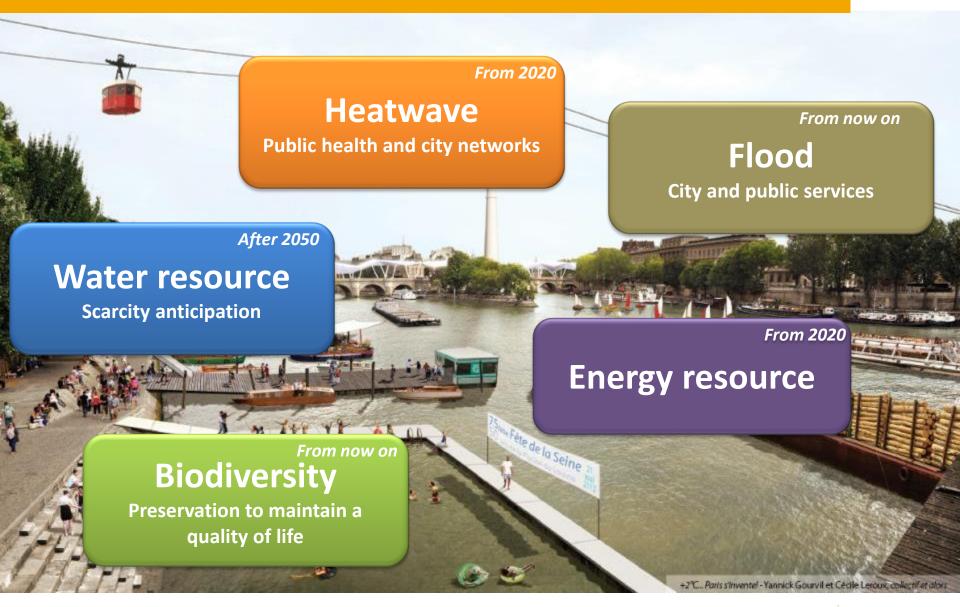


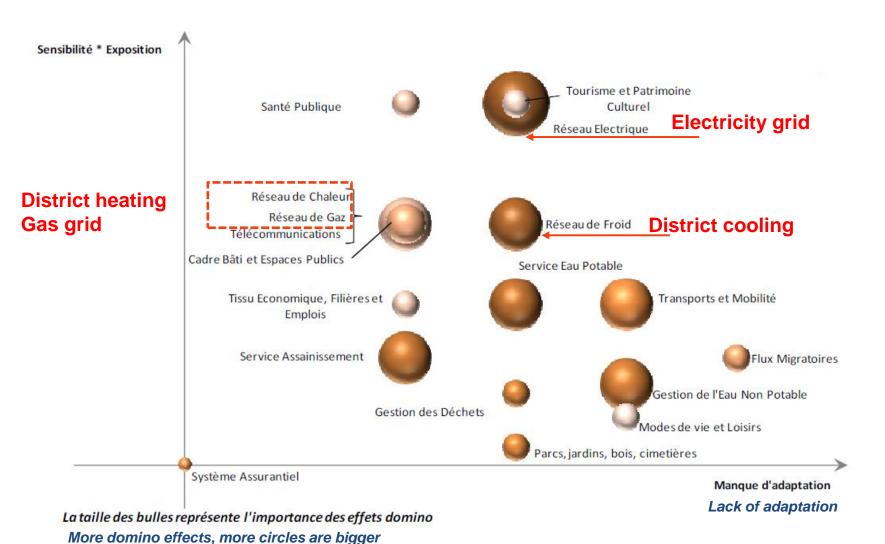
Challenges of a robust city





Energy system « adaptation crash test »





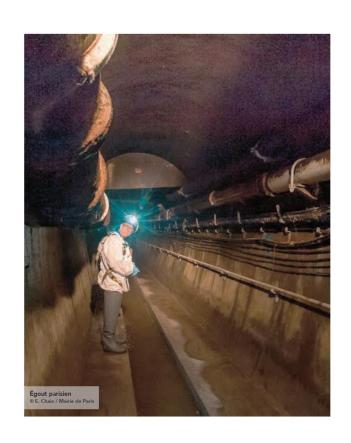
MAIRIE DE PARIS PARKS AND ENVIRONMENT DIRECTORATE

URBAN ECOLOGY AGENCY – Climate and Energies Department

Paris' underground networks



- ▲ 2,400 km of sewer tunnel
- ▲ 1,800 km of drinkable water
- ▲ 1,000 km of non-drinkable water
- ▲ 550 km of district heating
- ▲ 144 km of district cooling
- ▲ 10,000 km electric cables
- → 3,200 km gas pipes



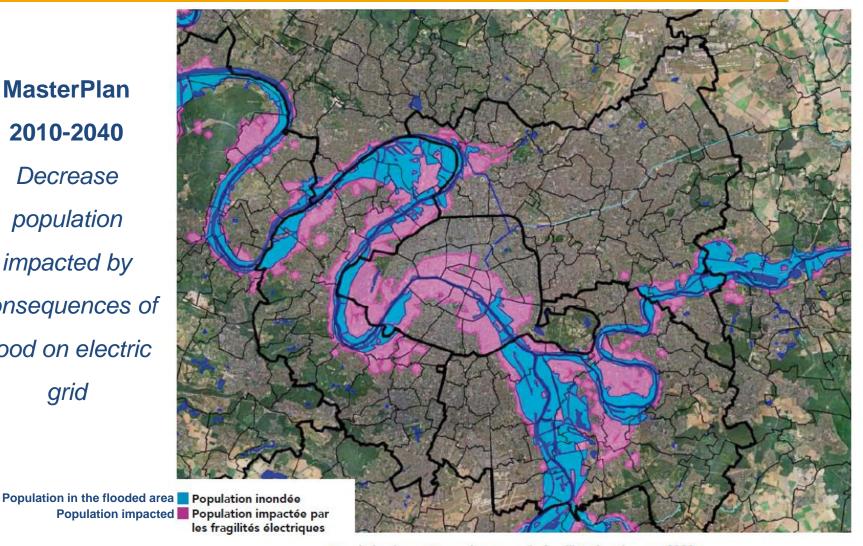
Electricity failures in case of river flood



MasterPlan 2010-2040

Decrease population impacted by consequences of flood on electric

grid



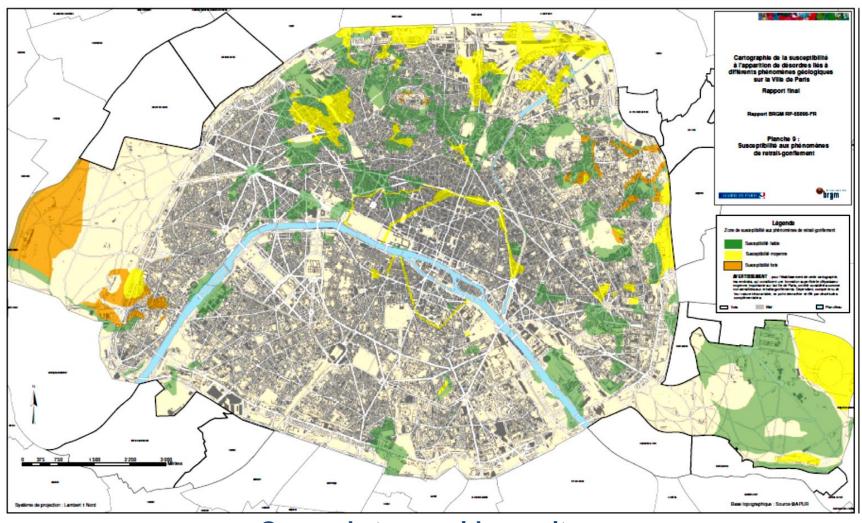
Population impactée par les zones de fragilité électrique en 2000, dans l'hypothèse d'une crue de type 1910

Source: Secrétariat Général de la Zone de Défense et de sécurité (SGZD) avec zoom sur Paris



Subsidence prone areas (clay soils)



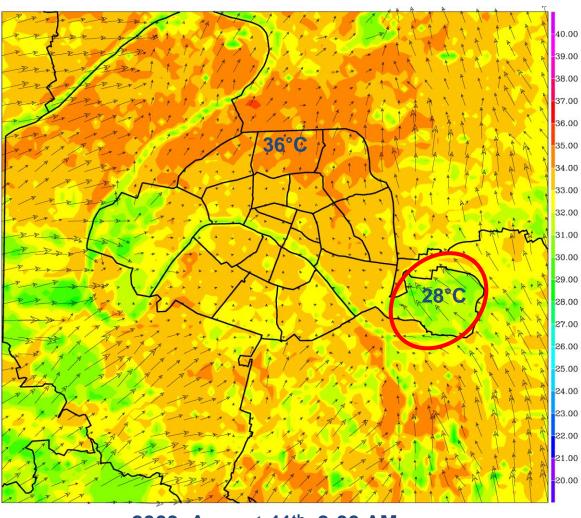


Gas and steam grid security

Urban Heat Island



- Risk of black-out
 - Increasing of air-conditoning demand
 - Health safety



2003, August 11th, 2:00 AM

Gaps and Outlook



■ TIME!

Downscaling national tools to local level

Obligation to have local adaptation regulations

Improving weather forecast services



http://www.planclimat.paris.fr/