State of the Map 2019

Integrating and validating open data in OSM using street pictures

September, 23th 2019
OPEN DATA

Qualitative... or Messy?
OPENSTREETMAP

Rich attribute model

No guaranty on exhaustivity
STREET PICTURES

- Geolocated
- Many details
How to combine all of this to get best of both worlds?
THE IDEAL PROCESS
PIC4REVIEW!

https://pic4review.pavie.info/
https://framagit.org/Pic4Carto/Pic4Review
Is this crossing accessible using a wheelchair?
CREATE YOUR OWN MISSIONS

From a template

CREATE YOUR OWN MISSIONS

From a template
CREATE YOUR OWN MISSIONS

From scratch

Open data & OSM?

Pic4Review

Data integration

Outlooks

11/22
CONTRIBUTING MODES

Complete existing OSM data

Import from open data
DATA SOURCES

Open data available in Osmose

Mapillary feature detections
DATA EXAMPLES

- Fire hydrants
- Street lights
- Manholes
- Traffic signs
- Power stations

- Post boxes
- Bicycle parkings
- Disabled parkings
- Recycling containers
- ...
LIVE DEMO!

Power substations in Val de Loire (France)

https://pic4review.pavie.info/#/mission/786/review
STATISTICS

• 2800 fire hydrants
  Added or improved worldwide

• 11400 pedestrian crossings
  Added or improved worldwide

• 740 power substations
  Added or improved in France
LET’S GO FURTHER

• Extend to all open datasets
  - Convert original attributes into OSM tags?
  - Use semantic web?
  - Direct exports from open data portals into OSM XML format?
LET’S GO FURTHER

- Improve data before publishing
  - Pic4Review for internal uses?
  - Store improved data into closed databases?
HELP US BUILD A BETTER TOOL

- Translation
- User feedbacks
- Development / design
CONCLUSION

- Get the best of open data & OpenStreetMap
- Pictures make data verifiable
- Start of an amazing data journey!
Quality is never an accident. It is always the result of intelligent effort.

John Ruskin (writer, painter)
THANKS!

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