















MAWAC-ENA WORKSHOP

PARIS

November 2025







Session 2 the parisian context - Water



Greater Paris urban metropolis created in 2016

Population

7,2 M inhabitants 8 600 p./km²

Economy

1 M companies 4,2 M jobs

Administration

130 cities11 cities alliances3 departments1 metropolis

Natural resources

135 km of rivers 110 km² of forest





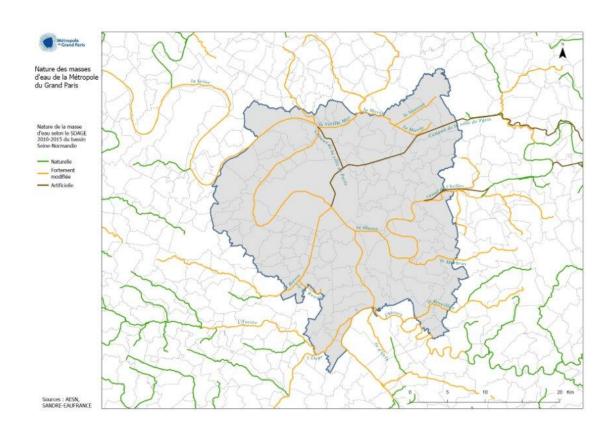




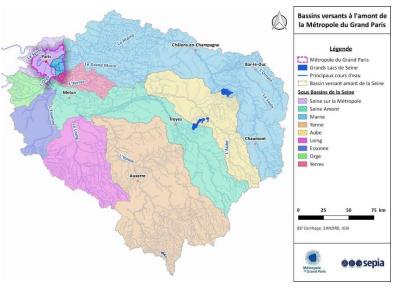


The metropolitan area/The water catchment

area

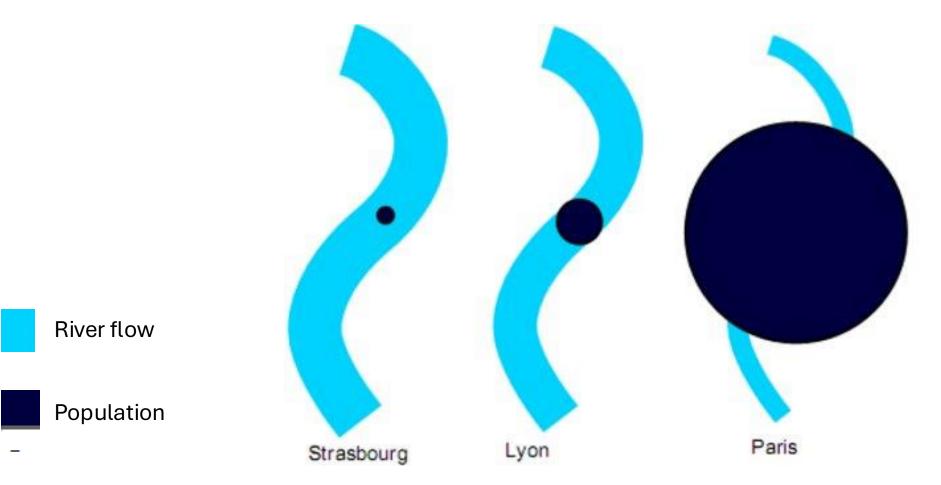






The river Seine under a strong urban pressure





Water Supply









public entities of supply 90% the population

SEDIF (285 Mm³/year), operated by Veolia Eau de Paris (171 Mm³/year), 900 employees **Seneo** (35 Mm³/year), operated by Suez

Average production

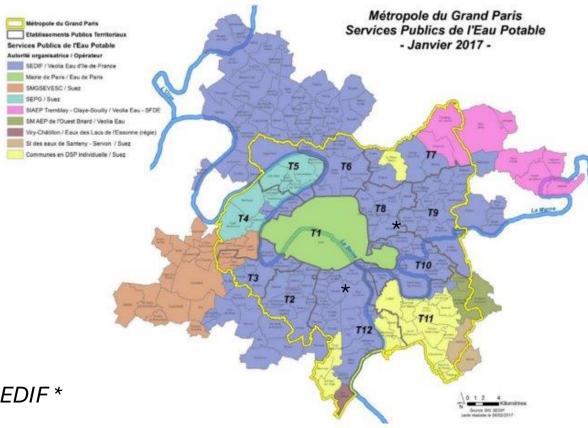
~1,5 Mm³/day 2 plants $> 300\,000\,\mathrm{m}^3/\mathrm{day}$ (up to 650k)

Resources Distribution

Storage ~ 2 Mm³ 50 % Seine

20 % groundwater > 13 000 km of pipes

30% other rivers Efficiency >90%



Some recent changes : some territorial governments quit SEDIF *

Source : Sedit





1 public company for treatment: SIAAP

Internally operated (1800 employees) Large conurbation (9,2 million users)

Average production

~2,4 Mm³/day 6 plants (up to 1,5 Mm³/day)

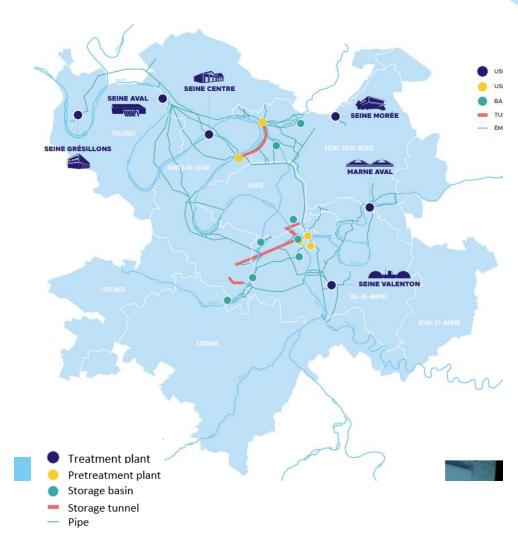
Local collection: cities alliances And SIAAP

> 400 km of pipes 0,9 Mm³ for stormwater storage (tunnel and basins)

Networks saturation during heavy rain

Decrease in self-purification and dilution

properties of the environment



Water ressource and floods

Protections

> 100 km dikes

Inter-seasonnal Storage: 830 Mm³

Temporary storage: 10M3 in La Bassée

Flood expansion area: increasing

capacity

Floods

Main natural hazard

Countrywide consequences

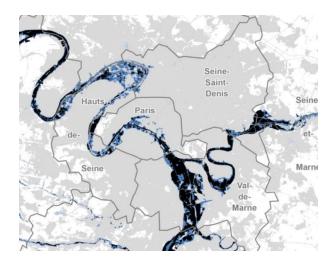
100-year flood : € 30 Md (OCDE)

Drought

Seine controlled downstream by locks

Support from lakes (2022):

- > 55% of the Seine flow in Paris
- > 70% of the flow of tributaries





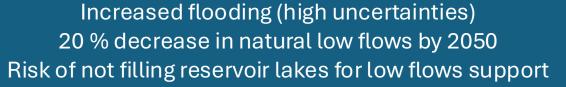












What climate futur for the metropolis?



+2.1°C avera ge by 2050

+2.5°C avera
ge max
summer tempe
ratures in
summer by
2050

More frequent and long heat waves heat islands phenomenon increase x 2 to x 3 number of days with the maximum temperatu re of 30°C (86°F) until 2050 +10% average per year increase in precipitation

+10 à 20% in winter by 2050

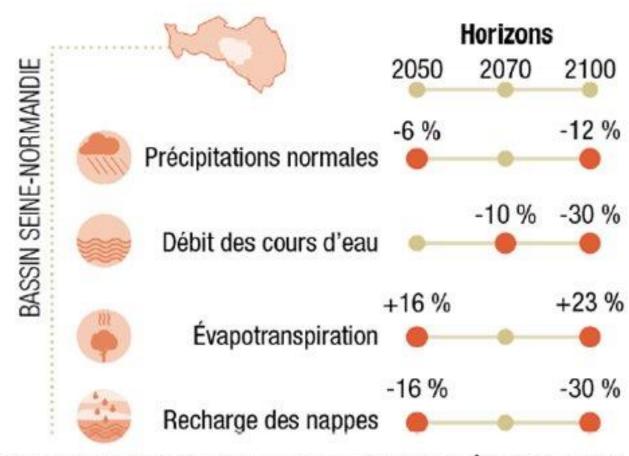
+20 à 40% increasedi n in days of strong rain by 2050

+10 à 20% increase of dry days by 2030 Now the Ile de France région recognized for fire risk

x2 to x 3 the very high risk for fire by 2050

What climate for the futur?

- ➤ Temperature increase : +18% mortality risk
- Water resource quantity tensions
- Water quality decrease
- Decrease in natural environment and ecosystemic services



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Our priorities





Rethink the Metropole land planning to create a more pleasant and sustainable place for its inhabitants



Protect and restore natural metropolitan environment to increase resiliency and guarantee ecosystemic services



Guarantee the continuity of collective/public services and mobilise the stake olders to adress a crisis

Thank you for your attention



















