



ESPON Info Day Belgium  
Brussels - 19<sup>th</sup> of November 2014

## The ESPON Tool Box ESPON HyperAtlas



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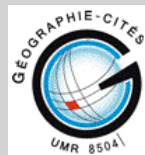
# Outline



1. **HyperAtlas concept**
2. **Main Functionalities**
3. **Case Study 1: The EU Cohesion Policy**
4. **Case Study 2: Territorial monitoring at local scale (Paris - Petite couronne)**

## HyperAtlas in brief...

- 1** software for Multiscalar Territorial Analysis and decision making
- 4** research teams (LIG STeamer, LIG MESCAL, UMS Géographie-cités, UMS RIATE)
- 2000** Creation of the HyperCarte Research Group



- 2011** 2nd version of the application, developed within the ESPON Program (web version, updated interface, integration of time analysis, new spatial analysis fonctionnalités ...)



# The HyperAtlas concept

1-2-3-4

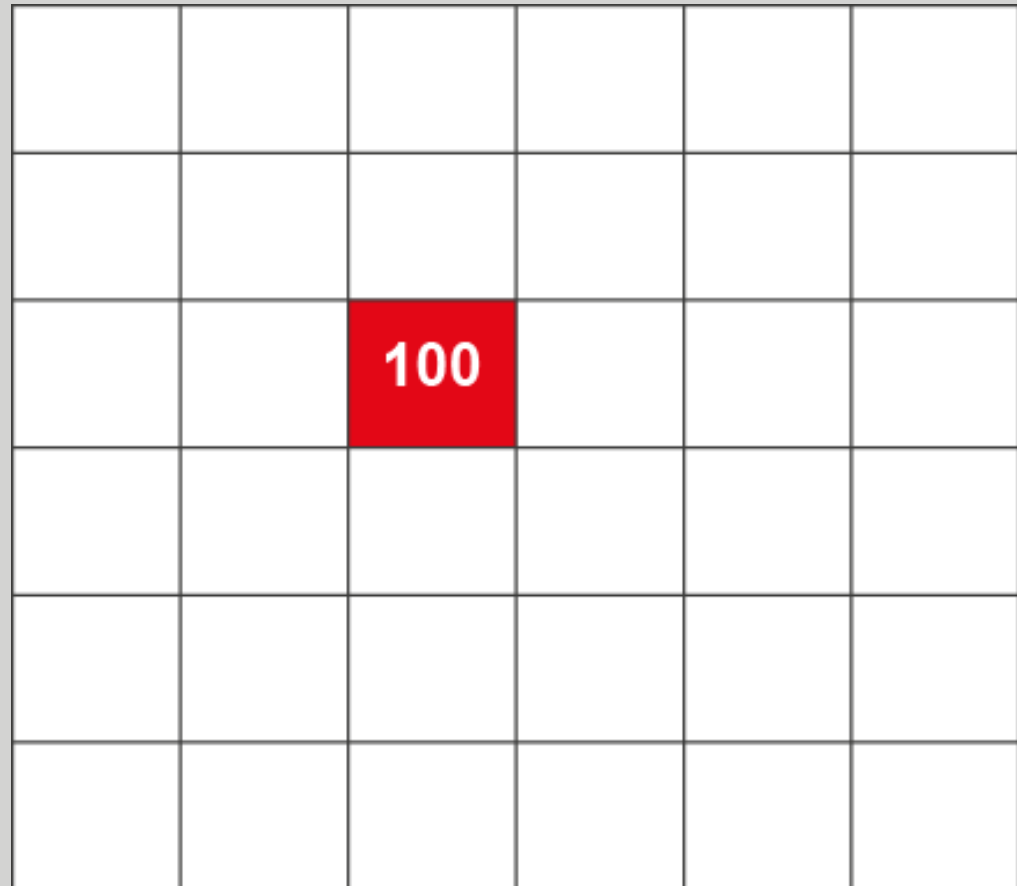


# The HyperAtlas concept

1-2-3-4

## Multiscalar Territorial Analysis

Large deviation  
Medium deviation  
Small deviation



# The HyperAtlas concept

1-2-3-4

**Multiscalar Territorial Analysis**

**Large deviation**

Medium deviation

Small deviation

110	107	109	101	102	93
106	100	99	98	102	95
107	99	100	90	99	101
84	100	97	94	102	103
101	96	92	87	96	92
100	99	85	100	99	102

# The HyperAtlas concept

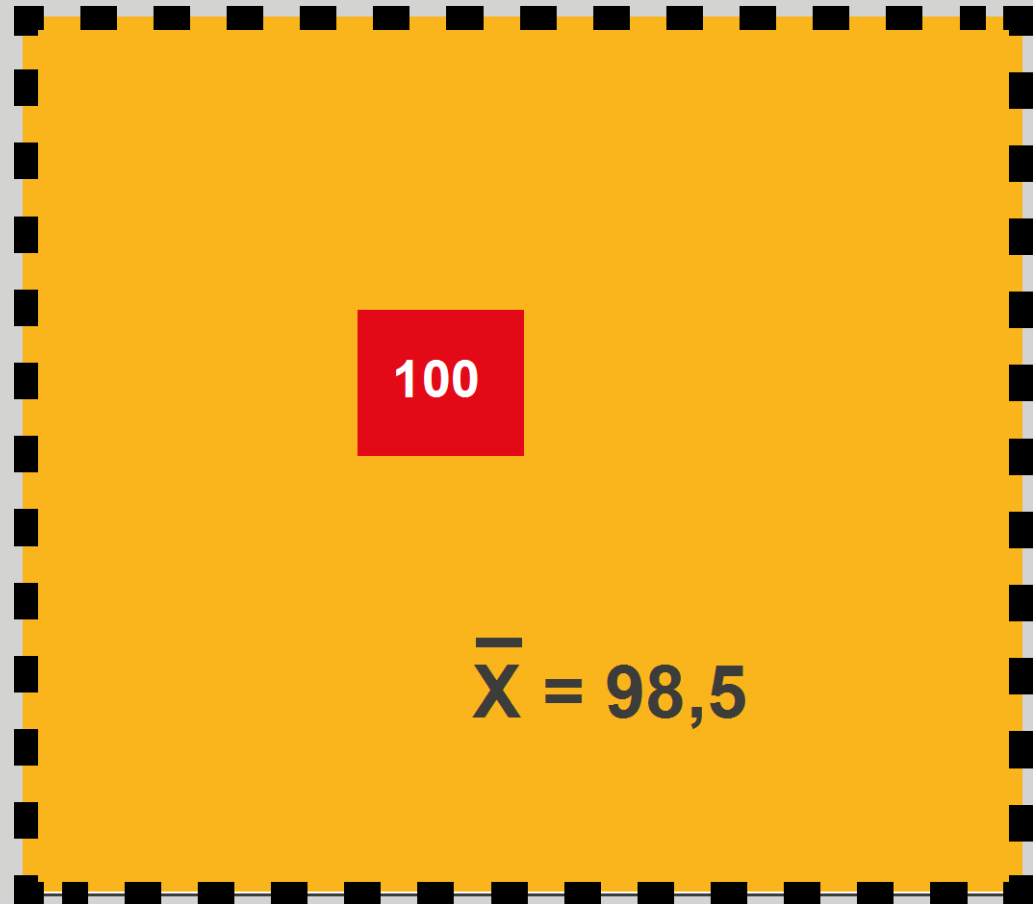
1-2-3-4

**Multiscalar Territorial  
Analysis**

**Large deviation**

Medium deviation

Small deviation



# The HyperAtlas concept

1-2-3-4

**Multiscalar Territorial  
Analysis**

**Large deviation**

Medium deviation

Small deviation





# The HyperAtlas concept

1-2-3-4

## Multiscalar Territorial Analysis

Large deviation

**Medium deviation**

Small deviation

110	107	109	101	102	93
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# The HyperAtlas concept

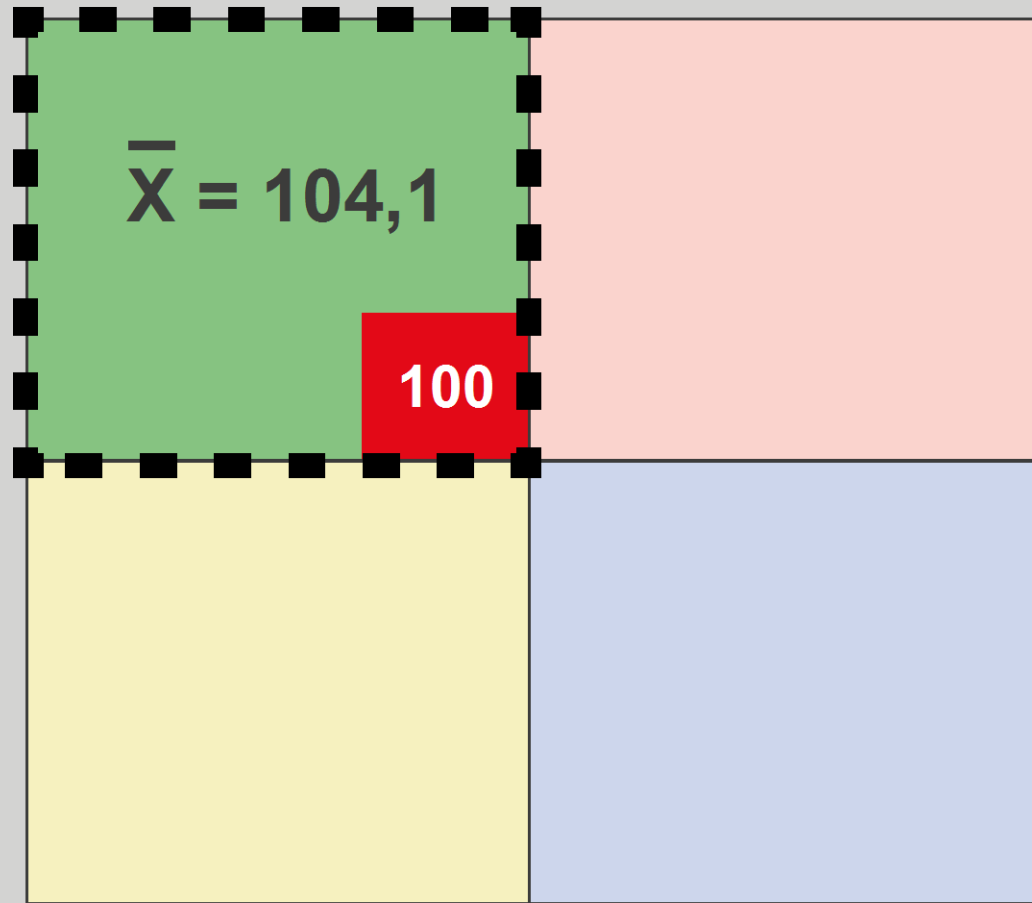
1-2-3-4

## Multiscalar Territorial Analysis

Large deviation

**Medium deviation**

Small deviation



# The HyperAtlas concept

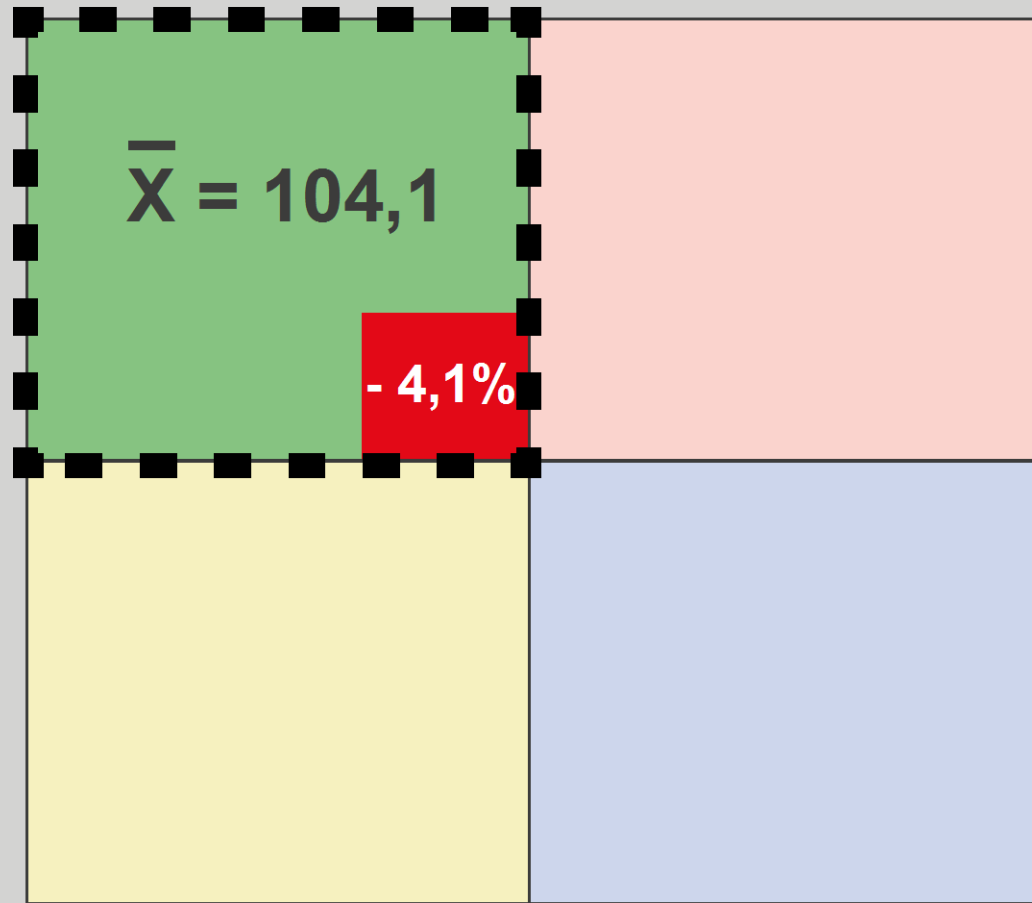
1-2-3-4

## Multiscalar Territorial Analysis

Large deviation

**Medium deviation**

Small deviation



# The HyperAtlas concept

1-2-3-4

## Multiscalar Territorial Analysis

Large deviation

Medium deviation

**Small deviation**

110	107	109	101	102	93
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# The HyperAtlas concept

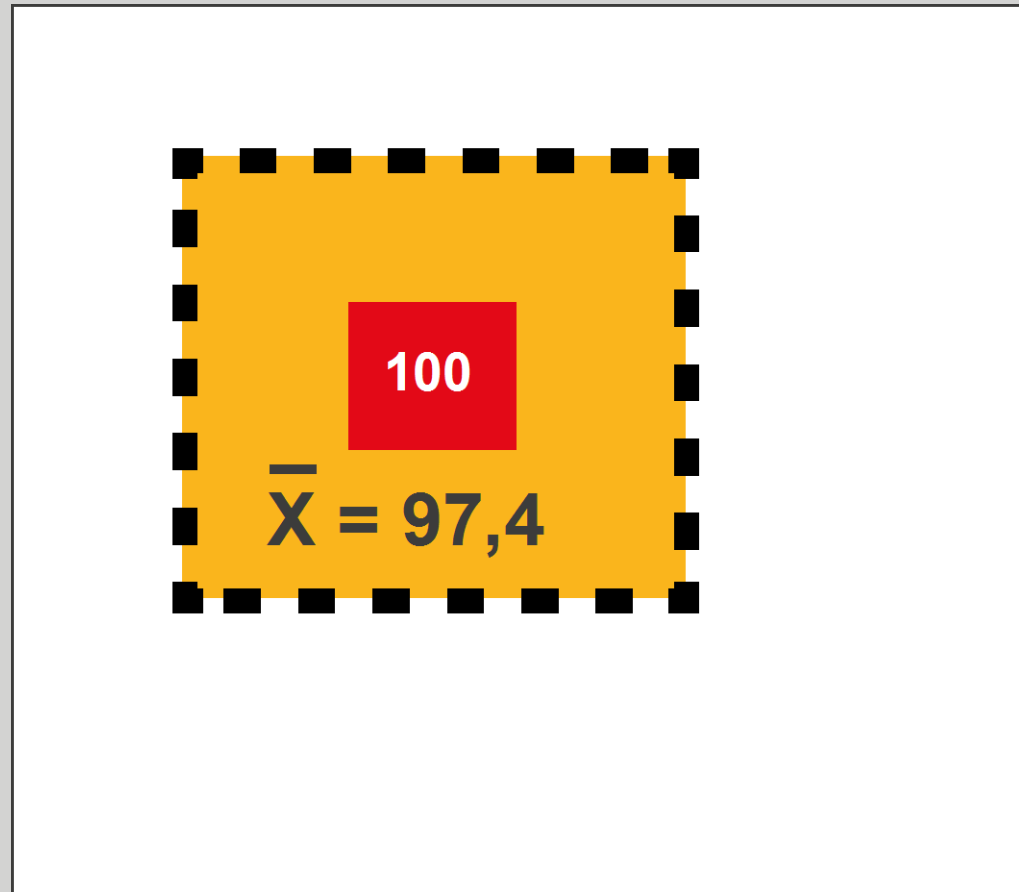
1-2-3-4

## Multiscalar Territorial Analysis

Large deviation

Medium deviation

**Small deviation**



# The HyperAtlas concept

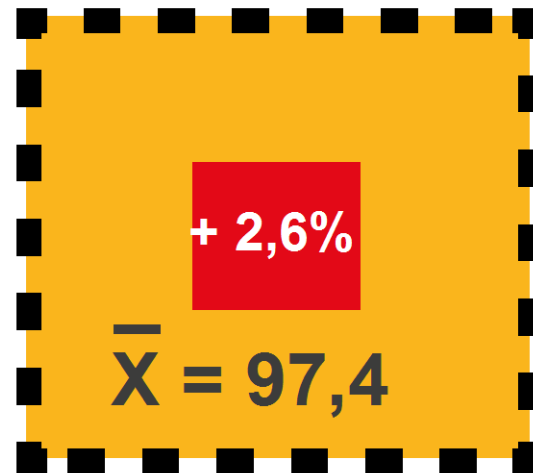
1-2-3-4

## Multiscalar Territorial Analysis

Large deviation

Medium deviation

**Small deviation**



# HyperAtlas functionalities

1-2-3-4



# HyperAtlas functionalities

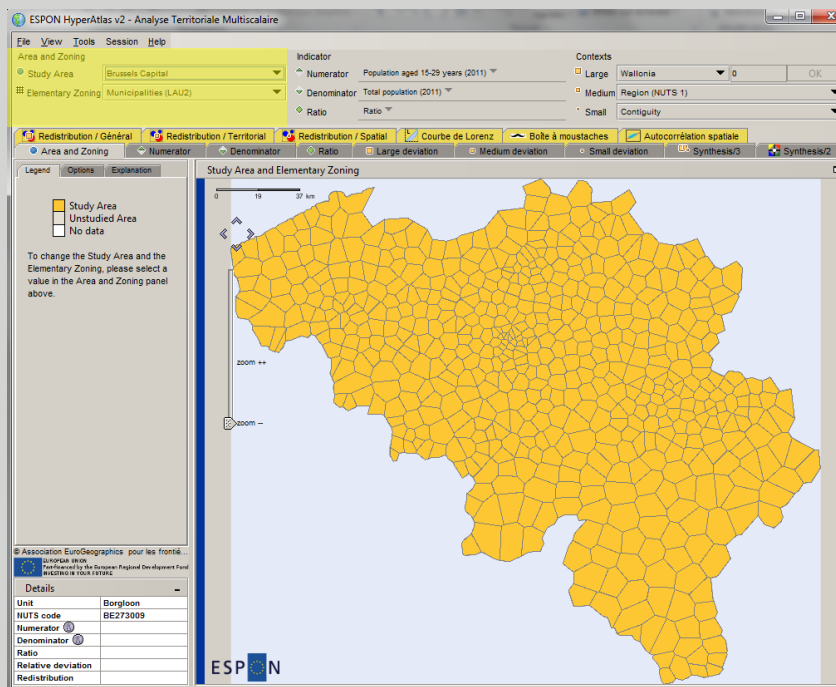
1-2-3-4

## Parameters

Map generation

Expert mode

Report generation



## Where?

**Study area:** Belgium

**Elementary zoning:** LAU2



# HyperAtlas functionalities

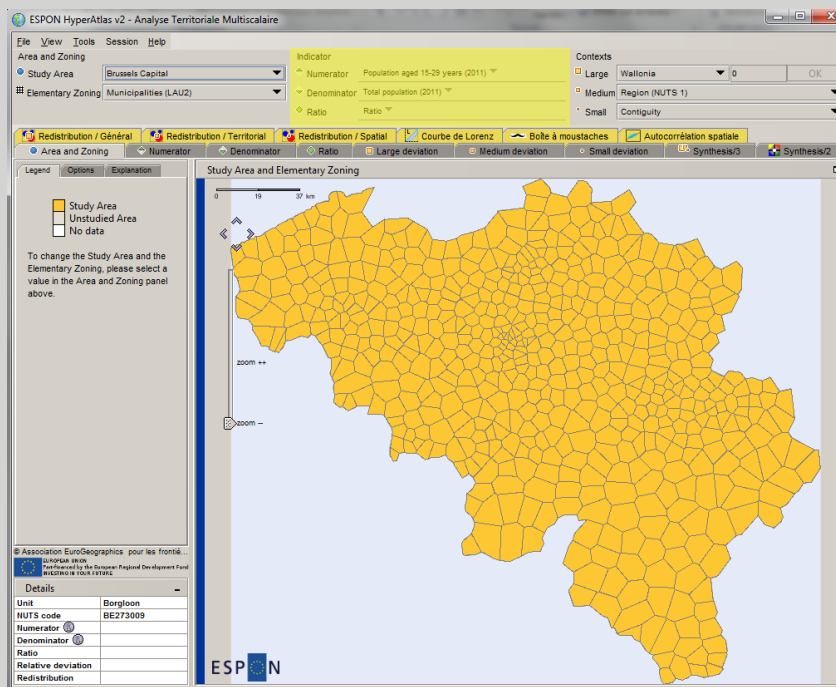
1-2-3-4

## Parameters

Map generation

Expert mode

Report generation



## What?

**Numerator:** Population aged 15-29 years (2011)

**Denominator:** Total population (2011)

**Ratio:** Share of population aged 15-29 years (2011)

# HyperAtlas functionalities

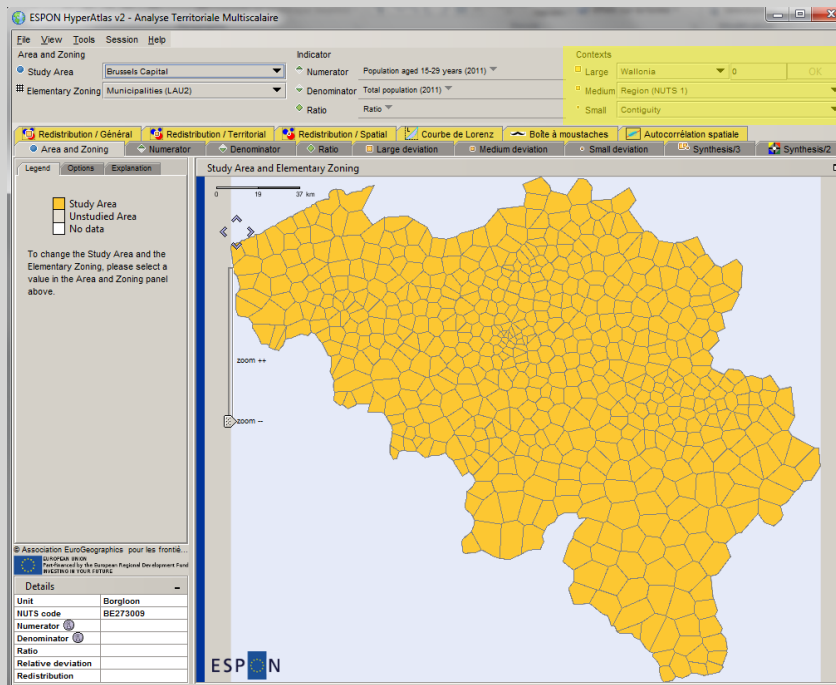
1-2-3-4

## Parameters

Map generation

Expert mode

Report generation



## How?

**Large deviation:** Belgium

**Medium deviation:** Regions (NUTS I)

**Small deviation:** Contiguous municipalities

# HyperAtlas functionalities

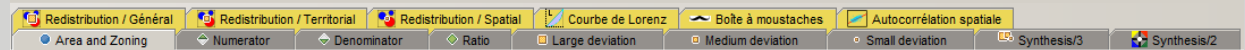
1-2-3-4

Parameters

**Map generation**

Expert mode

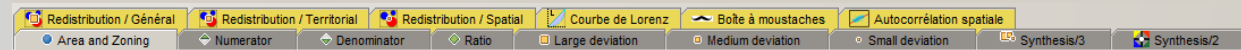
Report generation



# HyperAtlas functionalities

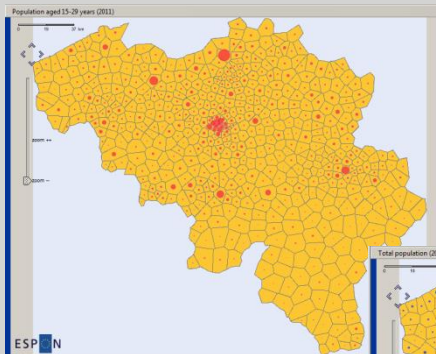
1-2-3-4

Parameters  
**Map generation**  
 Expert mode  
 Report generation

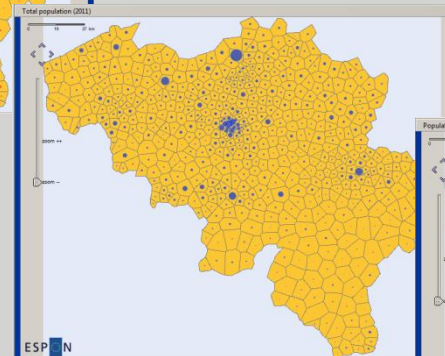


Maps displaying the chosen indicator

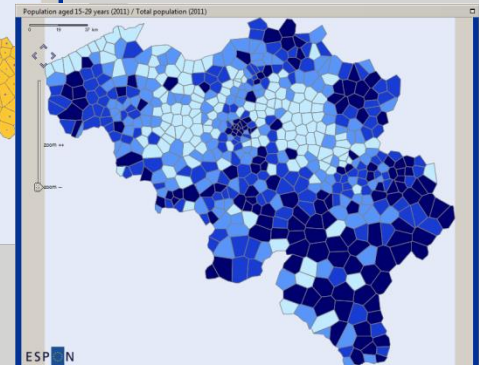
**Numerator**



**Denominator**



**Ratio**



# HyperAtlas functionalities

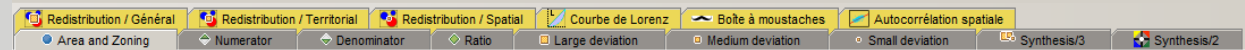
1-2-3-4

Parameters

**Map generation**

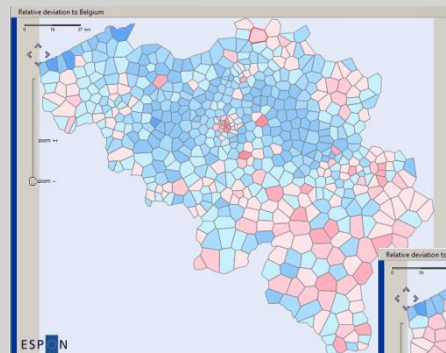
Expert mode

Report generation

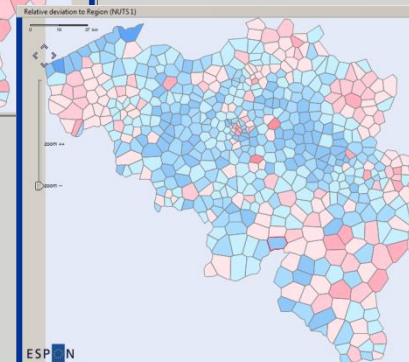


↑ ↑ ↑  
**Context maps**

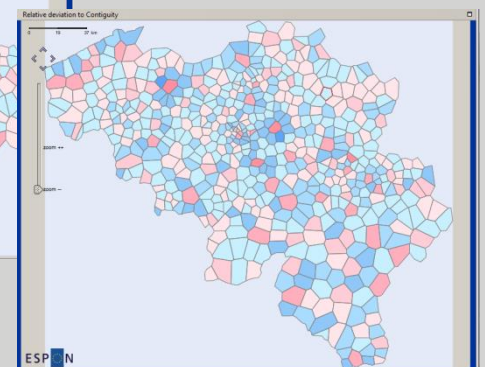
**Large deviation**



**Medium deviation**



**Small deviation**



# HyperAtlas functionalities

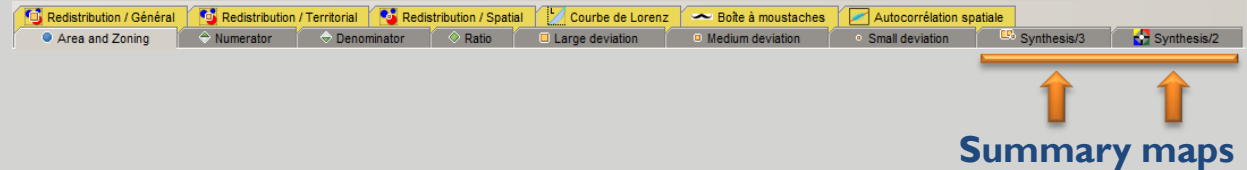
1-2-3-4

Parameters

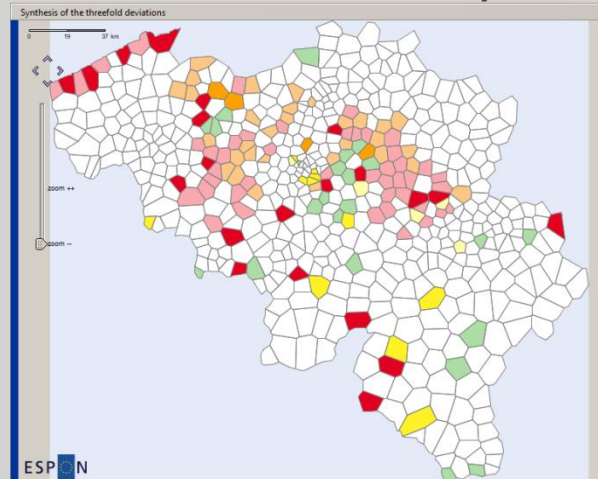
**Map generation**

Expert mode

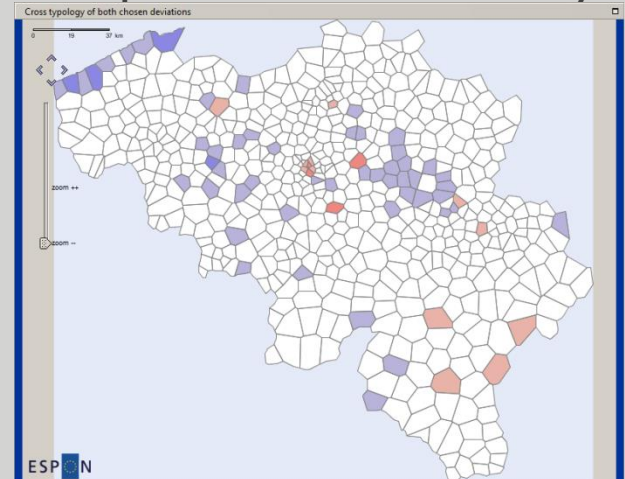
Report generation



**3 deviations summary**



**2 predefined deviations summary**



# HyperAtlas functionalities

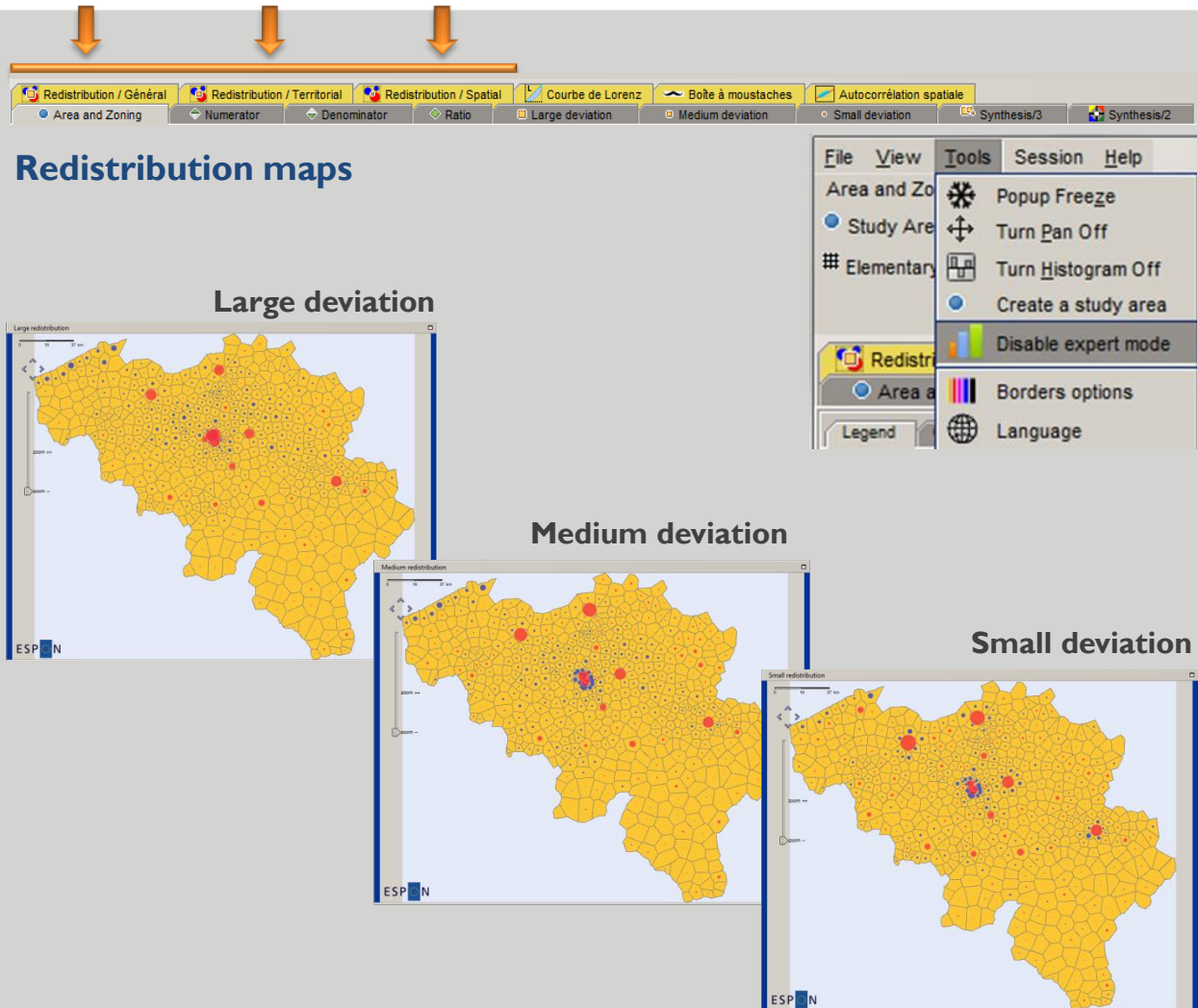
1-2-3-4

Parameters

Map generation

**Expert mode**

Report generation





# HyperAtlas functionalities

1-2-3-4

Parameters

Map generation

**Expert mode**

Report generation

## Econometric indexes and associated graphics



### Global inequalities measures

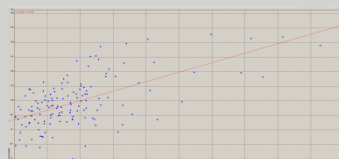
*Hoover index, Gini index...*

*Lorenz curve*



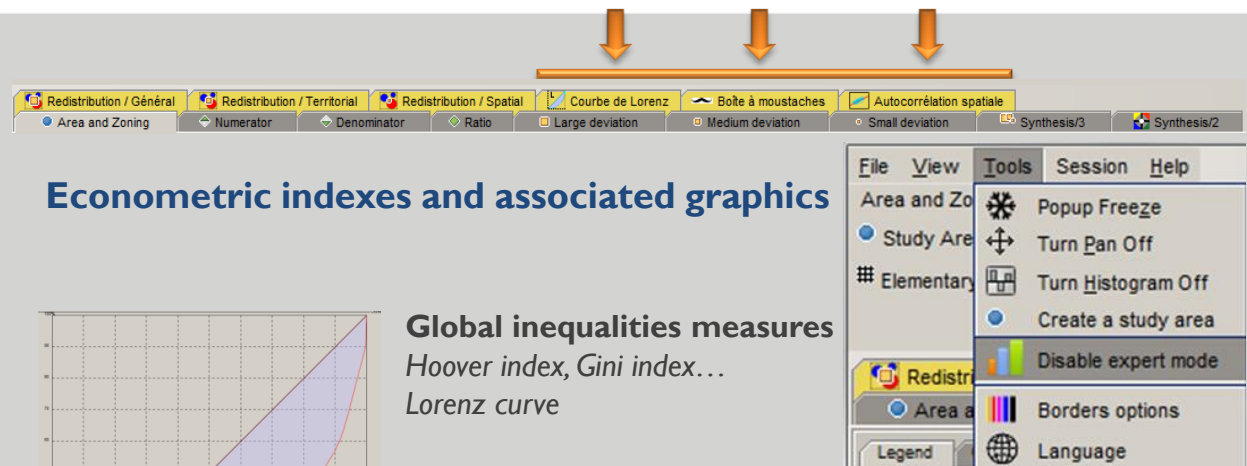
### Intermediate inequalities measures

*Box-plot*



### Spatial autocorrelation

*-> Regular spatial patterns or not?*

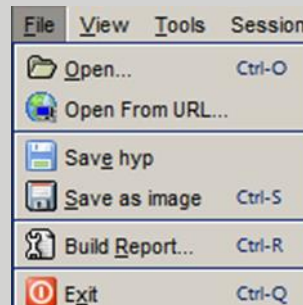




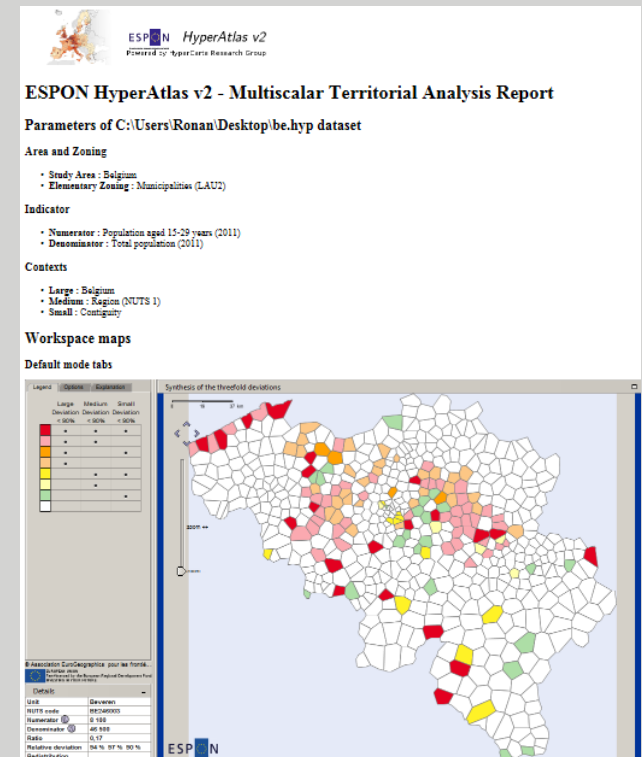
# HyperAtlas functionalities

1-2-3-4

Parameters  
Map generation  
Expert mode  
**Report generation**



Parameters summary  
Maps produced  
Data



**Workspace data**

Territorial unit		Numerator	Denominator	Ratio	Large deviation	Medium deviation	Small deviation
Code	Name	P11_POP15-29	P11_POP	P11_POP15-29/P11_POP	Belgium	Region (NUTS 1)	Contiguity
BE111001	Aarschot	2337.0	14335.0	0.16	88.13	91.52	89.21
BE111002	Antwerpen	97811.0	498473.0	0.20	106.15	109.92	111.43
BE111004	Boechout	2386.0	12764.0	0.19	101.13	104.71	101.43
BE111005	Boom	2944.0	17042.0	0.17	85.45	96.71	101.96
BE111007	Borsbelle	1913.0	10235.0	0.19	101.13	104.71	96.06
BE111008	Breusschaet	6500.0	37256.0	0.17	94.38	97.73	97.11
BE111009	Brucelles	5043.0	27849.0	0.18	98.35	101.84	101.55
BE111011	Brugem	3731.0	21178.0	0.18	95.51	98.69	100.00
BE111012	Bruxelles	3344.0	17945.0	0.19	100.77	104.34	98.57
BE111013	Hammeleem	1733.0	10246.0	0.17	90.62	95.83	98.44
BE111014	Morve	1438.0	1198.0	0.18	98.18	101.68	98.80
BE111015	Kalmbeek	3565.0	17968.0	0.18	98.55	101.84	101.46
BE111021	Capellen	4707.0	26930.0	0.17	94.56	97.91	96.11
BE111024	Kontich	3797.0	20631.0	0.18	99.58	103.10	104.38

# HyperAtlas – Case Study1

## The EU Cohesion Policy

1-2-3-4



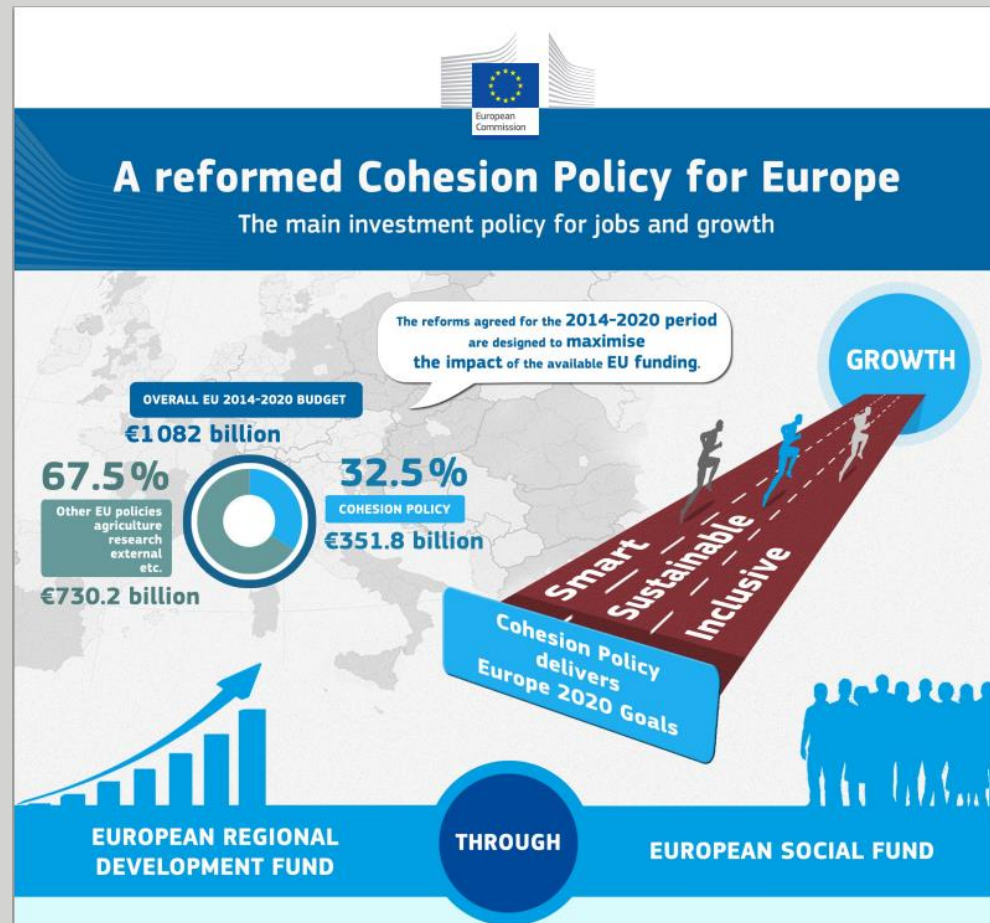
# HyperAtlas – Case Study1

## The EU Cohesion Policy

1-2-3-4

### Context

Scenario 1 – territorial  
reference  
Scenario 2 - thresholds  
Scenario 3 – Turkey?  
Scenario 4 – indicator  
Summary



Source : [http://ec.europa.eu/regional\\_policy/what/future/index\\_fr.cfm](http://ec.europa.eu/regional_policy/what/future/index_fr.cfm)

# HyperAtlas – Case Study 1

## The EU Cohesion Policy

1-2-3-4

### Context

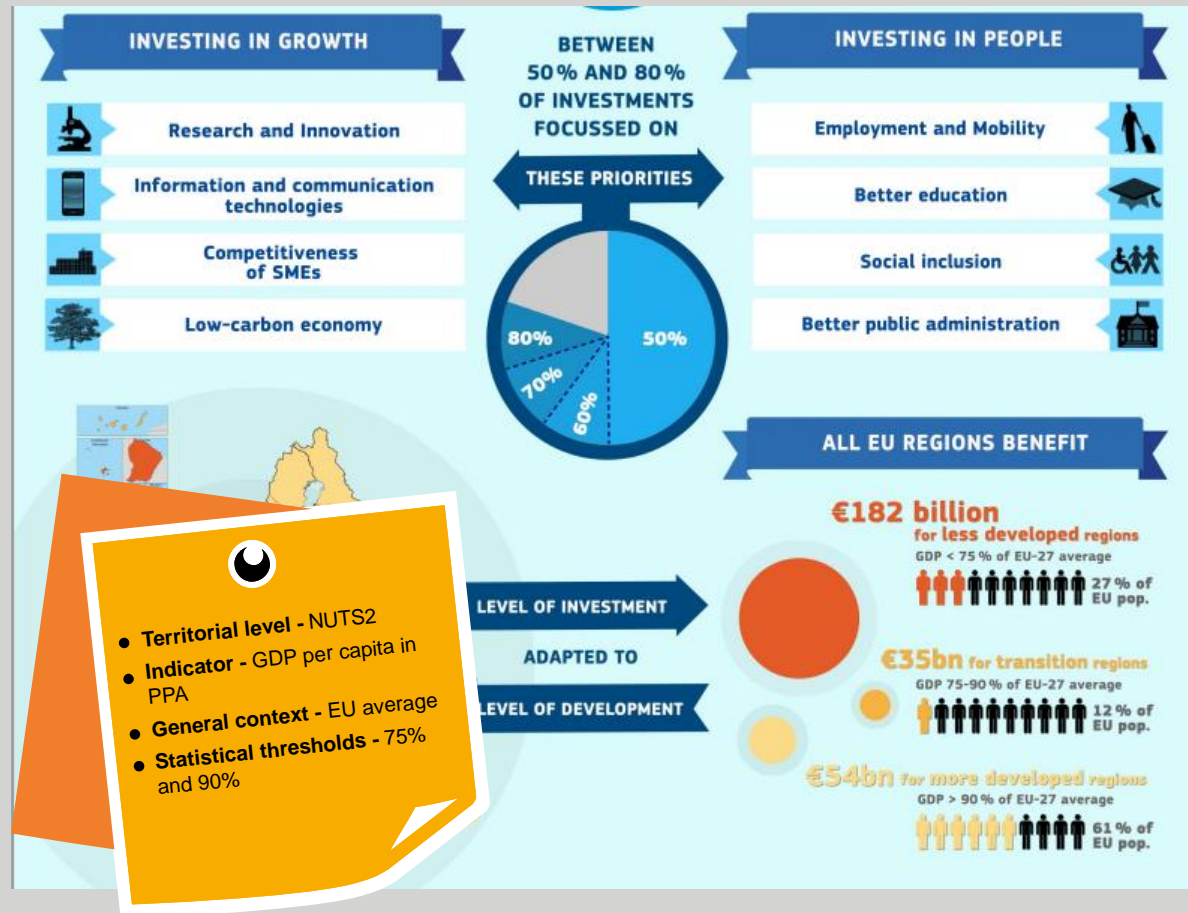
Scenario 1 – territorial reference

Scenario 2 - thresholds

Scenario 3 – Turkey?

Scenario 4 – indicator

Summary



Source : [http://ec.europa.eu/regional\\_policy/what/future/index\\_fr.cfm](http://ec.europa.eu/regional_policy/what/future/index_fr.cfm)

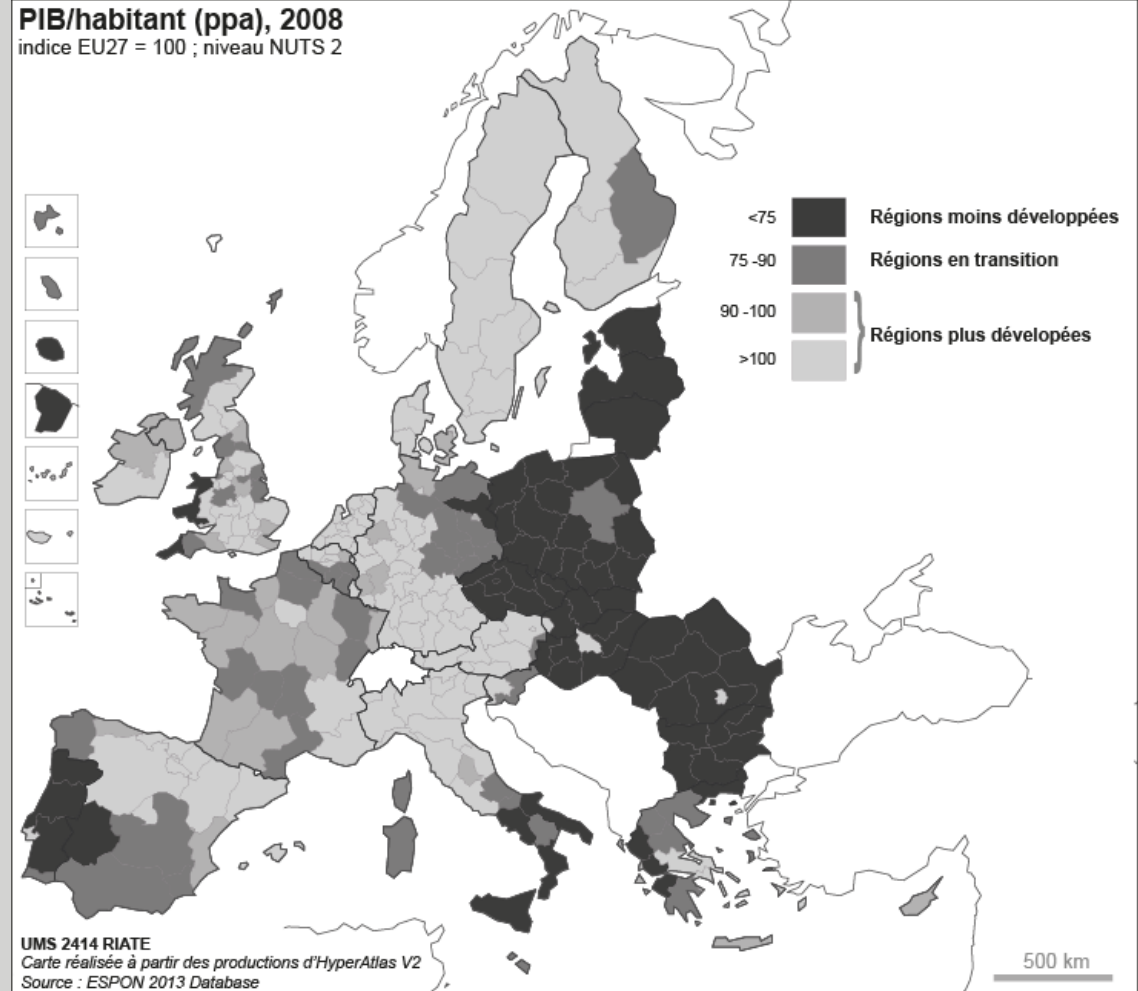
# HyperAtlas – Case Study 1

## The EU Cohesion Policy

1-2-3-4

### Context

Scenario 1 – territorial  
reference  
Scenario 2 - thresholds  
Scenario 3 – Turkey?  
Scenario 4 – indicator  
Summary



# HyperAtlas – Case Study 1

## The EU Cohesion Policy

1-2-3-4

Context

### Scenario 1 – territor. reference

Scenario 2 - thresholds

Scenario 3 – Turkey?

Scenario 4 – indicator

Summary

**NUTS 2****NUTS 3**

# HyperAtlas – Case Study 1

## The EU Cohesion Policy

1-2-3-4

Context

### Scenario 1 – territor. reference

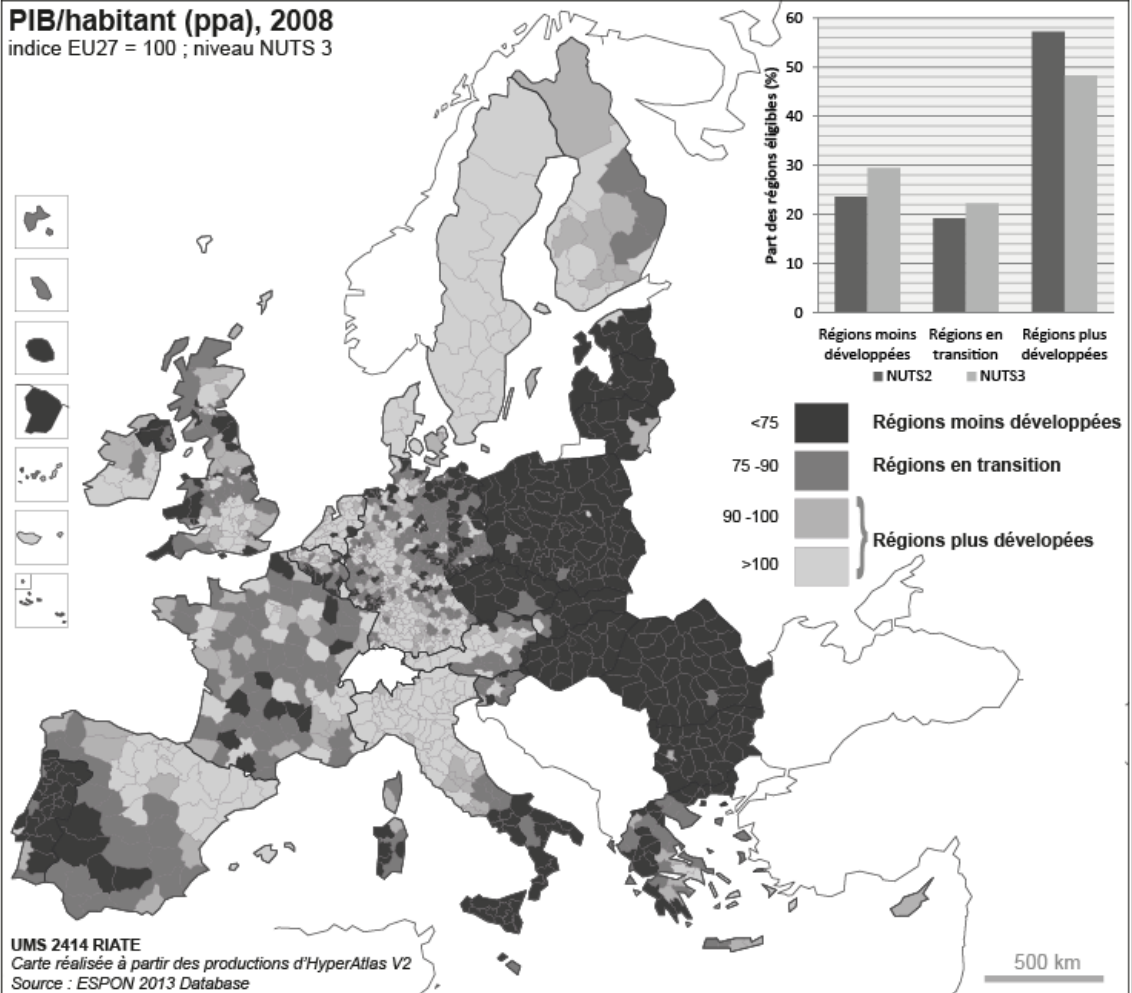
Scenario 2 – thresholds

Scenario 3 – Turkey?

Scenario 4 – indicator

Summary

PIB/habitant (ppa), 2008  
indice EU27 = 100 ; niveau NUTS 3





# HyperAtlas – Case Study 1

## The EU Cohesion Policy

1-2-3-4

Context

Scenario 1 – territorial  
reference**Scenario 2 -  
thresholds**

Scenario 3 – Turkey?

Scenario 4 – indicator

Summary

**75-90-100****65-80-100**

**Investment  
concentration**



# HyperAtlas – Case Study 1

## The EU Cohesion Policy

1-2-3-4

Context

Scenario 1 – territorial  
reference

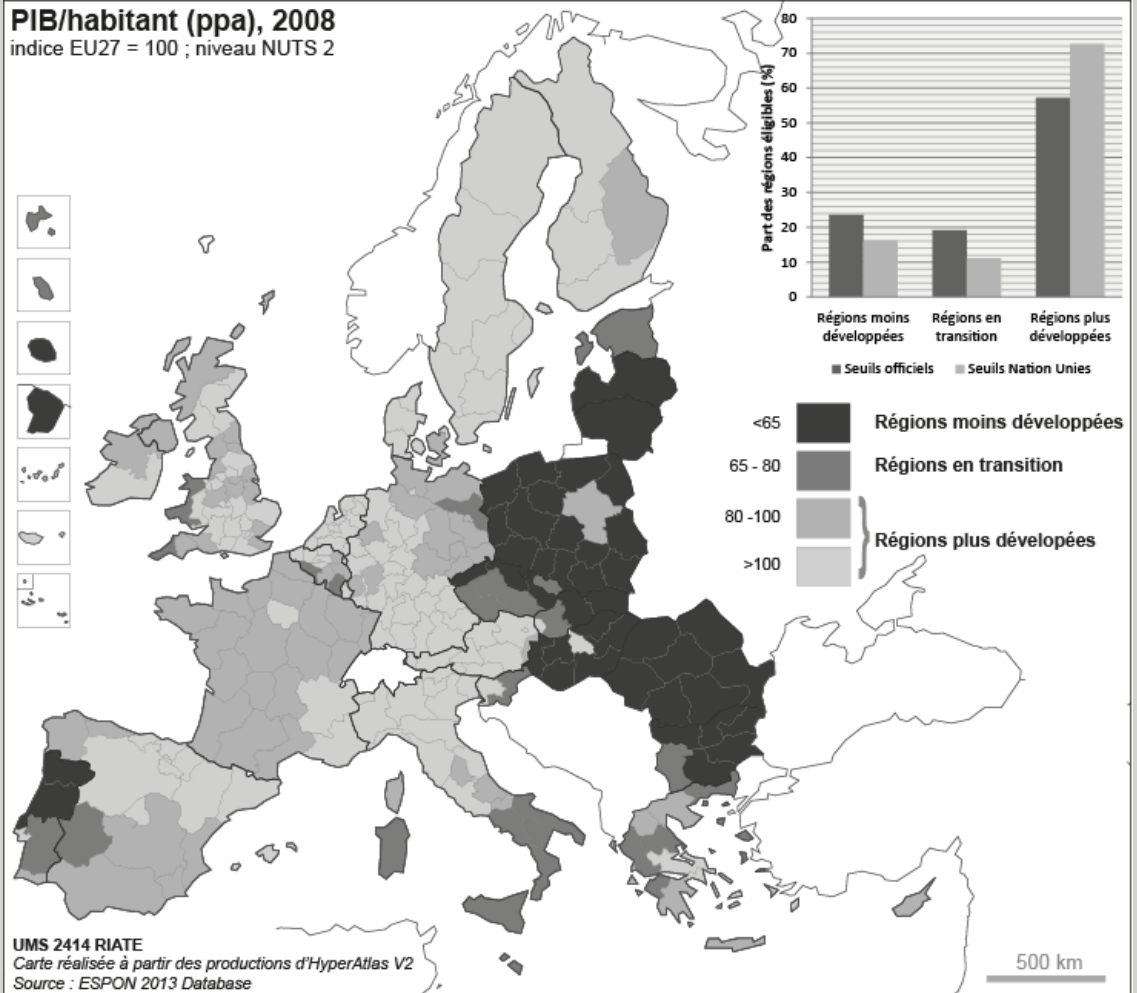
**Scenario 2 -  
thresholds**

Scenario 3 – Turkey?

Scenario 4 – indicator

Summary

PIB/habitant (ppa), 2008  
indice EU27 = 100 ; niveau NUTS 2



# HyperAtlas – Case Study 1

## The EU Cohesion Policy

1-2-3-4

Context

Scenario 1 – territorial  
reference

Scenario 2 - thresholds

**Scenario 3 – Turkey?**

Scenario 4 – indicator

Summary



**EU27**



**EU27+Turkey**

# HyperAtlas – Case Study 1

## The EU Cohesion Policy

1-2-3-4

Context

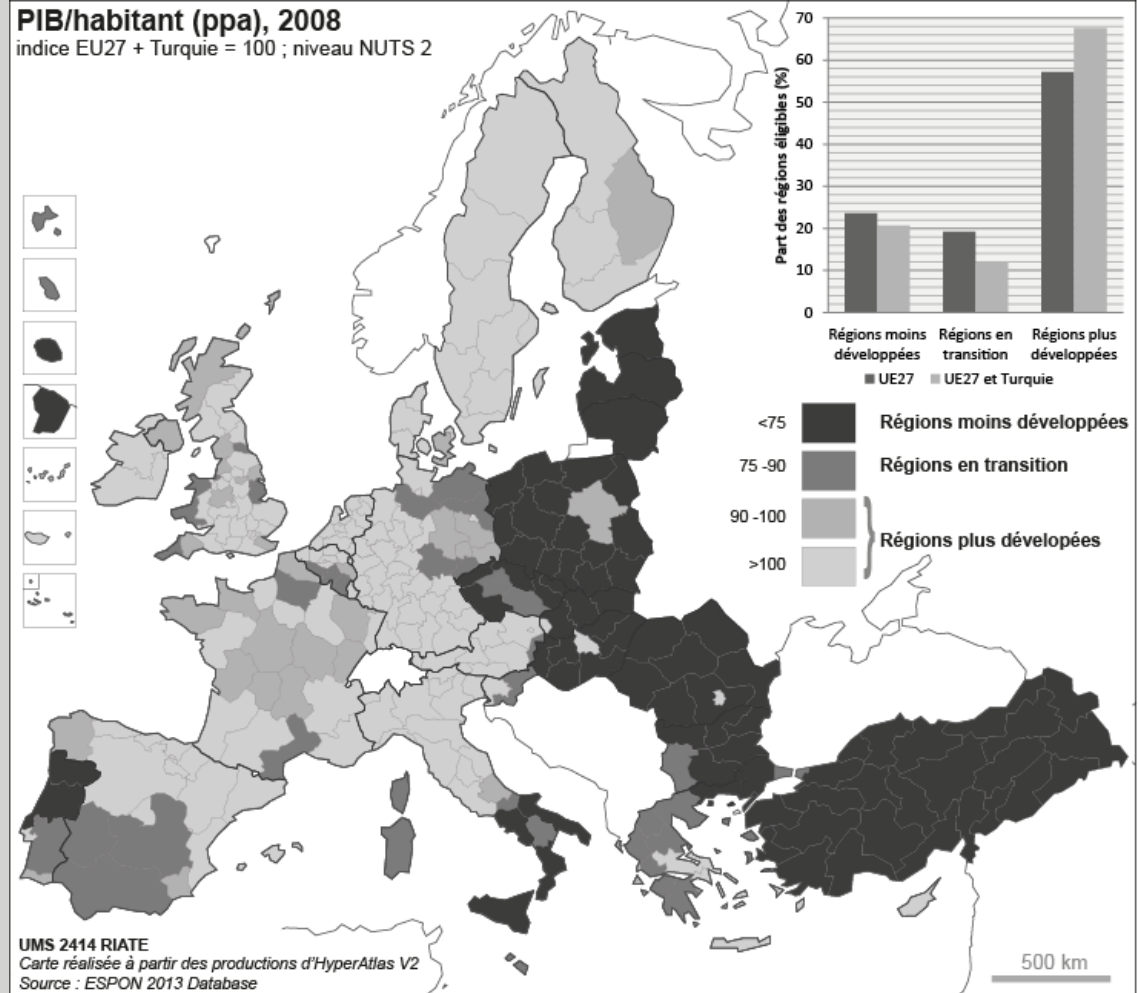
Scenario 1 – territorial  
reference

Scenario 2 - thresholds

**Scenario 3 – Turkey?**

Scenario 4 – indicator

Summary



# HyperAtlas – Case Study 1

## The EU Cohesion Policy

1-2-3-4

Context

Scenario 1 – territorial  
reference

Scenario 2 - thresholds

Scenario 3 – Turkey?

**Scenario 4 –  
indicator**

Summary



**GDP/capita  
(purchasing power  
parity)**



**GDP/capita  
(euros)**

# HyperAtlas – Case Study 1

## The EU Cohesion Policy

1-2-3-4

Context

Scenario 1 – territorial  
reference

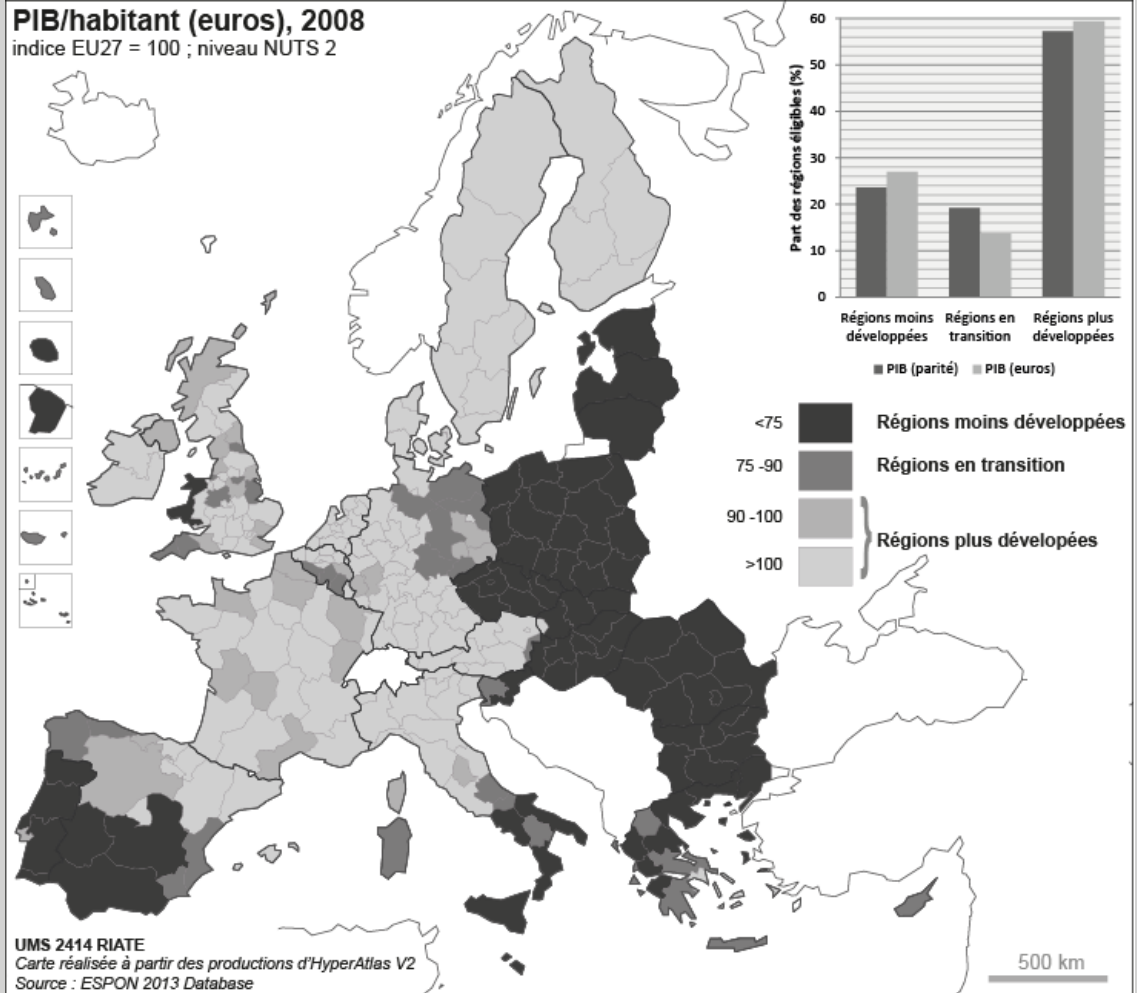
Scenario 2 - thresholds

Scenario 3 – Turkey?

**Scenario 4 –  
indicator**

Summary

**PIB/habitant (euros), 2008**  
indice EU27 = 100 ; niveau NUTS 2



# HyperAtlas – Case Study 1

## The EU Cohesion Policy

1-2-3-4

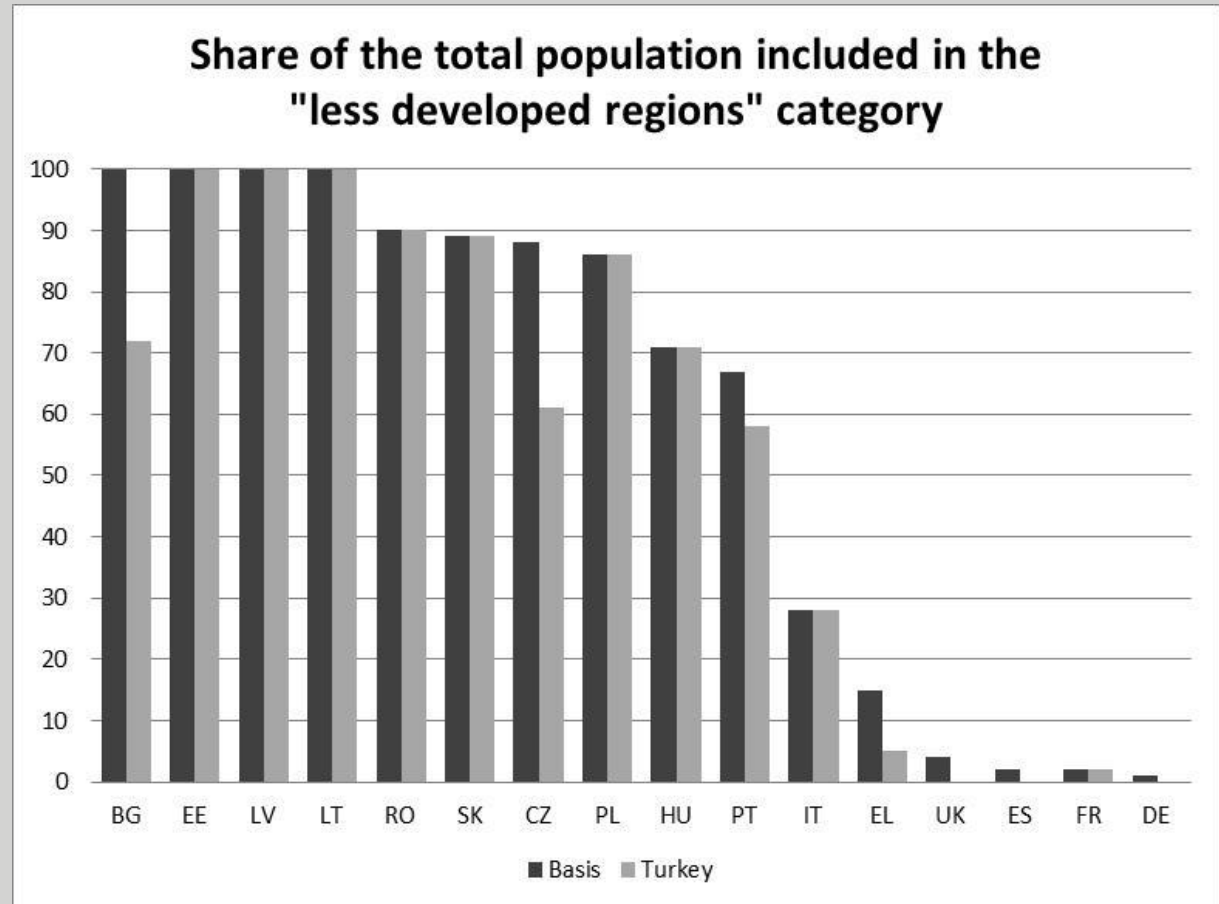
Context

Scenario 1 – territorial  
reference

Scenario 2 - thresholds

Scenario 3 – Turkey?

Scenario 4 – indicator

**Summary**


# HyperAtlas – Case Study 1

## The EU Cohesion Policy

1-2-3-4

Context

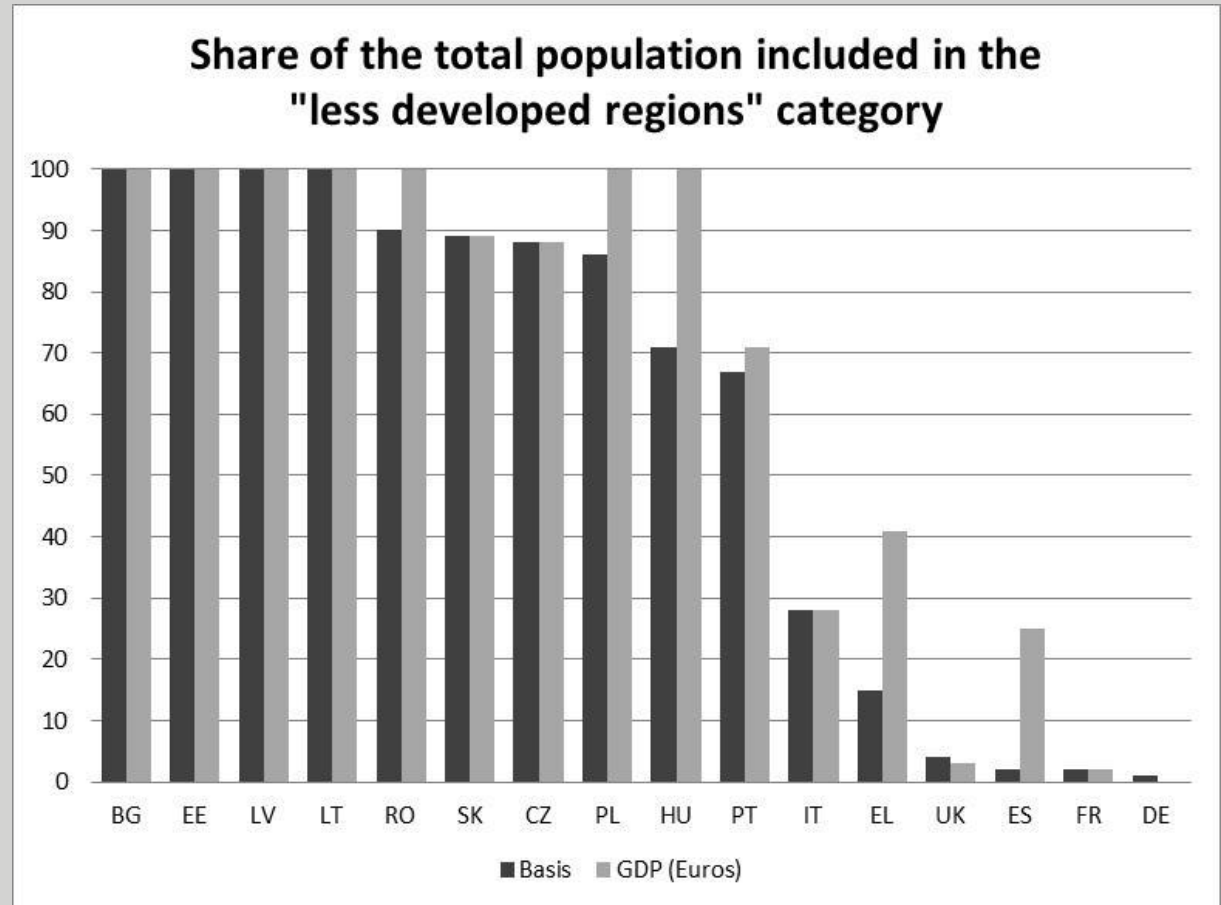
Scenario 1 – territorial  
reference

Scenario 2 - thresholds

Scenario 3 – Turkey?

Scenario 4 – indicator

**Summary**



# HyperAtlas – Case Study 1

## The EU Cohesion Policy

1-2-3-4

Context

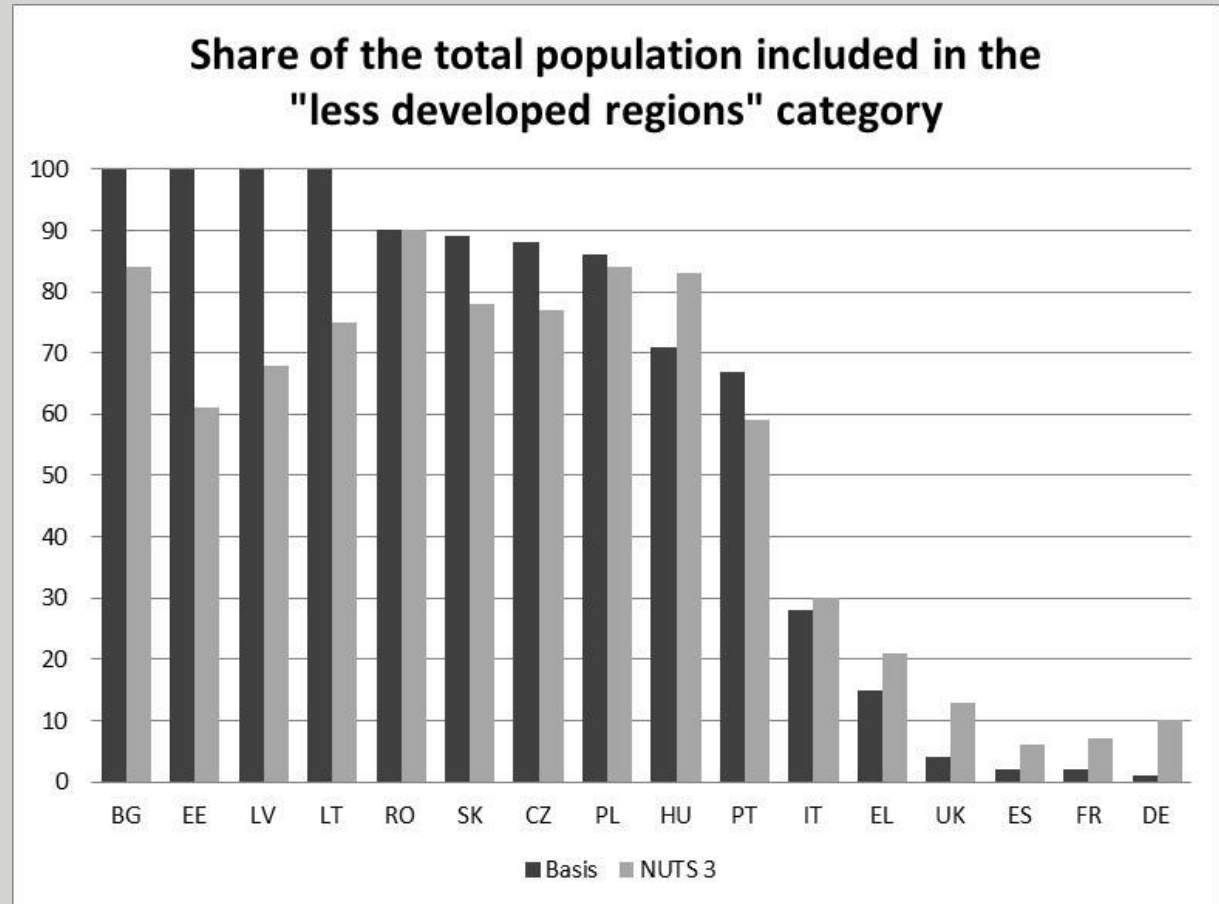
Scenario 1 – territorial  
reference

Scenario 2 - thresholds

Scenario 3 – Turkey?

Scenario 4 – indicator

**Summary**





# HyperAtlas – Case Study 1

## The EU Cohesion Policy

1-2-3-4

Context

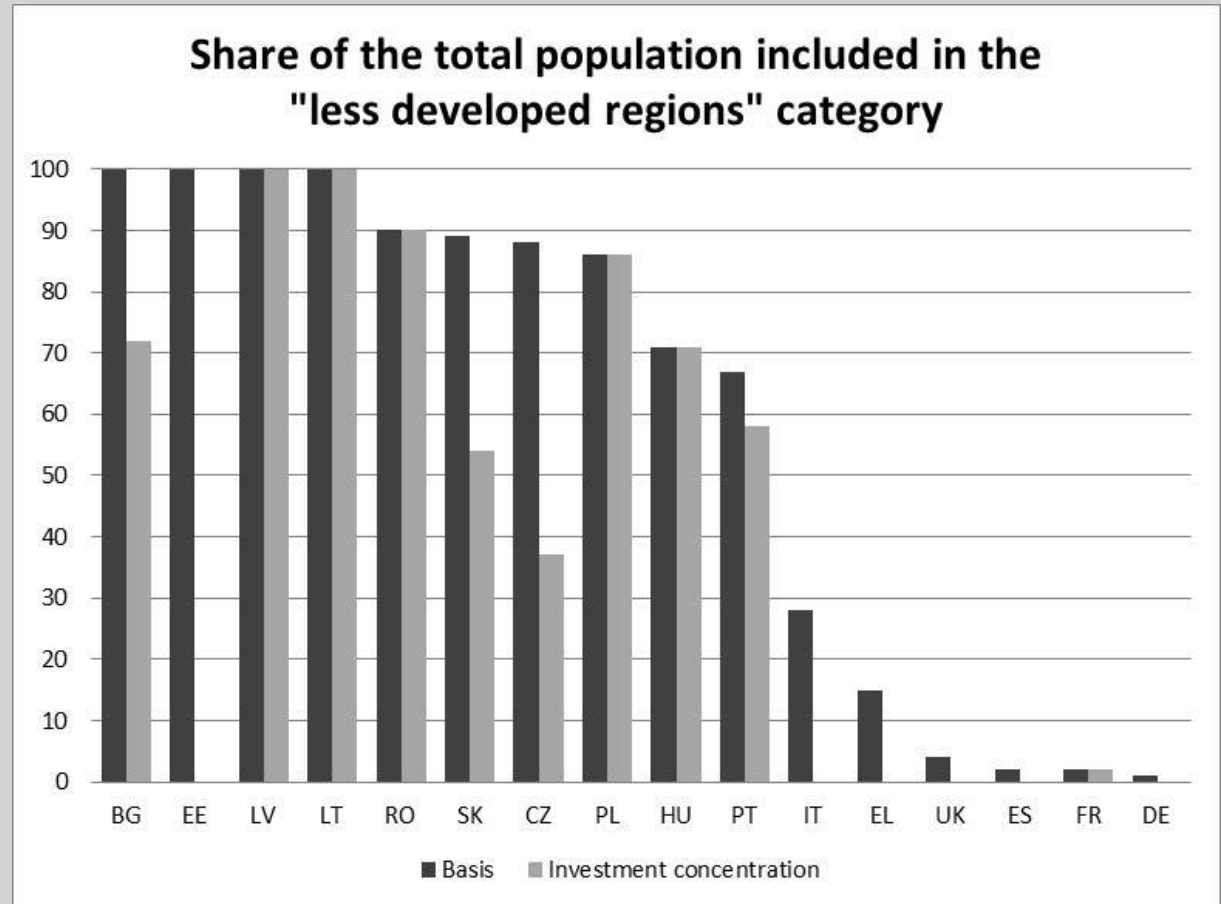
Scenario 1 – territorial  
reference

Scenario 2 - thresholds

Scenario 3 – Turkey?

Scenario 4 – indicator

**Summary**



# HyperAtlas – Case Study 2

## Territorial monitoring at local scale

1-2-3-4



# HyperAtlas – Case Study 2

## Territorial monitoring at local scale

1-2-3-4

### Aims:

**I. Monitoring of territorial inequalities of wealth in Paris and its surrounding *départements*.**

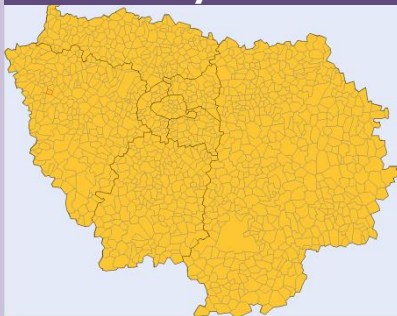
**II. Implementation of proposal for reducing territorial disparities**

### Context

Global picture  
Département picture  
Local picture  
Summary maps

Redistributions

**Support** .hyp Ile-de-France

Study area	Indicators	Contexts
	Masse des revenus (rev_moy * Nb_UC) <b>Agriculteurs exploitants</b> Artisans Commerçants Chefs d'entrep. Cadres Profess. Intel Sup. Emplois Agriculteurs exploitants Emplois Artisans Commerçants Chefs d'entrep. Emplois Cadres Profess. Intel Sup. Emplois Employés Emplois Ouvriers Emplois Professions interméd. Emplois en 1999 Employés FEMMES HOMMES Masse des revenus (rev_moy * Nb_UC) NB unités de consommation Ouvriers POPULATION TOTALE Population active occupée Population de 0 - 19 Population de 20 - 39	Contextes <input type="checkbox"/> Général Paris petite couronne <input type="checkbox"/> Territorial département <input type="checkbox"/> Spatial Contiguity

# HyperAtlas – Case Study 2

## Territorial monitoring at local scale

1-2-3-4

### Context

Global picture  
Département picture  
Local picture  
Summary maps  
  
Redistributions

#### Aims:

- I. Monitoring of territorial inequalities of wealth in Paris and its surrounding *départements*.
- II. Implementation of proposal for reducing territorial disparities

**Support** .hyp Ile-de-France

Study area	Indicators	Contexts
<i>Petite couronne</i> (IDF) Municipalities (LAU2)	Income per consumption unit 2001	<i>Petite couronne</i> <i>Département</i> <i>Contiguity</i>

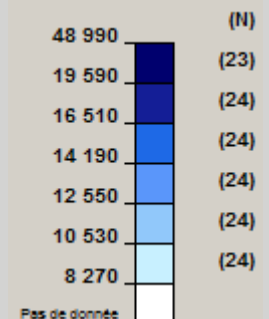
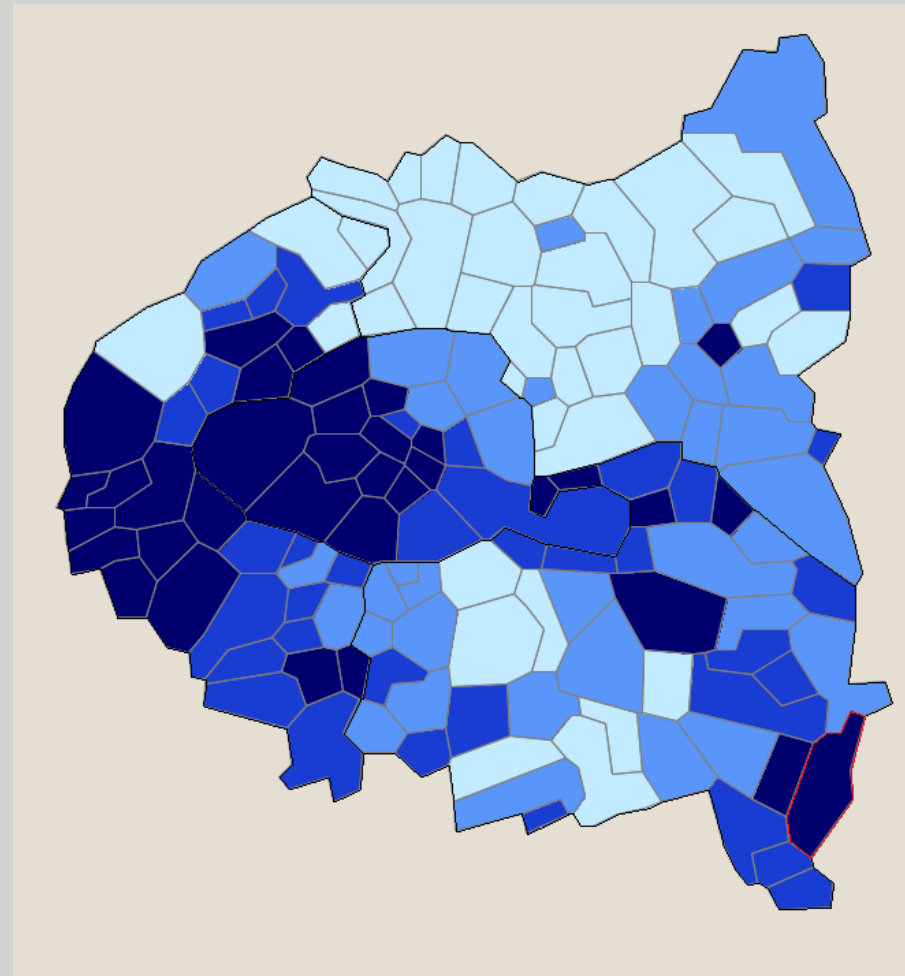
# HyperAtlas – Case Study 2

## Territorial monitoring at local scale

1-2-3-4

### Context

Global picture  
Département picture  
Local picture  
Summary maps  
  
Redistributions



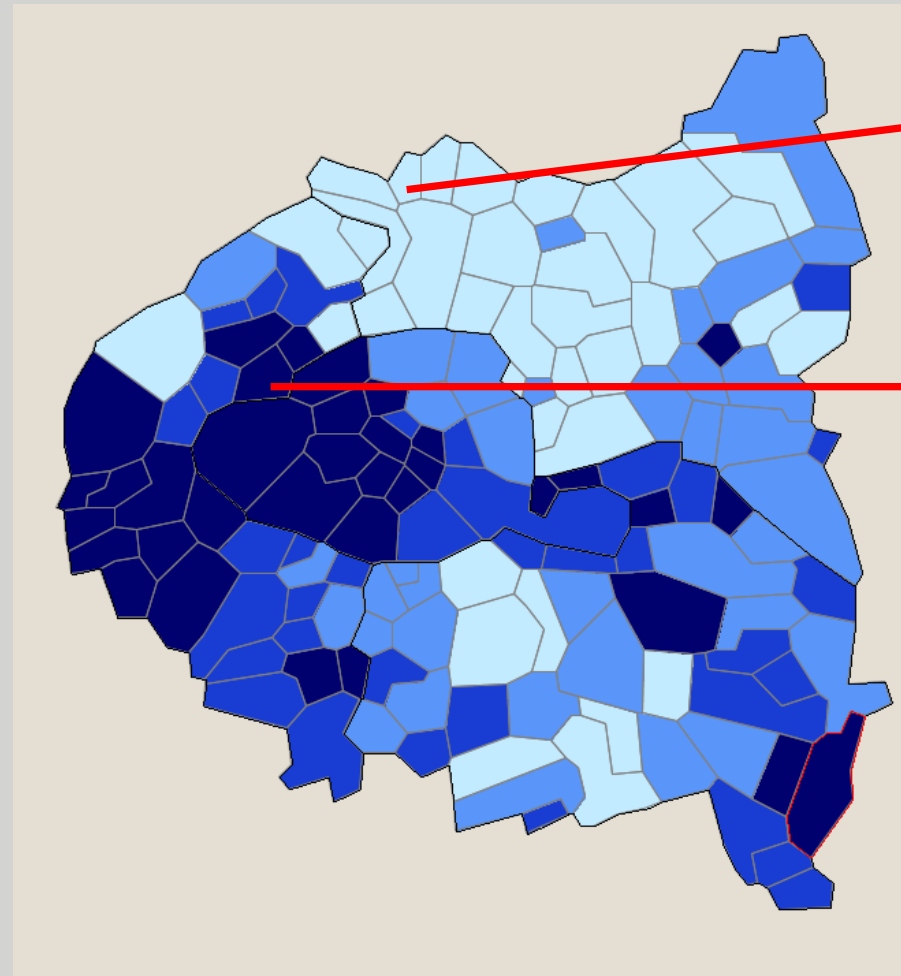
# HyperAtlas – Case Study 2



## Territorial monitoring at local scale



1-2-3-4

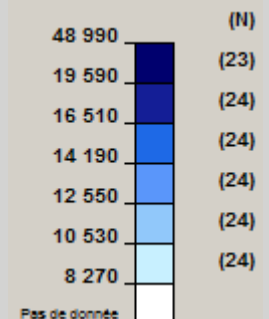
### Context

Global picture  
Département picture  
Local picture  
Summary maps  
  
Redistributions



Unité	Villetaneuse
Code NUTS	93079
Numérateur 	31 000 000
Dénominateur 	3 750
Ratio	8 270
Ecart relatif	
Ecart absolu	

Unité	Neuilly-sur-Seine
Code NUTS	92051
Numérateur 	1 280 000 000
Dénominateur 	26 100
Ratio	48 900
Ecart relatif	
Ecart absolu	



# HyperAtlas – Case Study 2

## Territorial monitoring at local scale

1-2-3-4

Context

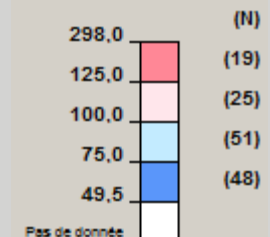
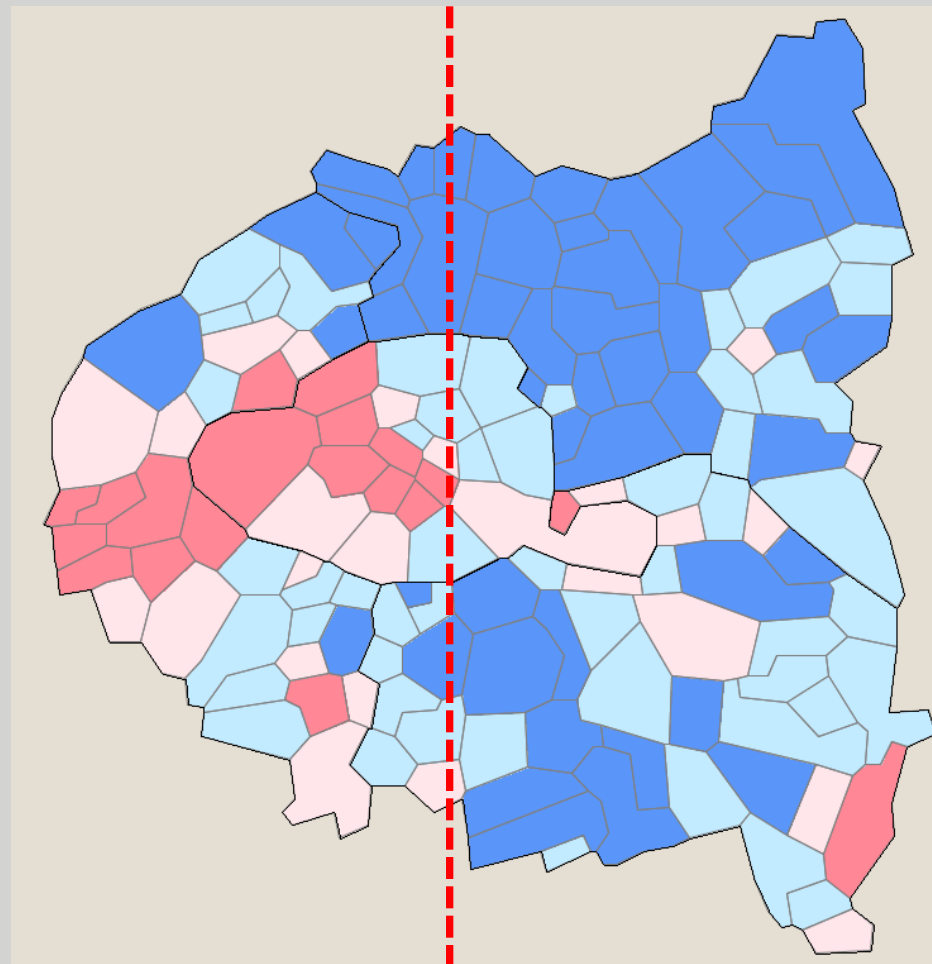
**Global picture**

Département picture

Local picture

Summary maps

Redistributions



# HyperAtlas – Case Study 2

## Territorial monitoring at local scale

1-2-3-4

Context

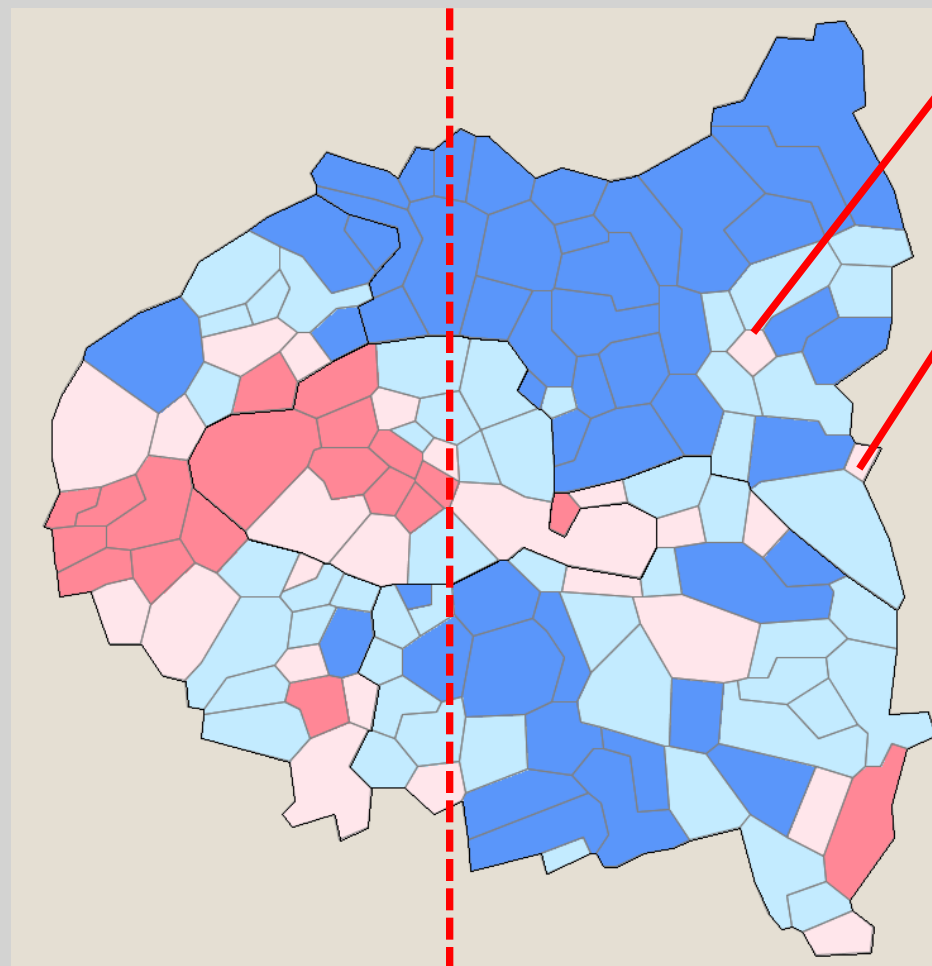
**Global picture**

Département picture

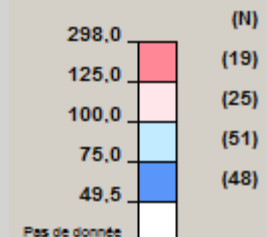
Local picture

Summary maps

Redistributions



2 municipalities  
from Seine-Saint-  
Denis above the  
average of Paris  
and its  
surrounding  
départements





# HyperAtlas – Case Study 2

## Territorial monitoring at local scale

1-2-3-4

Context

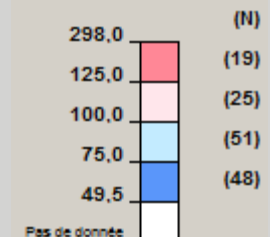
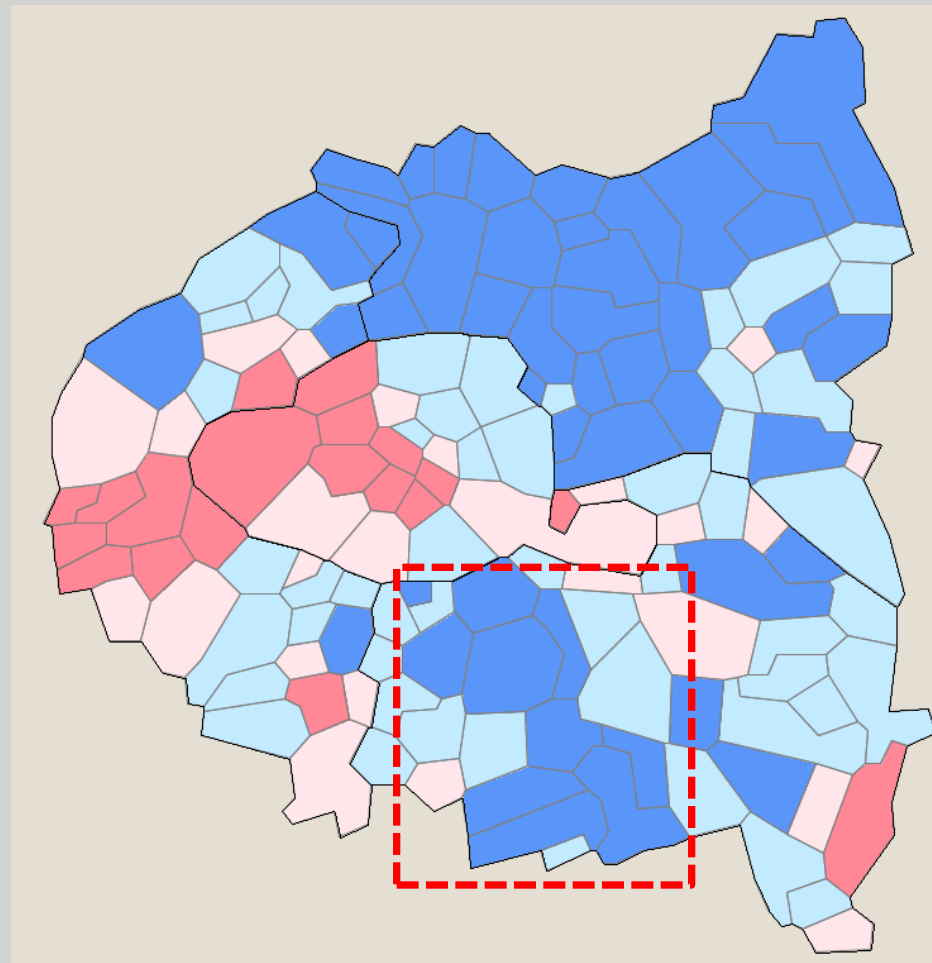
**Global picture**

Département picture

Local picture

Summary maps

Redistributions



# HyperAtlas – Case Study 2

## Territorial monitoring at local scale

1-2-3-4

Context

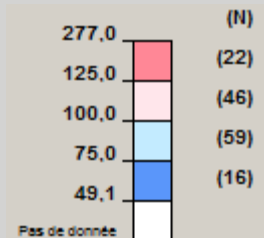
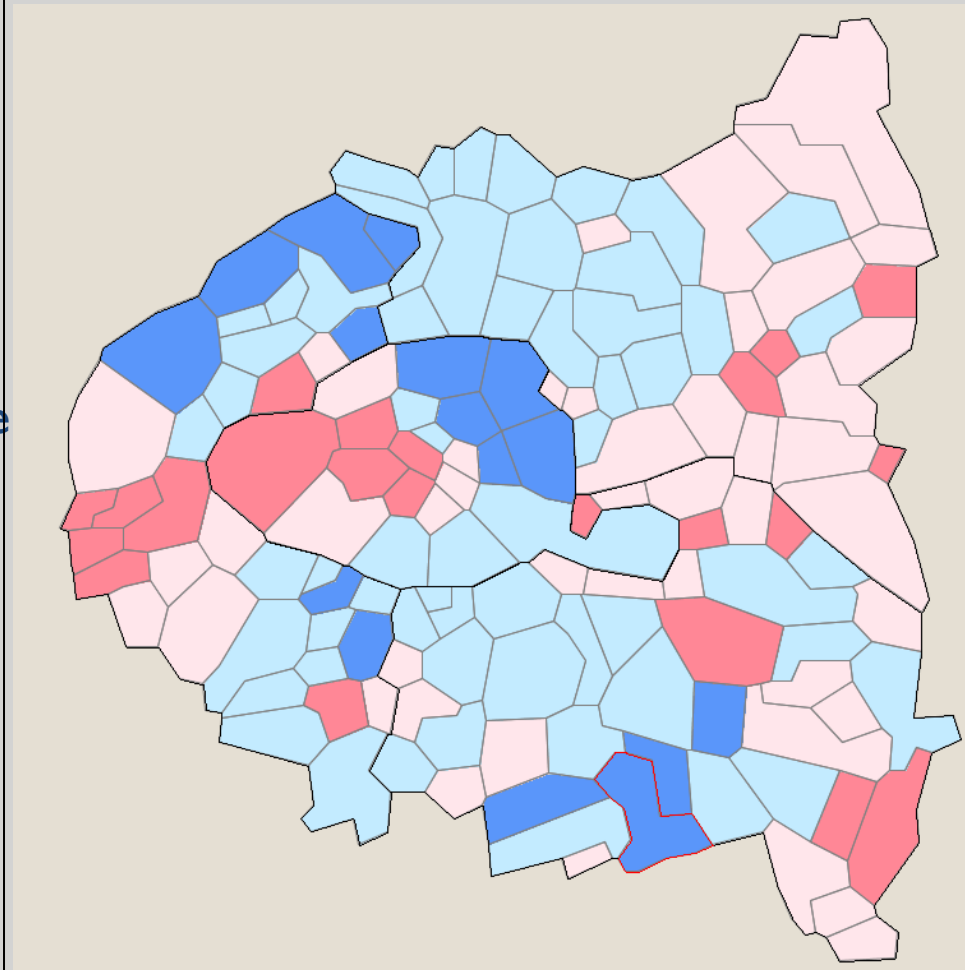
Global picture

**Département picture**

Local picture

Summary maps

Redistributions



# HyperAtlas – Case Study 2

## Territorial monitoring at local scale

1-2-3-4

Context

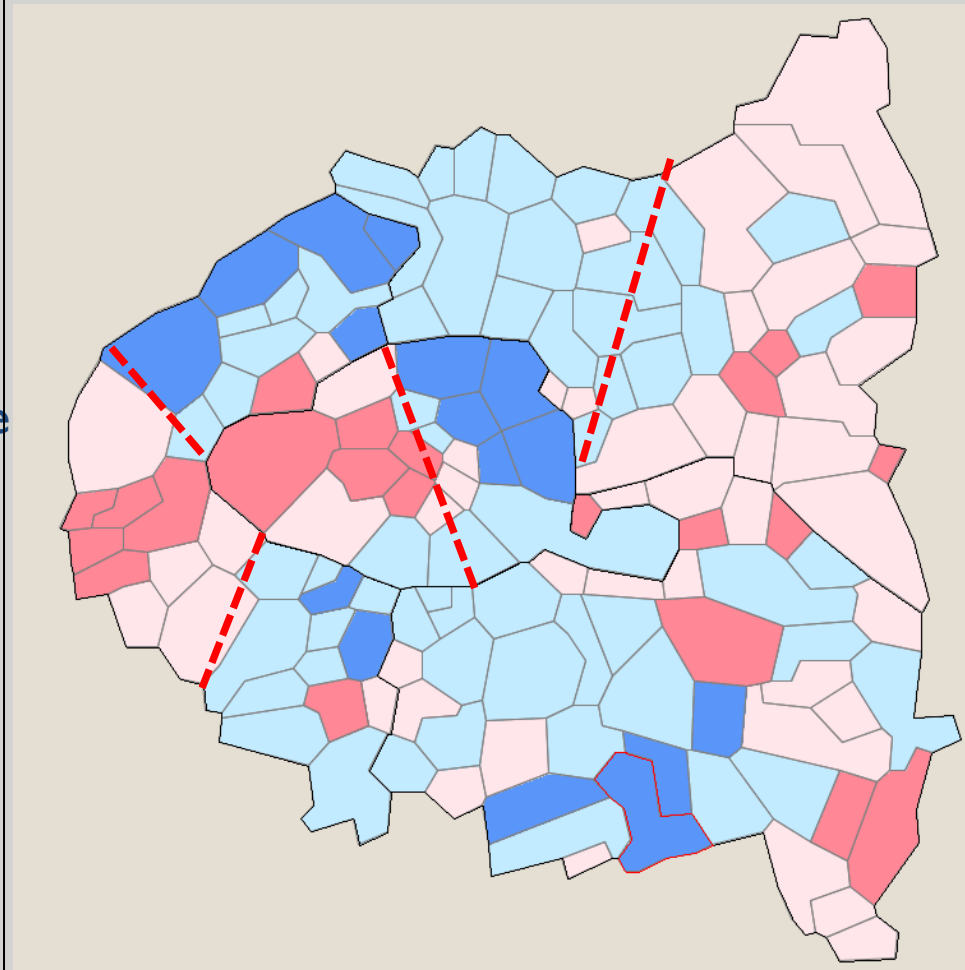
Global picture

**Département picture**

Local picture

Summary maps

Redistributions



# HyperAtlas – Case Study 2

## Territorial monitoring at local scale

1-2-3-4

Context

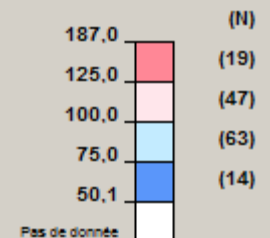
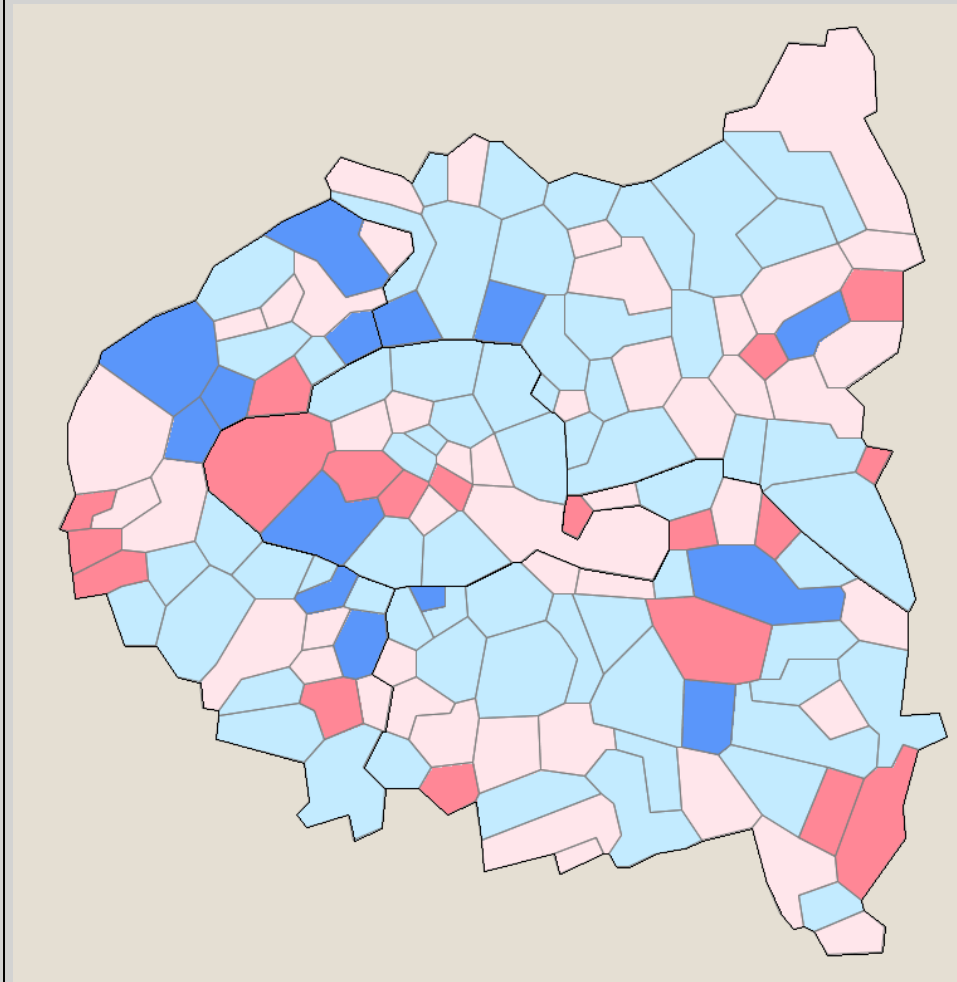
Global picture

Département picture

**Local picture**

Summary maps

Redistributions



# HyperAtlas – Case Study 2

## Territorial monitoring at local scale

1-2-3-4

Context

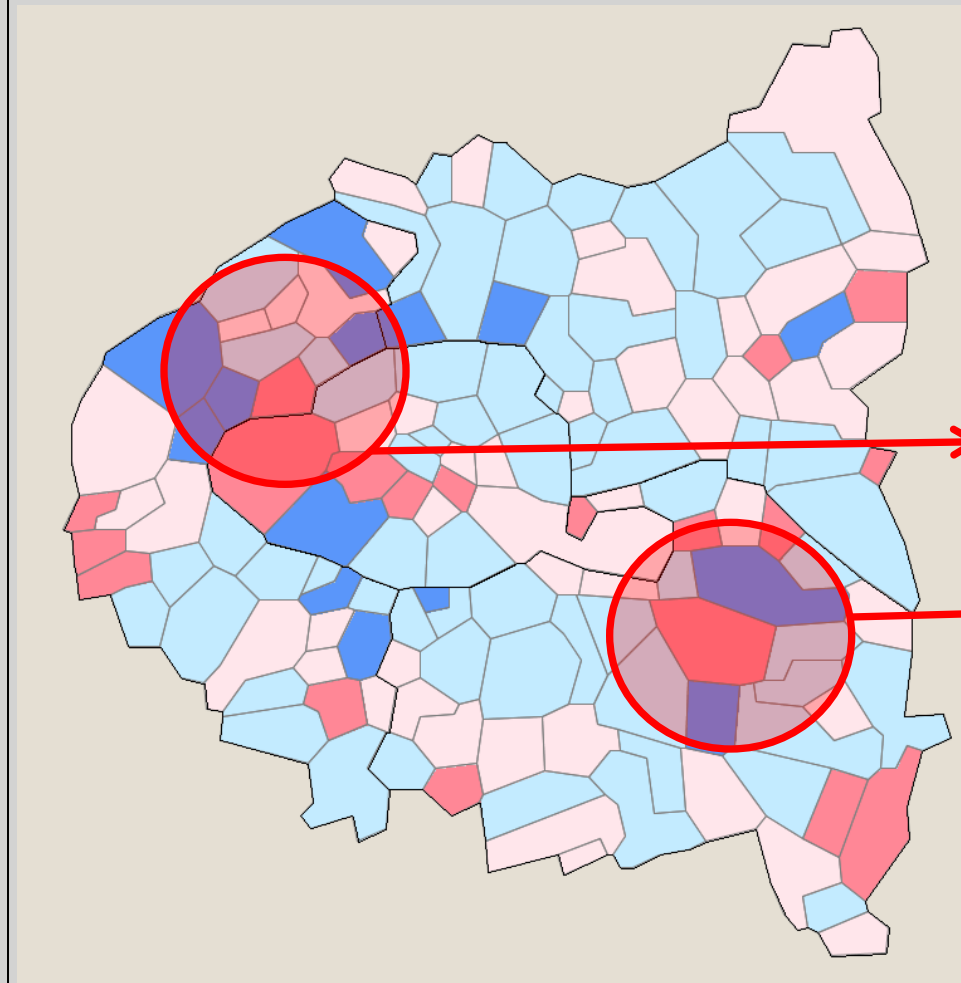
Global picture



Département picture



**Local picture**

Summary maps

Redistributions



Unité	Neuilly-sur-Seine
Code NUTS	92051
Numérateur 	1 280 000 000
Dénominateur 	26 100
Ratio	48 900
Ecart relatif	184 %
Ecart absolu	-584 596 864,00

Unité	Saint-Maur-des-Fo...
Code NUTS	94068
Numérateur 	601 000 000
Dénominateur 	32 500
Ratio	18 400
Ecart relatif	139 %
Ecart absolu	-168 638 304,00

	(N)
187,0	(19)
125,0	(47)
100,0	(63)
75,0	(14)
50,1	
Pas de donnée	

# HyperAtlas – Case Study 2

## Territorial monitoring at local scale

1-2-3-4

Context

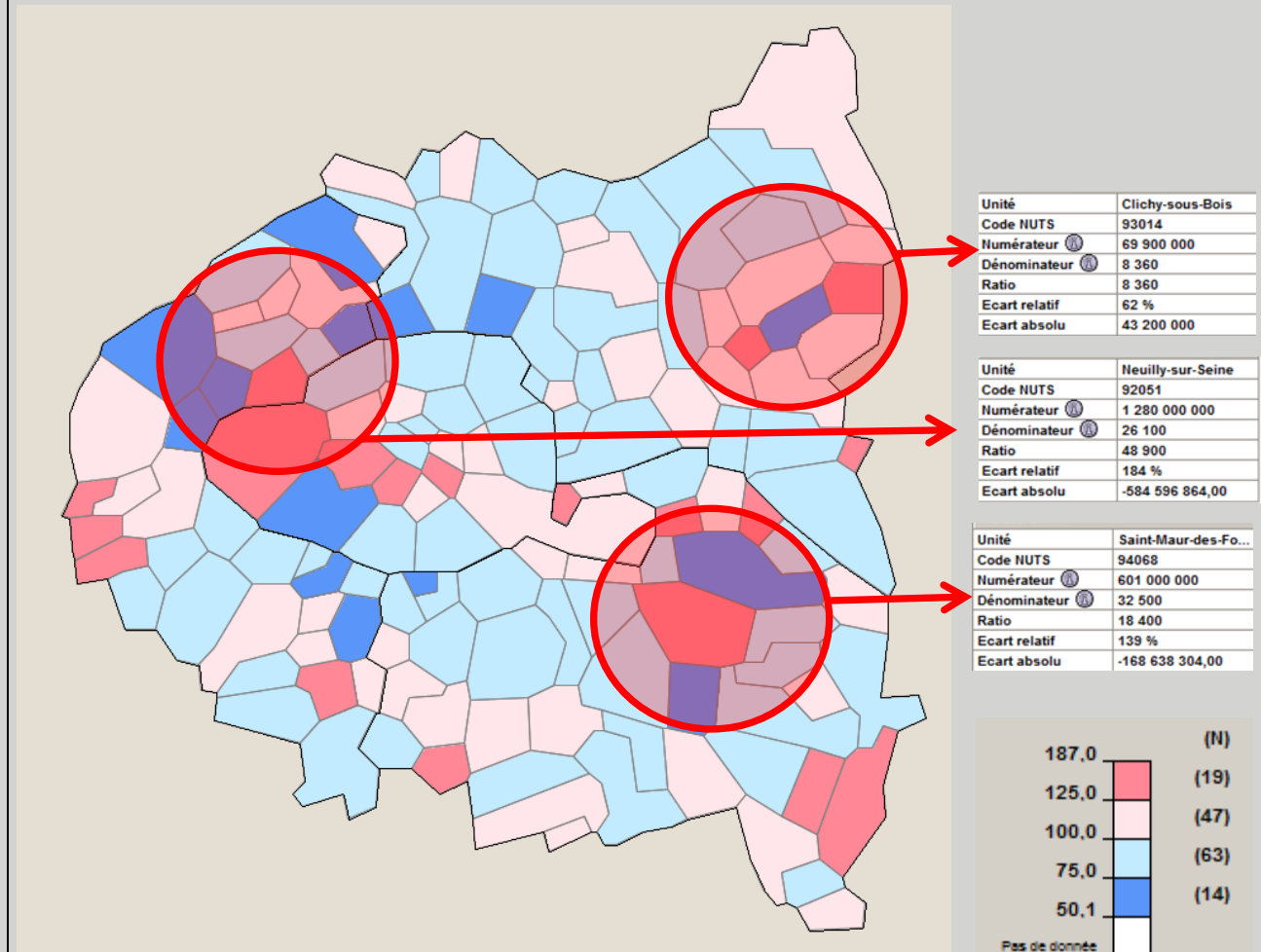
Global picture

Département picture

**Local picture**

Summary maps

Redistributions



# HyperAtlas – Case Study 2

## Territorial monitoring at local scale

1-2-3-4

Context

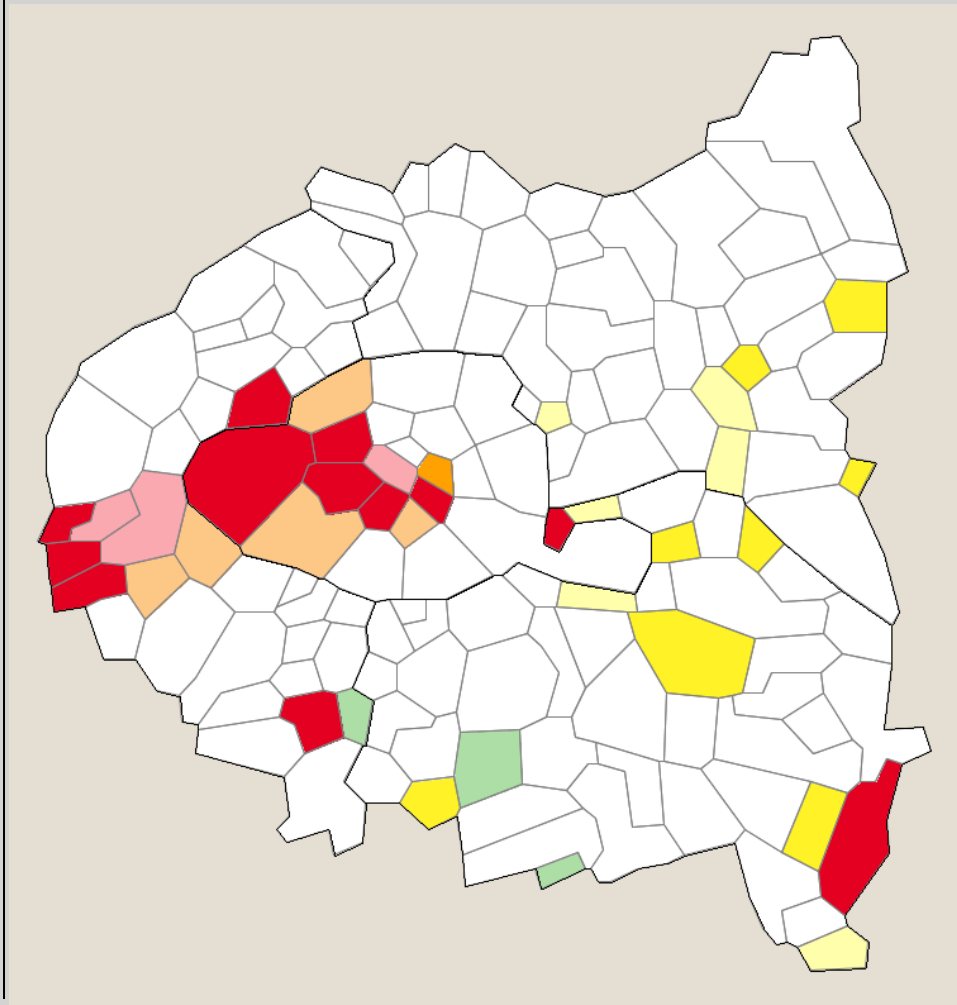
Global picture









Département picture

Local picture

**Summary maps**

Redistributions


**Favourable  
position**

	Général Ecart > 120%	Territorial Ecart > 120%	Spatial Ecart > 120%
	•	•	•
	•	•	
	•		•
	•		
		•	•
		•	
			•
			

# HyperAtlas – Case Study 2

## Territorial monitoring at local scale

1-2-3-4

Context

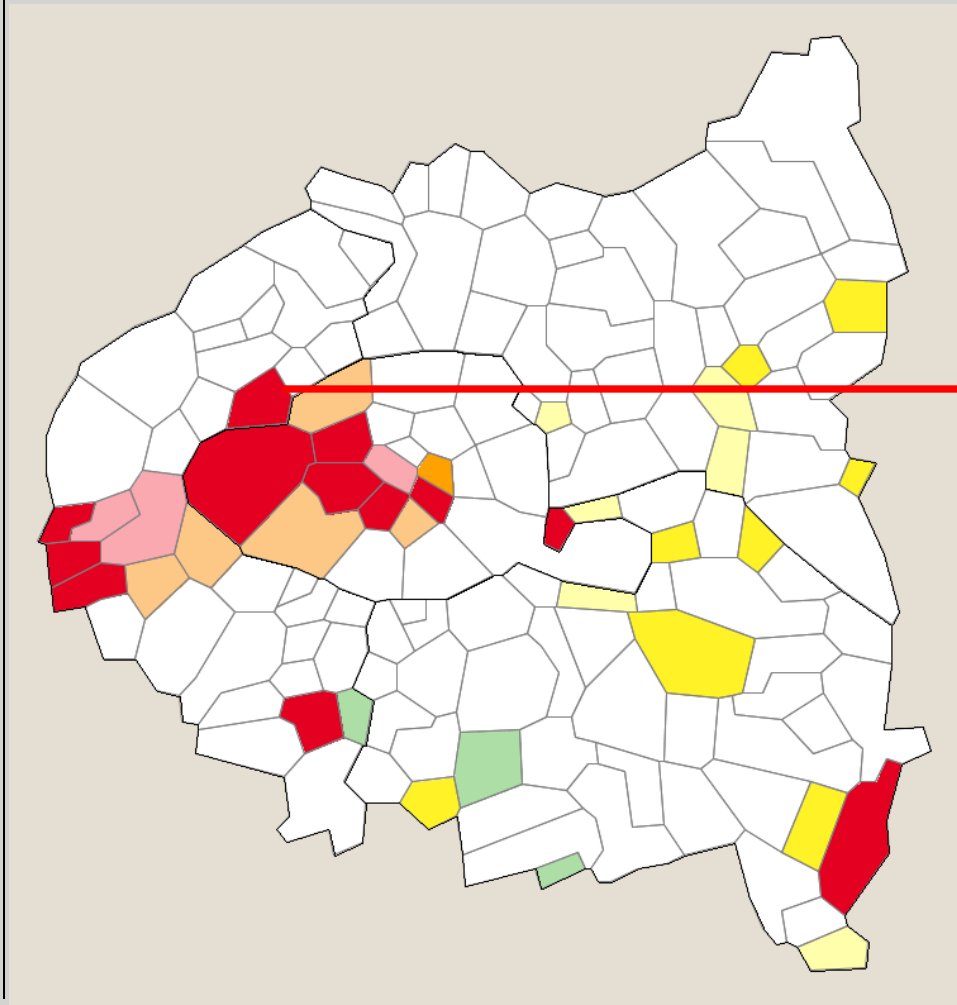
Global picture

Département picture

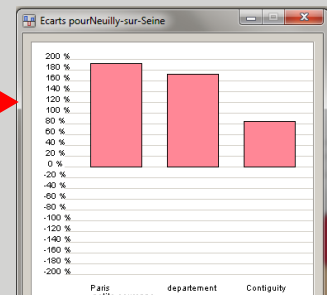
Local picture

**Summary maps**

Redistributions



**Favourable position**



	Général Ecart	Territorial Ecart	Spatial Ecart
> 120%	> 120%	> 120%	> 120%
	•	•	•
	•	•	
	•		•
	•		
		•	•
		•	
			•



# HyperAtlas – Case Study 2

## Territorial monitoring at local scale

1-2-3-4

Context

Global picture

Département picture

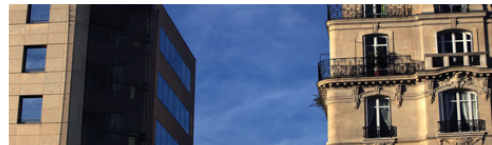
Local picture

Summary maps

Redistributions

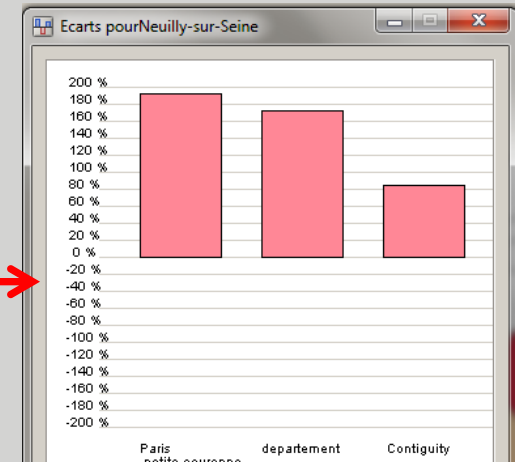
À Neuilly-sur-Seine, la ville anti-logements sociaux :  
« Une loi, c'est fait pour être détourné »

Neuilly-sur-Seine vient d'être épinglée une énième fois par la Fondation Abbé Pierre comme étant l'une des communes françaises les moins bien loties en logements sociaux. Reportage dans une ville-ghetto.



« La mixité c'est une bonne idée, mais si les gens habitent à Neuilly, ce n'est pas par hasard »... Debout dans l'entrée d'une bâtisse monumentale, Théodore et Timothée, 18 ans, expliquent à demi-mot l'attachement de leurs voisins à une certaine idée de l'entre-soi. Le long de leur rue privée et vidéo-surveillée, barrée à l'entrée par une grille et un digicode, les riverains sont peu loquaces. Remerciements polis, rire dédaigneux : ils opposent un « sans opinion » aux questions qui dérangent. « Il y a beaucoup de gens âgés qui prennent peur à Neuilly, se forcent à analyser les deux jeunes bacheliers. Il y a des gens qui ne sont pas très ouverts d'esprits, mais nous les jeunes, nous ne pouvons rien faire. »

Politis – 22 July 2011



# HyperAtlas – Case Study 2

## Territorial monitoring at local scale

1-2-3-4

Lagging  
position

Context

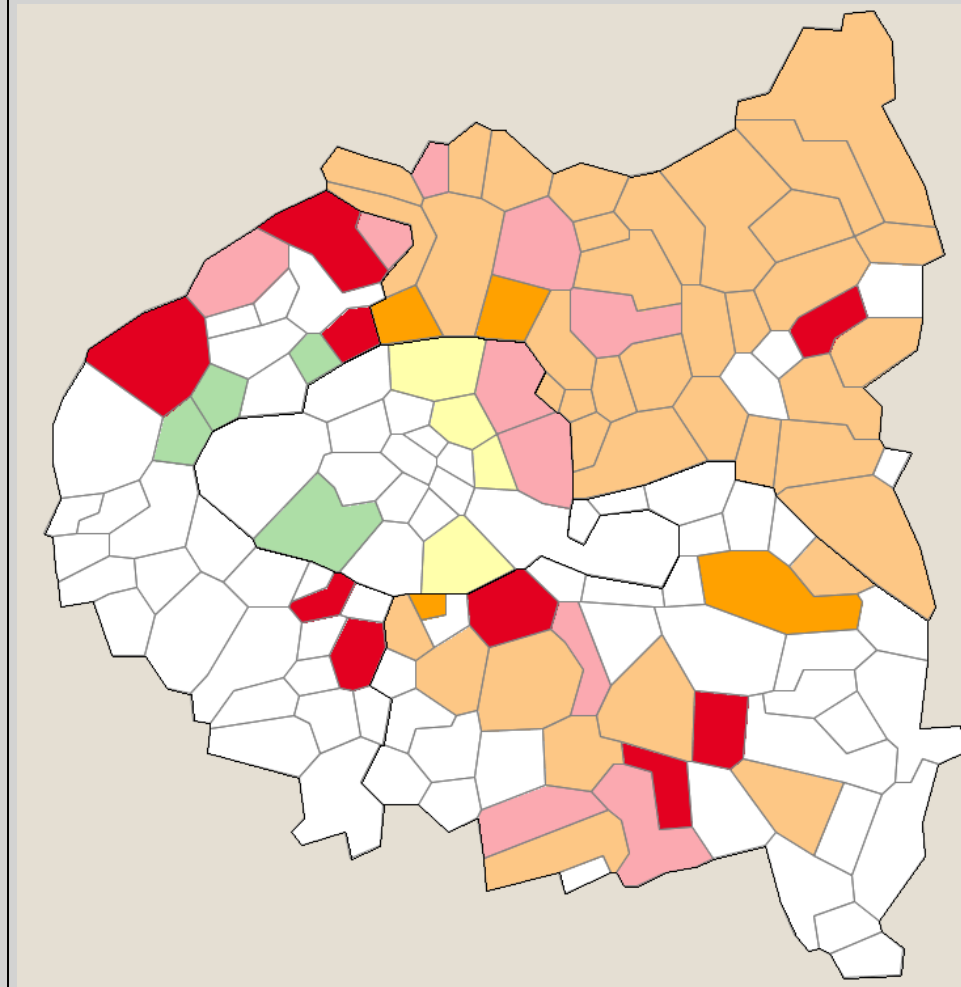
Global picture

Département picture

Local picture

**Summary maps**

Redistributions



	Général Ecart < 80%	Territorial Ecart < 80%	Spatial Ecart < 80%
	•	•	•
	•	•	
	•		•
	•		
		•	•
		•	
			•

# HyperAtlas – Case Study 2

## Territorial monitoring at local scale

1-2-3-4

Context

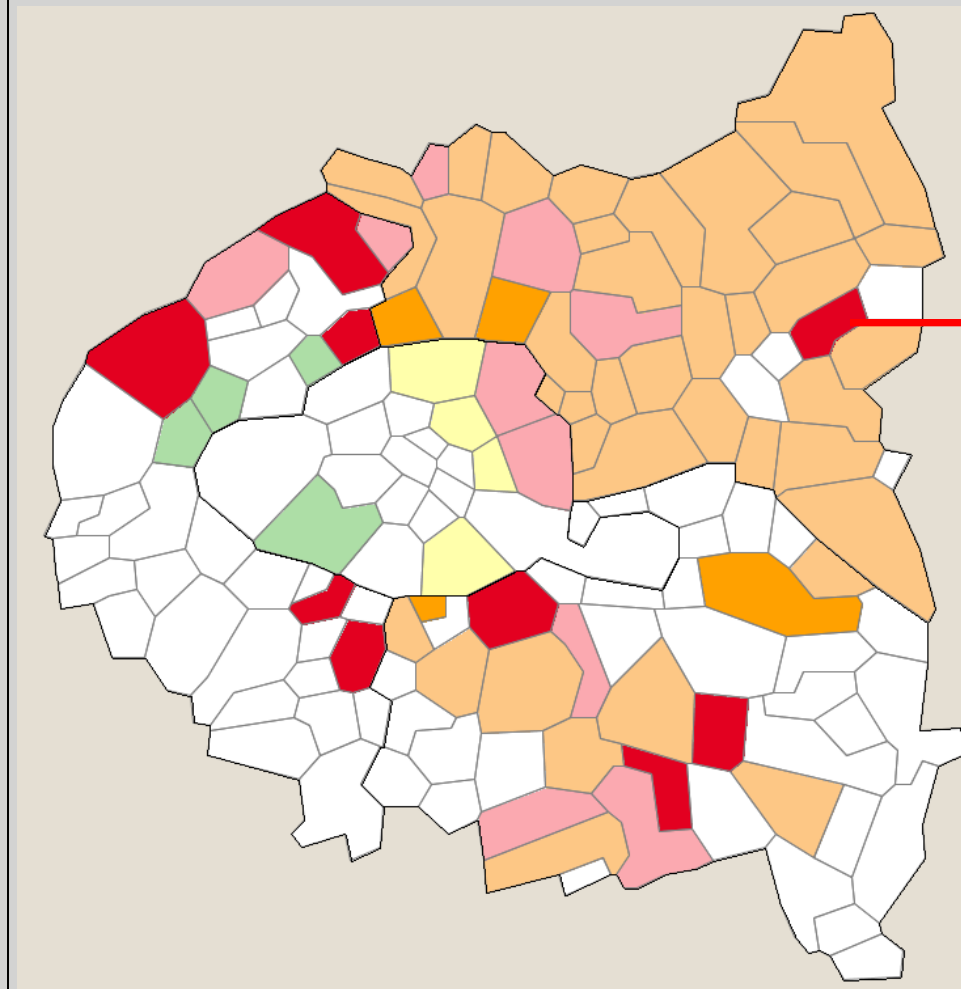
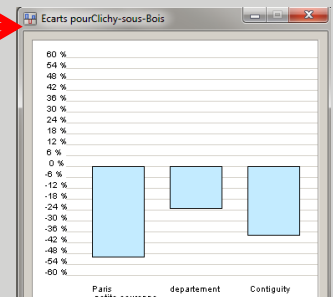
Global picture









Département picture

Local picture

**Summary maps**

Redistributions


**Lagging position**


	Général	Territorial	Spatial
Ecart	Ecart	Ecart	
< 80%	< 80%	< 80%	
	•	•	•
	•	•	
	•		•
	•		
		•	•
		•	
			•
			

# HyperAtlas – Case Study 2

## Territorial monitoring at local scale

1-2-3-4

Context

Global picture

Département picture

Local picture

**Summary maps**

Redistributions

### Clichy-sous- Bois, cinq ans après les émeutes

Par Laurent Chabrun, publié le 20/02/2010 à 10:08, mis à jour le 04/06/2013 à 10:03

Cinq ans après les émeutes qui ont enflammé cette banlieue du "9-3", comment vit-on dans la ville la plus pauvre de France? Vingt-quatre heures de l'existence d'une cité, entre misère et galères, trafics et débrouille, immeubles et habitants à l'abandon.

Partager 3 Tweeter 0 +1 0 Voter (5) 31 A+ A-



La cité du "chêne pointu" à Clichy sous Bois, ville la plus pauvre de France.

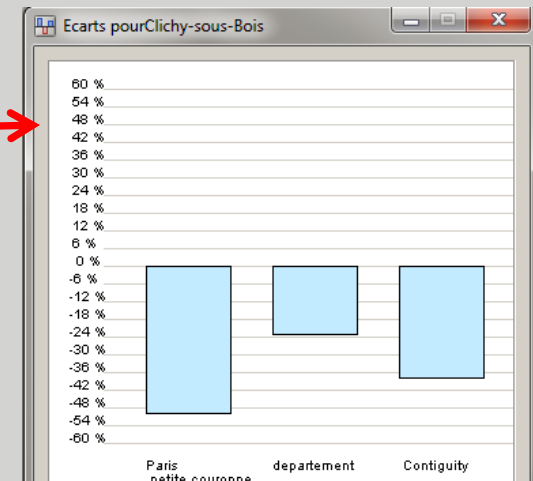
JPGuilloteau/L'Express

### 3h00 du matin

Sur le parking, entre les voitures, un conteneur à ordures est en feu. Les hautes flammes qui jaillissent illuminent les façades des immeubles. Quelques silhouettes surgissent aux fenêtres, jetant un oeil distrait. Au Chêne-Pointu, la cité de Clichy-sous-Bois (Seine-Saint-Denis), les habitants ne s'inquiètent plus, ils ont l'habitude. Deux jours auparavant, c'est un Renault Espace, vraisemblablement volé, qui a été dépecé dans un parking avant

### Mort de Zyed et Bouna à Clichy-sous-Bois

- Mort de Zyed et Bouna: les deux policiers seront jugés en correctionnelle
- Mort de Zyed et Bouna: le parquet réclame un non-lieu pour les policiers

**L'Express – 20 February 2010**


# HyperAtlas – Case Study 2

## Territorial monitoring at local scale

1-2-3-4

Context

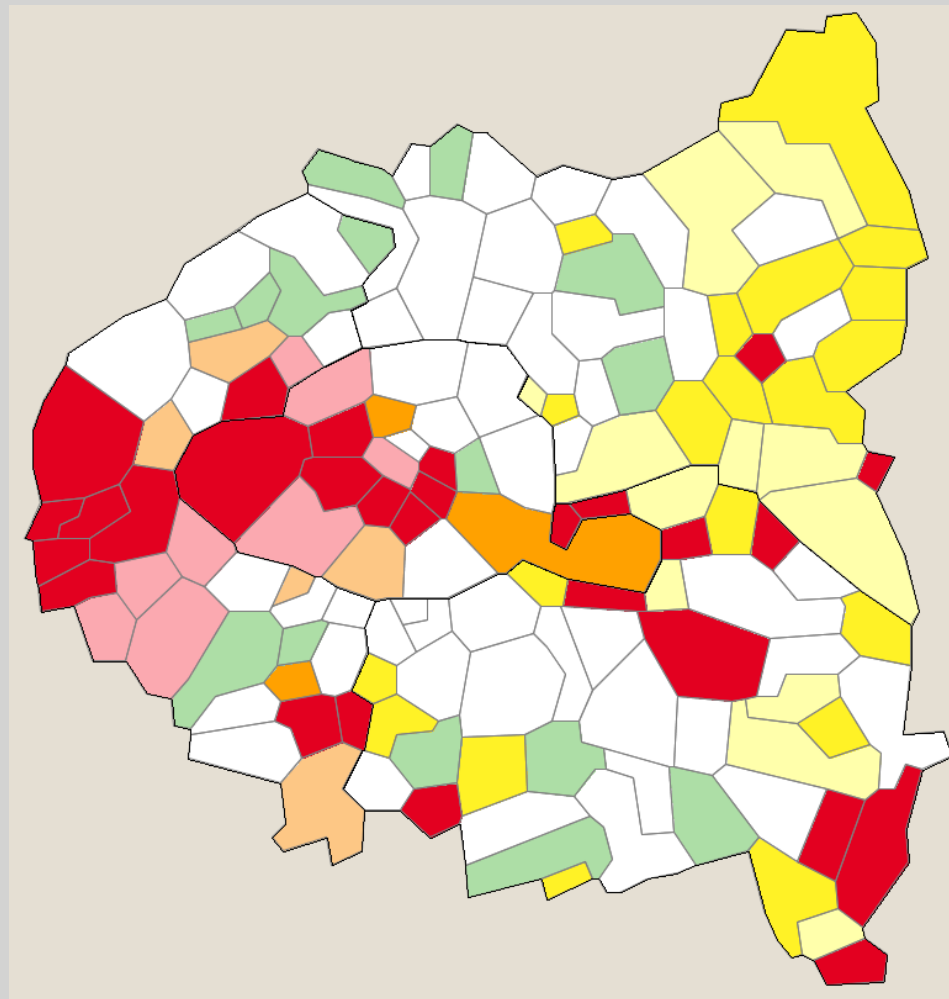
Global picture








Département picture

Local picture

**Summary maps**

Redistributions


**Contradictory situations**

	Général Ecart > 120%	Territorial Ecart > 120%	Spatial Ecart > 120%
	•	•	•
	•	•	
	•		•
	•		
		•	•
		•	
			•

# HyperAtlas – Case Study 2

## Territorial monitoring at local scale

1-2-3-4

Context

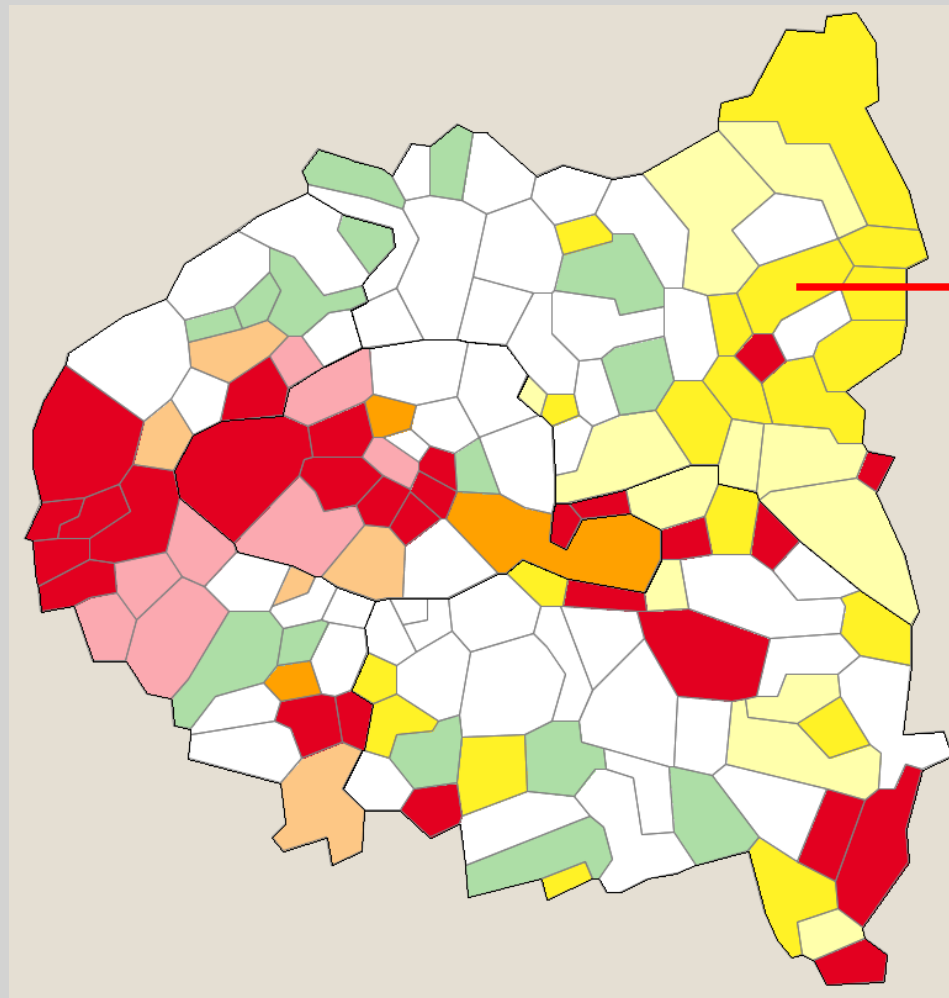
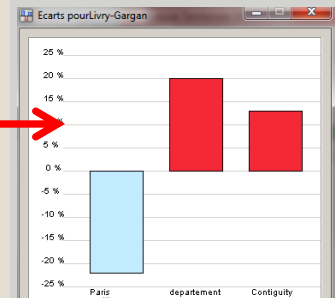
Global picture

Département picture

Local picture

**Summary maps**

Redistributions


**Contradictory situations**


	Général Ecart > 120%	Territorial Ecart > 120%	Spatial Ecart > 120%
Red	•	•	•
Pink	•	•	
Orange	•		•
Light Orange	•		
Yellow		•	•
Light Yellow		•	
Green			•
White			



# HyperAtlas – Case Study 2

## Territorial monitoring at local scale

1-2-3-4

Context

Global picture

Département picture

Local picture

Summary maps

Redistributions

### Le tramway qui divise des communes riches et pauvres de l'est du 93

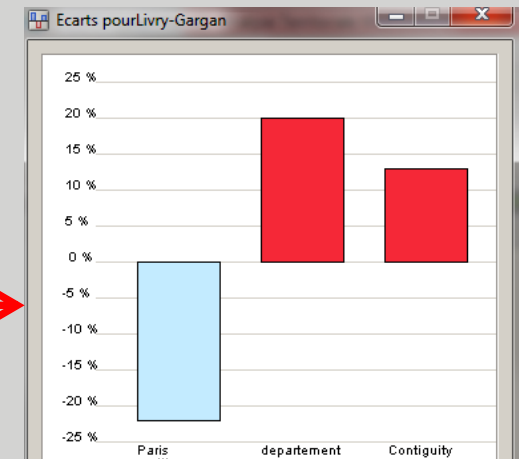
Recommend 154 Tweet 94 +1 3



Calicots anti tramway à Livry-Gargan (DR)

T4, une lettre et un chiffre qui cristallisent toutes les passions dans l'est de la Seine-Saint-Denis. Ce projet de tramway, moins médiatisé que le Grand Paris express, le super métro attendu en Ile-de-France, est cœur d'une bagarre qui agite depuis sept ans les communes de Clichy-sous-Bois, Montfermeil d'un côté, et Livry-Gargan et Pavillons-sous-Bois de l'autre. Et c'est dans une ambiance de veillée d'armes qu'est attendu fin février le résultat de la commission d'enquête suite à la consultation publique qui vient de s'achever.

Sur les bords de la route nationale à l'entrée de Livry-Gargan, des panneaux annoncent déjà « Non au tracé 4 », du nom du parcours prévu du futur tramway à l'intérieur de la commune. A chaque carrefour, des calicots qui proclament « Notre quartier en danger ! ». Alain Calmat, maire divers gauche, n'a pas ménagé sa peine pour mettre en scène le refus de ses administrés. Le site de sa ville garde le même ton alarmiste avec un dessin agrémenté de feux signalant tous les embouteillages que le futur tramway ne manquera pas de provoquer. « C'est un projet aberrant, hyper surestimé sur ses capacités, hors de prix et destructeur pour nos deux villes », résume-t-il.



Le Monde – 5 February 2013

# HyperAtlas – Case Study 2

## Territorial monitoring at local scale

1-2-3-4

Context

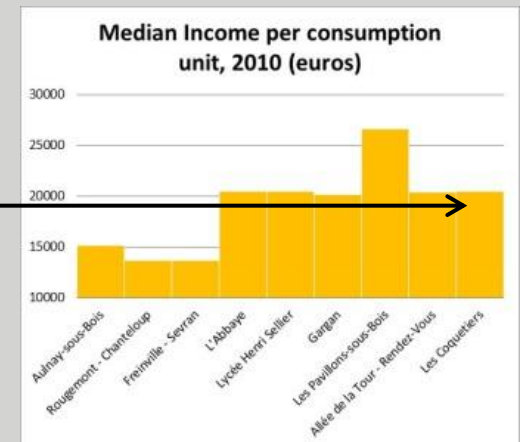
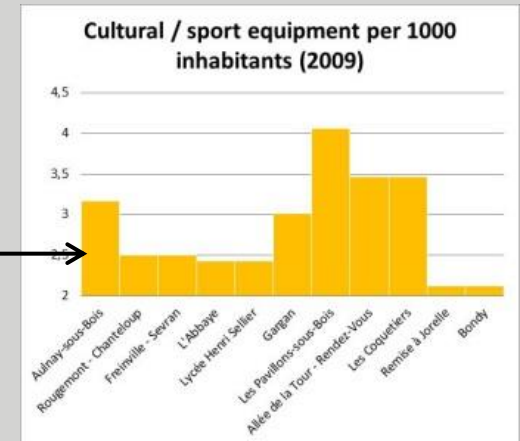
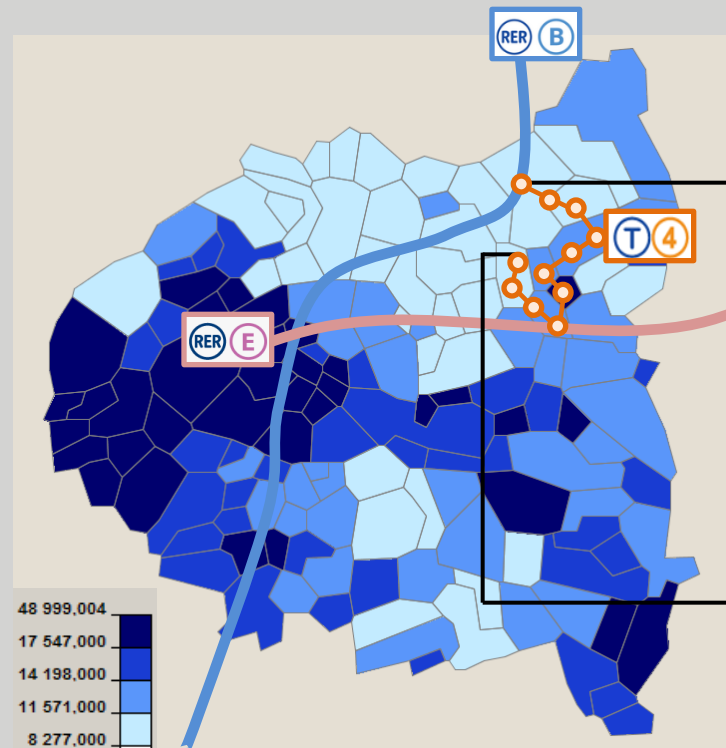
Global picture

Département picture

Local picture

**Summary maps**

Redistributions



Data source : INSEE, 2014



# HyperAtlas – Case Study 2

## Territorial monitoring at local scale

1-2-3-4

Context

Global picture

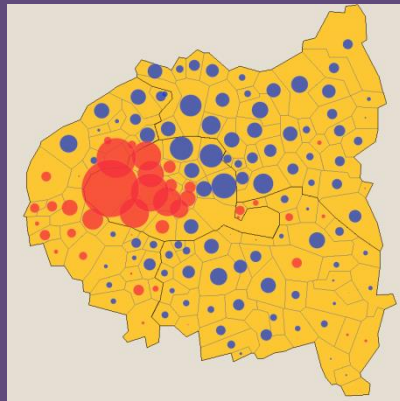
Département picture

Local picture

Summary maps

### Redistributions

« Great Paris »  
Equalization



Neuilly :- 845 million €  
Clichy-/s-Bois: + 69,9 million €

département  
Equalization



Neuilly :- 813 million €  
Clichy-/s-Bois: + 20,6 million €

local  
Equalization



Neuilly :- 585 million €  
Clichy-/s-Bois: + 43,2 million €

# HyperAtlas – Case Study 2

## Territorial monitoring at local scale

1-2-3-4

Context

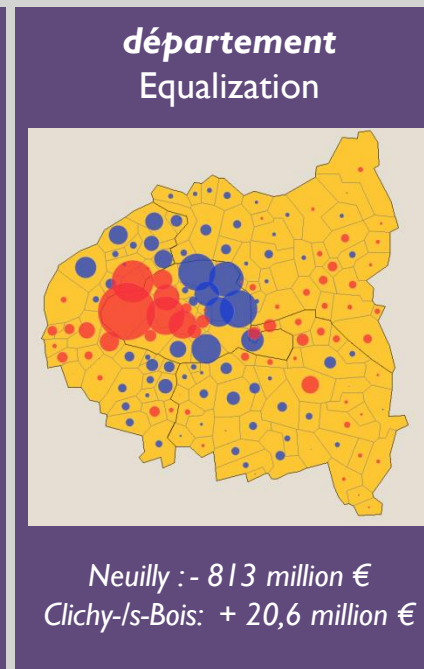
Global picture

Département picture

Local picture

Summary maps

### Redistributions



# HyperAtlas – Case Study 2

## Territorial monitoring at local scale

1-2-3-4

Context

Global picture

Département picture

Local picture

Summary maps

### Redistributions

« Great Paris »  
Equalization



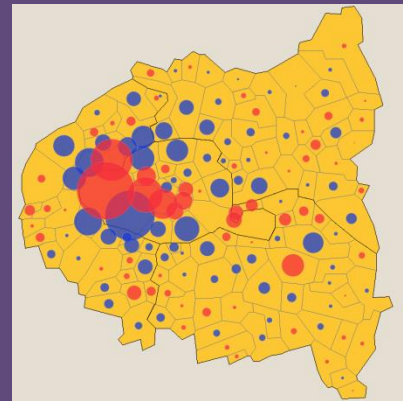
Neuilly : - 845 million €  
Clichy-/s-Bois: + 69,9 million €

département  
Equalization



Neuilly : - 813 million €  
Clichy-/s-Bois: + 20,6 million €

local  
Equalization



Neuilly : - 585 million €  
Clichy-/s-Bois: + 43,2 million €

# HyperAtlas – Case Study 2

## Territorial monitoring at local scale

1-2-3-4

Context

Global picture

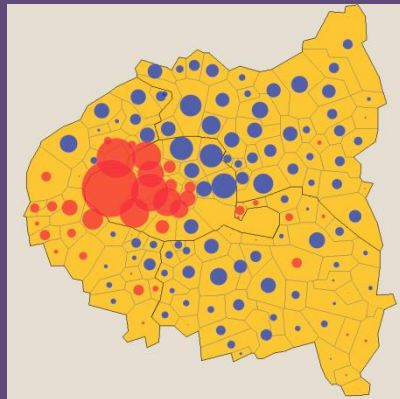
Département picture

Local picture

Summary maps

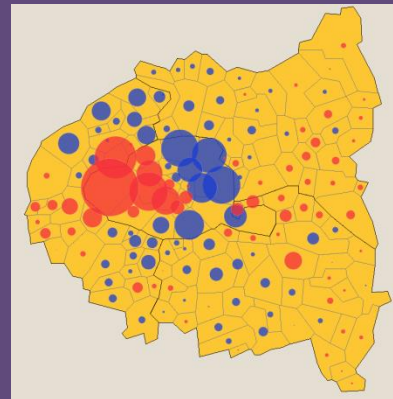
### Redistributions

« Great Paris »  
Equalization



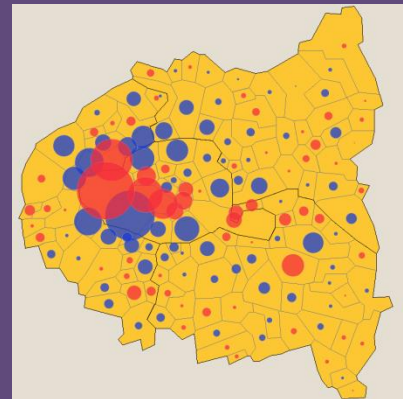
Neuilly : - 845 million €  
Clichy-/s-Bois: + 69,9 million €

département  
Equalization



Neuilly : - 813 million €  
Clichy-/s-Bois: + 20,6 million €

local  
Equalization



Neuilly : - 585 million €  
Clichy-/s-Bois: + 43,2 million €

# How To?



**ESPON HyperAtlas**  
**Web Version**  
**Standalone Desktop Application**

**ESPON HyperAdmin**  
**Web Version**  
**Get new Stocks from...**

**... The ESPON Database Portal**  
**Search Query**  
**Case Study**  
**Resources**

# ESPON HyperAtlas Web Version

<http://hypercarte.espon.eu/>

The screenshot shows a web browser window with the URL [hypercarte.espon.eu/HyperCarte/initLicense.action](http://hypercarte.espon.eu/HyperCarte/initLicense.action). The page features the ESPON logo at the top, followed by a navigation bar with links: Home, HyperAtlas, Dataset, Log in, and Help. Below the navigation bar is a map of Europe. The main content area displays a welcome message and a license agreement for the ESPON 2013 HyperAtlas. The license text states: "This application is protected by copyright law. © ESPON, 2013. All rights reserved. Please read the terms and conditions of use carefully." Below the text are two radio buttons: "Decline the license" and "Accept the license", followed by a "Submit" button. A note at the bottom indicates that the HyperAtlas Applet requires a Java Runtime Environment version 1.5 or upper (prefer 1.6) and provides a link to "Verify". The footer includes a row of European Union member state flags, links for FAQ, Contact, Links, Site Map, and Legal Notice, and a statement of support from the European Union and the European Regional Development Fund.

ESPON

Home

HyperAtlas Dataset Log in Help

Welcome to ESPON HyperAtlas

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FAQ Contact Links Site Map Legal Notice

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www.espon.eu/main/

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# ESPON HyperAtlas Web Version

The screenshot shows a web browser window with the URL `hypercarte.espon.eu/HyperCarte/initLicense.action`. The page features the ESPON logo at the top and a navigation bar with links: [HyperAtlas](#), [Dataset](#), [Log in](#), and [Help](#). The main content area displays a "Welcome to ESPON HyperAtlas" message followed by the "ESPON 2013 HyperAtlas Terms and Conditions of Use". A text box contains the following text:

This application is protected by copyright law.  
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Please read the terms and conditions of use carefully.

Below the text box are two radio buttons: ☐ Decline the license and ☐ Accept the license. A "Submit" button is located below the radio buttons. A blue callout bubble points to the "Accept the license" option with the text: "0) Verify your JRE version (Java Runtime Environment > 1.5)".

At the bottom of the page, there is a row of flags representing various European countries, followed by links: [FAQ](#), [Contact](#), [Links](#), [Site Map](#), and [Legal Notice](#). The footer includes the European Union logo and the text: "EUROPEAN UNION Part-financed by the European Regional Development Fund INVESTING IN YOUR FUTURE". The URL `www.espon.eu/main/` is visible in the bottom left corner.

# ESPON HyperAtlas Web Version

The screenshot shows a web browser window with the address bar displaying `hypercarte.espon.eu/HyperCarte/initLicense.action`. The page features the ESPON logo at the top, followed by a "Home" link and a navigation bar with "HyperAtlas", "Dataset", "Log in", and "Help". The main content area is titled "Welcome to ESPON HyperAtlas" and contains a box with the following text:

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Please read the terms and conditions of use carefully.

Below this text are two radio buttons: "Decline the license" and "Accept the license". A "Submit" button is positioned below the "Accept the license" option. A note at the bottom states: "Please note that HyperAtlas Applet requires a Java Runtime Environment version 1.5 or upper (prefer 1.6) - [Verify](#)". The footer includes a row of European Union member state flags, links for "FAQ", "Contact", "Links", "Site Map", and "Legal Notice", and a logo for the European Union with the text "EUROPEAN UNION Part-financed by the European Regional Development Fund INVESTING IN YOUR FUTURE". The bottom left corner shows the URL `www.espon.eu/main/` and the bottom right corner indicates the page is "Powered by HyperCarte Research Group for ESPON - Version 1.0.2 r636 build 201104151055".

1) Read the Terms and Conditions of Use



# ESPON HyperAtlas Web Version

The screenshot shows a web browser window with the URL `hypercarte.espon.eu/HyperCarte/initLicense.action`. The page features the ESPON logo at the top, a navigation bar with links for Home, HyperAtlas, Dataset, Log in, and Help, and a map of Europe. The main content area displays the 'Welcome to ESPON HyperAtlas' message and the 'ESPON 2013 HyperAtlas Terms and Conditions of Use'. A blue callout box with the text '2) Accept the license' points to the 'Accept the license' radio button. Below the radio buttons is a 'Submit' button. A note at the bottom states: 'Please note that HyperAtlas Applet requires a Java Runtime Environment version 1.5 or upper (prefer 1.6) - Verify'. The footer includes a row of European flags, links for FAQ, Contact, Links, Site Map, and Legal Notice, and a logo for the European Union with the text 'EUROPEAN UNION Part-financed by the European Regional Development Fund INVESTING IN YOUR FUTURE'. The bottom left corner shows the URL `www.espon.eu/main/` and the bottom right corner shows the text 'Powered by HyperCarte Research Group for ESPON - Version 1.0.2 r636 build 201104151055'.

ESPON

Home

HyperAtlas Dataset Log in Help

Welcome to ESPON HyperAtlas

ESPON 2013 HyperAtlas  
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☐ Decline the license ☐ Accept the license

Submit

Please note that HyperAtlas Applet requires a Java Runtime Environment version 1.5 or upper (prefer 1.6) - [Verify](#)

FAQ Contact Links Site Map Legal Notice

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www.espon.eu/main/

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# ESPON HyperAtlas Web Version

The screenshot shows a web browser window with the URL `hypercarte.espon.eu/HyperCarte/initLicense.action`. The page features the ESPON logo at the top, followed by a "Home" link and a map of Europe. A navigation bar includes links for "HyperAtlas", "Dataset", "Log in", and "Help". The main content area displays a "Welcome to ESPON HyperAtlas" message and a box for the "ESPON 2013 HyperAtlas Terms and Conditions of Use". Inside this box, it states: "This application is protected by copyright law. © ESPON, 2013. All rights reserved. Please read the terms and conditions of use carefully." Below the box, there are two radio buttons: "Decline the license" and "Accept the license". A blue callout bubble points to a "Submit" button with the text "3) Submit". At the bottom, there is a note about the Java Runtime Environment version and a row of European flags. The footer contains links for "FAQ", "Contact", "Links", "Site Map", and "Legal Notice", along with the European Union logo and funding information.

ESPON

Home

HyperAtlas Dataset Log in Help

Welcome to ESPON HyperAtlas

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☐ Decline the license ☐ Accept the license

Submit

3) Submit

Please note that HyperAtlas Applet requires a Java Runtime Environment version 1.5 or upper (prefer 1.6) - [Verify](#)

FAQ Contact Links Site Map Legal Notice

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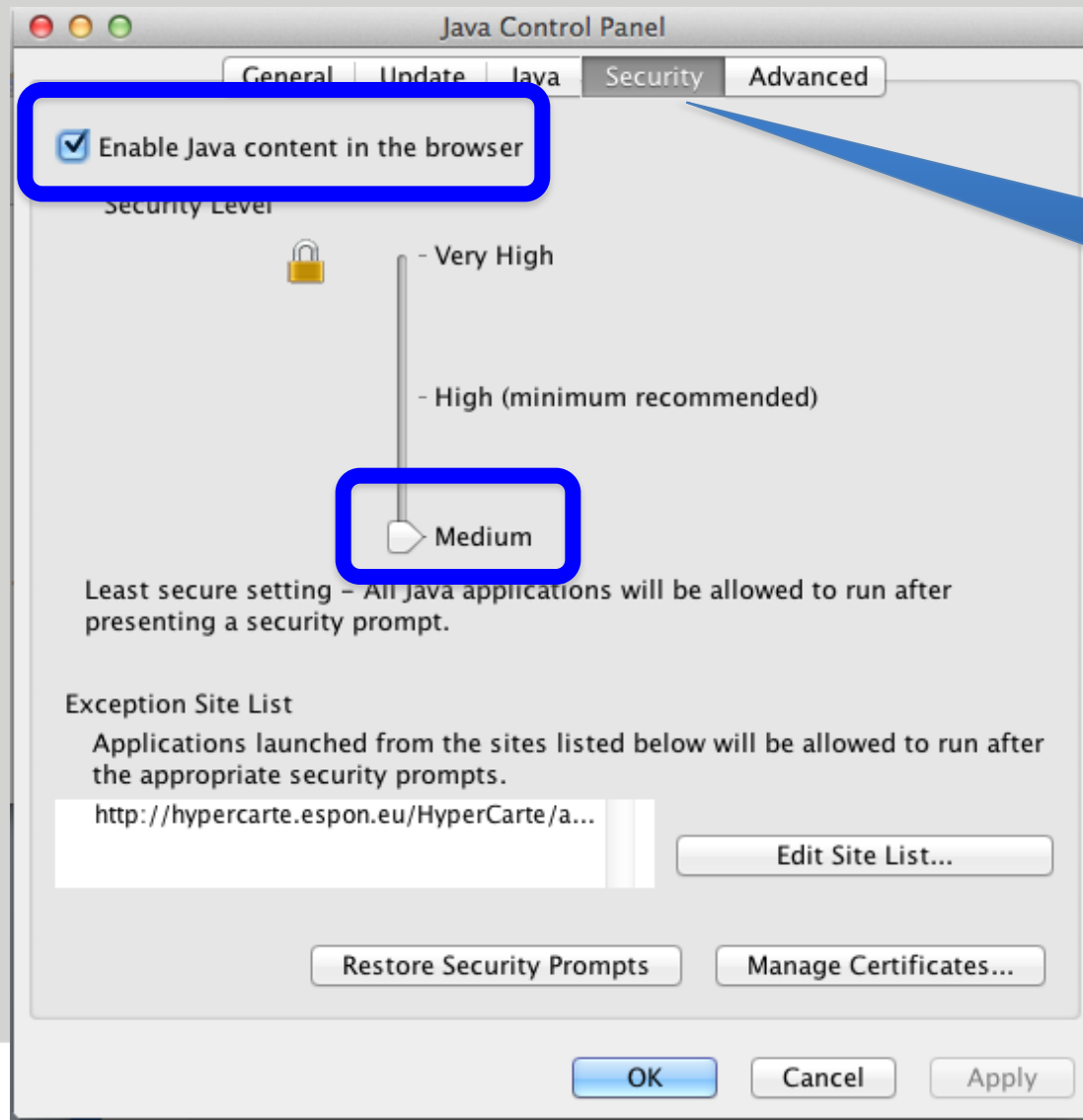
www.espon.eu/main/

Powered by HyperCarte Research Group for ESPON - Version 1.0.2 r636 build 201104151055

## ESPON HyperAtlas Web Version

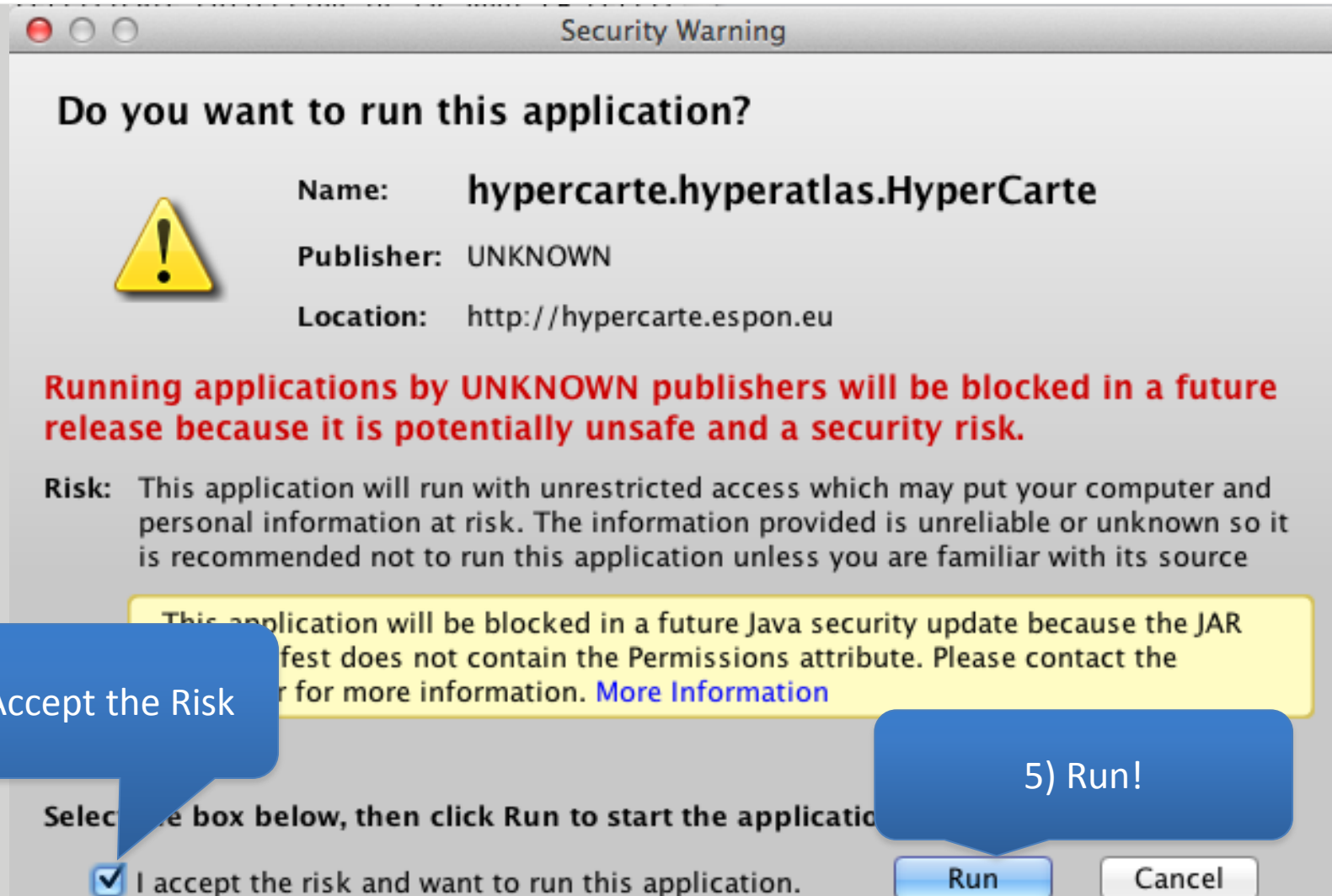


## ESPON HyperAtlas Web Version



Configure  
your Java  
Settings

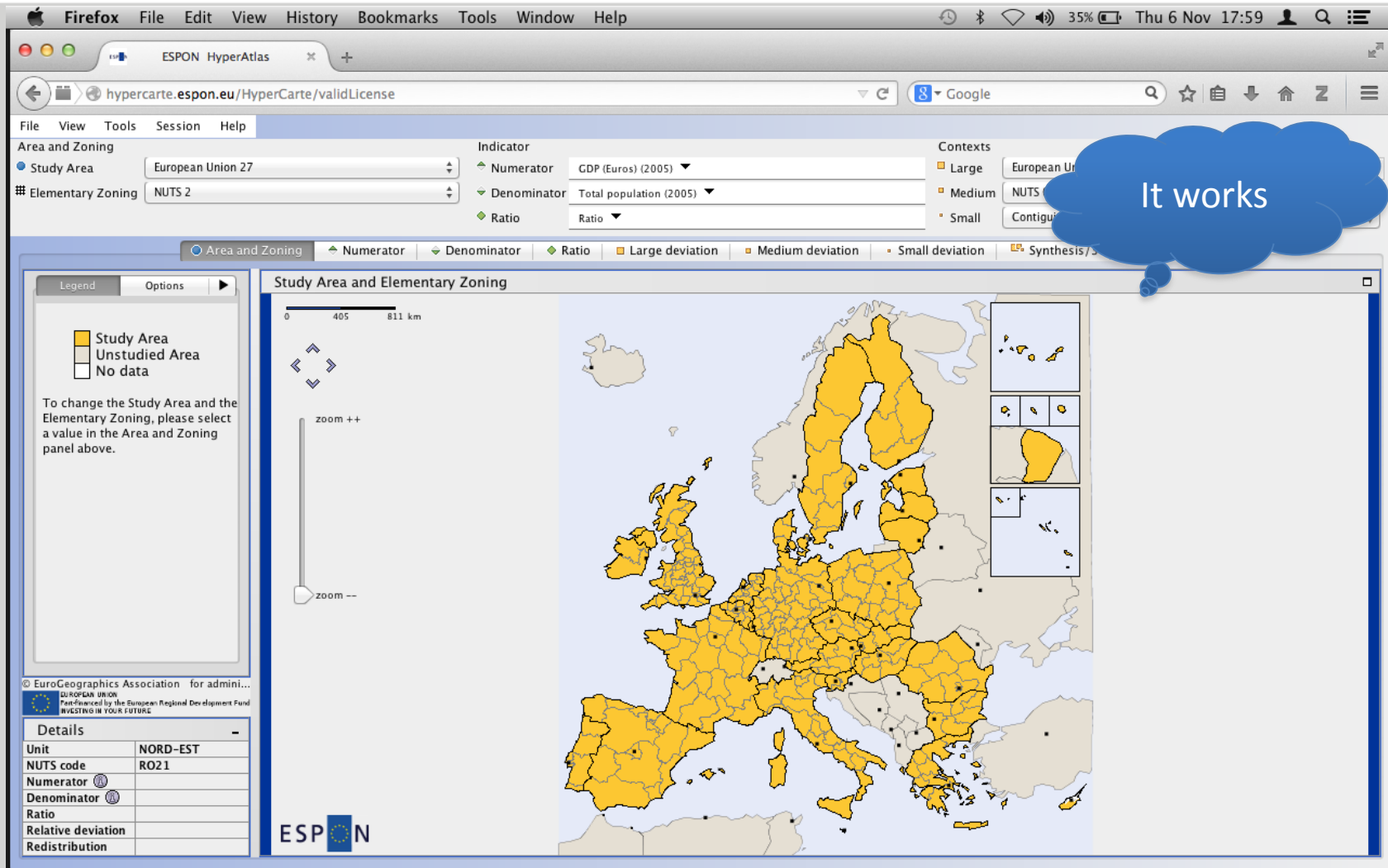
## ESPON HyperAtlas Web Version



4) Accept the Risk

5) Run!

# ESPON HyperAtlas Web Version



Firefox File Edit View History Bookmarks Tools Window Help

ESPON HyperAtlas

hypercarte.espon.eu/HyperCarte/validLicense

File View Tools Session Help

Area and Zoning

Study Area: European Union 27

Elementary Zoning: NUTS 2

Indicator

Numerator: GDP (Euros) (2005)

Denominator: Total population (2005)

Ratio: Ratio

Contexts

Large: European Union

Medium: NUTS

Small: Contiguous

Area and Zoning | Numerator | Denominator | Ratio | Large deviation | Medium deviation | Small deviation | Synthesis/Summary

Legend

Study Area

Unstudied Area

No data

To change the Study Area and the Elementary Zoning, please select a value in the Area and Zoning panel above.

Study Area and Elementary Zoning

0 405 811 km

zoom ++

zoom --

ESPON

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Details

Unit	NORD-EST
NUTS code	RO21
Numerator	
Denominator	
Ratio	
Relative deviation	
Redistribution	

# ESPON HyperAtlas Web Version

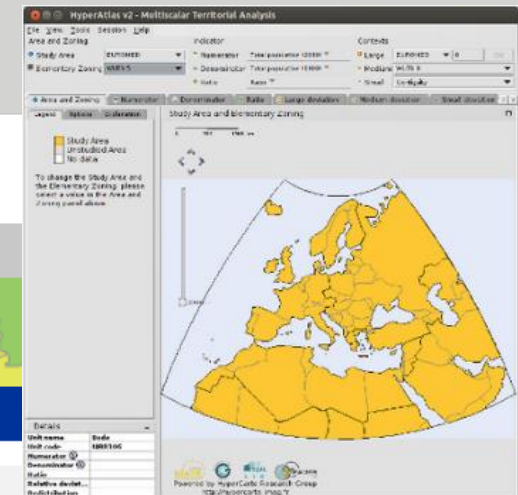
Available ESPON HyperAtlas Dataset .hyp files

Home

HyperAtlas Dataset Log in Help

Find here 6 available datasets that can be loaded by ESPON HyperAtlas on clicking the name.

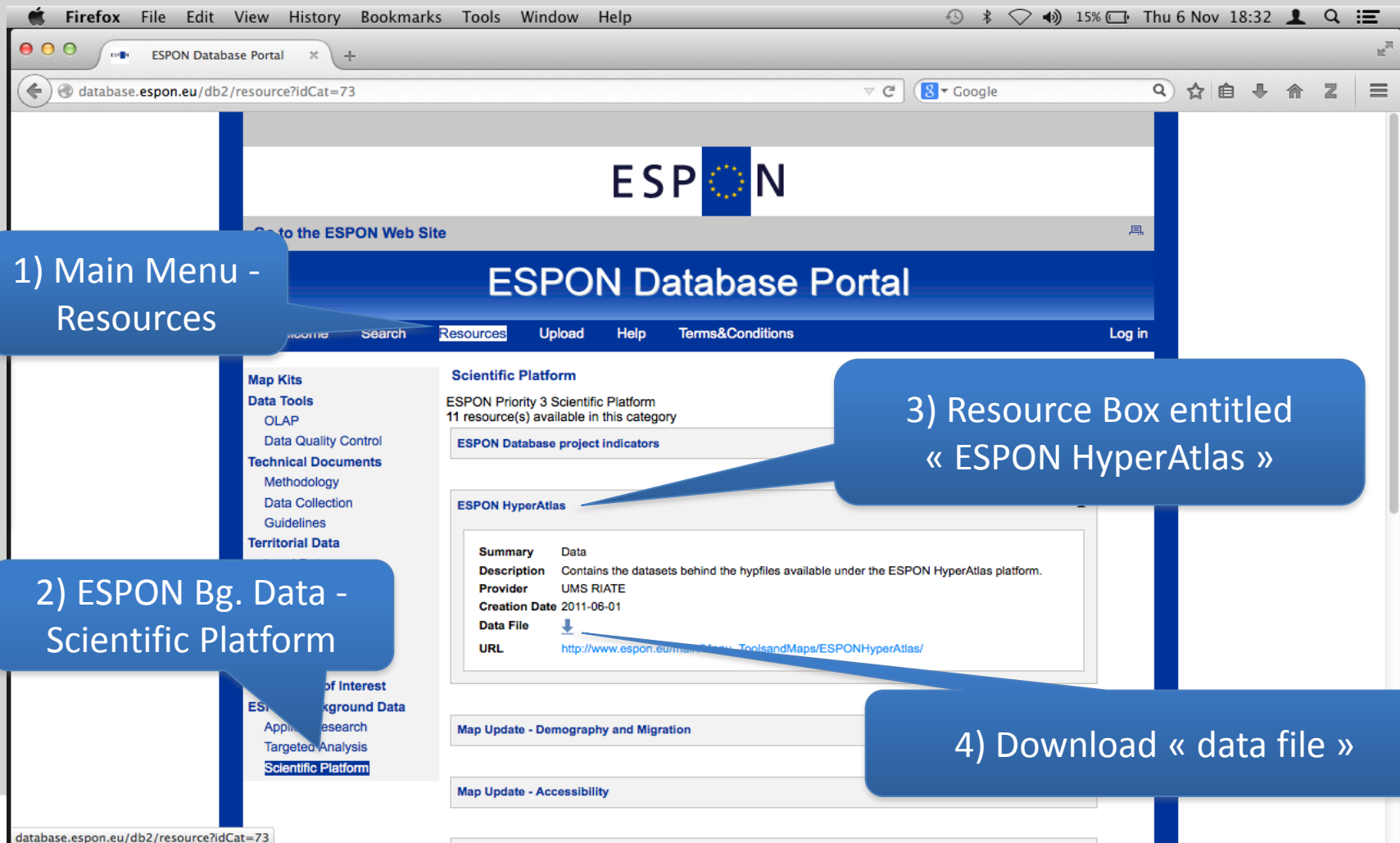
Name	Last modified	Description
Economy and Social Affairs	2010-12-07	ESPON DB and DEMIFER data on EU27+4 area. Lower level: NUTS2 (delineation revision 2006)
Demography	2010-12-07	ESPON DB, DEMIFER and Map Update on Demography and Migration data about demographic area. Lower level: NUTS2 (delineation revision 2006)
Euromed	2010-12-07	The Euromed area covers the ESPON space with its Southern and Eastern Neighbors. This dataset provides demographic, economic and environmental data
Metroborder	2011-02-11	Cross-border polycentric metropolitan regions (Metroborder) project aims at identifying governance practices for the Upper Rhine Region.
ESPON 2007	2007-01-01	Basic indicators for the ESPON area in the NUTS 2003 delineation
Land Use	2010-12-07	Derived from Corine Land cover, ESPON 2013 DB data about the land use in 2000 in the ESPON area includes Croatia and FYRM





# ESPON HyperAtlas Desktop Application

Download **ESPON\_HyperAtlas.zip** from the ESPON Database Portal



1) Main Menu - Resources

2) ESPON Bg. Data - Scientific Platform

3) Resource Box entitled « ESPON HyperAtlas »

4) Download « data file »

database.espon.eu/db2/resource?idCat=73

Firefox File Edit View History Bookmarks Tools Window Help

ESPON Database Portal

database.espon.eu/db2/resource?idCat=73

ESPON

Go to the ESPON Web Site

ESPON Database Portal

Home Search Resources Upload Help Terms&Conditions Log in

Map Kits

Data Tools

OLAP

Data Quality Control

Technical Documents

Methodology

Data Collection

Guidelines

Territorial Data

Scientific Platform

ESPON Priority 3 Scientific Platform

11 resource(s) available in this category

ESPON Database project indicators

ESPON HyperAtlas

Summary	Data
Description	Contains the datasets behind the hypfiles available under the ESPON HyperAtlas platform.
Provider	UMS RIATE
Creation Date	2011-06-01
Data File	<a href="#">Download</a>
URL	<a href="http://www.espon.eu/main/Menu/ToolsandMaps/ESPONHyperAtlas/">http://www.espon.eu/main/Menu/ToolsandMaps/ESPONHyperAtlas/</a>

Map Update - Demography and Migration

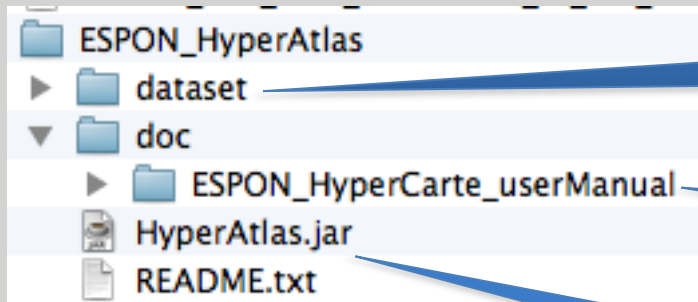
Map Update - Accessibility

database.espon.eu/db2/resource?idCat=73



# ESPON HyperAtlas Desktop Application

ESPON\_HyperAtlas.zip Content:



ESPON HyperAtlas Dataset hyp files

User Manual

Executable ESPON HyperAtlas  
Application Archive

## ESPON HyperAtlas Launcher

To run ESPON HyperAtlas Desktop Application:

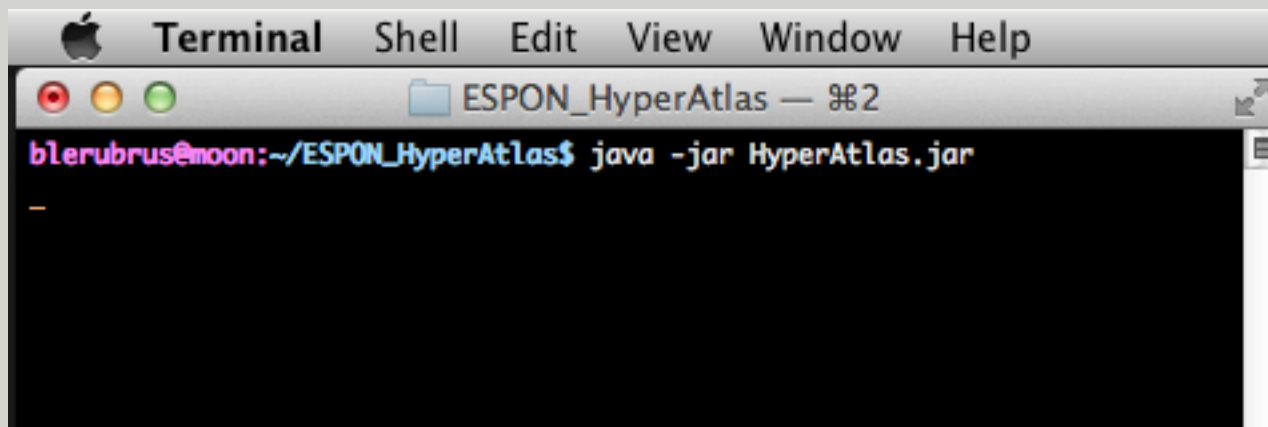
Windows/Mac: double click the file named HyperAtlas.jar

To see the output logs:

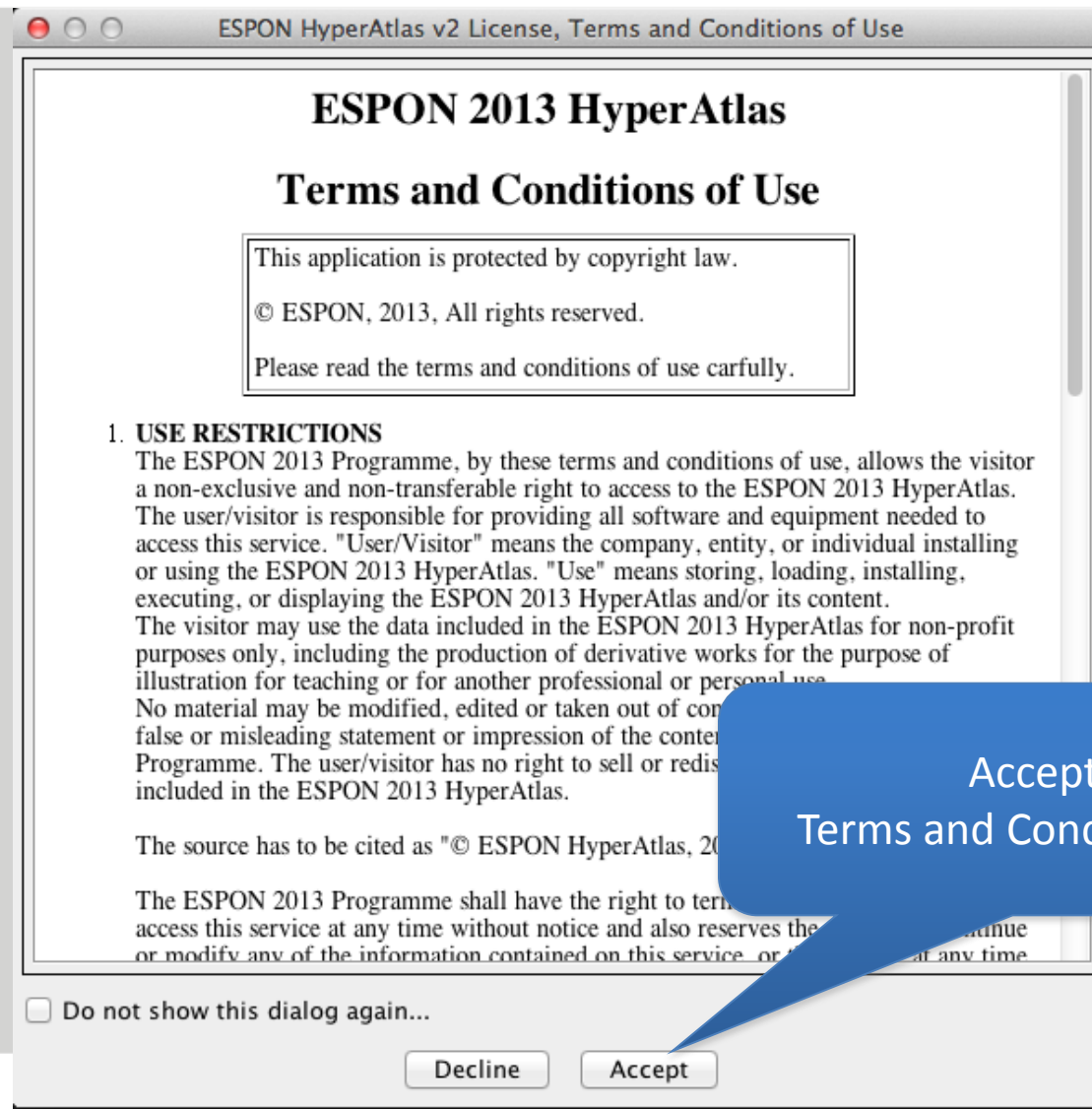
Open a terminal (dos / shell)

Locate the prompt in the « ESPON\_HyperAtlas » unzipped directory

Type: `java -jar HyperAtlas.jar`



# ESPON HyperAtlas Launcher



# ESPON HyperAtlas Launcher

ESPON HyperAtlas v2 – Multiscalar Territorial Analysis

File View Tools Session Help

Area and Zoning

Study Area: European Union 27

Elementary Zoning: NUTS 2

Indicator

Numerator: GDP (Euros) (2005)

Denominator: Total population (2005)

Ratio: Ratio

Area and Zoning Numerator Denominator Ratio Large deviation Medium deviation

Legend Options Explanation

Study Area (Yellow)

Unstudied Area (Light Yellow)

No data (White)

To change the Study Area and the Elementary Zoning, please select a value in the Area and Zoning panel above.

Study Area and Elementary Zoning

0 354 707 km

zoom ++

zoom --

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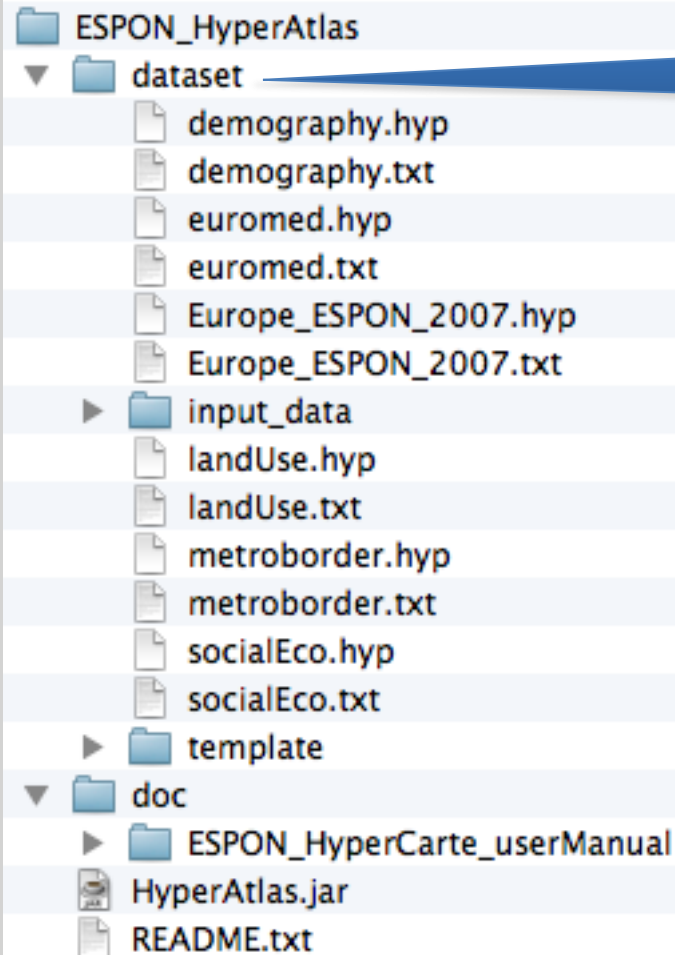
Details

Unit name	NORTE
Unit code	PT11
Numerator	
Denominator	
Ratio	
Relative deviation	
Redistribution	

ESPON

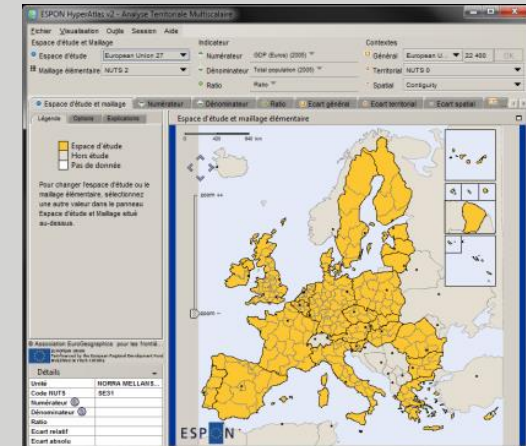
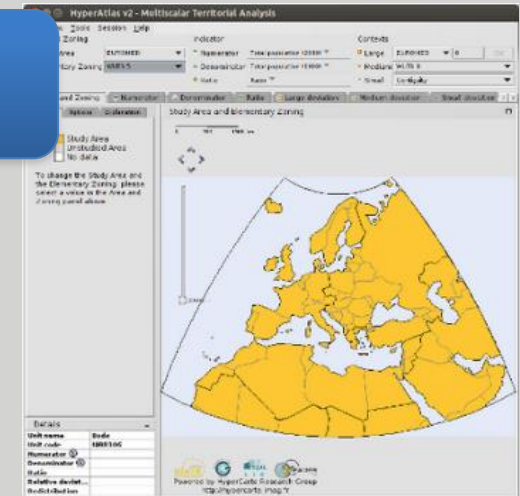
Default dataset .hyp file:  
Economy and Social Affairs

# ESPON\_HyperAtlas.zip Datasets



\*.hyp: dataset

\*.txt: short description



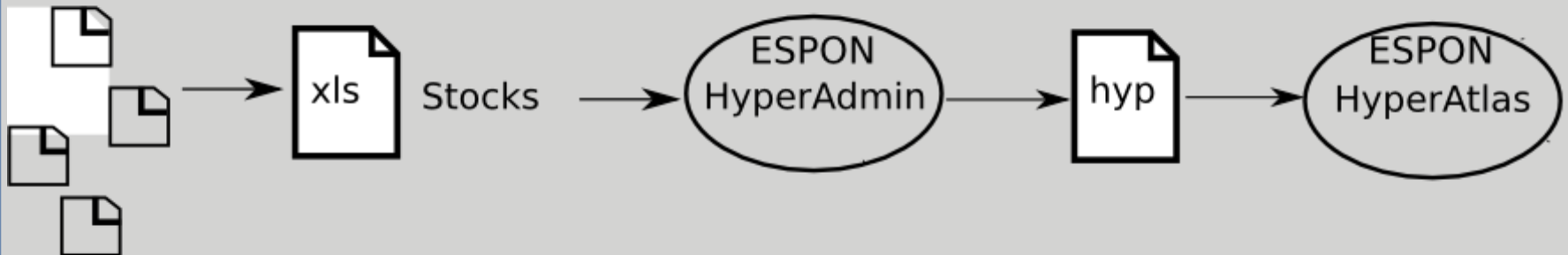
## ESPON Online HyperAdmin Principle

1. Select  
a structure  
template

2. Provide  
your stocks

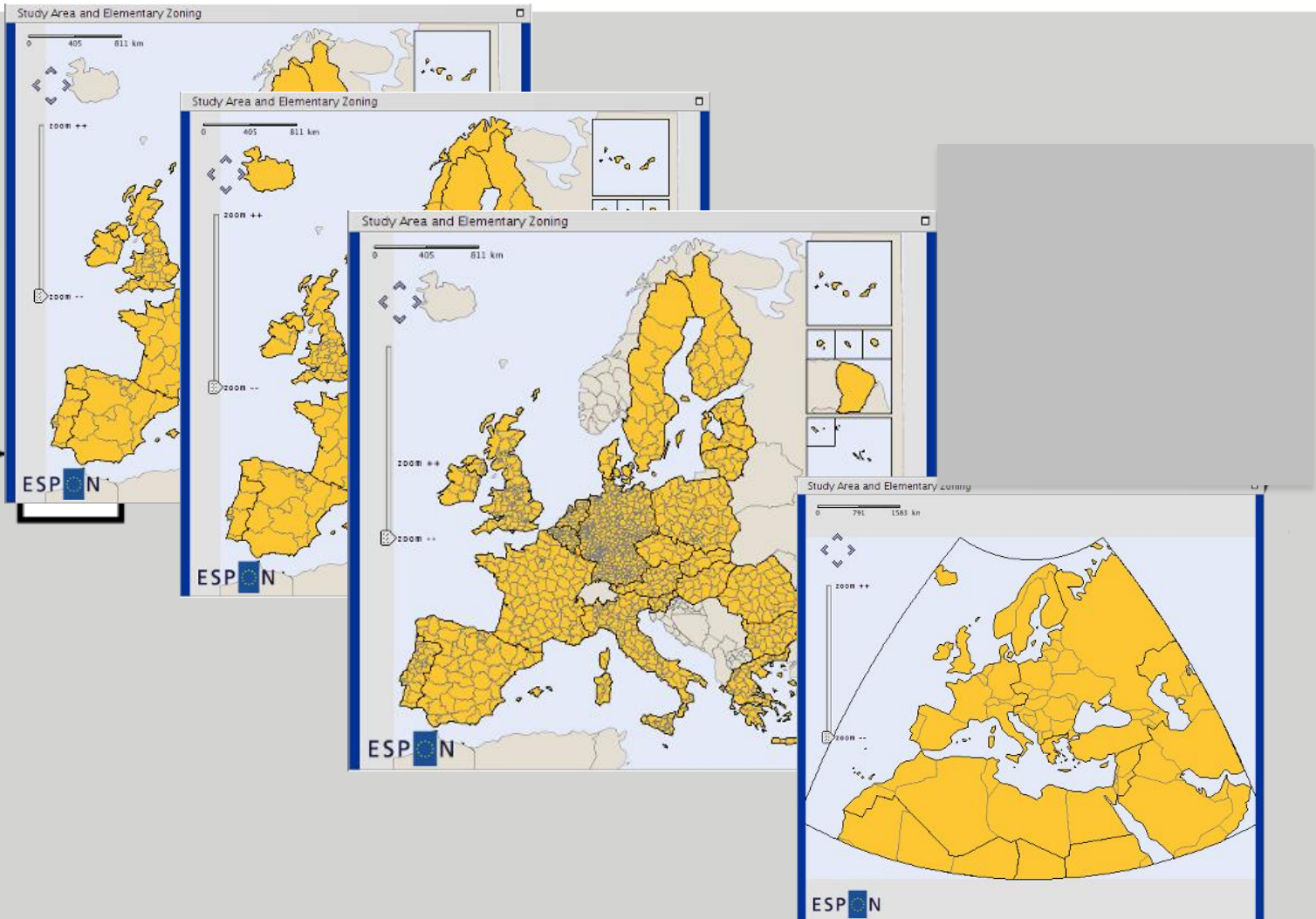
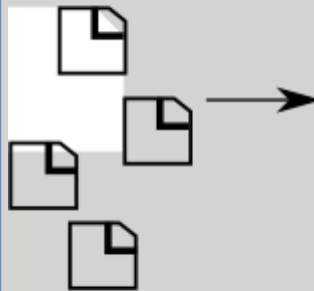
3. Generate  
the dataset

4. Visualize in  
HyperAtlas



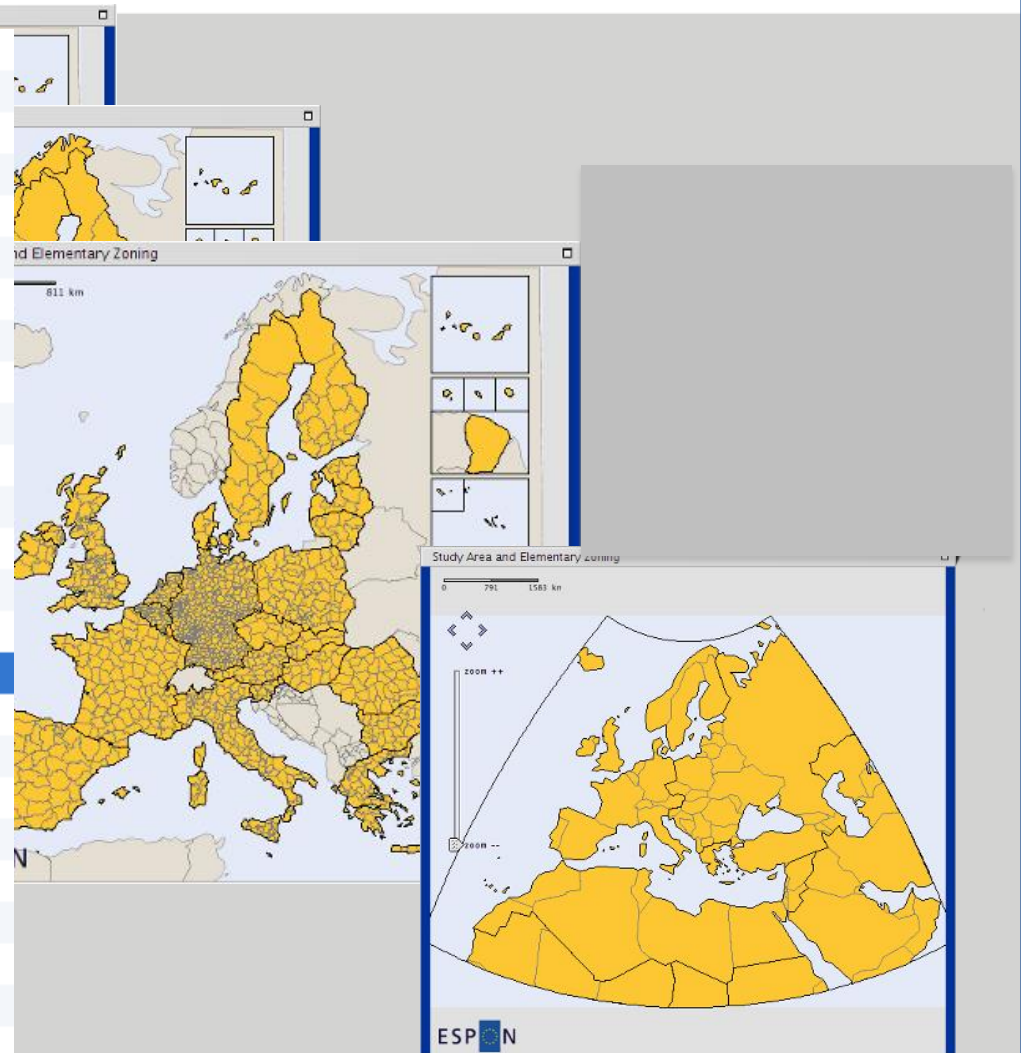
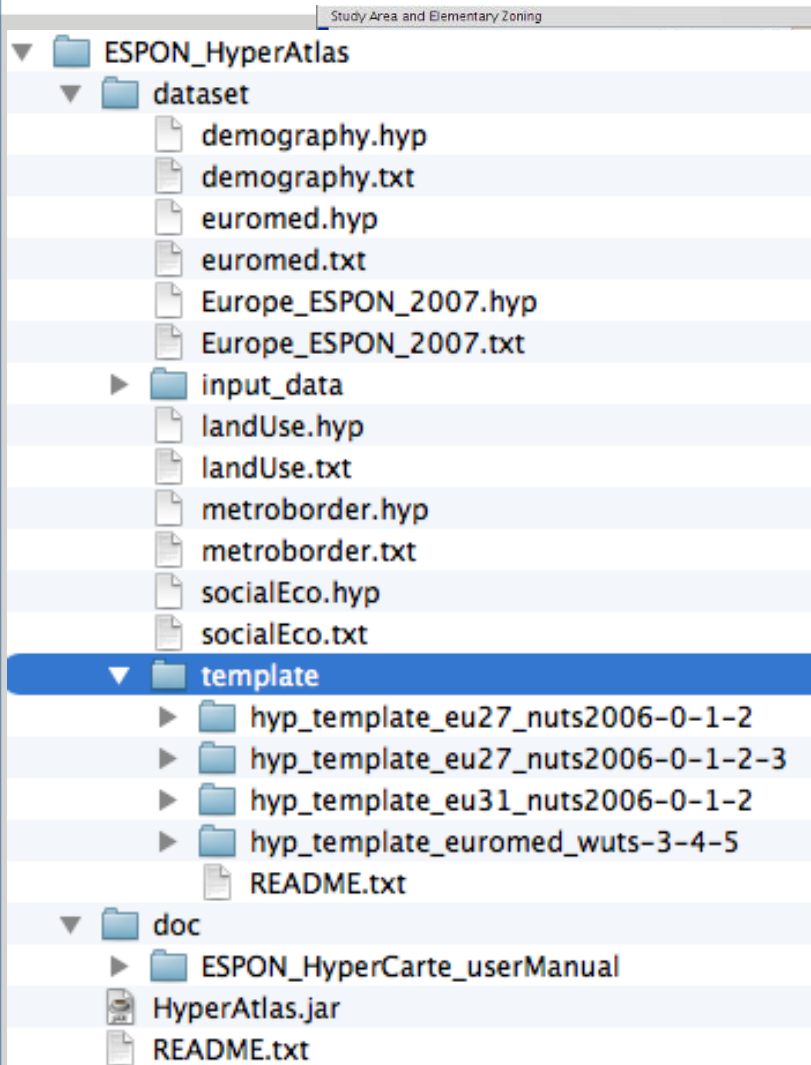
# ESPON Online HyperAdmin: Structure Template

1. Select  
a structure  
template





# ESPON\_HyperAtlas.zip Templates

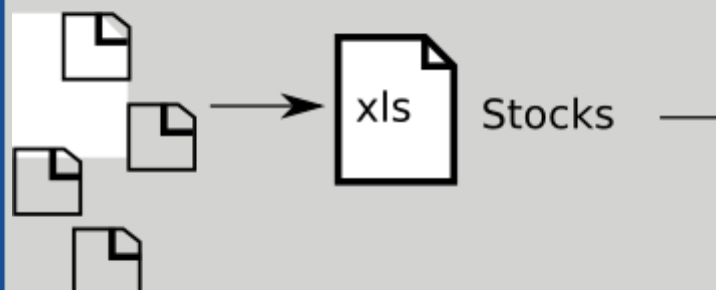




# ESPON Online HyperAdmin: « Stocks/Data » File

1. Select  
a structure  
template

2. Provide  
your stocks



Excel Fichier Édition Affichage Insertion Format Outils Données Fenêtre Aide

SocialEco\_data\_v2.xls

Rechercher dans la feuille

Accueil Mise en page Tableaux Graphiques SmartArt Formules Données Révision

A1

	UT_ID	pop_1_2000	pop_1_2005	active_2000	active_2005	unemp_2000	unemp_2005	GDP_eur_2000	GDP_eur_2005	GDP_pps_2000	GDP_pps_2005	15-30_2000	30-49_2000	50+
1	AT11	276.1	278.8	129.7	134.1	4.1	8.1	4592815	5573285	4437078	5266107	51.786	85.36	
2	AT12	1537.3	1575.5	722.8	765.1	21.9	32.6	32450922	37739832	31351915	35659756	279.449	470.23	
3	AT13	1551.2	1638.9	801.6	795	46.3	72.4	56754625	66179015	54832529	62531480	277.875	495.489	
4	AT21	560.1	560.1	248.9	262.1	7.7	12.6	11892070	13957078	11489324	13187817	106.66	172.999	
5	AT22	1182.7	1199.8	551.6	580.2	17.6	23.9	25902440	30523754	25025208	28841401	228.132	363.048	
6	AT31	1371.6	1399.1	699.5	688.9	20.4	27.5	33970669	40470420	32620192	38239845	267.812	425.912	
7	AT32	513.9	527.2	256.4	271.4	6	8.6	14994978	17409162	14487147	16449636	102.783	161.975	
8	AT33	669.5	694.6	313.4	350.2	7.9	12.2	17625052	21445104	17028148	20263132	135.279	209.144	
9	AT34	349.3	362.2	165.3	185.1	4	9.8	9345438	11155450	9028939	10540604	73.24	107.631	
10	BE10	961.9	1012.8	404.1	444.8	56.1	72.6	47934562	57922334	46793553	53927112	200.552	281.789	
11	BE21	1644.8	1682.7	705.5	751	34	46.5	57278801	66204161	53328051	62531480	301.853	497.897	
12	BE22	793	812.3	345	362.3	16.7	25.6	16371800	18871662	15982094	17569980	157.702	251.982	
13	BE23	1362.6	1384.8	616.5	642.5	27.8	31.8	29029227	35464459	28338231	33018281	257.58	409.897	
14	BE24	1016.6	1041	469.7	489.7	16.8	21.5	25557554	31180949	24949196	29030228	181.832	313.766	
15	BE25	1129.4	1140.2	504.4	510.7	18	24.1	26031353	30425188	25411717	28326595	208.636	324.817	
16	BE31	351	365.1	151.6	158.9	10.4	14.3	7921915	10351301	7733346	9637315	65.049	104.84	
17	BE32	1279.6	1288.2	507.6	521.5	61	72.8	20824069	24433625	20328384	22748304	243.608	375.353	
18	BE33	1019.7	1037.2	406	436.3	41.2	52	18897226	21977344	18447407	20461446	191.289	300.071	
19	BE34	247.8	257.3	105.3	110.3	7.2	8.7	4287729	5071876	4185666	4722041	48.352	71.915	
20	BE35	444.9	457.2	185.5	197.8	19.1	26.6	7547768	9134572	7374939	8504510	85.702	130.76	
21	BG31	1074.2	966.3	394	359.8	82.8	45.2	1649885	2079587	1599472	5686361	203.76	278.438	
22	BG32	1043.9	954.1	418.8	393.6	86.3	49.2	1470788	2115257	4635626	5783896	225.085	282.931	
23	BG33	1021.9	999.2	436.8	442.8	104.4	53.4	1631899	2454359	5143415	6711126	231.162	284.313	
24	BG34	1208.5	1137.3	470	466.6	88.5	38.6	2120818	3008987	6684388	8227686	264.293	333.698	
25	BG41	2142.9	2116.8	961.3	956.1	104.6	75.4	4700197	8852176	14814066	24205126	492.807	608.703	
26	BG42	1680.7	1566.1	680.9	657.4	100.2	72.5	2130892	3371934	6716137	9220115	373.037	477.188	
27	CH01	1295.28096	1369.5	682.408562	727.964196	32.1101303	48.997149	46199138	54663207	35989902	41117985	401.248	509.306	
28	CH02	1654.64686	1693.3	910.546237	952.087244	20.0835686	35.2646138	52783088	58037866	38611614	43656424	297.452	369.078	
29	CH03	985.992501	1019.1	540.827883	572.297842	11.8310386	23.0092056	4089536	46308841	29916424	34833783	177.612	314.161	
30	CH04	1201.24222	1267.2	727.830936	762.136169	19.2641849	36.0735396	57172670	64492171	41822658	48511390	219.15	382.327	
31	CH05	1040.12454	1060.7	586.115753	594.026497	10.342184	19.5379147	35722145	38341700	26131280	28840853	190.312	325.495	
32	CH06	676.699275	706.1	389.171106	394.001908	5.72253174	12.6511245	2560161	27574215	18728003	20741486	129.585	215.759	
33	CH07	310.207184	321.1	147.999523	156.486144	6.74636186	9.86608679	9542533	9816338	6980519	7562978	54.478	94.915	
34	CY00	694	757.8	309.1	367.5	15.4	19.5	10078620	13659370	11734092	15491696	155.36	196.887	
35	CZ01	1153.9	1176.1	635.6	637.5	26.9	22.4	14144546	24048930	30814556	41901662	259.81	331.39	
36	CZ02	1113.1	1151.1	557.6	580.9	42	30.4	8270844	10366245	13660846	18051631	258.061	308.978	
37	CZ03	1177.6	1177.3	596.5	600.9	36.3	30.4	6544030	10612244	14256429	18490427	275.832	330.938	
38	CZ04	1131.6	1127.1	572.3	580.7	80.1	78.5	5563501	8790027	12120307	15315307	275.523	318.629	
39	CZ05	1489	1481.8	736.4	734.9	50.7	40.9	8021484	12293663	17475121	21419904	353.235	409.72	
40	CZ06	1657.6	1640.7	818.8	813	64.2	62.4	8901838	14299391	19930391	24914549	391.787	460.515	
41	CZ07	1239.6	1229.7	604.3	604.2	64.3	58.8	6069755	9405278	13222303	16387290	297.728	347.453	
42	CZ08	1280	1252	612.8	622	88.6	86.4	5979443	10374311	13028455	18075685	302.252	369.308	
43	DE11	3923.1	4005.3	1931.8	2071.4	76.2	149.2	11987869	128326332	107828620	123985169	696.32	121.074	
44	DE12	2677.1	2730.1	1270.3	1361.8	59.3	103.6	7708917	84370850	69032239	81516661	463.517	861.011	
45	DE13	2130.6	2187.9	1011.8	1129.3	44.5	71.7	54003869	58181368	48576241	56222805	375.283	674.284	

About Data Default Label Metadata Provider RatioStock StockInfo +

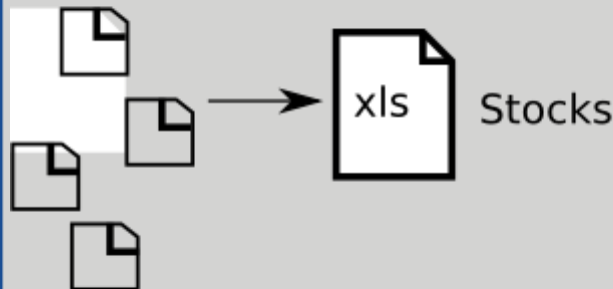
Mode Normal Prêt

Somme=0

# ESPON\_HyperAtlas.zip: Stock Examples

1. Select  
a structure  
template

2. Provide  
your stocks



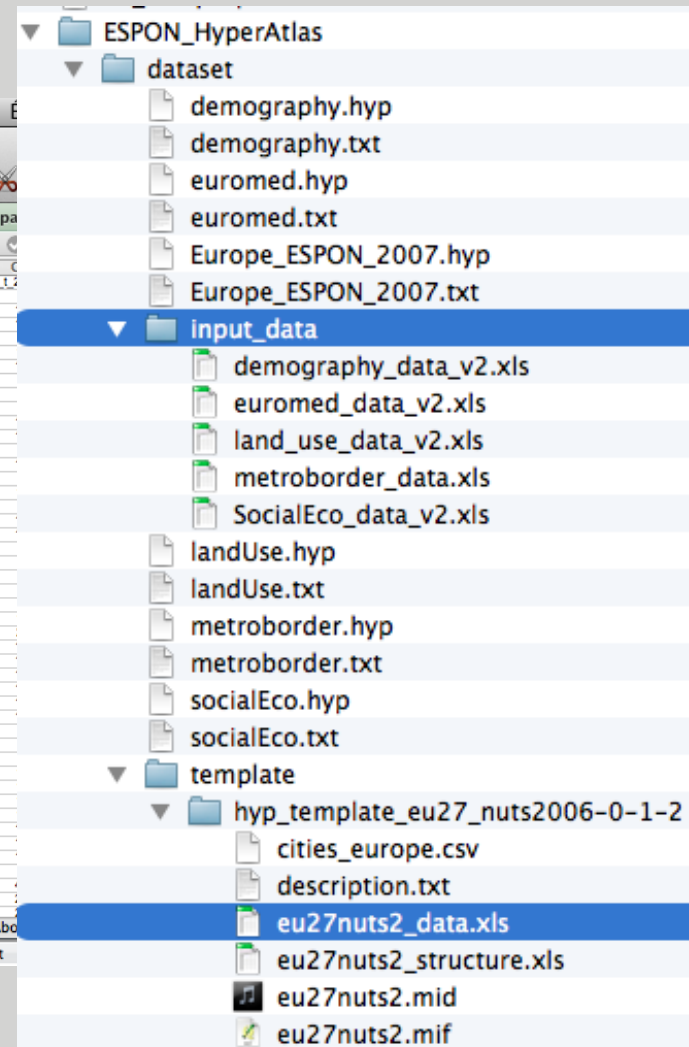
Excel Fichier E

Accueil Mise en page

A1

	UT ID	pop. 1. 2000	pop. 1. 2000
1	AT11	276.1	
2	AT12	1537.3	
3	AT13	1551.2	
4	AT21	560.1	
5	AT22	1182.7	
6	AT31	1371.6	
7	AT32	513.9	
8	AT33	669.5	
9	AT34	349.3	
10	BE10	961.9	
11	BE21	1644.8	
12	BE22	793	
13	BE23	1362.6	
14	BE24	1016.6	
15	BE25	1129.4	
16	BE31	351	
17	BE32	1279.6	
18	BE33	1019.7	
19	BE34	247.6	
20	BE35	444.9	
21	BG31	1074.2	
22	BG32	1043.9	
23	BG33	1021.9	
24	BG34	1206.5	
25	BG41	2142.9	
26	BG42	1680.7	
27	CH01	1295.28096	
28	CH02	1654.84686	
29	CH03	985.982501	
30	CH04	1201.24222	
31	CH05	1040.12454	
32	CH06	676.699275	
33	CH07	310.207184	
34	CY00	694	
35	CZ01	1183.9	
36	CZ02	1113.1	
37	CZ03	1177.6	
38	CZ04	1131.6	
39	CZ05	1489	
40	CZ06	1657.6	
41	CZ07	1239.6	
42	CZ08	1280	
43	DE11	3923.1	
44	DE12	2677.1	
45	DE13	2130.6	

Mode Normal Prêt



# ESPON Online HyperAdmin: Login

<http://hypercarte.espon.eu>

ESPON HyperCarte Web Application > ...

ESPON

Home

HyperAtlas Dataset **Log in** Help

Click to log into the application for more functionalities

Login

Password


**Log in**

[Forgotten login or password?](#)


[Not registered yet?](#)

# ESPON Online HyperAdmin


<http://hypercarte.espon.eu>


ESPON HyperCarte Web Application > ...

+



Home



Welcome
HyperAtlas
HyperAdmin
Dataset
Log off
Help

Create new hyp files

Please select a template among the following list:

► Note that **eu31nuts2** is the current standard most commonly used structure/geometry template for datasets hyp files. Other templates are nevertheless possible alternatives.

Name	Description
euromed	This alternative template provides a spatial coverage on 73 countries of the EUROMED Area. The lowest mesh level takes into account the WUTS 5 rank (countries). Last updated \$Date: 2010-12-24 14:37:40 +0100 (Fri, 24 Dec 2010) \$
eu31nuts2	This standard most commonly used template provides a geometry over 31 European countries in the NUTS 2006 delineation with the NUTS 2 lowest mesh. For an example of its structure, see the Demography or the Social Economy Affairs datasets. Last updated: \$Date: 2010-12-24 14:37:40 +0100 (Fri, 24 Dec 2010) \$

# ESPON Online Hyper\*: Help

Home

HyperAtlas

Dataset


Log in

Help

## ► User's manual

Consult the user's manual

For your convenience, the user's manual is available in various formats, choose your favourite one:

Format	Comment
HTML	On-line browsable version, optimized multipages format for comfortable reading
PDF 	Portable Document Format version optimized for printing
one HTML	HTML version on a single page, optimized for saving it to your disk

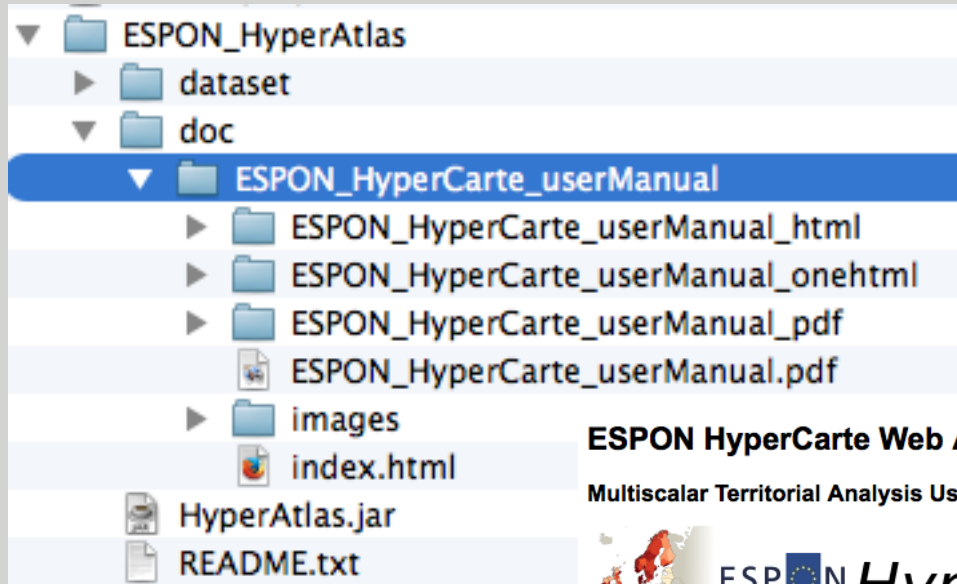
## ► More?

For further information about the HyperCarte Research Group, please consult <http://hypercarte.imag.fr>

## ► About

You are currently browsing the ESPON HyperCarte Web Application version 0.1 r598 build 201102280909

# ESPON\_HyperAtlas.zip: User Manual



## ESPON HyperCarte Web Application

### Multiscalar Territorial Analysis User's Manual



### Powered by HyperCarte Research Group for ESPON

RIATE  
Géographie-Cités  
LIG-Mescal  
LIG-STEAMER

#### Revision History

Revision 1.0.2 (svn rev 469)	2011-04-15 10:49:25
Added some information about the "cities" layer over the maps.	

#### Abstract

This document provides the minimum information about how to use ESPON HyperAtlas and ESPON HyperAdmin from the ESPON HyperCarte Web Application version 1.0.2.

#### Table of Contents

[Introduction](#)  
[1. Overview](#)

# How to Get new Stocks? ESPON DB Portal Search

ESPON Database Portal

Go to the ESPON Web Site

ESPON Database Portal

Welcome Search Resources Upload Help Terms&Conditions Log in

Search by: ☒ Theme ☐ Policy ☐ Project ☐ Keyword

Select a theme

DATA

WHERE?

WHAT?

WHEN?

EskonFromPortalToHyp.swf

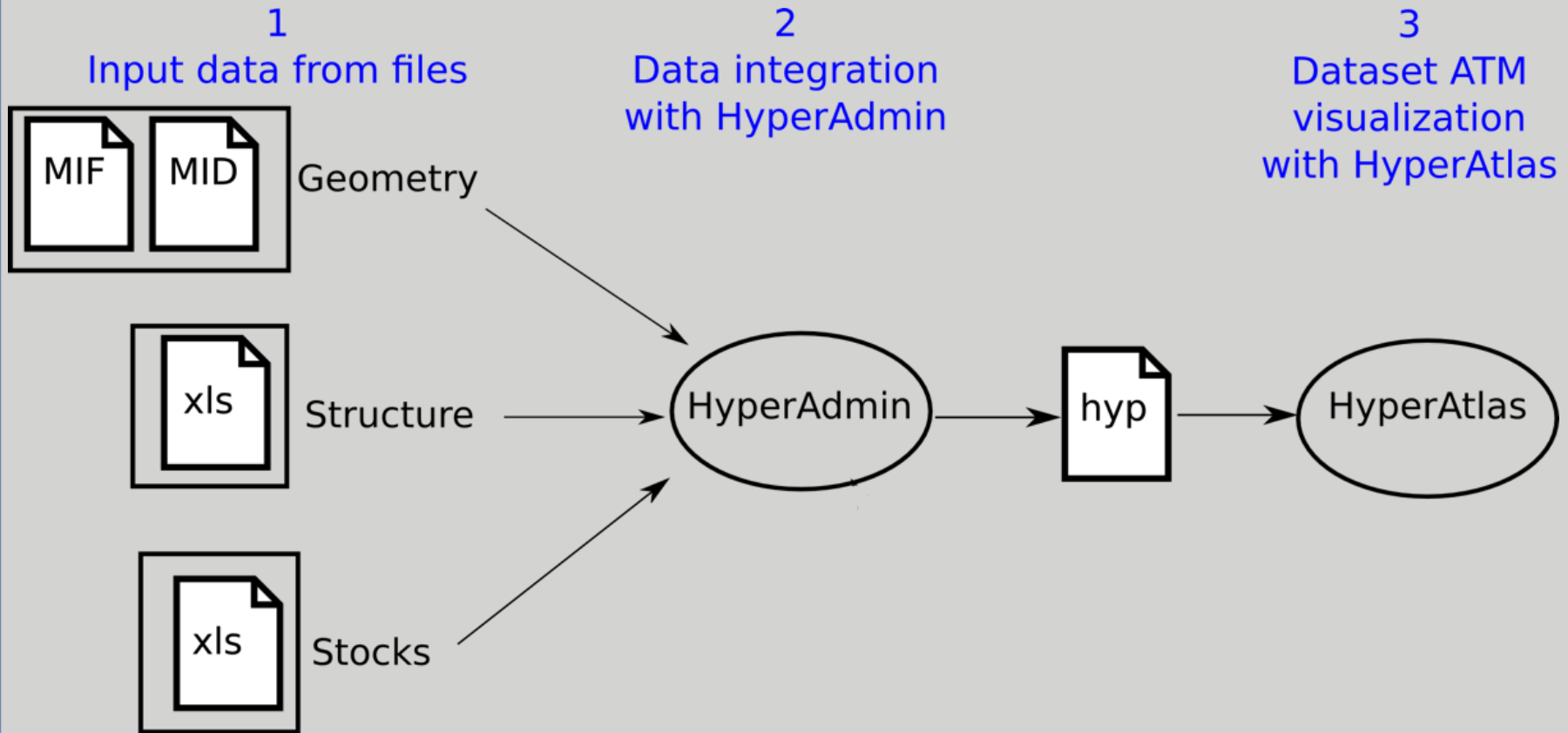
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VIDEO



## Building a New Dataset hyp File from scratch








# HyperAtlas Resources

## HyperCarte Research Group Web Site


<http://hypercarte.imag.fr>






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[Réalisations](#)
[Espace membres](#)
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[External Links](#)



## Groupe de Recherche HyperCarte



Version: 1.0-SNAPSHOT | [hypercarte](#) > Groupe de Recherche HyperCarte - Accueil
Dernière publication: 2014-11-17

INFORMATIONS

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PROJET

Historique
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Attendus scientifiques
Problématique

## Accueil

Le Groupe de Recherche HyperCarte est un projet scientifique réunissant 4 équipes de recherche du CNRS autour du thème de l'analyse territoriale et spatiale multiscalaire :

- UMS 2414 RIATE - contact : Claude Grasland ([claudе.grasland@parisgeo.cnrs.fr](mailto:claudе.grasland@parisgeo.cnrs.fr))
- UMS 8504 Géographie-cités - contact : Hélène Mathian ([helene.mathian@parisgeo.cnrs.fr](mailto:helene.mathian@parisgeo.cnrs.fr))
- UMR 5217 LIG - équipe STEAMER - contact : Jérôme Gensel ([jerome.gensel@imag.fr](mailto:jerome.gensel@imag.fr))
- UMR 5217 LIG - équipe MESCAL - contact : Jean-Marc Vincent ([jean-marc.vincent@imag.fr](mailto:jean-marc.vincent@imag.fr))

Le Groupe de Recherche HyperCarte vise à mettre au point une méthodologie de cartographie interactive et facile d'accès permettant d'analyser et de visualiser les multiples représentations d'un même phénomène.

[Actualités](#)

# How to Build hyp Files From Scratch?

Main difficulty: the creation of the Geometry (MIF/MID) and « structure.xls » Files  
 Once created: build with hyperadminimal.jar  
 ([http://hypercarte.imag.fr/hyperadmin\\_download.html](http://hypercarte.imag.fr/hyperadmin_download.html))

The screenshot shows a web browser window with the URL [hypercarte.imag.fr/hyperadmin\\_download.html](http://hypercarte.imag.fr/hyperadmin_download.html). The page is titled "Groupe de Recherche HyperCarte" and features logos for RIATE, MESCAL, and STEAMER. The main heading is "HyperAdmin - Téléchargement" with a sub-heading "hyperadminimal". The page describes "hyperadminimal" as a prototype for building .hyp files from data/stocks files. It lists the required files: geometry (MIF/MID) and structure (xls or xls v2).

**HyperAdmin - Téléchargement**

*hyperadminimal*

**Description**

**hyperadminimal** est un prototype destiné à construire des jeux de données **.hyp** compatibles et optimisés pour HyperAtlas v2. **hyperadminimal** génère des **.hyp** à partir d'une mise à jour "v2" des fichiers "data/stocks" au format xls. La mise à jour v2 de ces fichiers stocks consiste en la possibilité de référencer un indicateur à plusieurs dates (exemple : PIB en 2000, 2002, etc).

Disponible en version application de bureau, **hyperadminimal** se distingue de **hyperadmin** par une interface graphique minimale (pas de rendu cartographique à la HyperAtlas) et ne nécessite plus de base de données PostgreSQL PostGIS pour le calcul des contiguïtés.

*hyperadminimal* invite l'utilisateur à construire un **.hyp** à partir d'un formulaire (voir figure ci-dessous) pour indiquer les fichiers nécessaires :

- géométrie au format Mapinfo :
  - fichier MIF
  - fichier MID
- structure au format xls
- données (ou stocks) au format xls v2

# How to Build hyp Files From Scratch?

## Hyperadminimal prototype

HyperAdminimalMain

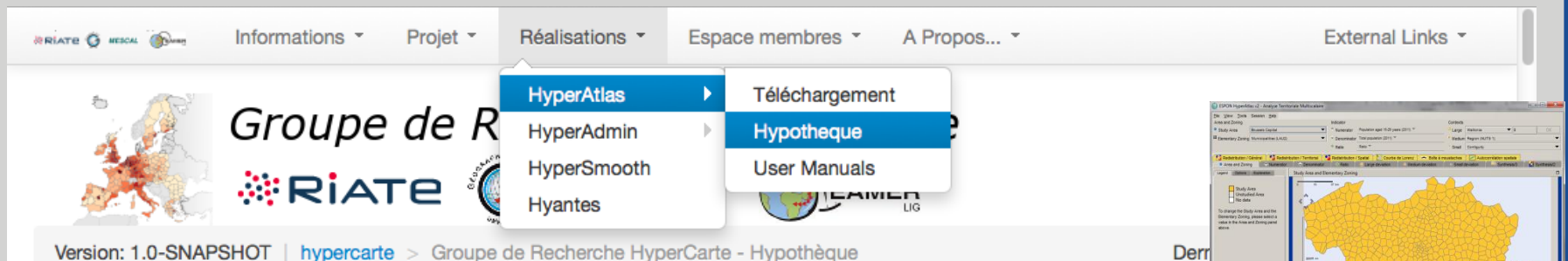
HyperAdminimal

MIF file	<input type="text" value="/Users/blerubrus/workspace/hypercarte/dataset/hyperadmin_input/belgique/be.mif"/>	<input type="button" value="Folder"/>
MID file	<input type="text" value="/Users/blerubrus/workspace/hypercarte/dataset/hyperadmin_input/belgique/be.mid"/>	<input type="button" value="Folder"/>
Structure v1 xls file	<input type="text" value="/Users/blerubrus/workspace/hypercarte/dataset/hyperadmin_input/belgique/structure_be.xls"/>	<input type="button" value="Folder"/>
Stocks v2 xls file	<input type="text" value="/Users/blerubrus/workspace/hypercarte/dataset/hyperadmin_input/belgique/data_be.xls"/>	<input type="button" value="Folder"/>
Contiguity (optional)	<input type="text"/>	<input type="button" value="Folder"/>
Cities layer (optional)	<input type="text"/>	<input type="button" value="Folder"/>
Author name	<input type="text" value="Ronan Ysebaert and Benoit Le Rubrus"/>	
Author firstname	<input type="text" value="UMS RIATE and LIG STeamer on behalf of the HyperCarte Research Group"/>	
Dataset name	<input type="text" value="Belgium 2010 - 2014"/>	
Dataset description	<input type="text" value="This dataset is a case study based on the belgian geometry for the ESPON Info Day in Brussels on the 2014-11-19"/>	
Output file	<input type="text" value="/Users/blerubrus/workspace/hypercarte/dataset/hyperadmin_input/belgique/be.hyp"/>	<input type="button" value="Folder"/>

# HyperAtlas Resources - Hypothèque

HyperCarte Research Group Web Site

<http://hypercarte.imag.fr>



## INFORMATIONS

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## PROJET

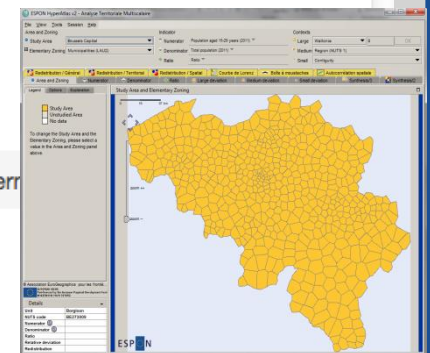
[Historique](#)  
[Objectifs](#)  
[Attendus scientifiques](#)  
[Problématique](#)  
[Méthodologie](#)  
[Publications](#)

## Hypothèque

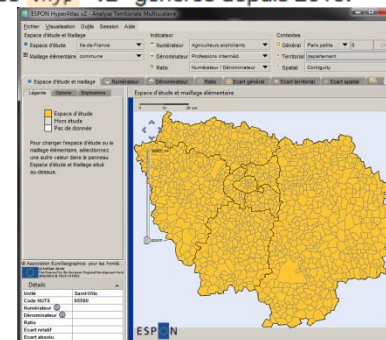
Cette page propose au téléchargement les jeux de données ".hyp" à charger dans HyperAtlas.

A noter : la rétro-compatibilité du logiciel HyperAtlas. HyperAtlas version 2 (depuis 2011) ouvre tous les ".hyp". Les anciennes versions d'HyperAtlas (avant 2010) ne peuvent pas charger les ".hyp" "v2" générés depuis 2010.

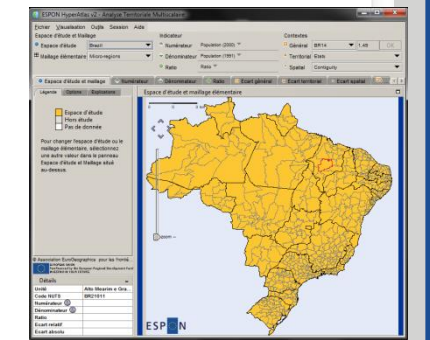
- Algérie
- Belgique
- Brésil
- Cameroun
- Europe CIST
- European Environment Agency
- Parlement Européen
- France - Zone d'emploi
- Hongrie
- Ile de France
- Nordregio



Belgique  
Les anciennes



Local level (IDF, Rhône-Alpes)



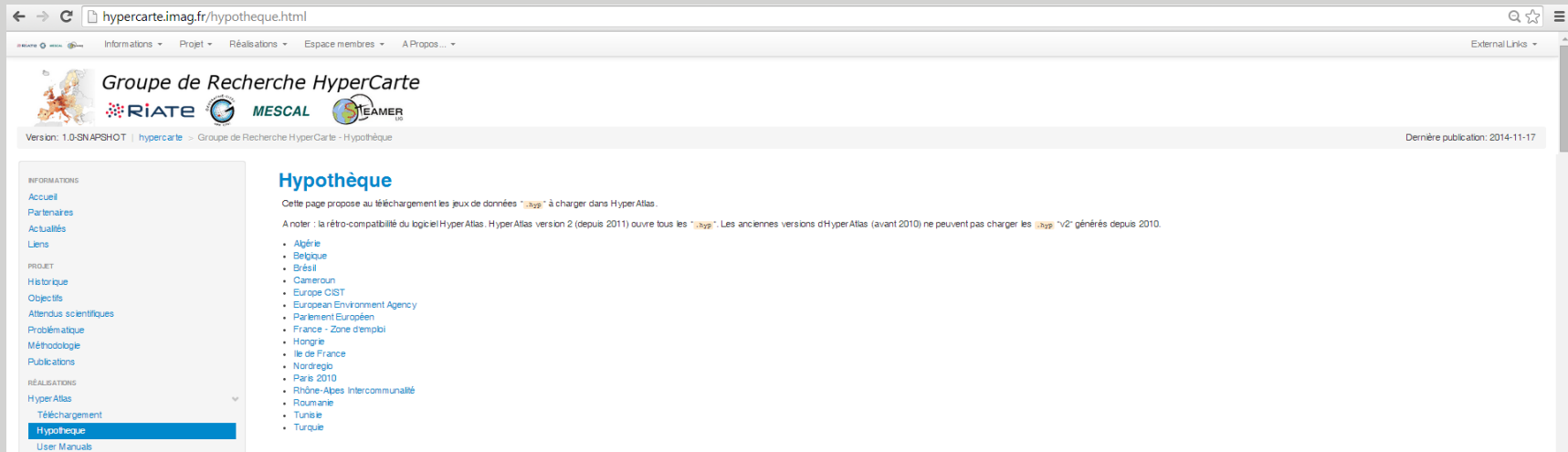
Outside Europe (Brazil,  
Tunisia, Cameroon1.00)



# HyperAtlas Resources – Hypothèque – be.hyp

## HyperCarte Research Group Web Site

<http://hypercarte.imag.fr>



The screenshot shows the website interface with a navigation menu on the left and a main content area. The navigation menu includes links for Informations, Projet, Réalisations, Espace membres, and A Propos. The main content area features the logo of the Groupe de Recherche HyperCarte, which includes RiATE, MESCAL, and TEAMER. Below the logo, there is a version information section and a list of partners. The main heading is 'Hypothèque', and the text below it explains that the page provides data for download. A list of countries is provided, including Algeria, Belgium, Brazil, Canada, Europe CIST, European Environment Agency, European Parliament, France - Zone d'emploi, Hongrie, Ile de France, Nordrie, Paris 2010, Rhône-Alpes Intercommunalité, Roumanie, Tunisie, and Turquie.

## Belgique

be.hyp (v2 / last changed revision: 779)

### Warning:

WORK IN PROGRESS (20141117). Hyperadmin Input files:

- Geometry
  - MIF `be.mif` (last changed revision: 759)
  - MID `be.mid` (last changed revision: 759)
- Structure `structure.be.xls` (last changed revision: 778)
- Data `data.be.xls` (last changed revision: 770)

### CONTEXT OF PRODUCTION :

UIS-RIATE and LIS-Steamer for the ESPON Day of the Belgian ECP 2014-11-19

### STUDY AREA :

Belgique, Brussels Capital, Flandres, wallonie

### ELEMENTARY ZONING :

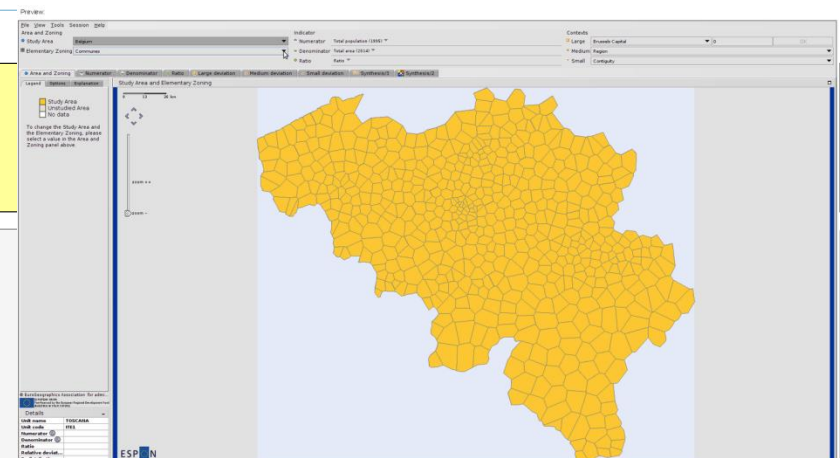
Arrondissements, Region, Communes, Province

### INDICATORS :

Population, Income, Tax, Unemployment

### PRODUCTION DATE :

2014



**Thank your for your attention**  
***Merci pour votre attention***  
***Dank u voor uw aandacht***  
***Danke für Ihre Aufmerksamkeit***

Contact

[ronan.ysebaert@ums-riate.fr](mailto:ronan.ysebaert@ums-riate.fr)  
[benoit.le-rubrus@imag.fr](mailto:benoit.le-rubrus@imag.fr)