

IMPETUS 4CHANGE

Postcard from Paris Region

Main stake, face to the climate change. Erwan Cordeau from the Paris Region Institute.

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y @l4C_eu



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Paris Region, To compare

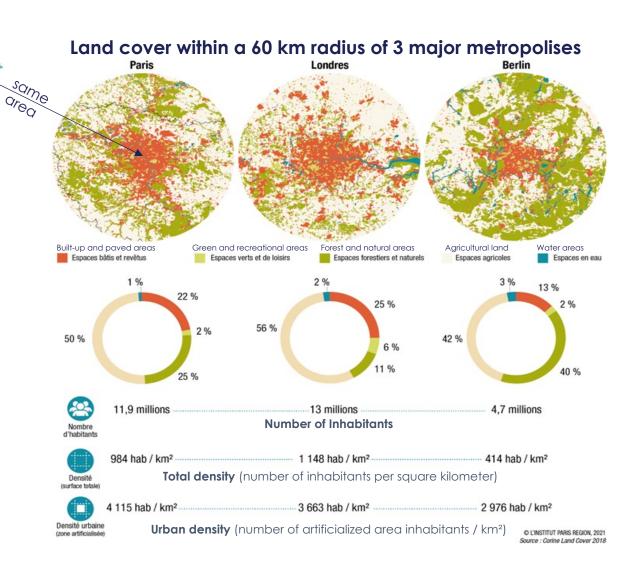
Paris Region (« île-de-France »),

London and Berlin by land cover

Nearly 3 quarters of Paris Region is covered by natural, agricultural and forest areas

While population density in relation to the region's total surface area is lower than in London, population density in relation to Paris' urbanized surface area is higher

The proportion of green and recreational areas in the Paris metropolitan area is relatively low.



Overlapping and sharing jurisdictions

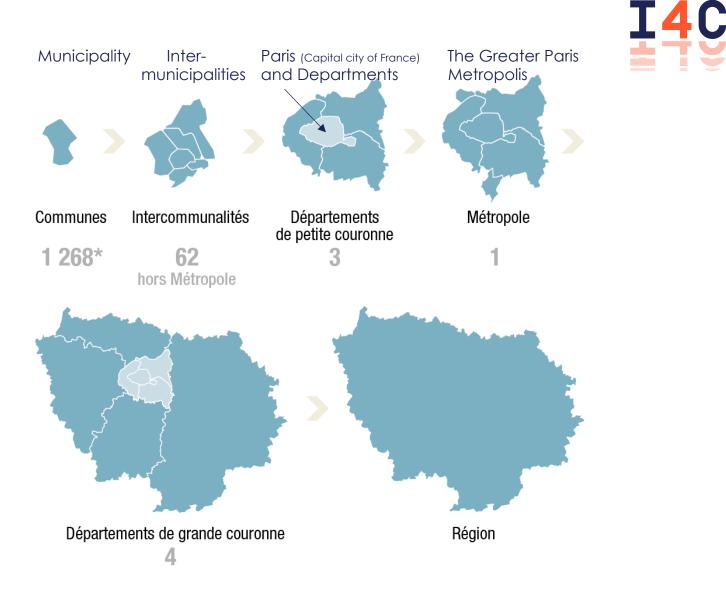
For Climate Adaptation assessment and actions, jurisdiction is shared between several territorial authorities

At Minicipality scale : the mayor has a police powers and a duty to protect vulnerable populations from natural hazards ; local urban planning document

The inter-munipal authorities (relevant scale) are compentent to develop Local Climat and Energy Plans ; local urban planning documents

The law has strengthened the departments in their missions of territorial and human solidarity

The regional authorities (The Region and The State) must take the lead in climate and sustainable development (Master plan, Regional climate, air and energy plan...)





High value-added tertiary activities

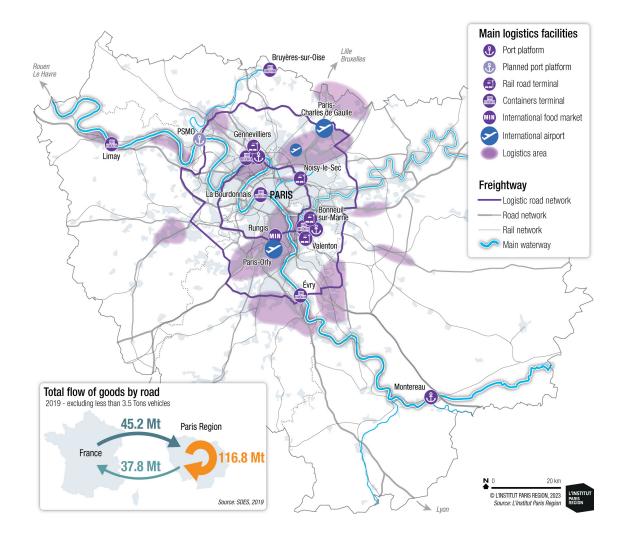
Economic weight of the Region in France :

23% of jobs, highly concentrated in the center (Paris, La Défense...) 31% of Gross Domestic Product

40% of annual R&D spending

Motorized transport still plays a major role

But the agglomeration benefits from an efficient public transport network (and a new project underway : Grand Paris Express)



Strong social and territorial disparities

12.2 million inhabitants

18,8% of the French population 13 million inhabitants in 2035

5.8 million housing units, including : 73% apartments

26% built between 1946 and 1970, prior to the first thermal regulations

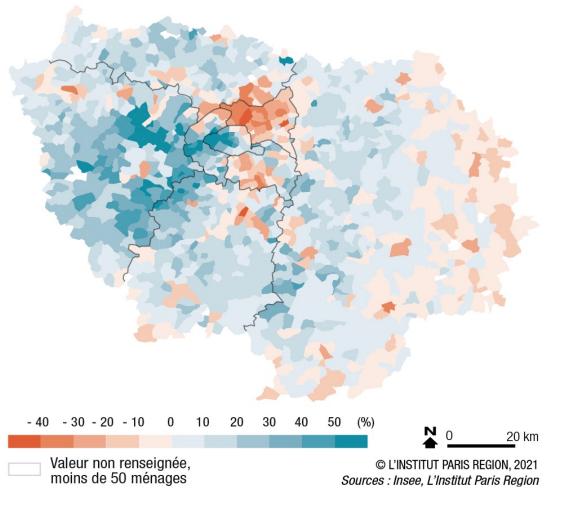
Significant income inequalities (east/west at the regional scale) :

28.4% poverty rate in Seine-Saint-Denis Department

9,7% poverty rate in Yvelines Department



Median standard of living in Paris Region





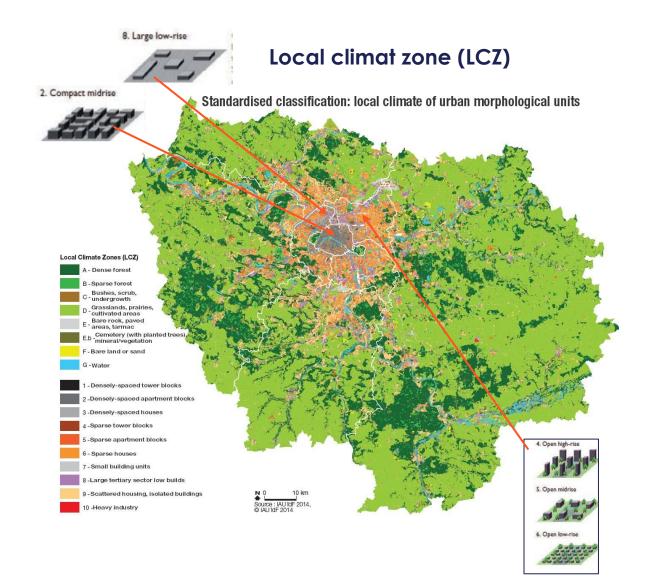
Strong territorial and local climat disparities

A current temperate climat described as "altered oceanic" for its more pronounced annual temperature variations and less precipitation than on the oceanic fringe.

The closer you get to the core of the Paris Region - Paris town –

the denser, rougher, more compact and mineral (impermeable) the urban fabric becomes...

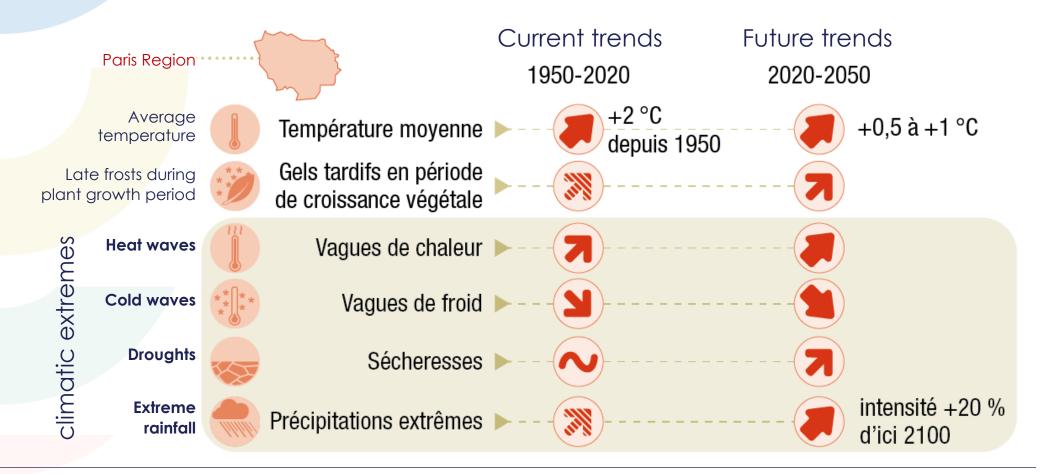
at the origin of disturbances in local climatology



Main climate evolution for Paris Region linked to climate change



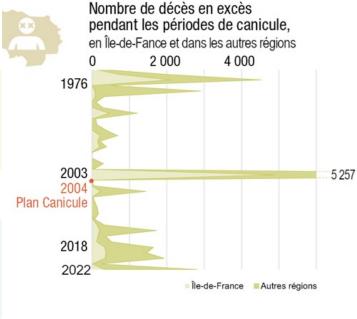
(Based on GREC Francilien, IPSL, DRIAF Météo France data processed by L'Institut Paris Region for The Regional diagnosis of Île-de-France's vulnerability to the effects of climate change, Novembre 2022)



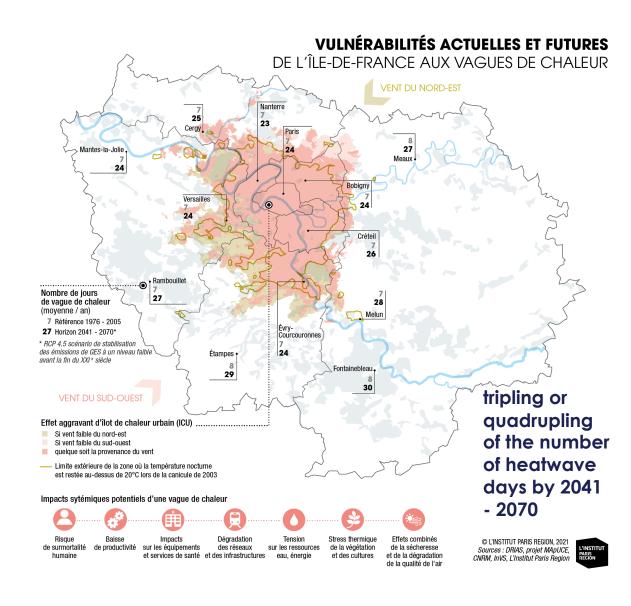


Focus Heat waves & Canicules, + Urban Heat Island (UHI)

the most hard-hitting weather events : a public health issue



rance, 2023 / Sources : Météo-France (ClimatHD), Géodes (Santé Publique France)



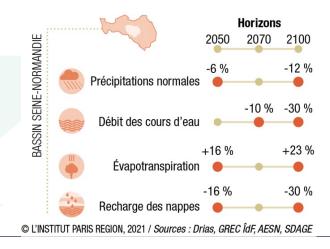


Focus Droughts

Some very recent events :

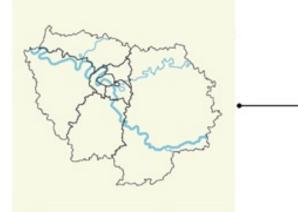
2018, 2019, and 2020 (2 million euros to help farmers financially)

but very bad foresight as regards the soil drought ! (clay shrink-swell, forest fires, crops and vegetation...)

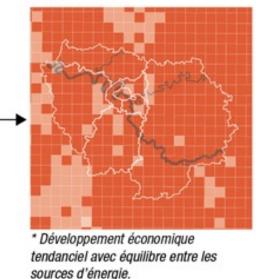


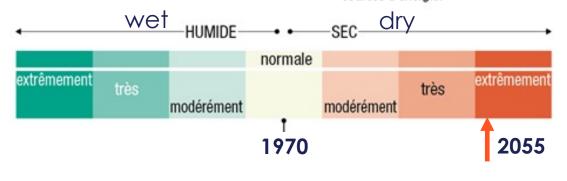
The soil drought evolution

Période de référence (autour de 1970)



Évolution à moyen terme, scénario intermédiaire* du GIEC, autour de 2055





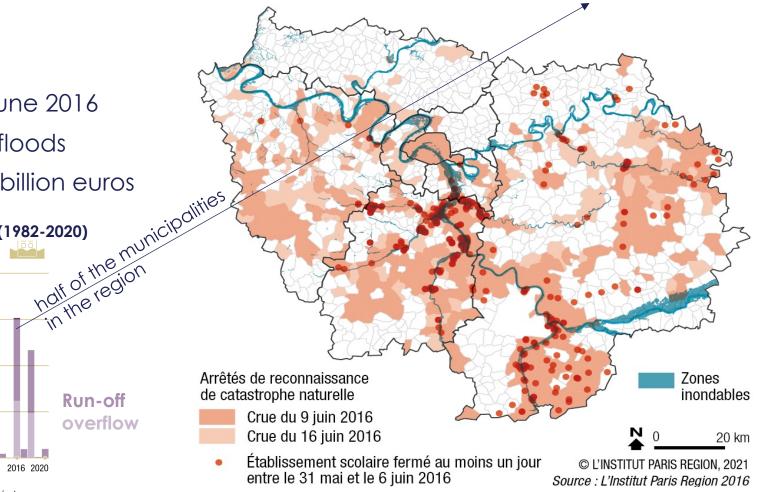


Focus Extreme rainfalls

The atypical flood in june 2016 Run-off and overflow floods Cost of damage : 1.4 billion euros

« flood » natural disaster decree (1982-2020) Nombre de communes par année 800 600 400 **Run-off** 200 overflow 1983 1990 1995 2001 2005 2010 2016 2020 Type d'inondations Débordement Ruissellemen Remontée de nanne © L'INSTITUT PARIS REGION, 2021 / Source : ONRN 2021, traitement L'Institut Paris Region







Thank you for your attention

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L'INSTITUT PARIS REGION

REGIONAL PLANNING AGENCY

