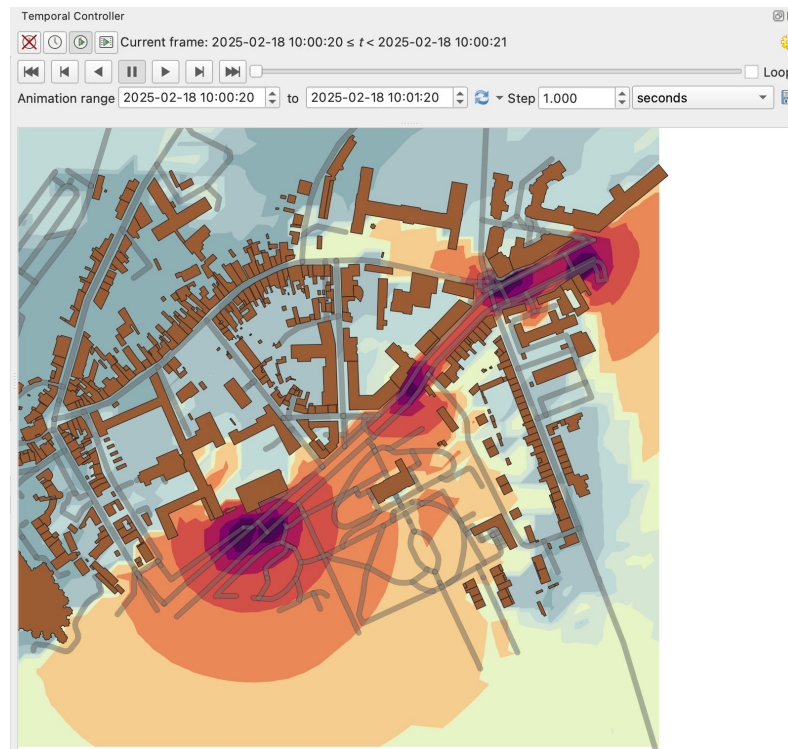
CONTOURING_NOISEMAP

- compatibility with PERIOD column

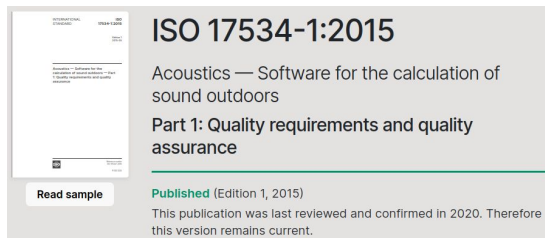
Output contouring for each periods

New dynamic tools and tutorial

- https://noisemodelling.readthedocs.io/en/latest/Dynamic_Tutorial.html



Conformity to ISO 17534-1:2015



Extensive work to bring the code
into line with the standard

Conform

- Do not the deviate more than $\pm 0,1$ dB
- Percentage of conformity : 75% (21/28)

NLD Conform

- Do not the deviate more than $\pm 0,1$ dB neglecting lateral diffraction
- Percentage of conformity : 83% (23/28)

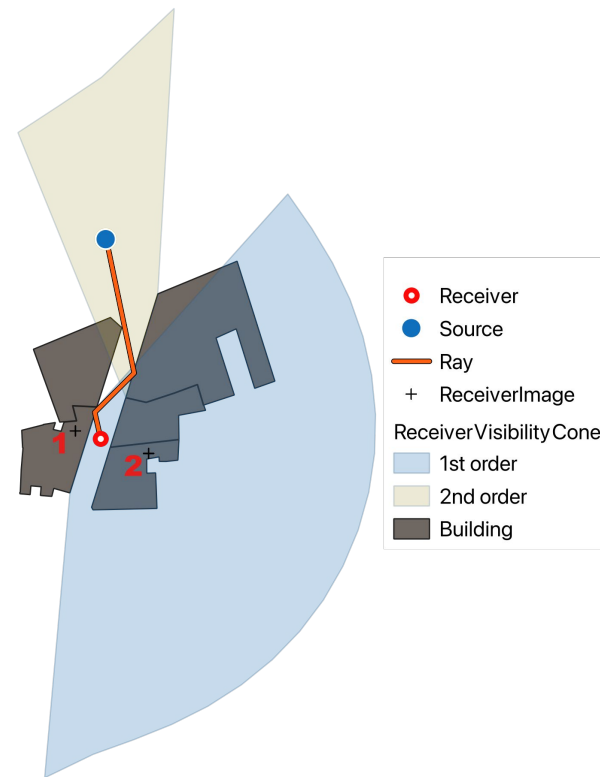
The results in details (automatically updated):

https://noisemodelling.readthedocs.io/en/latest/Cnossos_Report.html

Test Case	Conform ?	NLD Conform ?	Largest Deviation	Details
TC01	☒	☒	0.00 dB @ 2000 Hz	TC01
TC02	☒	☒	0.07 dB @ 1000 Hz	TC02
TC03	☒	☒	0.05 dB @ 500 Hz	TC03
TC04	☒	☒	0.07 dB @ 1000 Hz	TC04
TC05	☒	☒	0.00 dB @ 1000 Hz	TC05
TC06	☒	☒	0.06 dB @ 500 Hz	TC06
TC07	☒	☒	0.02 dB @ 1000 Hz	TC07
TC08	☒	☒	0.02 dB @ 1000 Hz	TC08
TC09	☒	☒	0.01 dB @ 250 Hz	TC09
TC10	☒	☒	0.02 dB @ 250 Hz	TC10
TC11	☒	☒	0.02 dB @ 125 Hz	TC11
TC12	☒	☒	0.04 dB @ 500 Hz	TC12
TC13	☒	☒	0.01 dB @ 500 Hz	TC13
TC14	☒	☒	0.04 dB @ 8000 Hz	TC14
TC15	☒	☒	0.06 dB @ 250 Hz	TC15
TC16	☒	☒	0.00 dB @ 2000 Hz	TC16
TC17	☒	☒	0.05 dB @ 500 Hz	TC17
TC18	☒	☒	0.02 dB @ 500 Hz	TC18

Code refactoring

- Separation of **noise path finding** algorithm with **noise attenuation** computation
- Rewrite of the **path finding** algorithm to **increase** the **performance** and **reliability**
- Precomputation of the visibility cones for each receivers for **fast reflection path** search algorithm
- Classes and packages **renaming** to make **code structure easier to read**



In addition to improving NoiseModelling's performance, this work will be used to integrate Harmonoise Sound Propagation Model

General fixes

In the **code**:

- many small bug fixes or improvements

In the **doc**:

- lot of optimizations, to be more clear (when necessary) and to add new pages

In detail : <https://github.com/Universite-Gustave-Eiffel/NoiseModelling/releases/tag/v5.0.0>

NoiseModelling v5.0.0

Latest

 nicolas-f released this Mar 21 · 102 commits to main since this release · v5.0.0 · 0ca4d00

What's Changed

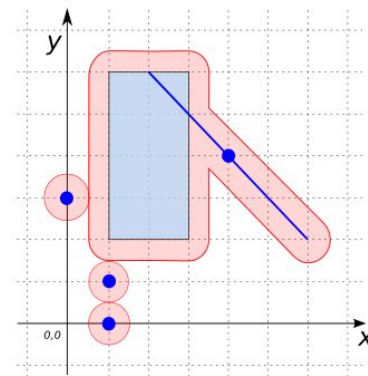
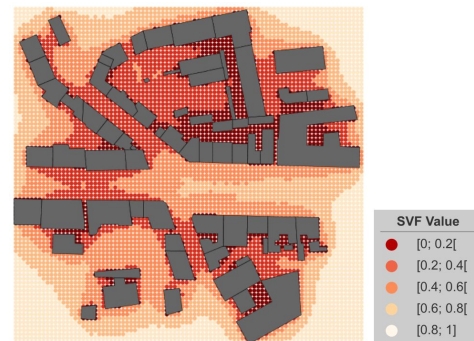
- About [#613](#) handle wrong file extension with a more explicit error by [@nicolas-f](#) in [#614](#)
- Fix matsim exporttraffic by [@YuGaobjtu](#) in [#639](#)
- Issue with database column with long negative values by [@nicolas-f](#) in [#642](#)
- Update Matsim_Tutorial.rst by [@YuGaobjtu](#) in [#643](#)
- Update Matsim_Tutorial.rst by [@nicolas-f](#) in [#644](#)
- check consistency of frequencies between sources and directivity spheres by [@nicolas-f](#) in [#653](#)
- Scientific articles added. by [@MaguetteD](#) in [#680](#)
- Pierromond updaterrailjson by [@pierromond](#) in [#663](#)
- Revert "Update Create_Isosurface.groovy" by [@nicolas-f](#) in [#692](#)
- 5.x acoustic tests by [@MaguetteD](#) in [#685](#)
- 5.x dynamic tools fix by [@pierromond](#) in [#696](#)
- Impact Noise (Railway) debugging by [@Adrien-lb](#) in [#689](#)
- Fix readthedocs build by [@nicolas-f](#) in [#702](#)
- Fix theme readthedocs by [@nicolas-f](#) in [#703](#)
- Fix readthedocs by [@nicolas-f](#) in [#704](#)
- fix readthedocs deployment. by [@nicolas-f](#) in [#711](#)
- Fix path finder by [@nicolas-f](#) in [#714](#)
- Patch osm import by [@nicolas-f](#) in [#721](#)
- Max error skip sources by [@nicolas-f](#) in [#722](#)
- Merge 5.x to main branch by [@MaguetteD](#) in [#695](#)
- Update README.md by [@gpetit](#) in [#699](#)
- Bump jinja2 from 3.1.2 to 3.1.5 in /Docs by [@dependabot](#) in [#717](#)
- Bump requests from 2.28.1 to 2.32.2 in /Docs by [@dependabot](#) in [#710](#)
- Bump idna from 3.3 to 3.7 in /Docs by [@dependabot](#) in [#709](#)

H2GIS

A **standalone** & **lightweight** geospatial database
(spatial extension of the H2 database),
... like PostGIS is for PostgreSQL

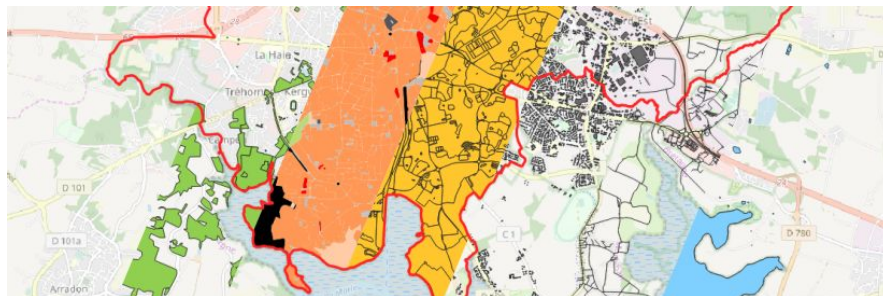
→ The heart of NoiseModelling, used to load, process
and export data

- Made by CNRS
- Open-source (LGPLv3)
- Code : <https://github.com/orbisgis/h2gis>
- Doc : <http://www.h2gis.org/docs/dev/home/>



A geospatial processing toolbox for environmental and climate studies

→ Used to download, format and enrich (with geomorphological indicators, such as estimated building's height) OpenStreetMap data, to feed NoiseModelling



- Made by CNRS / H2GIS team
- Open-source (LGPLv3)
- Code : <https://github.com/orbisgis/geoclimate>
- Doc : <https://geoclimate.readthedocs.io/en/latest/>

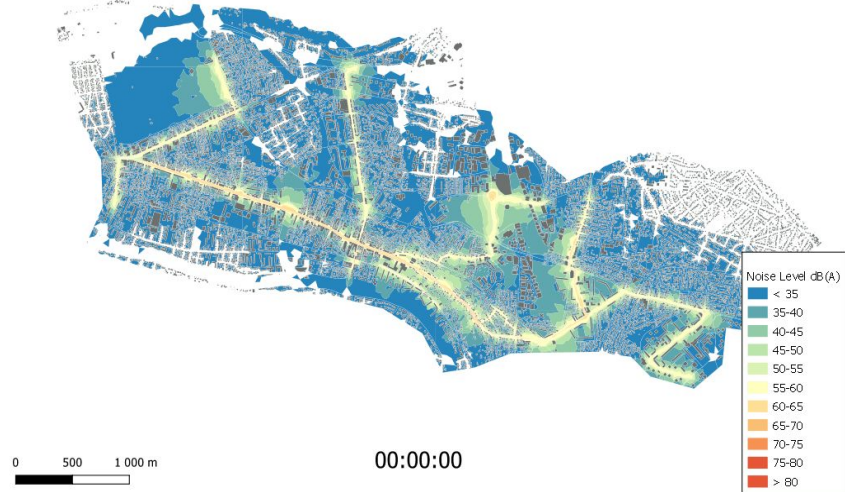
Dynamic Noise Maps (flow traffic)



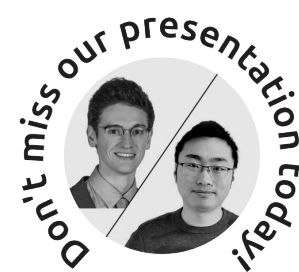
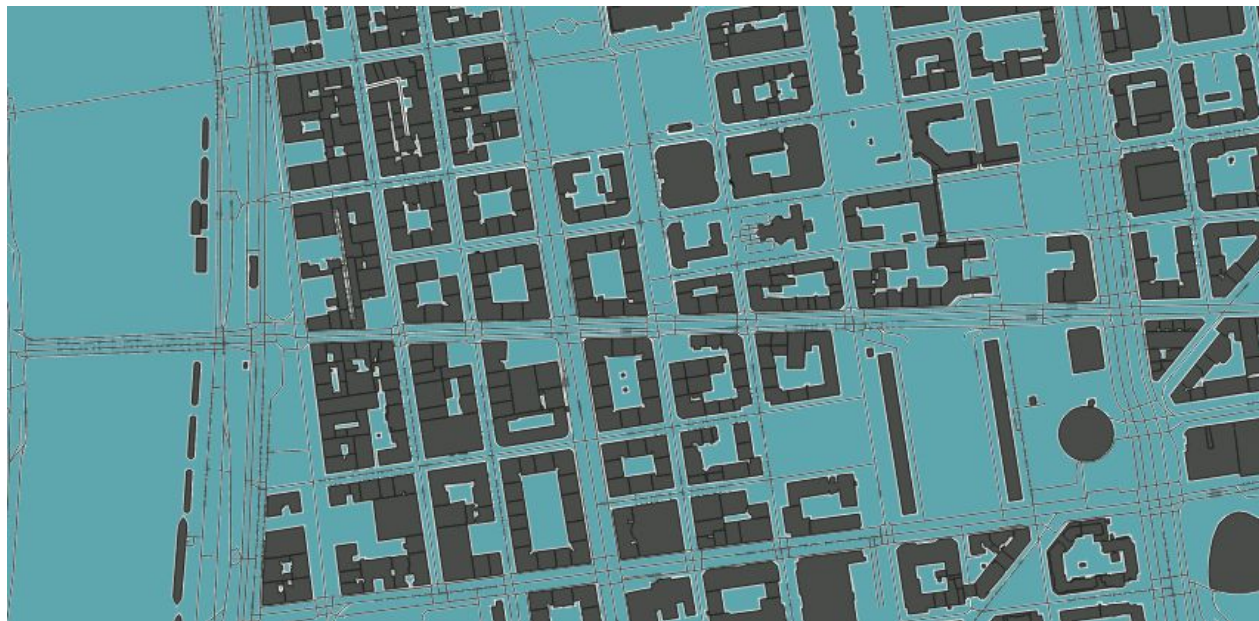
Noise Map of the Construction Site



Noise Map calculated from the MATsim model of Champigny, France



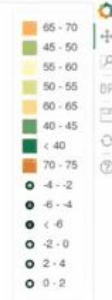
Dynamic Noise Maps (individualized traffic)



Data assimilation

type: Analysis day: 8 month: 2 hour: 0 02:08 03:00

analysis map



New Scientific production page



https://noisemodelling.readthedocs.io/en/latest/Scientific_production.html

Important to get numbers

numbers = visibility

visibility = interest

interest = fundings

fundings = development

dev = research

research = more fun :)

New visibility

Tell us if some articles
are missing!

All

UMRAE

Not UMRAE

Noise Mapping (END)

Traffic dynamics

Other than Traffic noise

Fauna impacts

AI & Surrogates

Data Assimilation

Teaching

Software

1. Cristian-Gabriel Alionte and Daniel-Constantin Comeaga. Noise assessment of the small-scale wind farm. *E3S Web Conf.*, 112:02011, 2019. Publisher: EDP Sciences. URL: https://www.e3s-conferences.org/articles/e3sconf/abs/2019/38/e3sconf_te-re-rd18_02011/e3sconf_te-re-rd18_02011.html (visited on 2025-06-06), doi:10.1051/e3sconf/201911202011.

2. Pierre Aumond, Erwan Bocher, David Ecotiere, Nicolas Fortin, Benoit Gauvreau, Gwenael Guillaume, and Gwendall Petit. Improvement of city noise map production processes and sensitivity analysis to noise models inputs. In *EuroNoise 2021 : 12th European Congress and Exposition on Noise Control Engineering*, 10 p. MADERE, Portugal, October 2021. URL: <https://hal.science/hal-03616731> (visited on 2025-06-10).

3. Pierre Aumond, Arna Can, Vivien Mallet, Benoit Gauvreau, and Gwenaël Guillaume. Global sensitivity analysis for urban noise modelling. In *Proceedings of the 23rd International*

en, Germany, 2019. URL: <https://publications.rwth-aachen.de/urn:nbn:de:hbz:5:1-65848-p0101-9>, doi:10.18154/RWTH-CONV-239314.

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Developer documentation

New Javadoc, automatically generated from documentation written in the source code → <https://universite-gustave-eiffel.github.io/NoiseModelling/javadoc/>

OVERVIEW PACKAGE CLASS USE TREE DEPRECATED INDEX HELP

ALL CLASSES

noisemodelling-parent 5.0.1-SNAPSHOT API

Packages

Package

org.noise_planet.nmtutorial01
org.noise_planet.noisemodelling.emission
org.noise_planet.noisemodelling.emission.directivity
org.noise_planet.noisemodelling.emission.directivity.cnossos
org.noise_planet.noisemodelling.emission.railway
org.noise_planet.noisemodelling.emission.railway.cnossos
org.noise_planet.noisemodelling.emission.railway.nmpb
org.noise_planet.noisemodelling.emission.railway.schall03
org.noise_planet.noisemodelling.emission.road.cnossos
org.noise_planet.noisemodelling.emission.road.cnossosvar
org.noise_planet.noisemodelling.emission.utils
org.noise_planet.noisemodelling.jdbc
org.noise_planet.noisemodelling.jdbc.input
org.noise_planet.noisemodelling.jdbc.output
org.noise_planet.noisemodelling.jdbc.railway
org.noise_planet.noisemodelling.jdbc.utils
org.noise_planet.noisemodelling.pathfinder
org.noise_planet.noisemodelling.pathfinder.delaunay
org.noise_planet.noisemodelling.pathfinder.path
org.noise_planet.noisemodelling.pathfinder.profilebuilder
org.noise_planet.noisemodelling.pathfinder.utils
org.noise_planet.noisemodelling.pathfinder.utils.documents
org.noise_planet.noisemodelling.pathfinder.utils.geometry
org.noise_planet.noisemodelling.pathfinder.utils.profiler
org.noise_planet.noisemodelling.propagation
org.noise_planet.noisemodelling.propagation.cnossos

OVERVIEW PACKAGE CLASS USE TREE DEPRECATED INDEX HELP

ALL CLASSES

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OVERVIEW PACKAGE CLASS USE TREE DEPRECATED INDEX HELP

ALL CLASSES

SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD

SEARCH:

Package org.noise_planet.noisemodelling.emission

Class LineSource

java.lang.Object
org.noise_planet.noisemodelling.emission.LineSource

public class **LineSource**
extends Object

Line Source Class A point source is define by its spectrum, height, directivity and type (optional)

Author:

Pierre Aumond, Université Gustave Eiffel

Field Summary

Fields

Modifier and Type	Field	Description
String	directivity	
double	sourceHeight	
String	typeSource	

Constructor Summary

Constructors

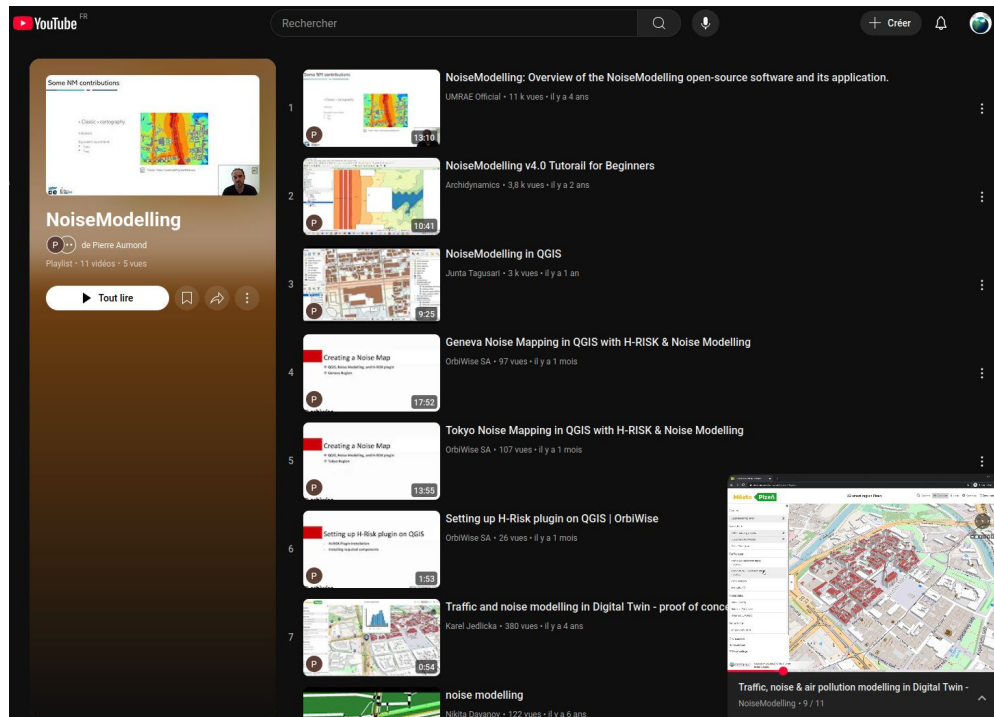
Constructor	Description
LineSource(double[] lw, double sourceHeight, String typeSource)	
LineSource(double sourceHeight, String typeSource)	
LineSource(String typeSource)	

Method Summary

All Methods	Instance Methods	Concrete Methods
Modifier and Type	Method	Description
String	getDirectivity()	

NoiseModelling YouTube playlist

→ <https://www.youtube.com/playlist?list=PLIZraYcEigE8aOrpk7ythCM3ygSuhkVjO>



If you know any videos that could be included, please let us know!

How to contribute?

Code

1. Bug reports
2. Upstream your code
3. Bug fixes
4. Implement new features
5. Be a core developer

Community

1. Tell to community !
2. Open discussions
3. Contribute to discussions
4. Participate to NM Days
5. Help NM Days organisation
6. Propose documentation (e.g. video)
7. Be an ambassador

Coordination

1. Join the technical committee meetings
2. Join the technical committee

Help to fund the projects

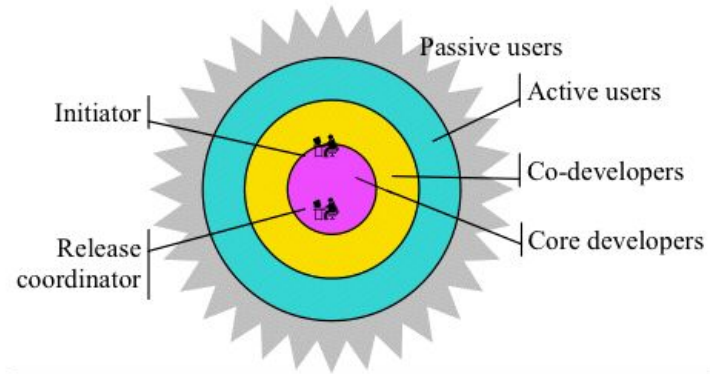


Figure 1: A synthesised FLOSS development team structure.

How to conserve
a normal distribution
with large standard deviation !

NoiseModelling Days 2025

NoiseModelling team

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FORUM ACUSTICUM
EURONOISE 2025