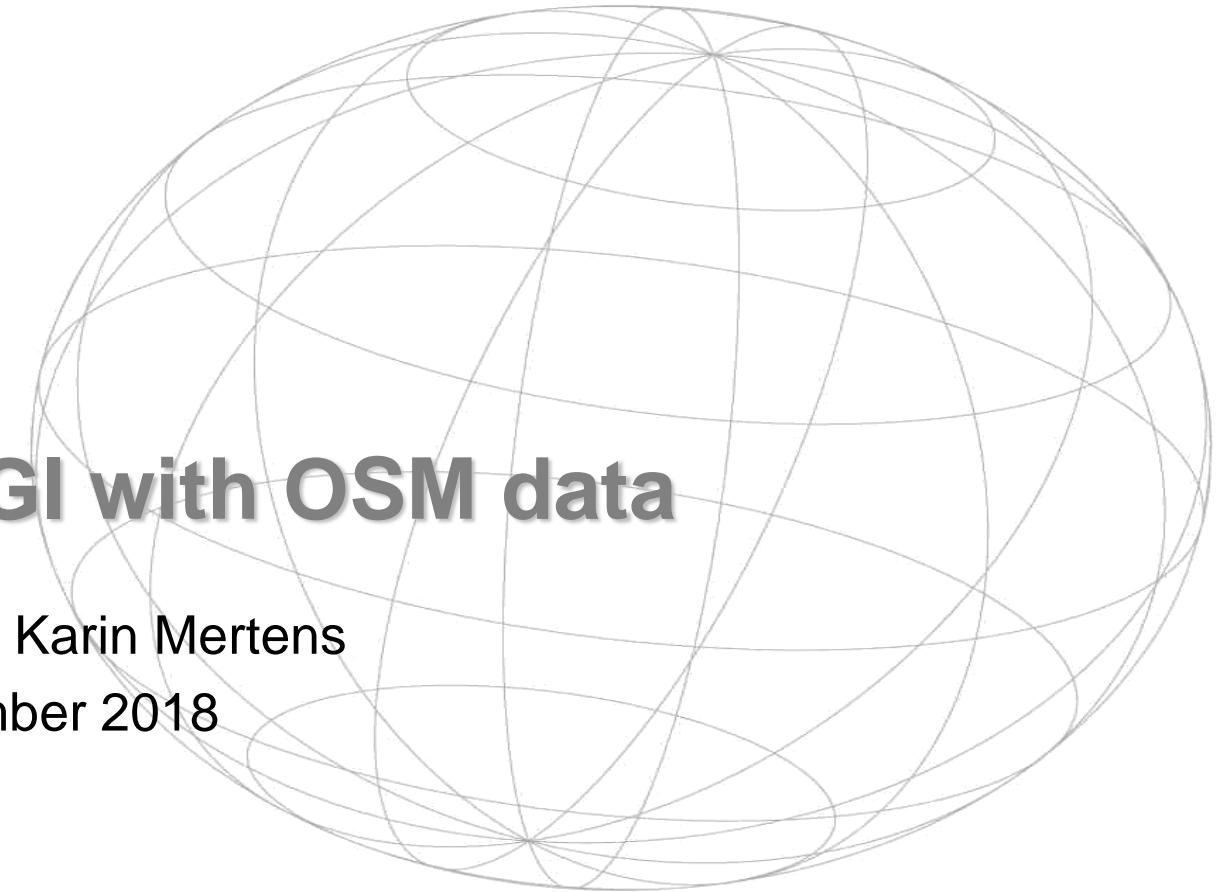


# Comparison of NGI with OSM data

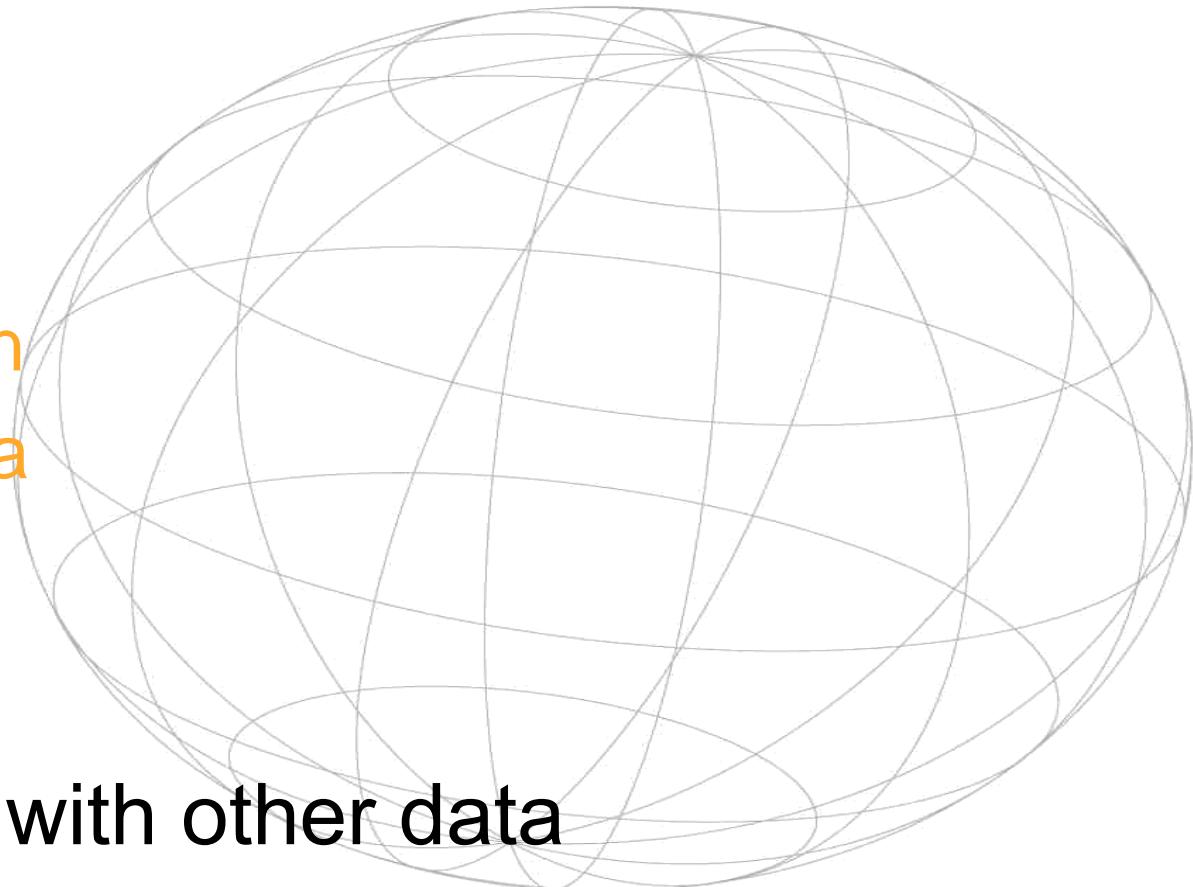
Michel Baltus, Karin Mertens

4 December 2018



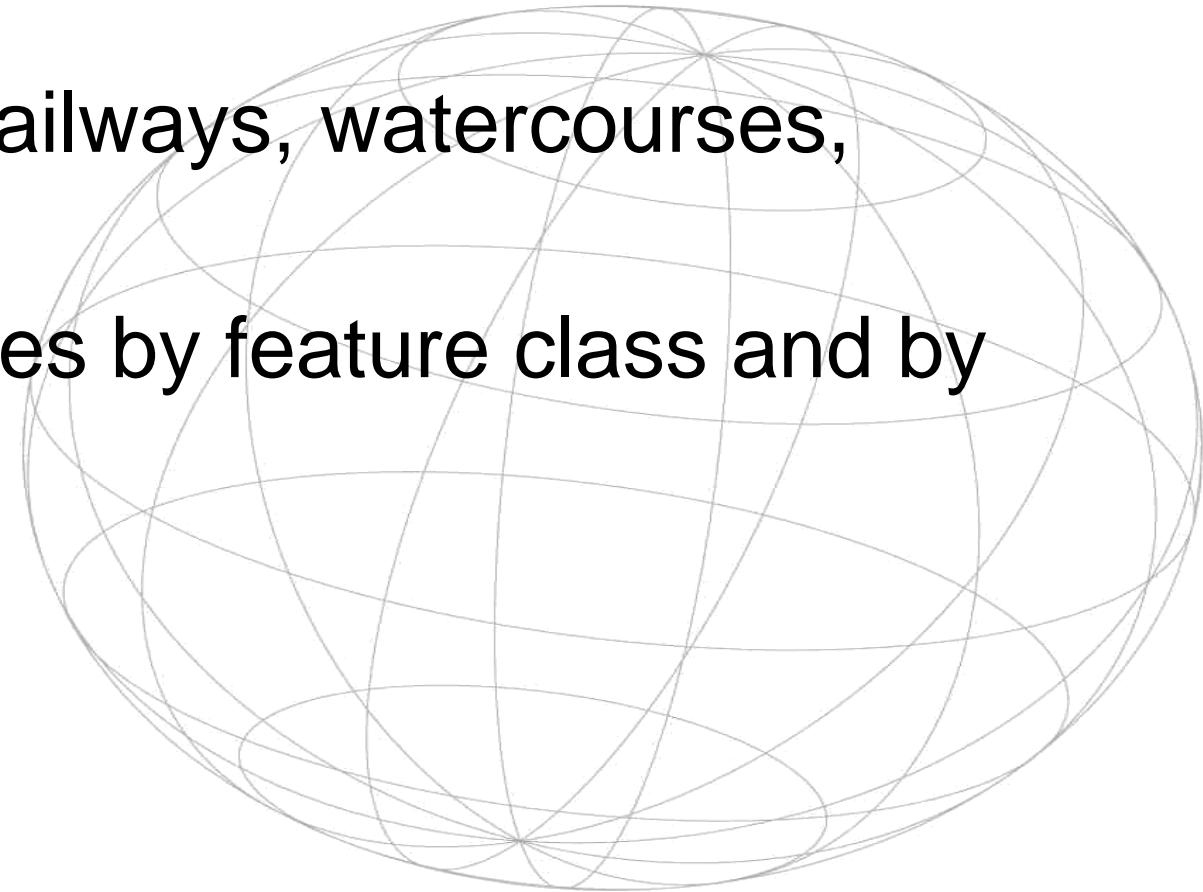
# Introduction

- Quality assessment
- Field survey
  - 127 zones of 100ha
  - Capturing actual terrain situation
  - Using out 1:10k selection criteria
- Actual quality of our data
- Test our QC processes
- Compare “neutrally” NGI data with other data

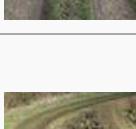


# Method used

- 9 zones of 100ha
- 6 feature classes (Buildings, railways, watercourses, roads/dirtroads, paths)
- Calculated lengths and surfaces by feature class and by QC test



# Combining Roads and Dirtroads

tracktype	grade1	<input checked="" type="checkbox"/>	Solid. Usually a paved or sealed surface. See <a href="#">W Sealed road</a> .		
tracktype	grade2	<input checked="" type="checkbox"/>	Solid. Usually an unpaved track with surface of gravel. See <a href="#">W Gravel road</a> .		
tracktype	grade3	<input checked="" type="checkbox"/>	Mostly solid. Even mixture of hard and soft materials. Almost always an unpaved track.		
tracktype	grade4	<input checked="" type="checkbox"/>	Mostly soft. Almost always an unpaved track prominently with soil/sand/grass, but with some hard or compacted materials mixed in.		
tracktype	grade5	<input checked="" type="checkbox"/>	Soft. Almost always an unpaved track lacking additional materials, same surface as surrounding terrain.		
tracktype	<no value>	<input checked="" type="checkbox"/>	<i>If no tracktype tag is present, the track is rendered with a dot-dash line style (as shown right).</i>		<i>Photo not applicable</i>

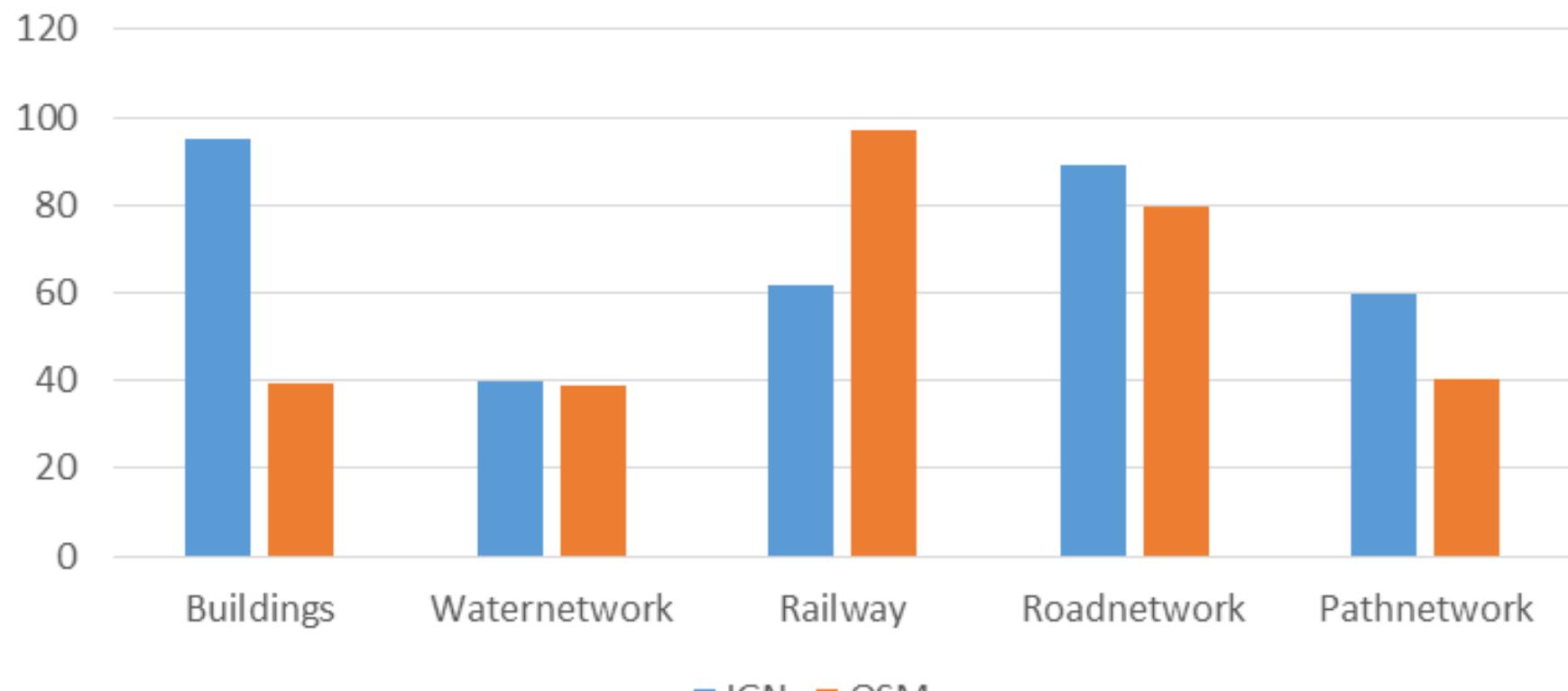
NGI Roads

NGI Dirtroads

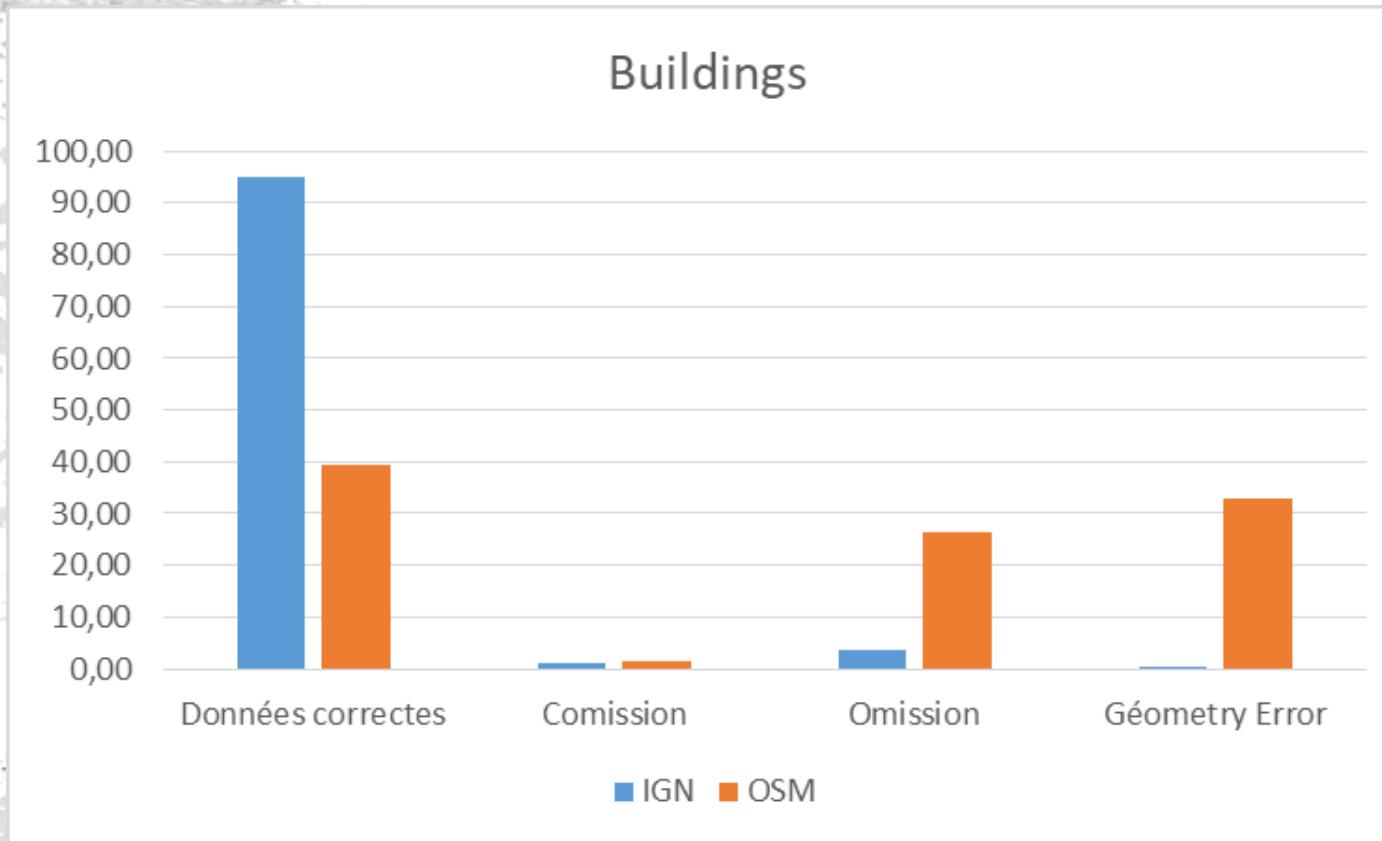


# General Results

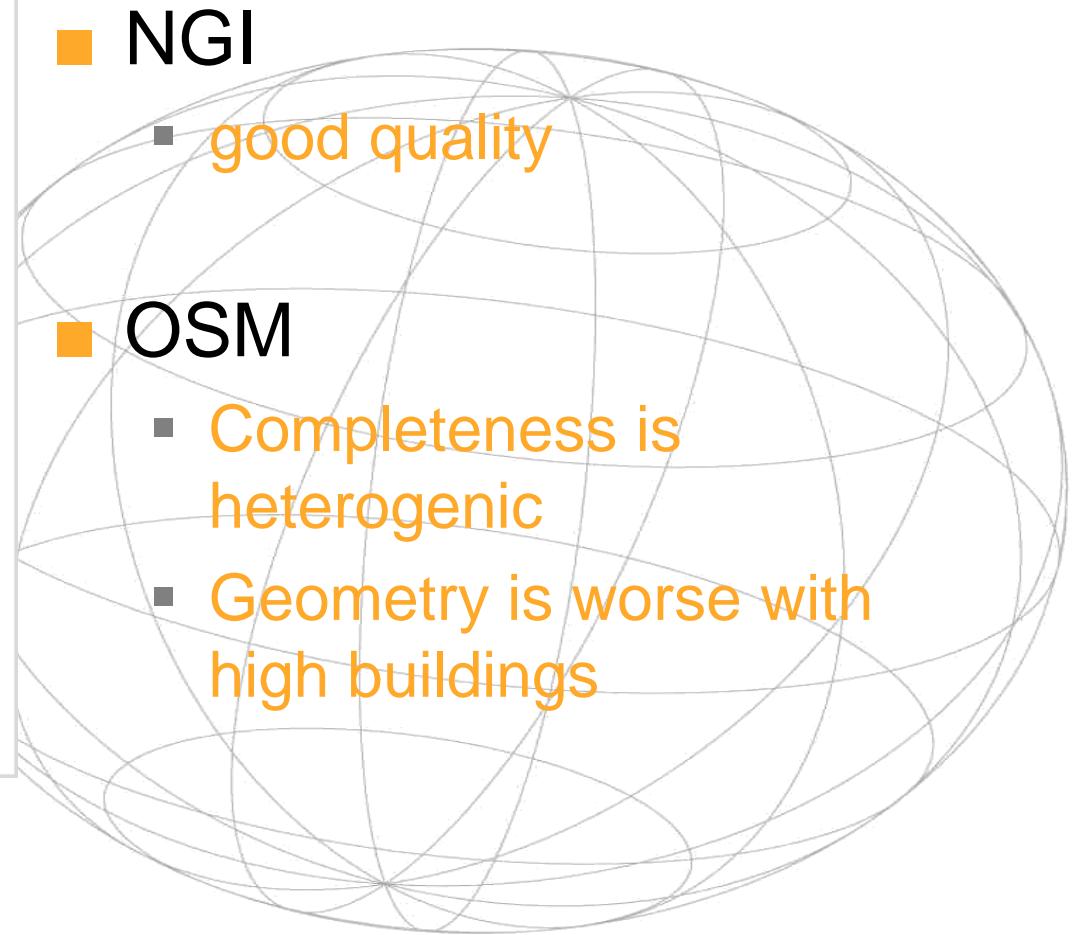
Données correctes présentes dans les bases de données



# Buildings

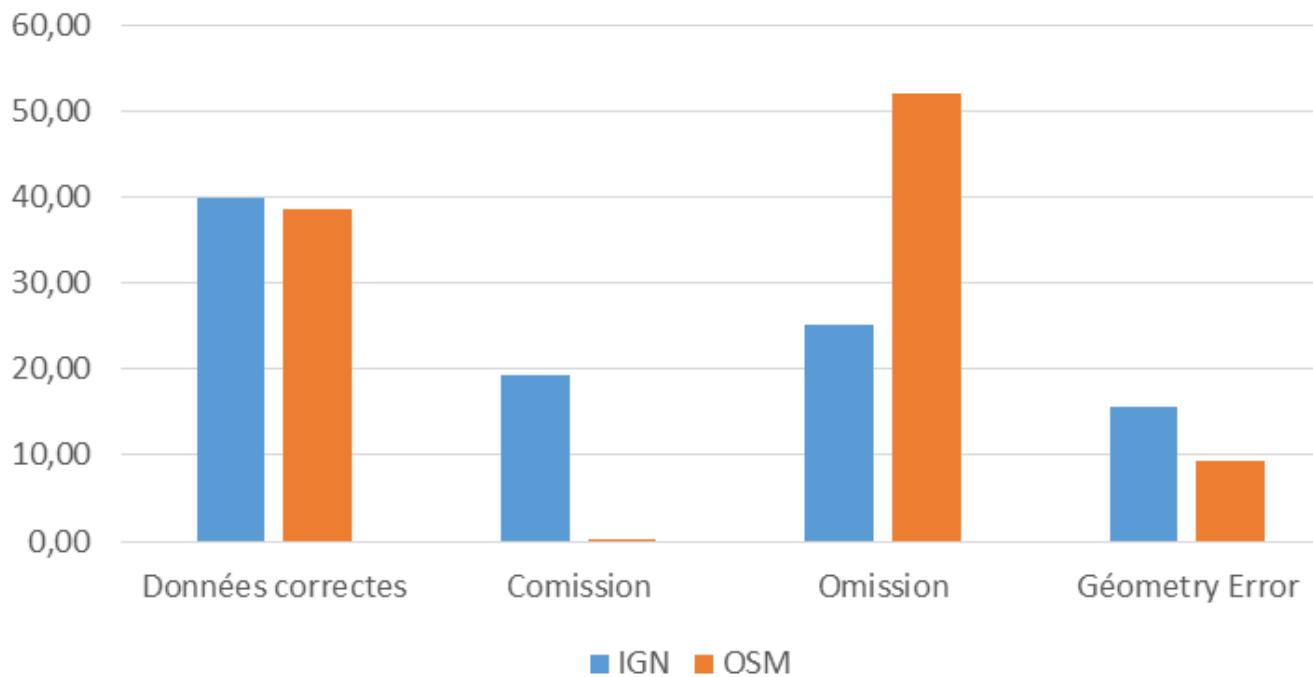


Correct buildings: geometry  $x,y < 5m$  off, shape is correct



# Hydrographic Network

Réseau hydrographique



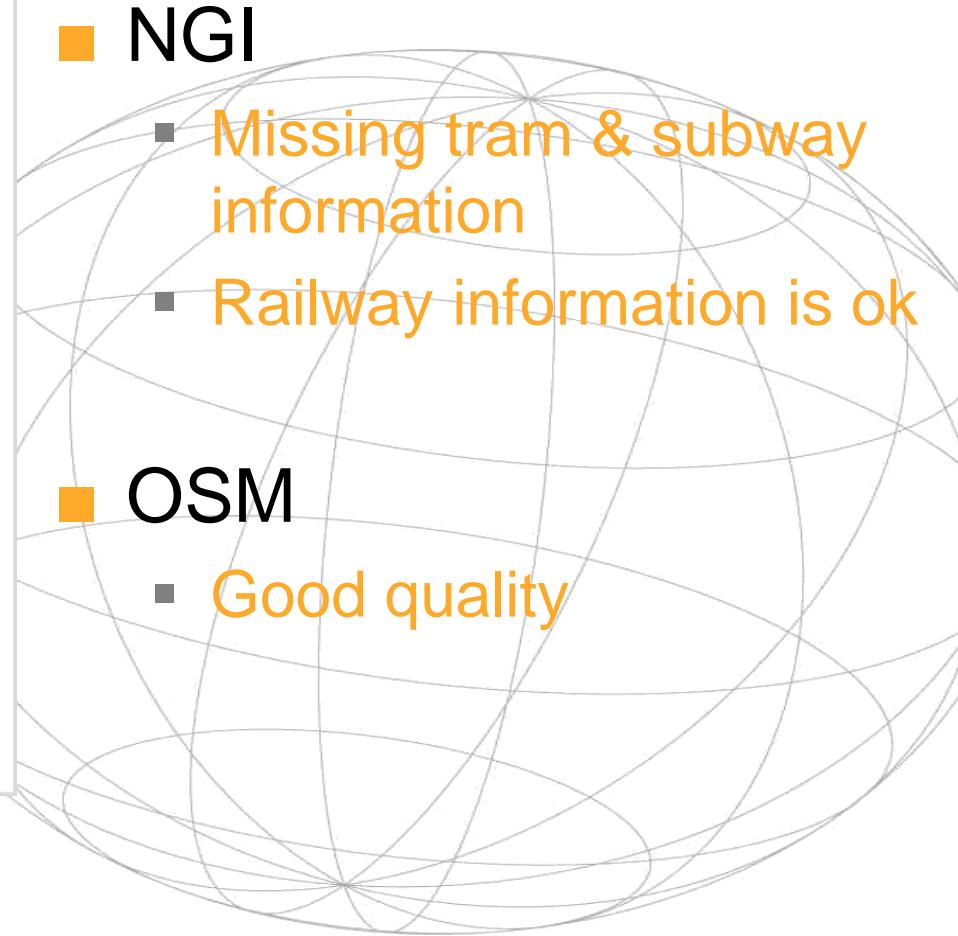
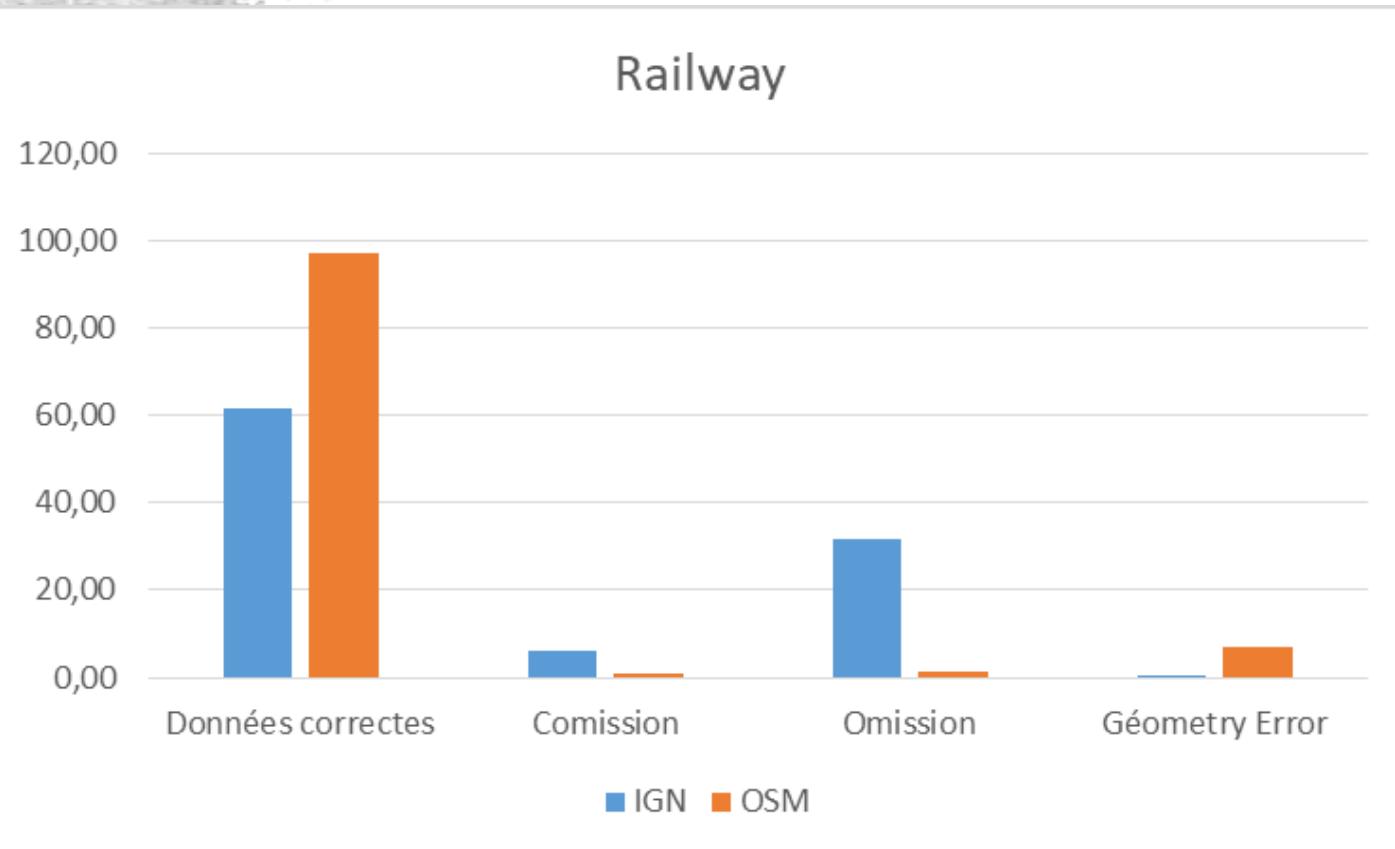
## ■ NGI

- Old hydrographical data
- Selection rules has been changed
- DTM 1m is present

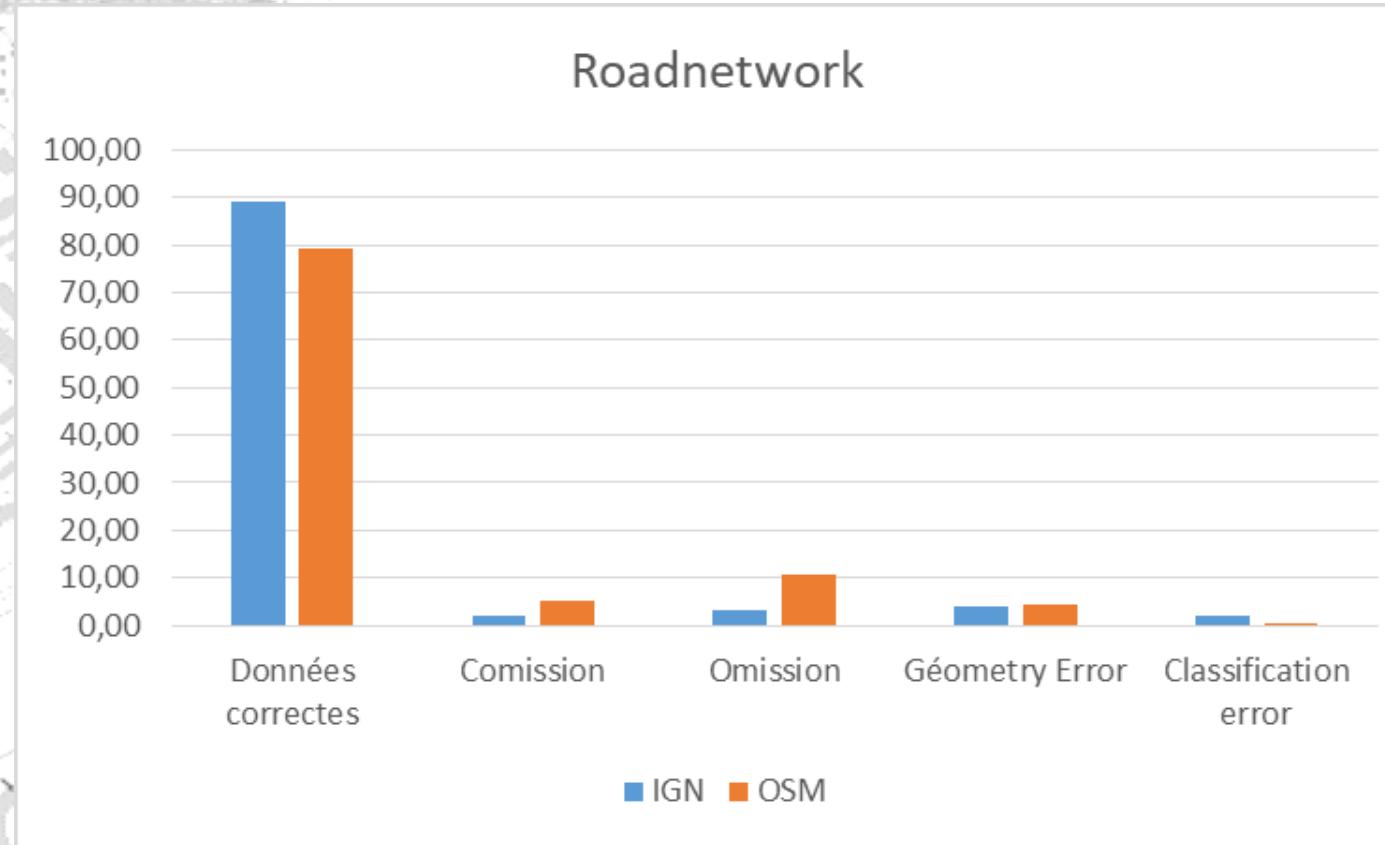
## ■ OSM

- High omissions – Low commissions
- Zones with 100% omissions
- Better geometry results

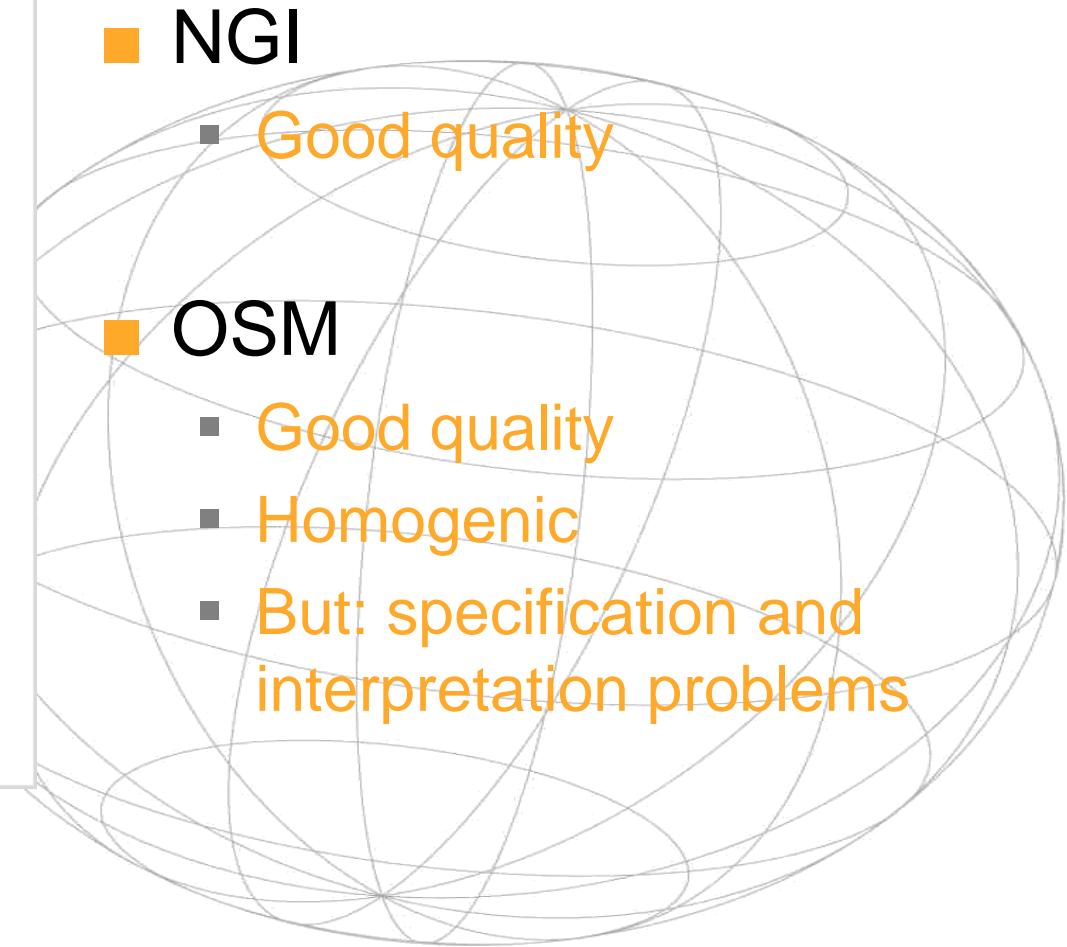
# Railway



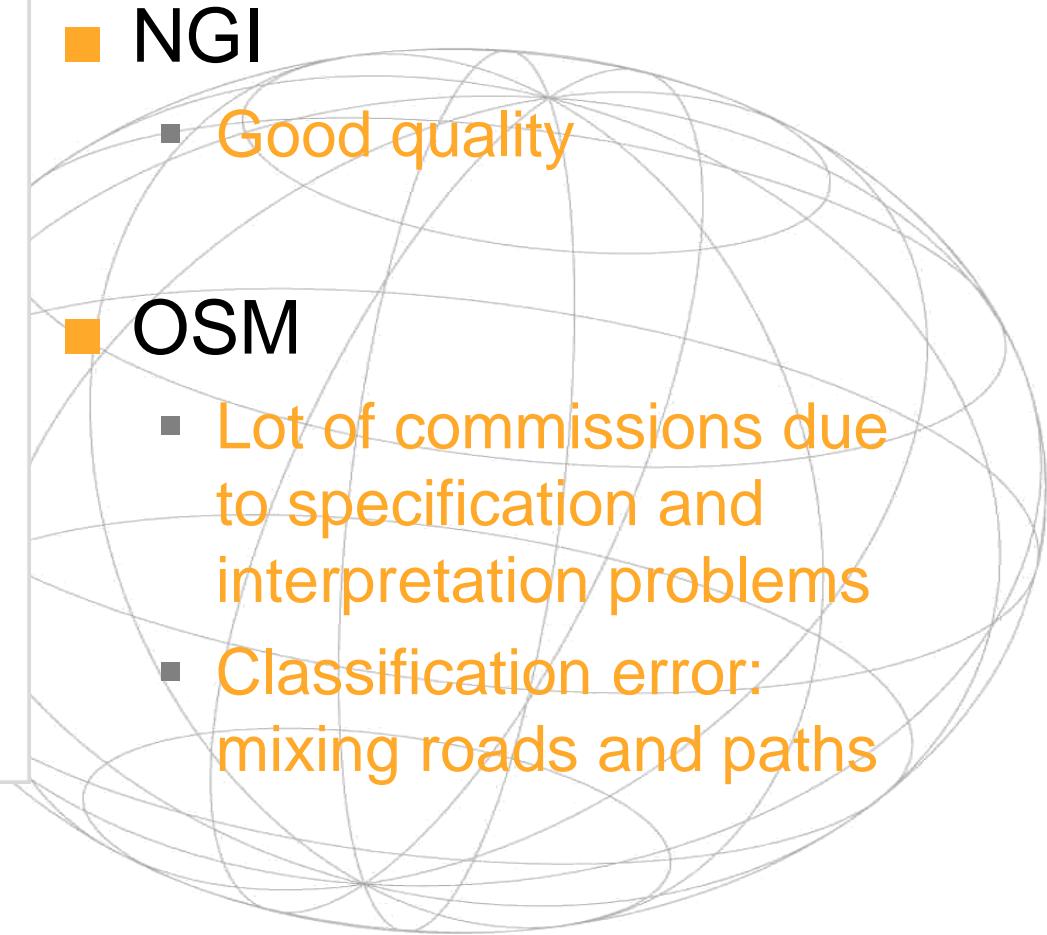
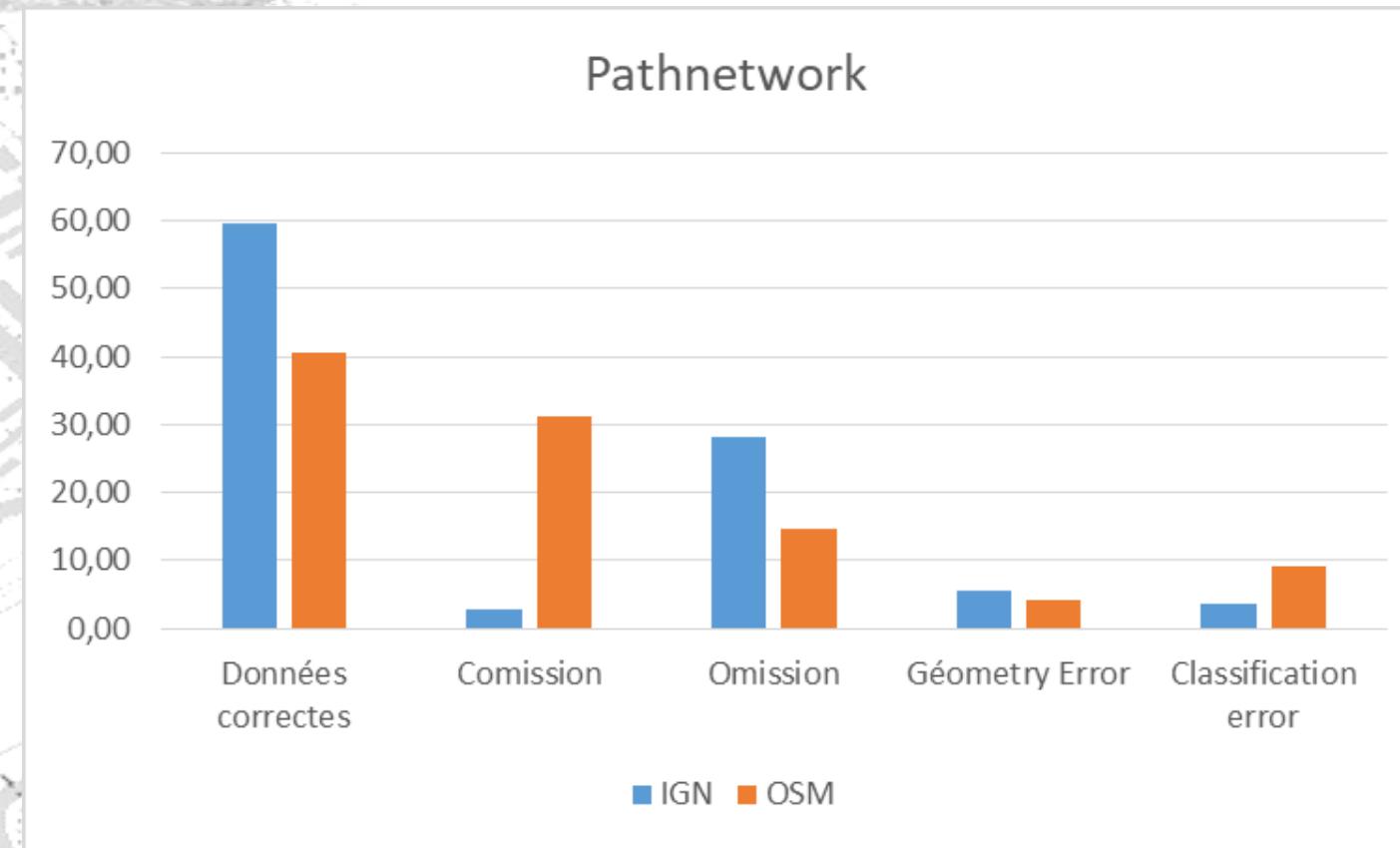
# Road Network



Geometry errors: NGI>2m off, OSM>5m off (bad comparison)



# Path Network



# Conclusions

- Limited test
- Quality of NGI data > quality of OSM data
- Heterogeneity of the OSM data
- Some areas lack information (ea. buildings)
- Some themes lack information (ea. hydrography)
- Some areas have too much information (unreadable maps)
- Interpretation of the specifications may vary from contributor