



OASES

Promoting evidence-based reforms on medical deserts

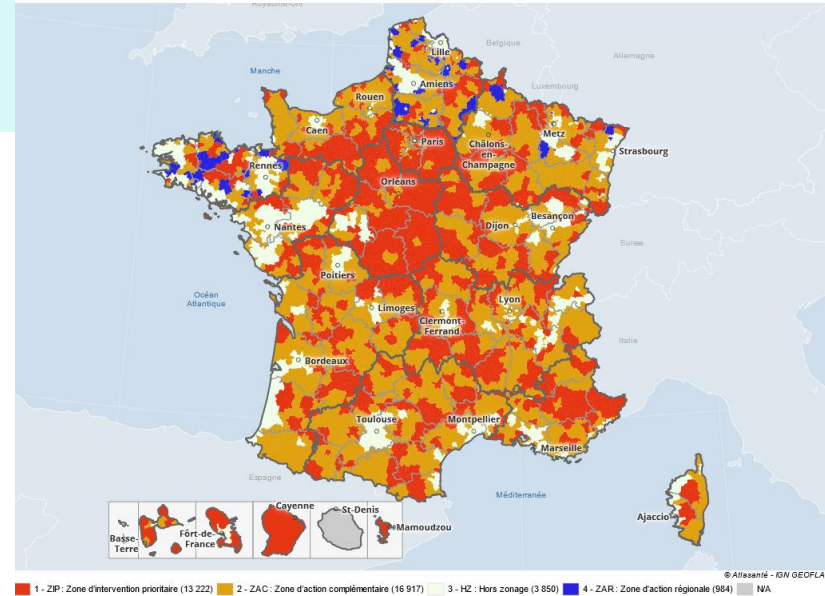
French policies to mitigate « medical deserts » :
the examples of Primary care teams and limiting
nurses installations in overserved areas

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The french context

- In 2022, 30% population lives in a « medical desert » (GPs)
- Medical deserts first appears in rural areas... Now it concerns all kind of places
- Medical desertification starts in the end of 2000's and will continue until 2030
- And is more intense in « rural fringes »
- But, during the same time, there is an increase in the number of nurses, midwives, physiotherapists

Zonage MG - Source : ARS - DGOS



The french answers to improve accessibility to GPs

Since 2005, 3 types of measures have been deployed by public authorities :

1/ Increase the number of doctors :

⇒ *formation (medical students), foreign-trained doctors*

2/ attract and retain GPs in medical deserts

⇒ *financial incentives, **improvement of working conditions (through PCTs)***

3/ Increase the GPs availability and reorganization of primary care delivery :

⇒ *physician assistant, skill-mix with nurses, coordinate exercise, territorial organization of primary care...*

The french answers to improve accessibility to GPs

The political debate still occurs about :

- Limiting installations in « overserved areas »**
such as it exists for nurses, physiotherapist and
midwives (Duchaine et al., 2022)
- Add a 4th year of medical internship primarily in
medical deserts (PLFSS, 2022)

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The Primary care teams : a way to attract and retain doctors in medical deserts ?



Chevillard, G., Mousquès, J., 2021. Medically underserved areas: are primary care teams efficient at attracting and retaining general practitioners? *Social Science & Medicine* 287, 114358.

The primary care teams

PCTs groups GPs and others paramedics that are self-employed

Public authorities financially support PCTs for their construction and operating costs

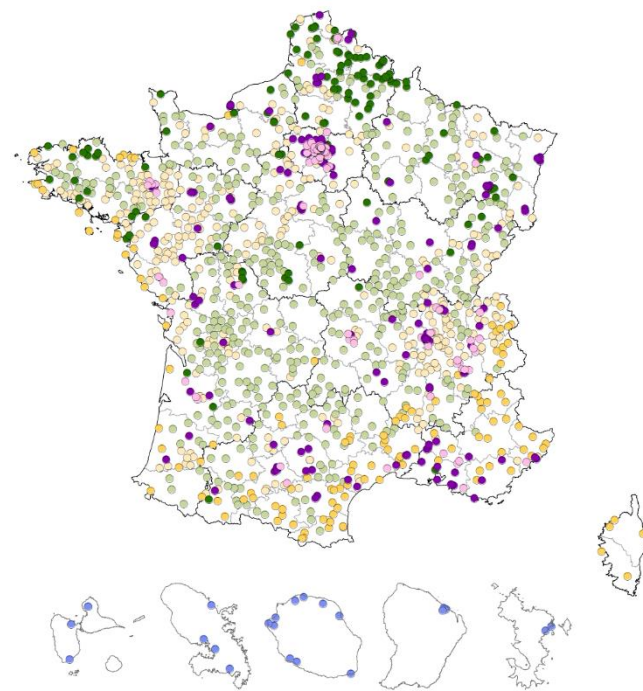
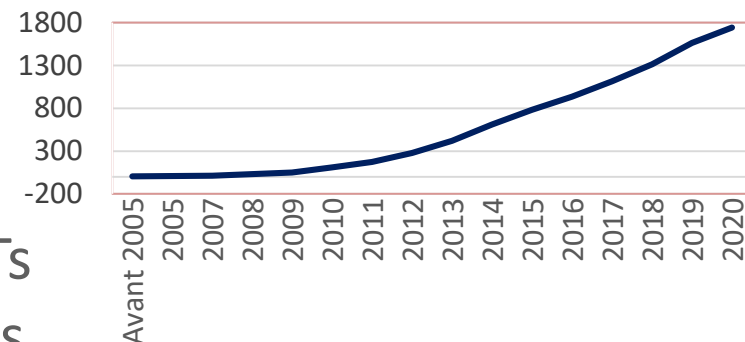
An exponential increase : 20 in 2008 => 2000 in 2022

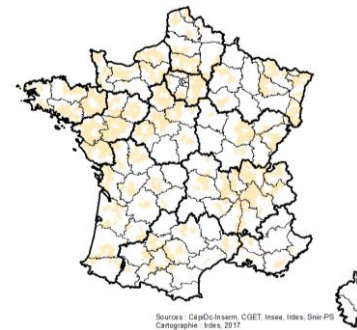
PCTs are primarily in medical deserts (67%) : rural fringes and suburban areas

Impact on GPs density evolution ?

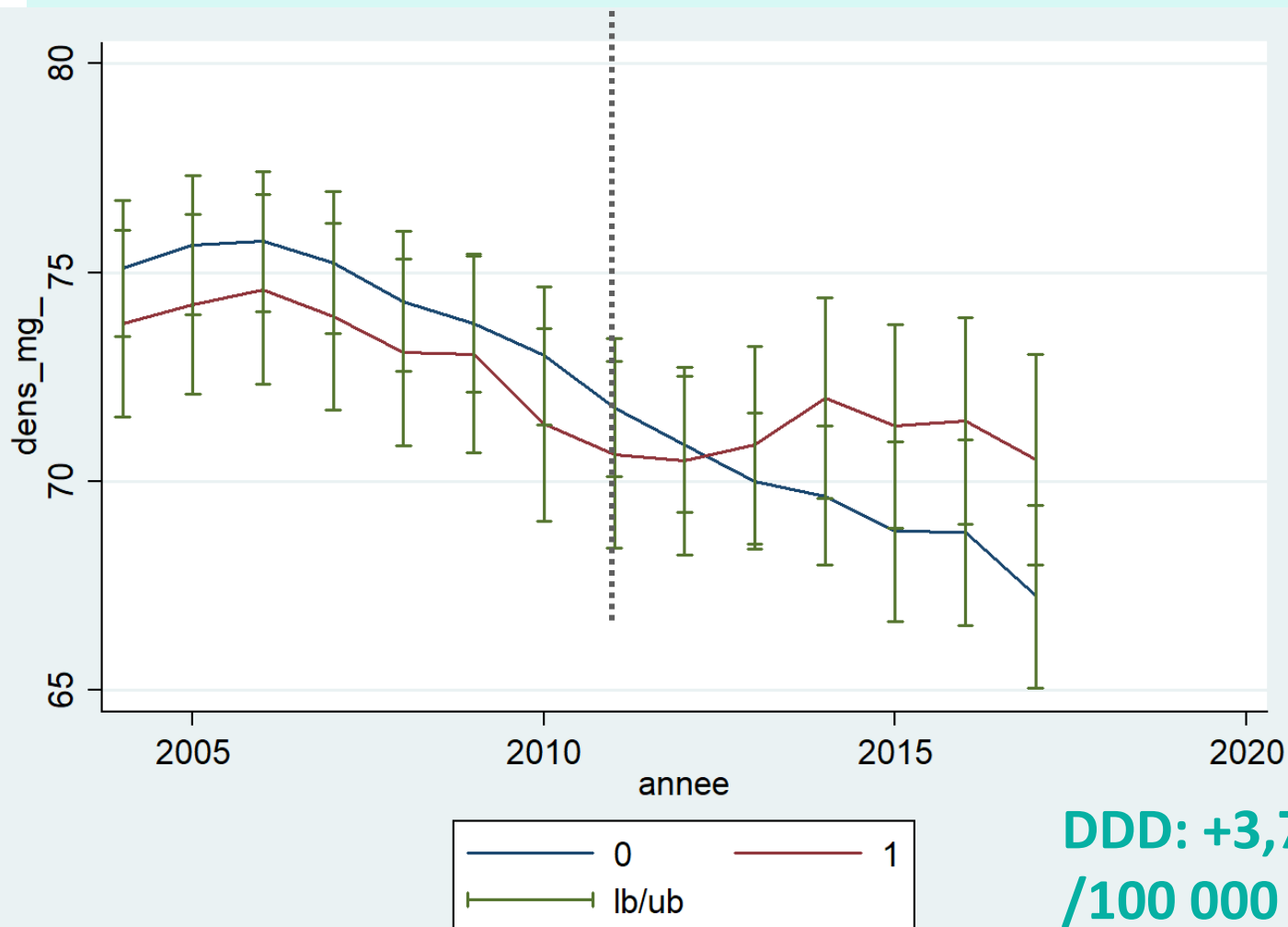
⇒ Comparison of GPs evolution in similar type of areas with and without PCTs

⇒ Suburban areas then rural fringes

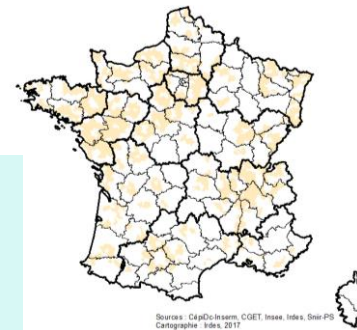




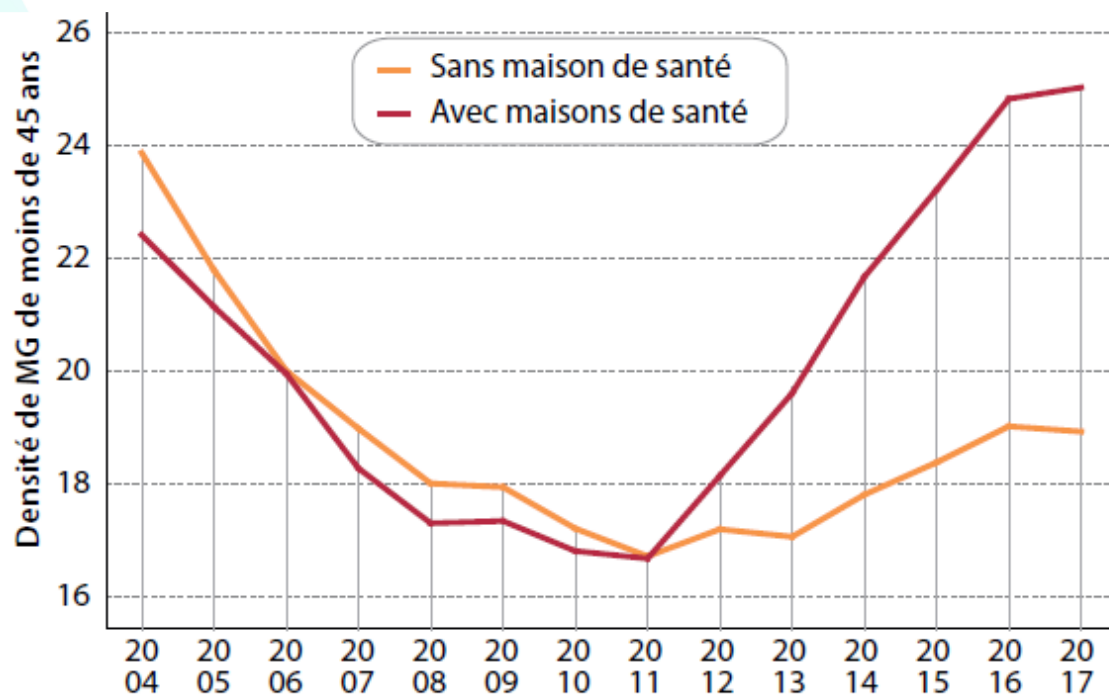
Evolution of GPs densities in suburban areas with (red) and without PCTs (blue) between 2004 and 2017



**DDD: +3,7 GPs
/100 000 p.**



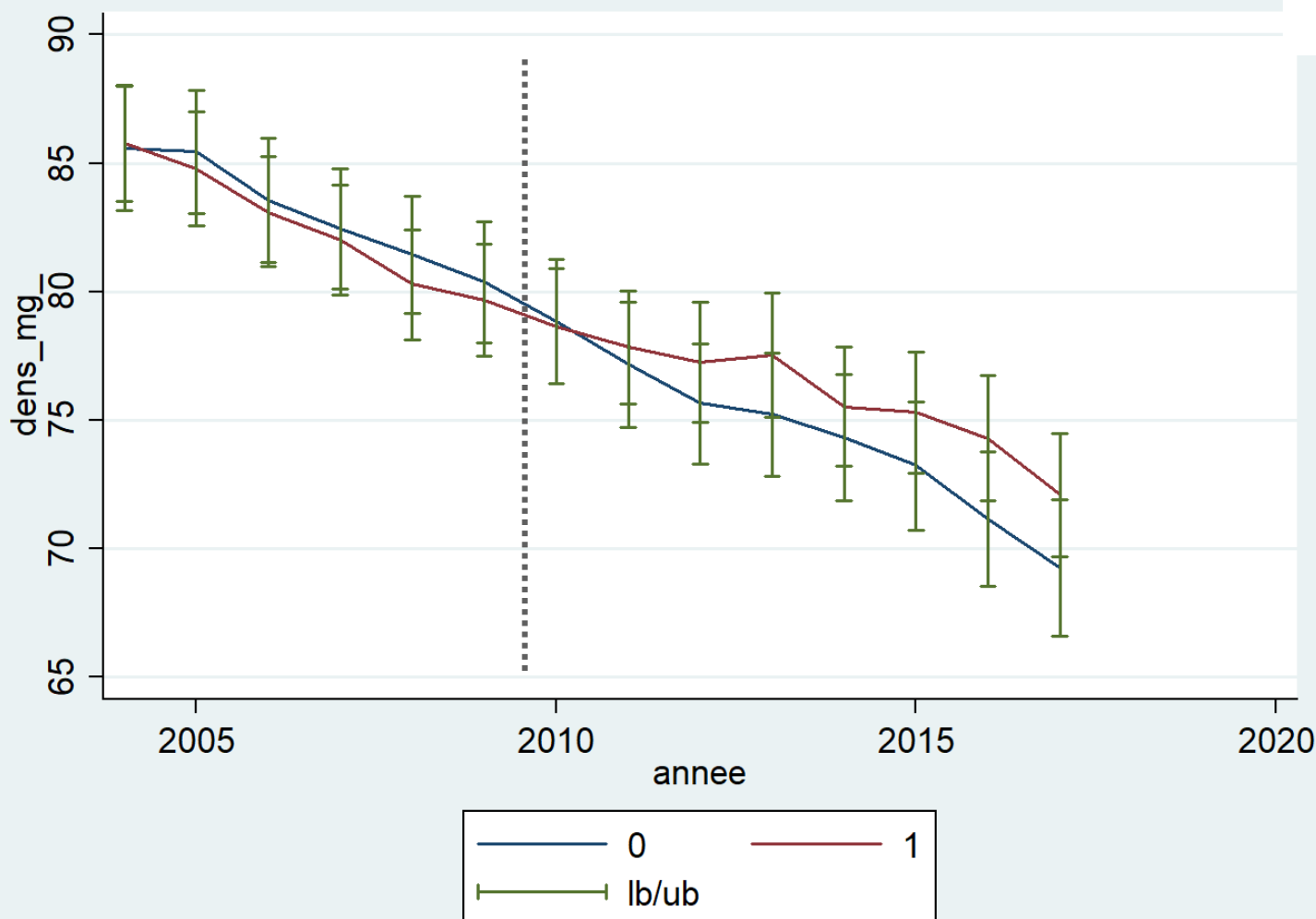
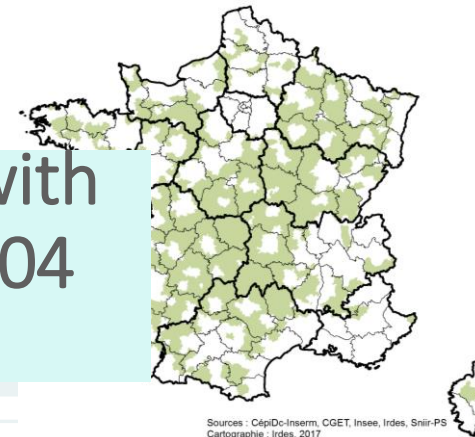
Evolution of young GPs densities in suburban areas with (red) and without PCTs (blue) between 2004 and 2017



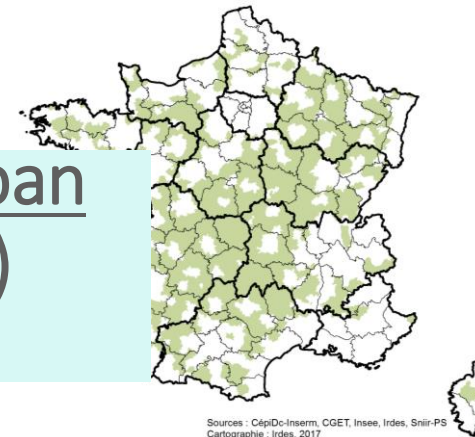
Note : Pour simplifier le graphique, les espaces traités correspondent aux territoires de vie avec au moins une maison de santé ouverte sur la période 2008-2016.

Sources : Snir-PS, Assurance maladie, Observatoire des recompositions de l'offre de soins, (DGOS).

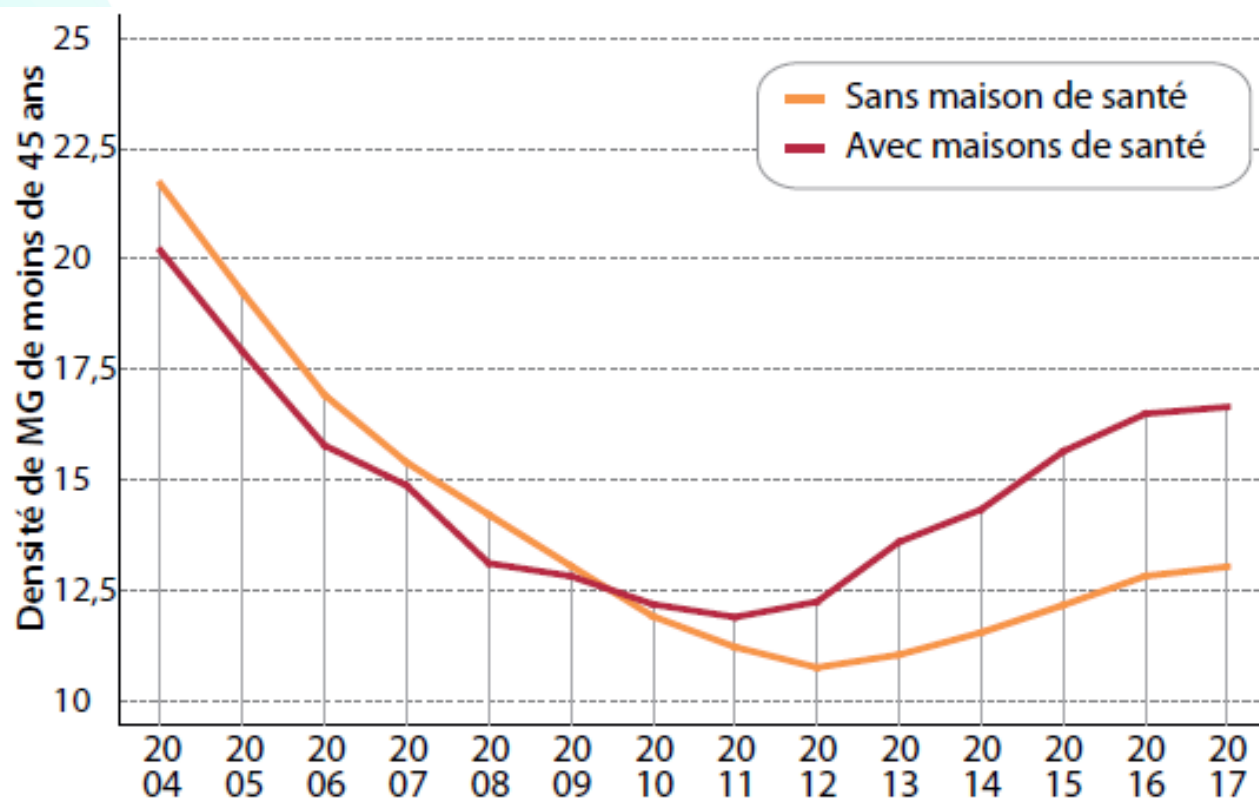
Evolution of GPs densities in rural fringes with (red) and without PCTs (blue) between 2004 and 2017



Evolution of young GPs densities in suburban areas with (red) and without PCTs (blue) between 2004 and 2017



Sources : CapiDc-Inserm, CGET, Insee, Irdes, Snir-PS
Cartographie : Irdes, 2017



Note : Pour simplifier le graphique, les espaces traités correspondent aux territoires de vie avec au moins une maison de santé ouverte sur la période 2008-2016.

Sources : Snir-PS, Assurance maladie, Observatoire des recompositions de l'offre de soins, (DGOS).

The primary care teams – Take home message

Areas with PCTs have a better evolution of GPs and young GPs densities than similar areas without PCTs

The impact of PCTs is mainly explained by the attractivity for young GPs

The impact of PCTs is not the same according to the type of territories

Due to the global decrease of GPs, **in rural fringes**, PCTs are not sufficient to mitigate the medical desertification

But, GPs in PCTs see more patients than others ones (Cassou et al., 2022)

=> PCT is a way to both attract young GPs in medical deserts and to produce more care

Others complementary answers than PCTs are required with short and long term vision : improve coordination and cooperation, skill-mix with paramedics etc., recruitment of student

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Limiting nurses installations in overserved areas : a way to improve their geographical distribution ?

Duchaine F., Chevillard G., Mousquès J., 2022, Impact of licensure to practice limitations and financial incentives on the geographical distribution of nurses in France, *Revue d'économie régionale et urbaine*

Self-employed nurses in France

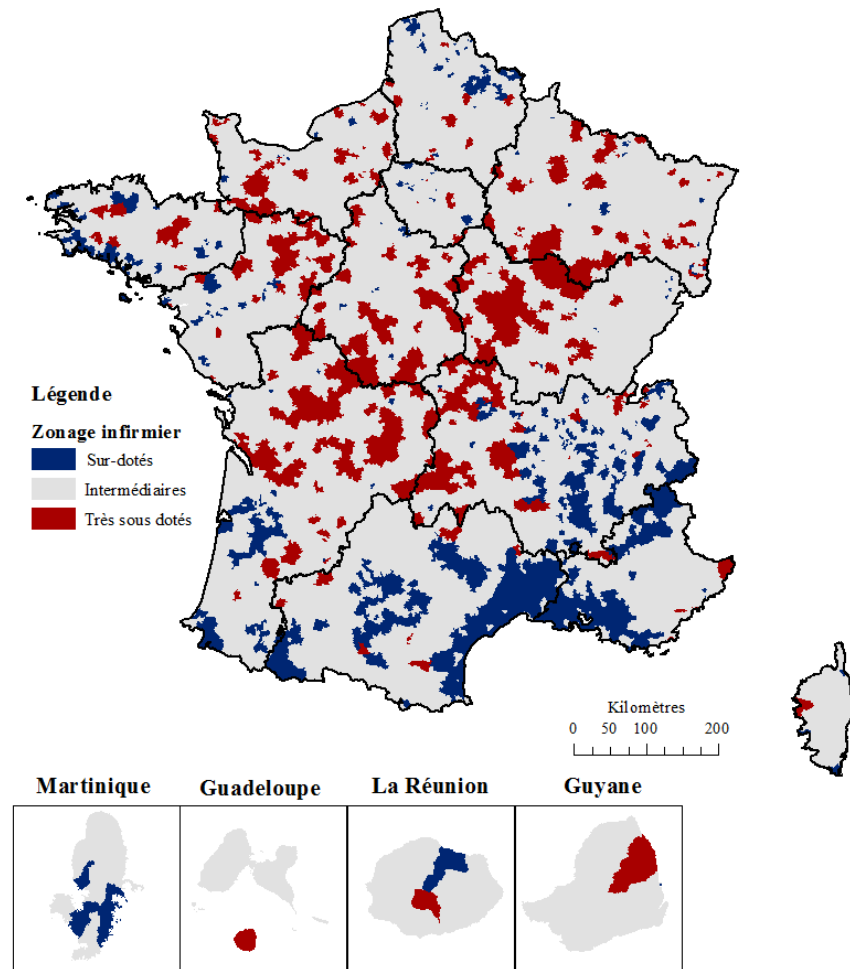
The number of self-employed nurses increase in France since 2006
There are still geographical disparities, but they are reducing

Since 2012, public authorities defined a limitation of installation (practice permits) for nurses in « overserved » areas (blue areas)

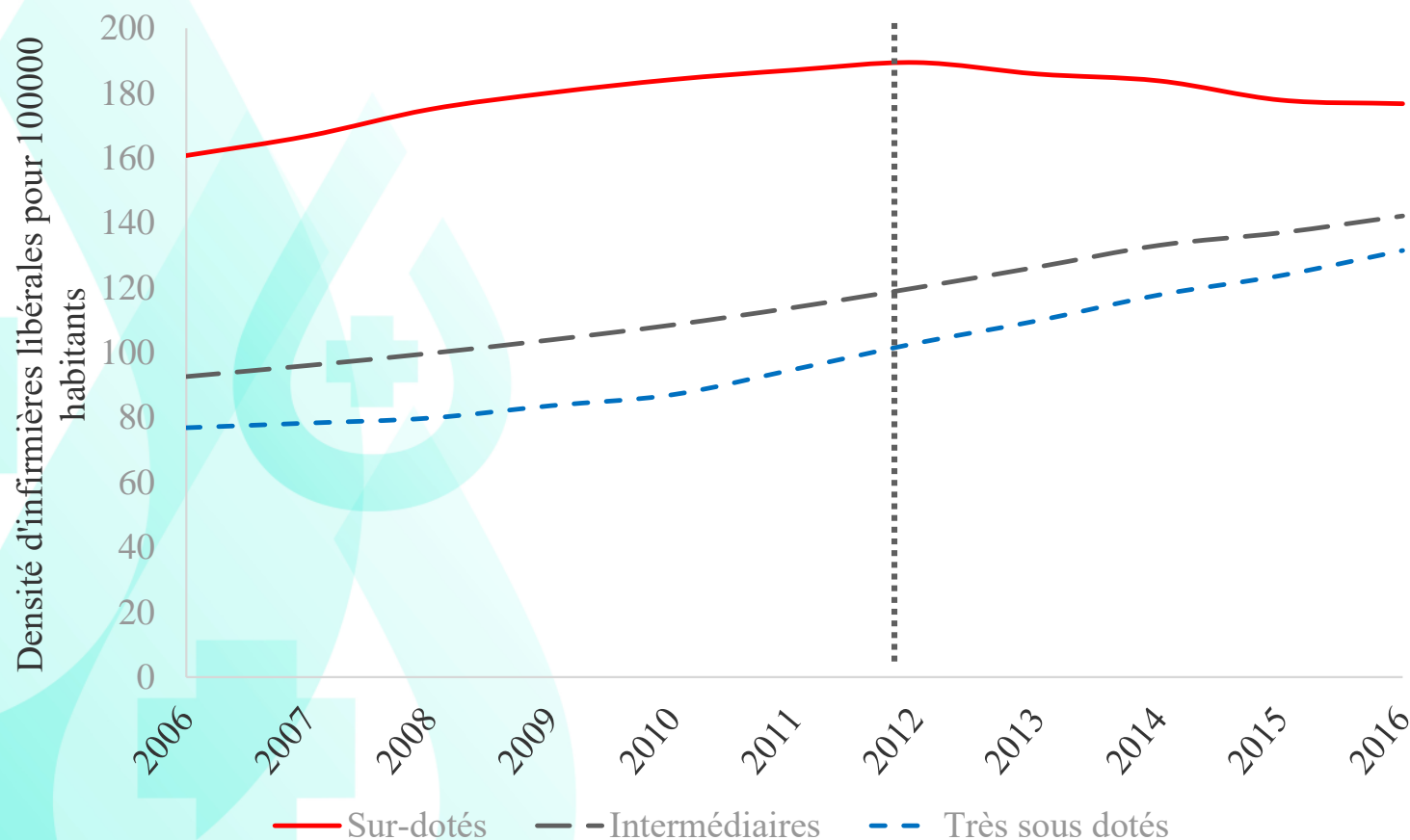
And financial incentives in underserved areas (red areas)

Was this type of regulation efficient to reduce geographical inequalities?

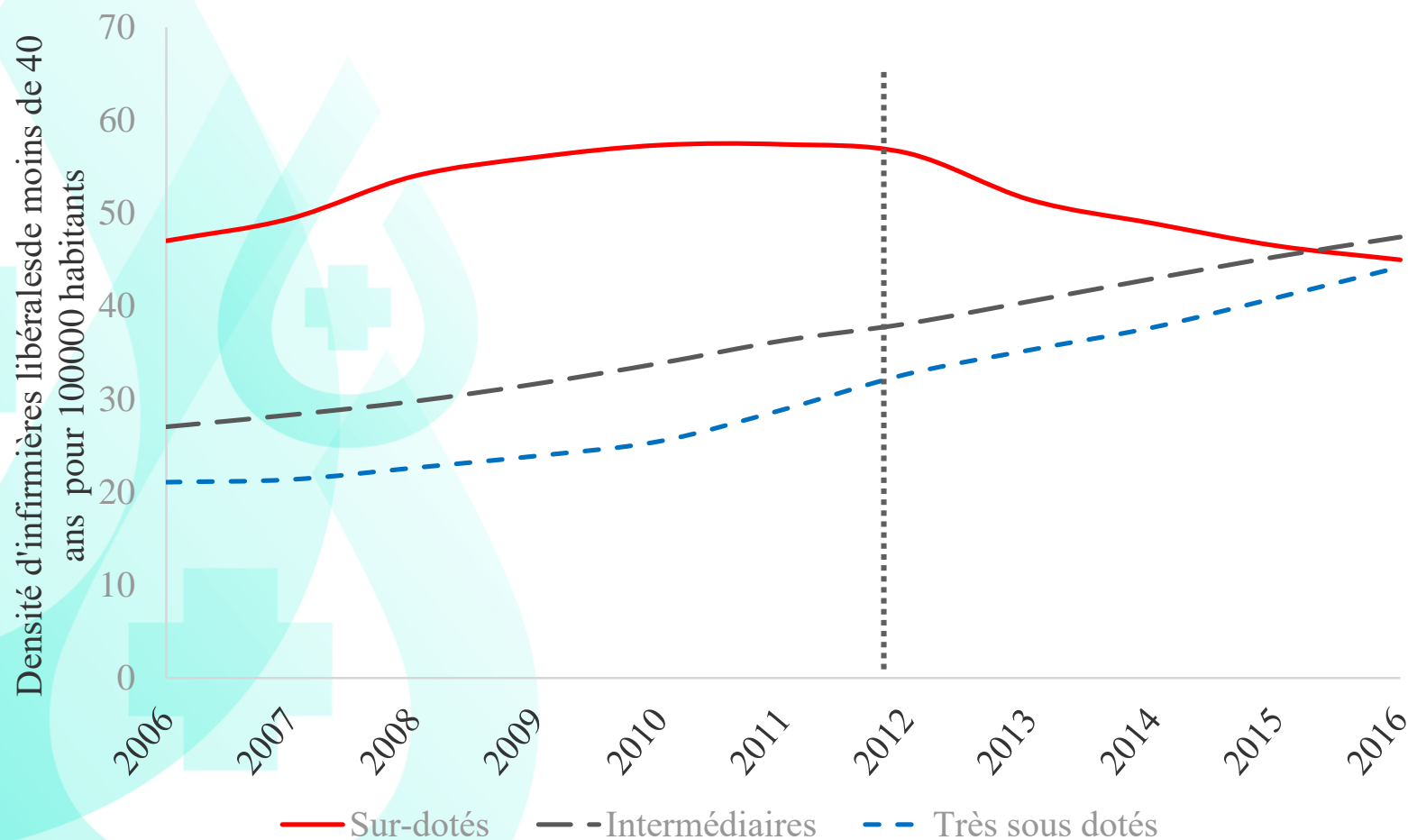
- ⇒ Comparison of nurses density evolution between overserved areas and « similar » ones
- ⇒ Idem for underserved areas compared turn-over « similar » ones (matching)



Evolution of the density of self-employed nurses in underseved (blue) and overserved (red) areas between 2006 et 2016



Evolution of the density of young self-employed nurses in underseved and overserved areas between 2006 et 2016



Limiting nurses installations – Take home message

A good answers in a context of an increasing number of nurses

- It's very efficient to limit the increase of nurses density in overserved areas, and especially of young nurses
- But it does not benefit to underserved areas much more than to intermediate areas (same trend of progression)

Thank you!

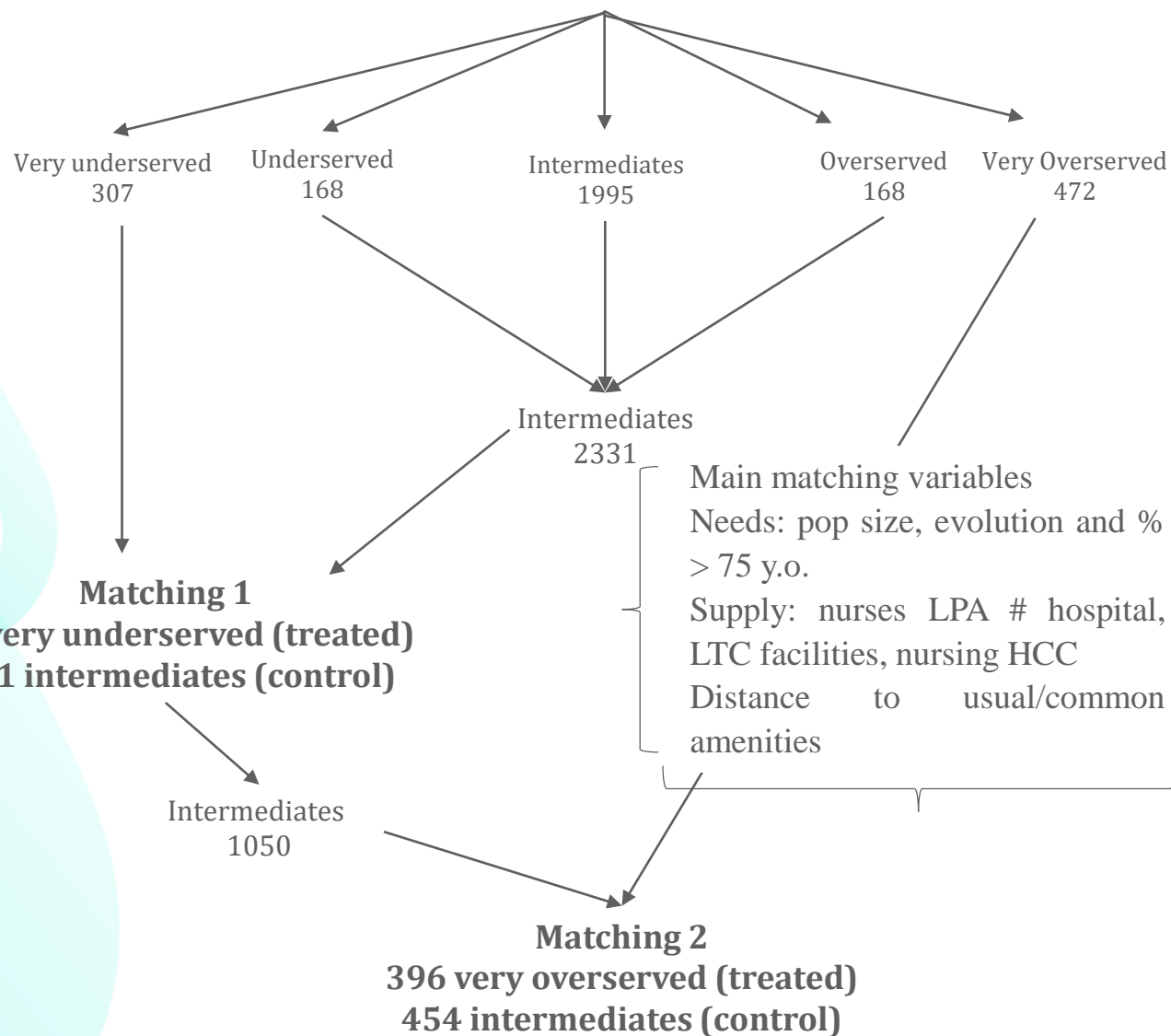
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Rural catchment areas and urban units



Pop. Charac. (National Institute for Statistics and Economic Studies, census data)

Density and activity of self-employed nurses (National Health Insurance, claims data)

Law + RHAs : areas with/without limitation/financial incentives

Rural catchment areas (*bassins de vie*) or urban units (*pseudos-cantons*) level depending on the pop. size (> or <30,000 inhab.)