

# PCRS (Large scale core street map) Expérimentation Vendéenne













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### Reform of the anti damages rules

Reform of the déclaration of the works and the intended start date of those works

The other name for the reform is the:

#### **ANTI DAMAGES RULES**

law for this reform was granted 2012





To improve the overall safety and security of the public and local area







Who does this reform concern?

Primarily the local authorities are concerned as well as:



**Network operators** 



Management companies



**Excavation companies** 





This reform is being imposed principally:



To produce a map to identify the buried utilities networks with a accuracy of less than 10 centimeters

This map engages the responsibility of local authorities!





This reform is being imposed principally:

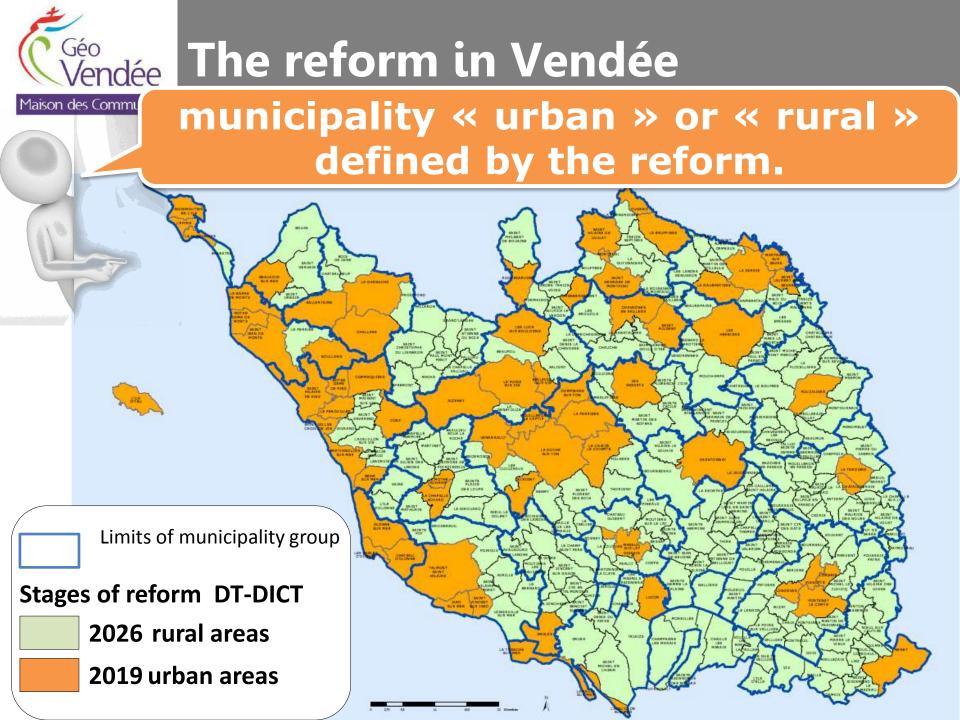


To produce a map to identify the buried utilities networks with a accuracy of less than 10 centimeters



#### There are 2 stages:

- > 2019 for the urban areas
- 2026 for the rural areas





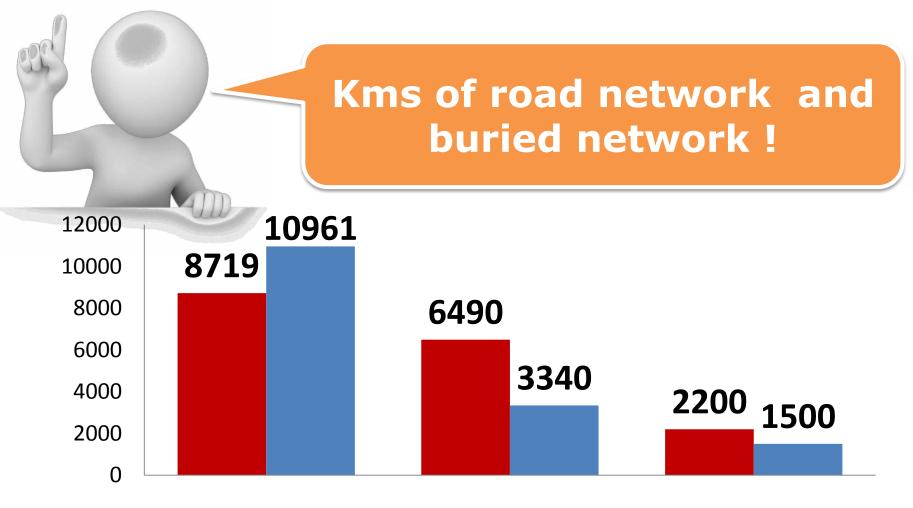
### The reform in the Vendée



Completion by 2019



Completion by 2026



road network water network public Lighting (19680 Kms)

(9830 Kms)

(3700 Kms)



# PCRS Large scale core street map

Do these local authorities have this street reference map? The answer is NO



And the timing?
We must work quickly !!!



Le Conseil National de l'Information Géographique was defined by a géo-standard PCRS



#### **PCRS**

Large scale core street map

What's the PCRS or large scale core street map?

It's a co-ordinated reference map of all the elements in the street with a accuracy of less than < 10 cm.





#### More about PCRS...



Which large scale core street map do we need to use?



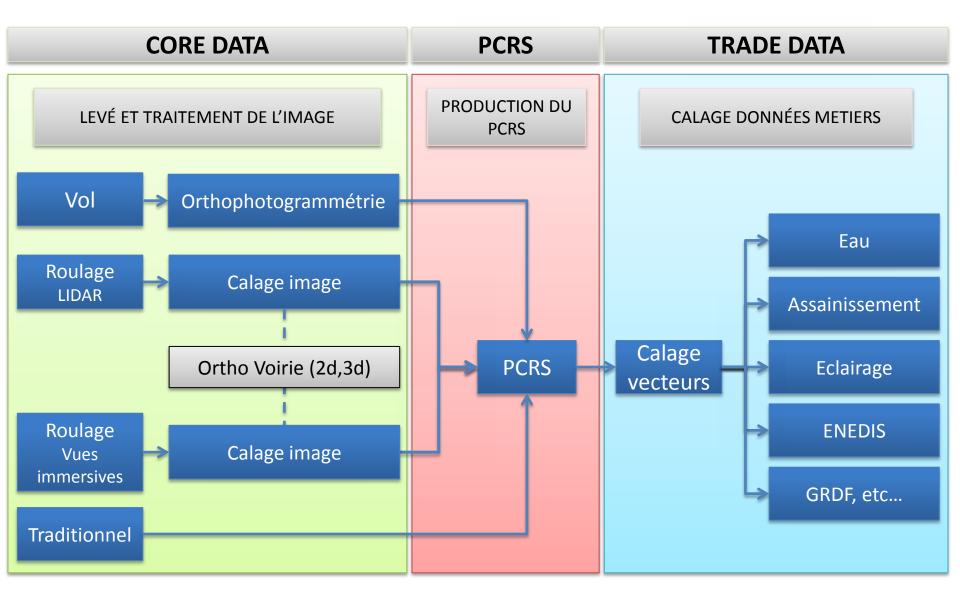
One for the networks operator to answer only the need for reform



One for the local authorities for the management of the road



# PCRS Large scale core street map





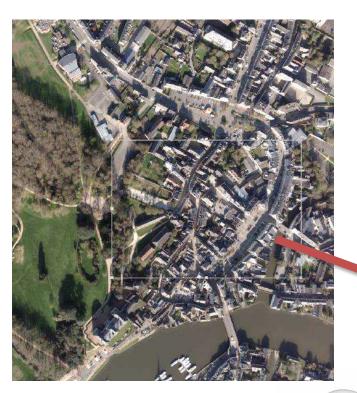
### **Core Data** Vendée Maison des Communes Corte Data Aerial photogrammétry







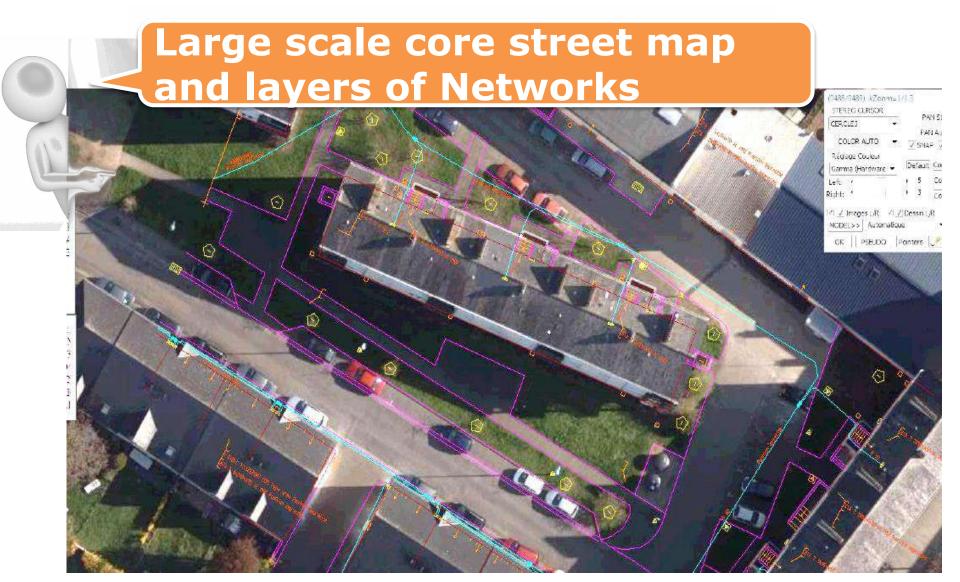
### Aerial photogrammétry Vendée Data processing





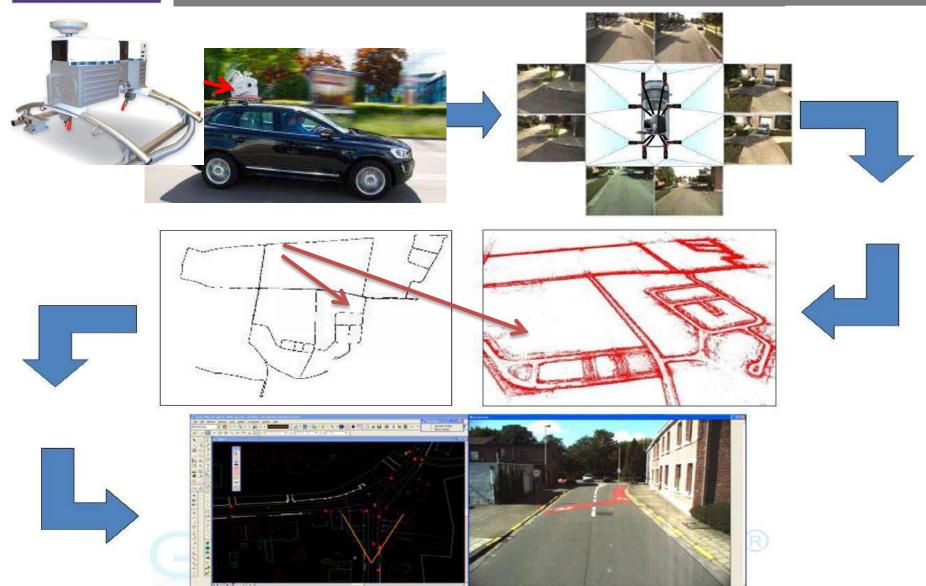


# Aerial photogrammétry and layers « network »





### **Core Data** Vendée Mobile mapping





#### Core Data Mobile mapping

Various technologies have been tested



With or without Lidar



With or without Laser



**Inertial system** 

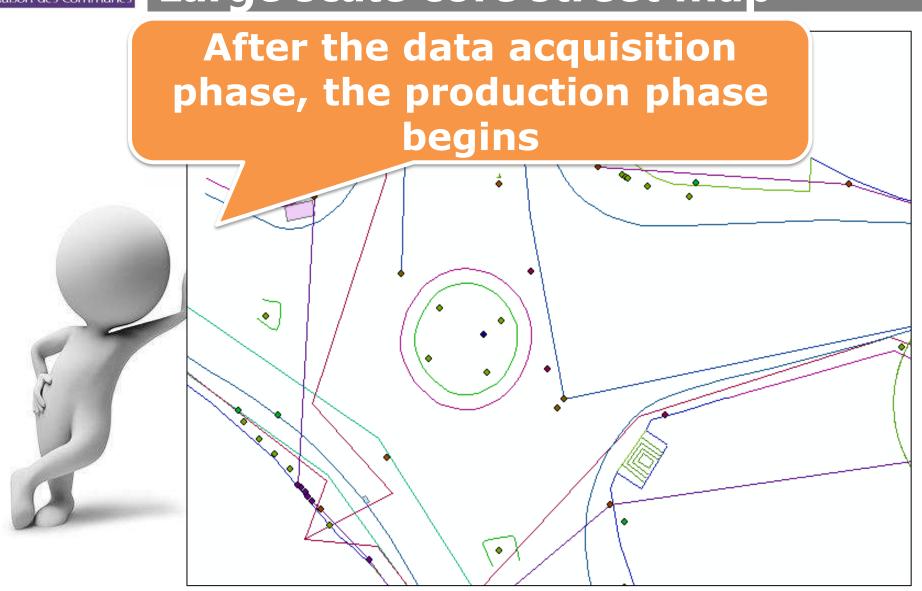


Camera (multi-lens) fixed and calibrated to take pictures





# PCRS Large scale core street map





# PCRS Large scale core street map Comparative techniques

Advantages and disadvantages



Traditional GPS TOPO;		+++		
Mobile mapping LIDAR or immersives views;	+	++	+	++
Aerial shots (great précision pixel 5 cm);	++	Limits	++	+



### PCRS Large scale core street map Planning



**April 2016**: Definition of the specifications for each partner



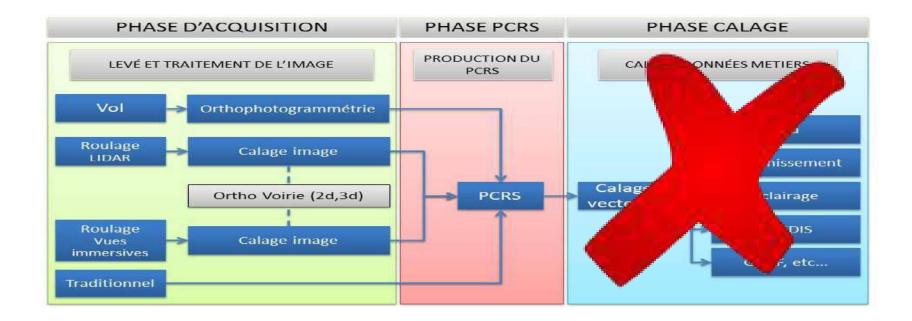
### Call for tender Large scale core street map







#### A call for tender concerning:





## Call for tender Large scale core street map







A vectors street map for the urban areas followed by an aerial photo with an accuracy of 5 cm for the rural areas



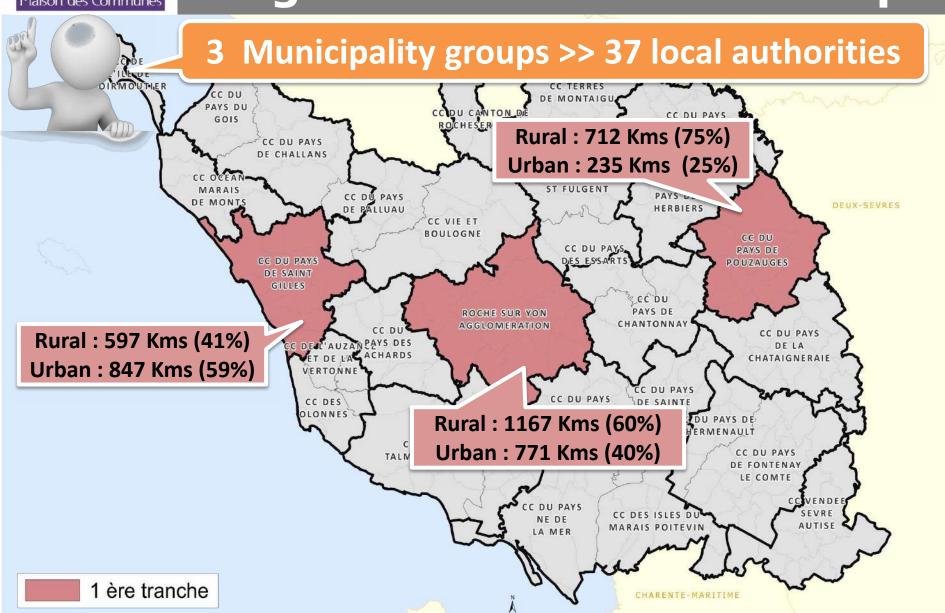
Obligation of result without imposing techniques



A departmental answer split into 4 or 5 stages

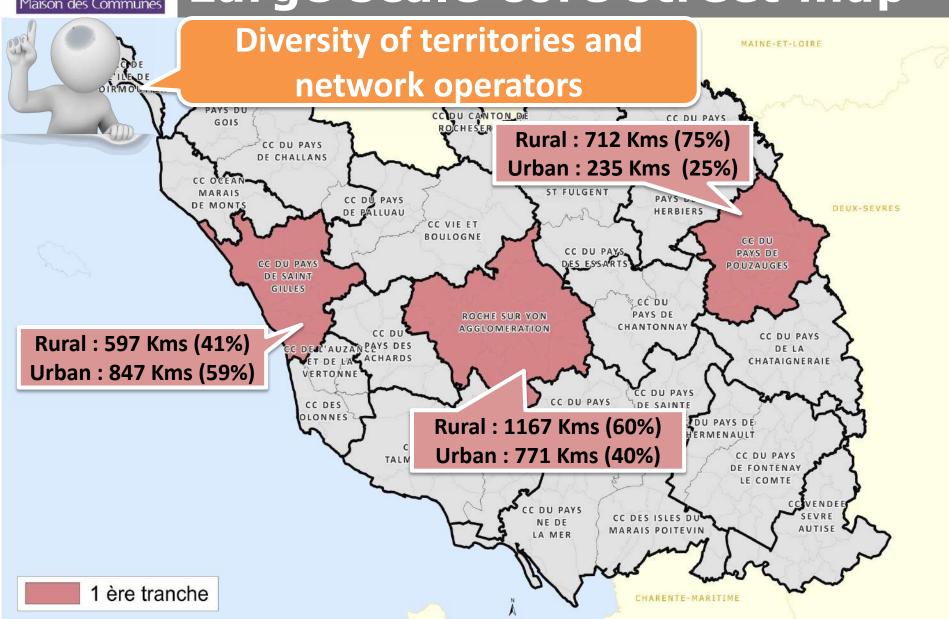


## Call for tender Large scale core street map



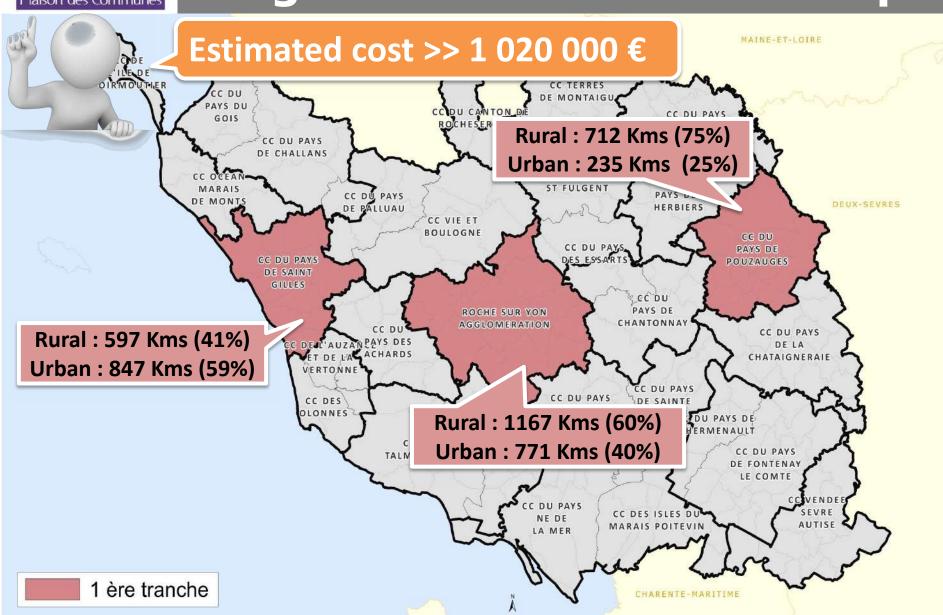


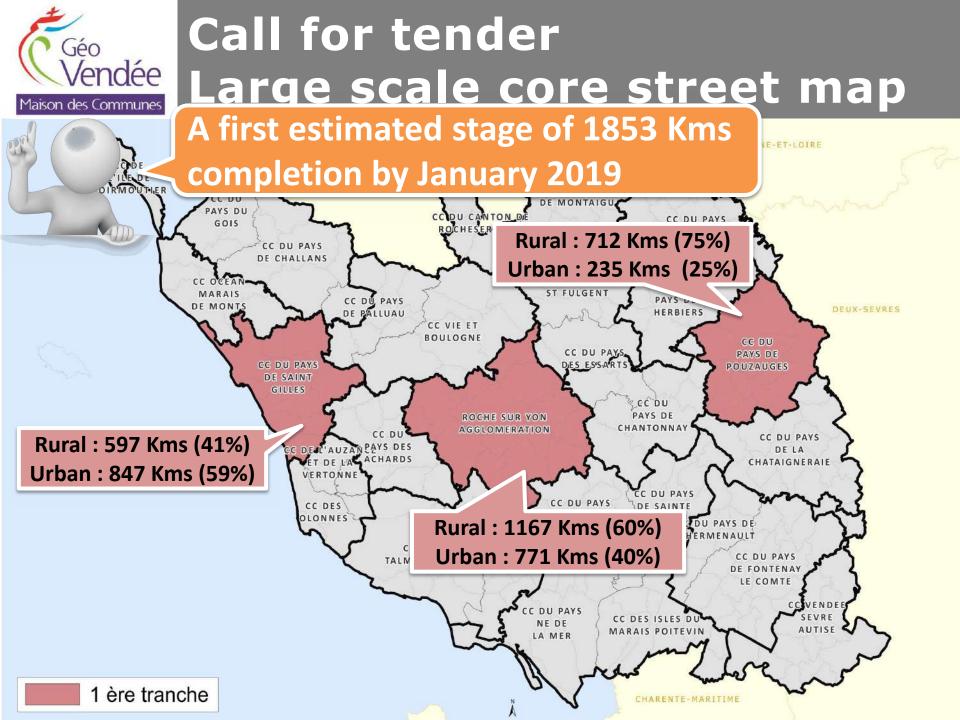
#### Call for tender Large scale core street map





## Call for tender Large scale core street map

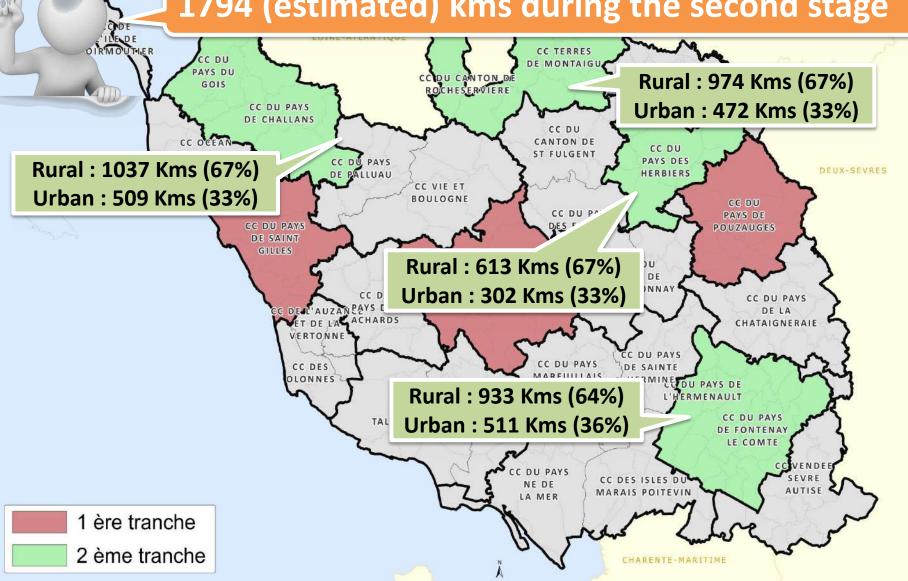






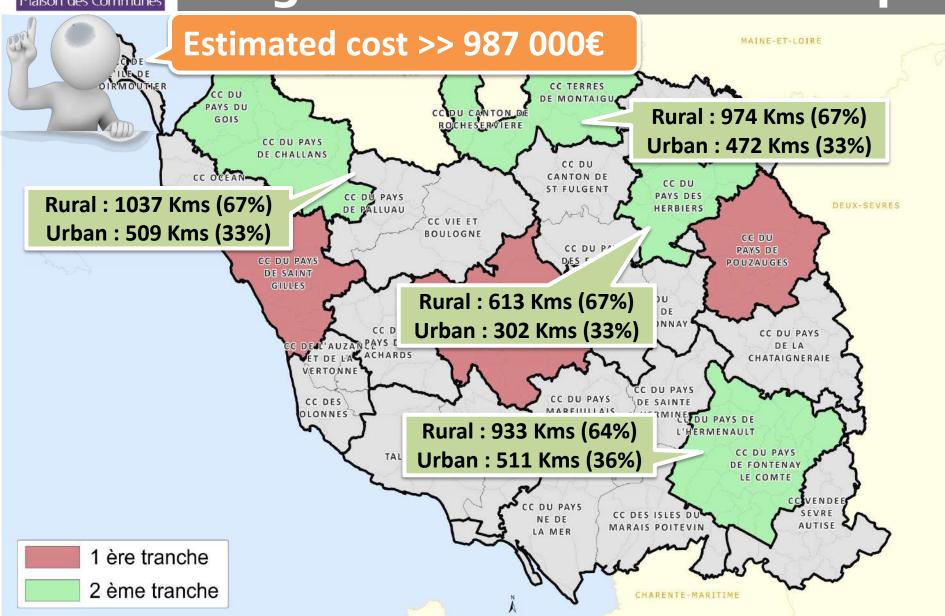
#### Call for tender Large scale core street map

1794 (estimated) kms during the second stage





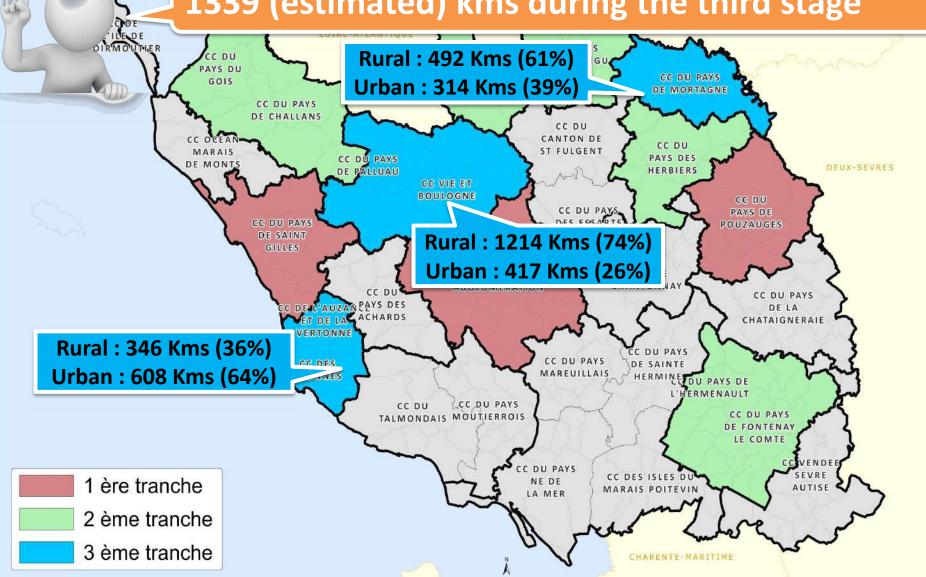
### Call for tender Large scale core street map





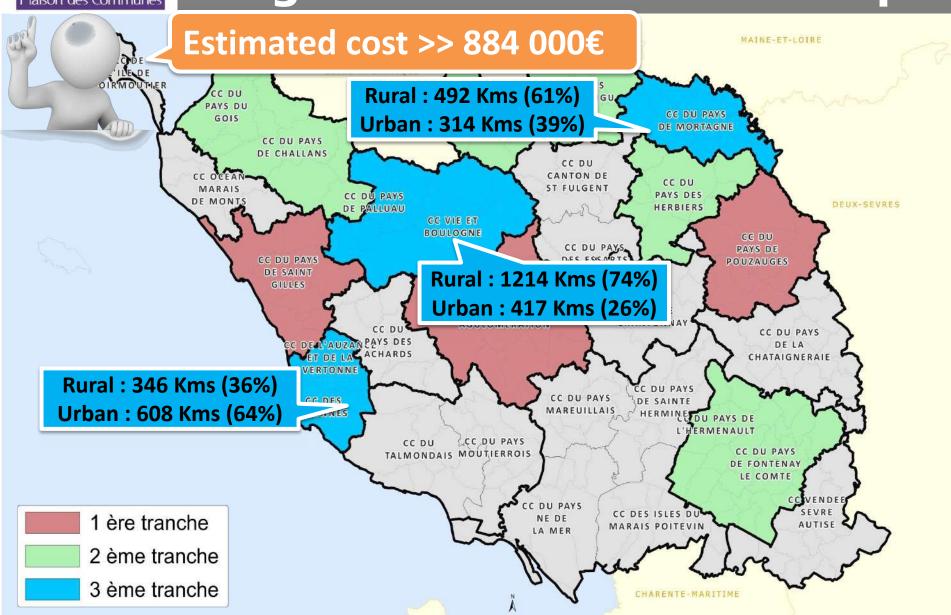
#### Call for tender Large scale core street map

1339 (estimated) kms during the third stage





## Call for tender Large scale core street map





#### Departmental management



Pool and share to save money



**Pool and share the experiments** 



Pool and share the cost for call for tender writing



Pool and share the production costs of the street map



Pool and share the costs of quality checks



Pool and share a dissemination platform and update the street map



#### Dissemination plateform PCRS Géo Vendée LIVE





#### Dissemination plateform PCRS Géo Vendée LIVE





### Q & A session

# Thank you for your attention Do you have any questions?

