

DATA CYCLES, FEEDBACK FROM THE FIELD

— Jean-Charles Simonin, ENEO



Digital agency for Nature discovery

- Explorama : a treasure hunt app to discover Nature
- Spipoll : collaborative science project to collect data on insects
- Foxtrot : Green itinerary generator for Orleans city area



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Maximize your contact with Nature

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2 main sources of data

- OpenStreetMap Data



- footpaths, cyclepaths, roads, reduce mobility access...

- Wide spread
- Community based
- Standardized
- Documented

- Orleans Metropole Data



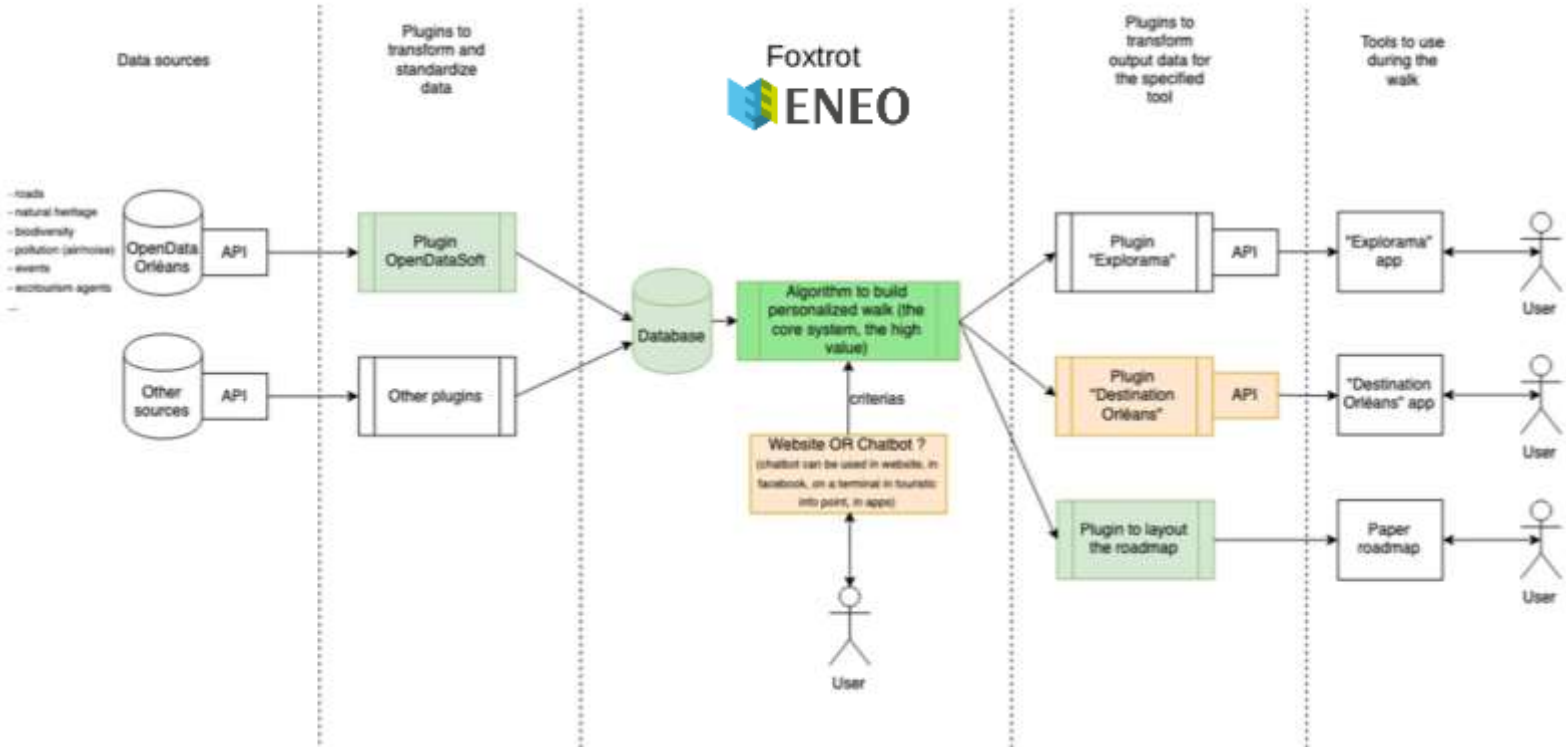
ORLÉANS DATA
METROPOLE

- trees, parks, known walks, heatmap, noisemap...

- Added value
- Many partners involved
- OpenDataSoft based
- Data quality not quite there yet

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Foxtrot schema



Aggregate data → run algorithm → outputs

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Process steps

- Extract roads network



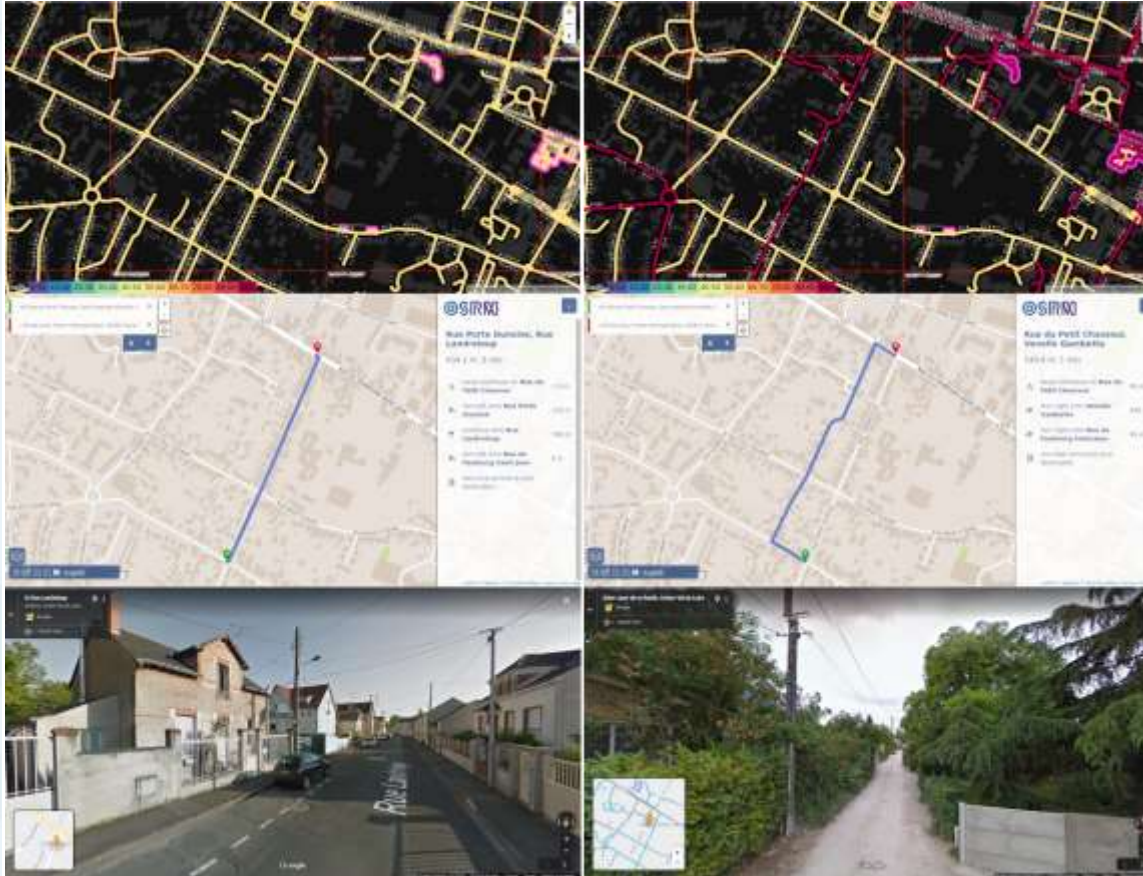
- Apply **weights**

Parks
Water areas
Trees
Noise
Bench
Playground
Scrubs



Shortest path

« Greenest » path





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Issues

Technical and format issues for spatial data

- coordinates: lon-lat \longleftrightarrow lat-lon
- projections: meters \longleftrightarrow degrees
- format: geojson \neq json
- warning : point \neq polygons \neq linestrings

Availability issues

- new datasets has the project is running.
- some datasets aimed at professional but lack of relevant information for wide audience

Advice: Docker is fire !

- Build complex and stable architecture quickly
- Automate data download and process \rightarrow replicability, ease update



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Next steps

For you

- Open-source
- Made for replicability in other areas
- Open to external request through REST API

For us

- Generate itinerary data
- Learn about users habits, profiles
- Extend usage to involve new partners like tourism, local farmers...