



Climate Change Adaptation Strategy in Buenos Aires City

Environmental Protection Agency
Nov 2015

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Ciudad Verde



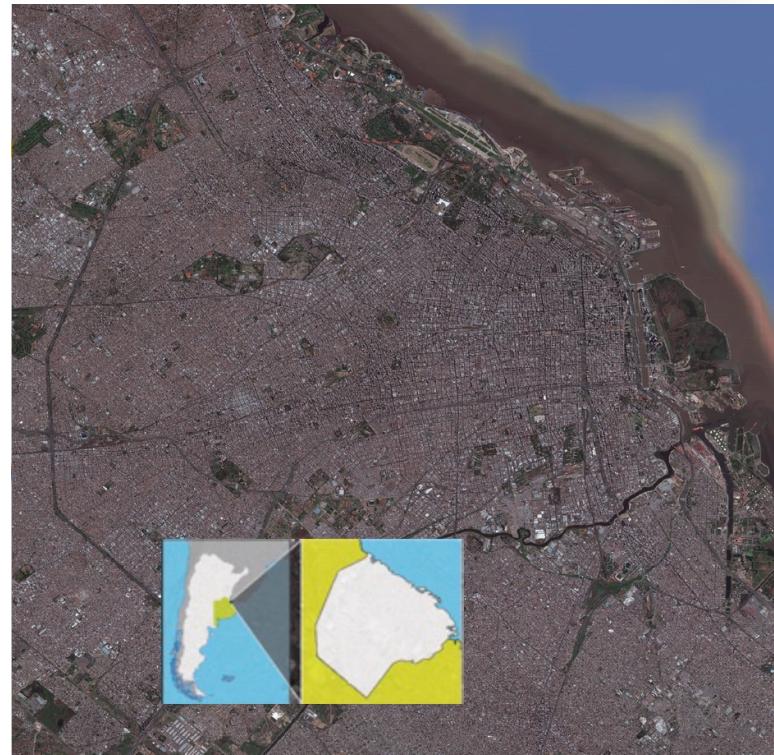
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About Buenos Aires City

- Country: **Argentina**
- Language: **Spanish**
- Area: **202 km²**
- Population **2.900.000 (+ 3.200.000 commuters)**
- Vehicles: **1.300.000 (+ 1.100.000)**
- Metro: **10 train lines, 6 subway lines, 1 tram**
- Buses: **9700**
- Bikes: **133km of bike paths**



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Current and expected climate changes in BA

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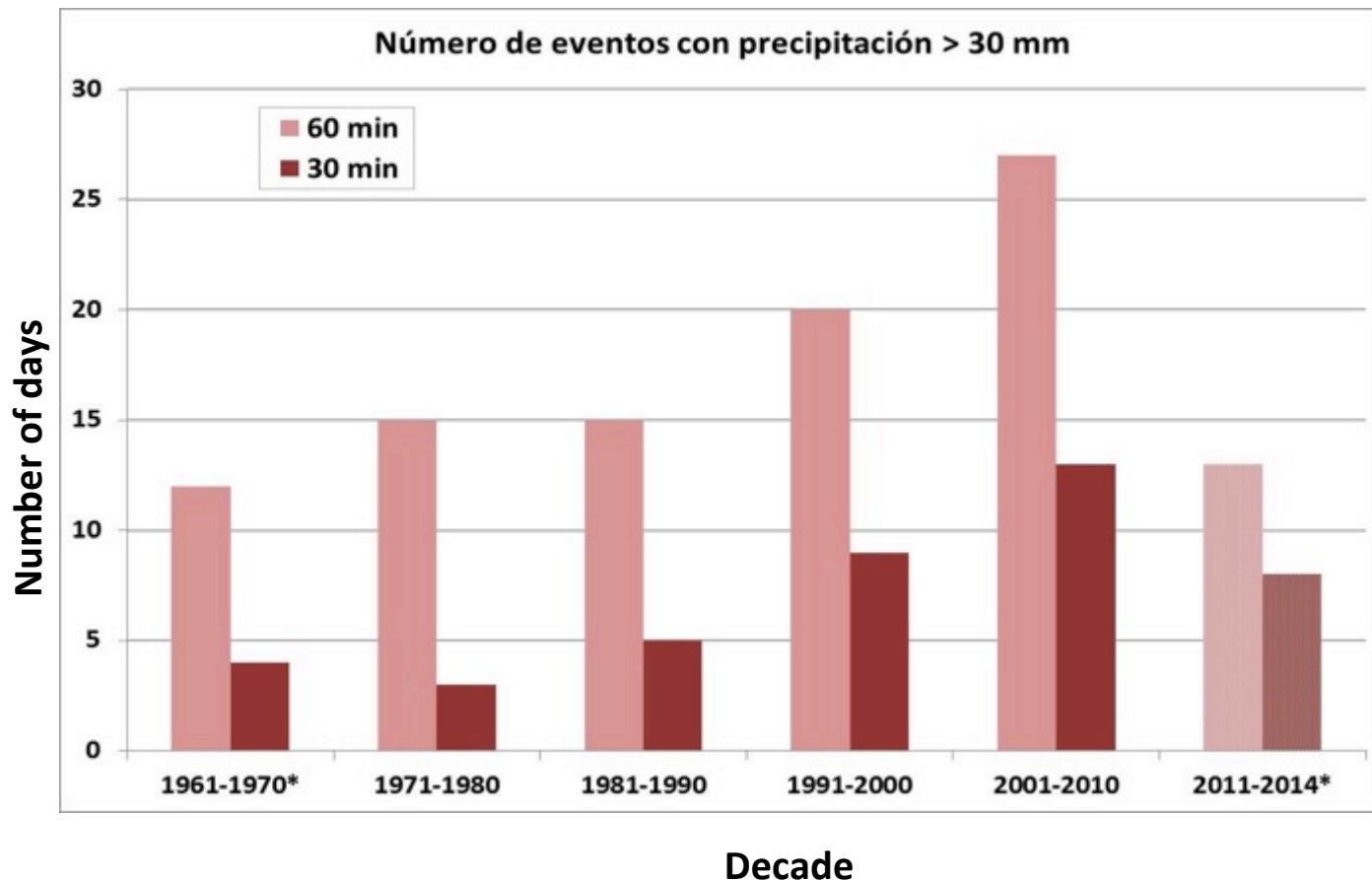


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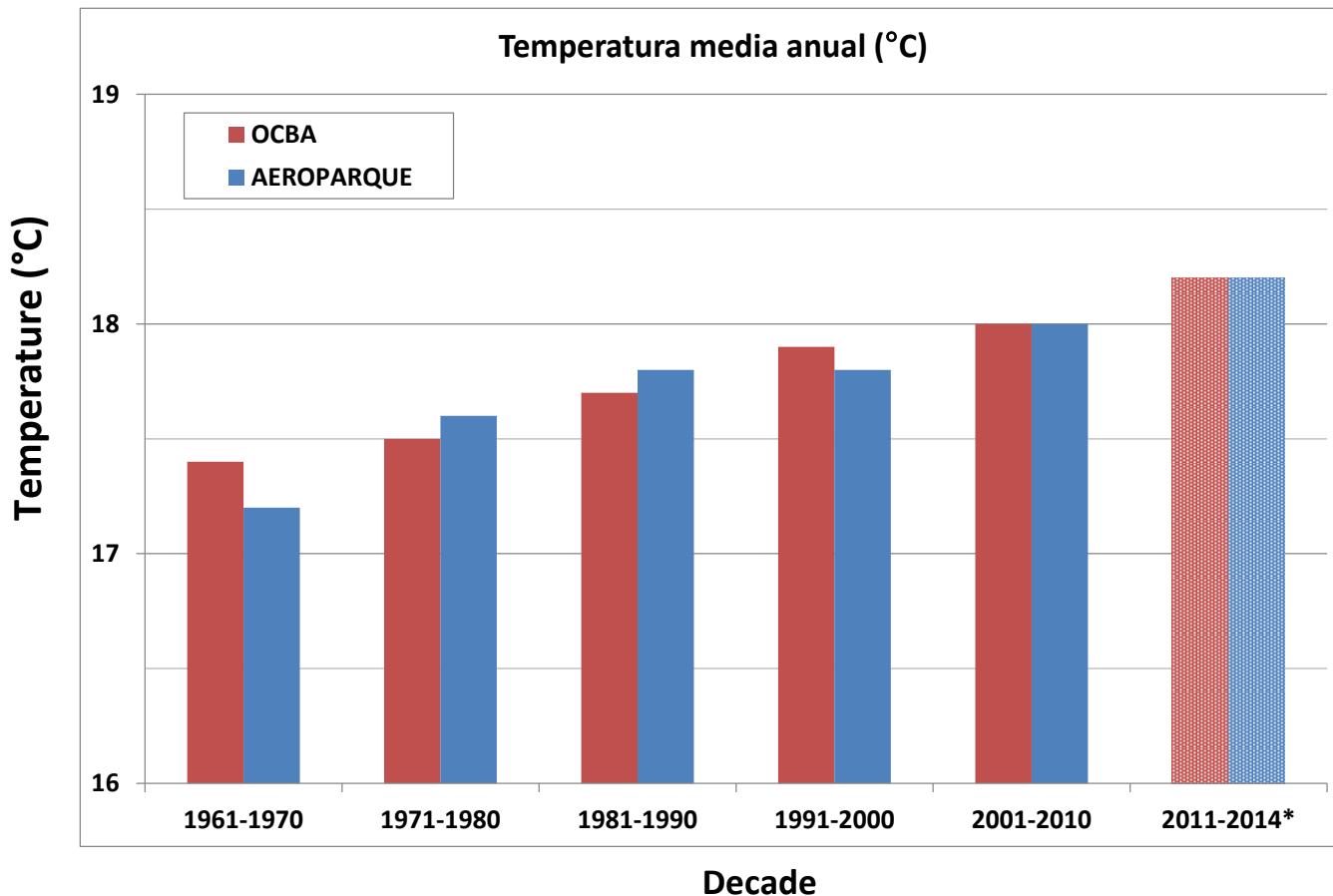


Intense rainfall events





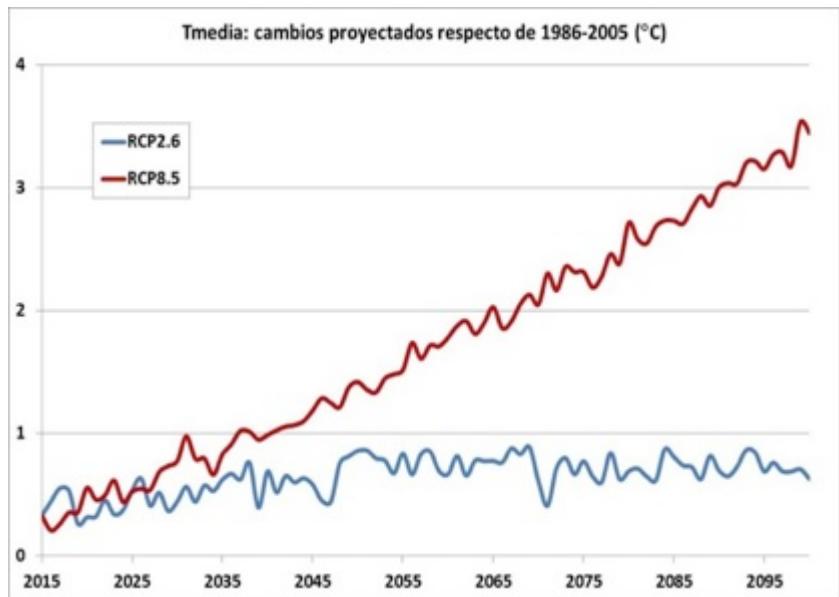
Temperature in Buenos Aires City



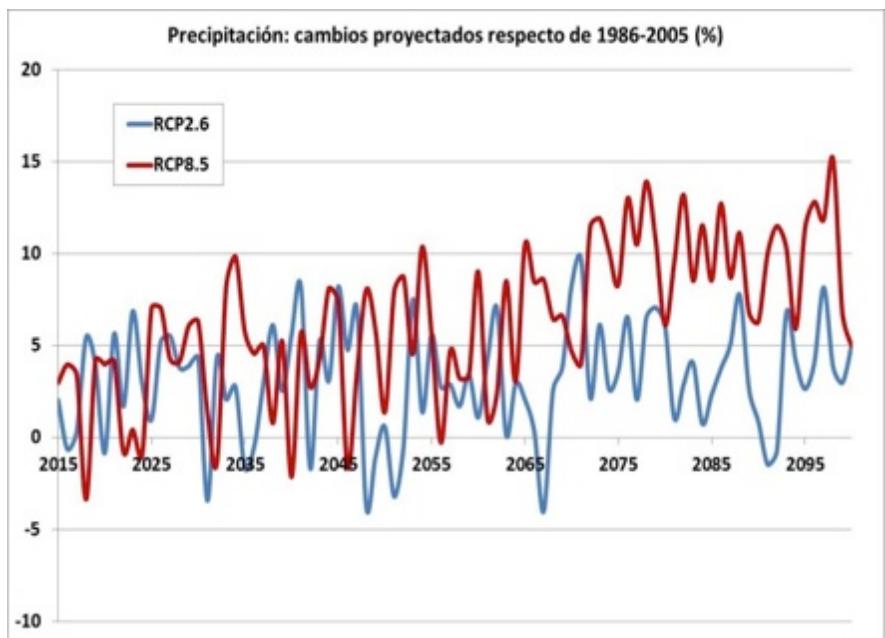


Future scenarios

Average temperature change (°C)

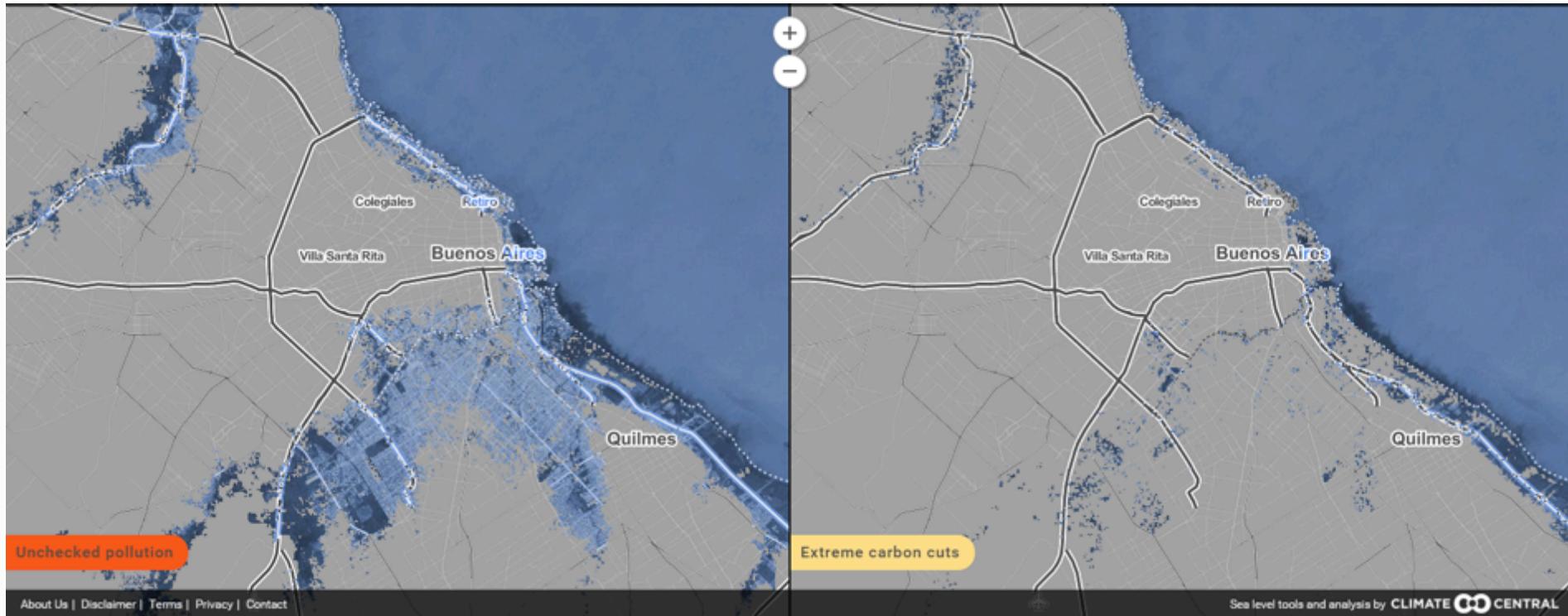


Change in annual rainfall (%)





High risk of flooding



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Day-to-day impacts:



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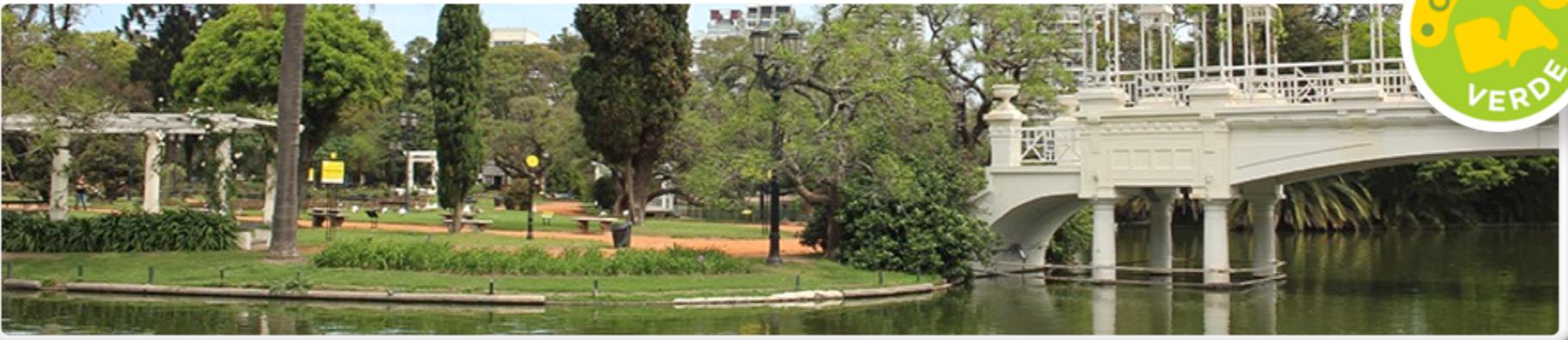
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Towards a local adaptation strategy

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Interministerial Team



Objective:

- Articulate public policies in terms of Climate Change (Art. 14)
- Publish an Adaptation and Mitigation Climate Change Action Plan (Art. 6)



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Adaptation Actions

- Fumigation (mosquitoes!)
- Green Buenos Aires Plan
- Vulnerability analysis and relocalization
- Hydraulic Plan
- Response in case of emergencies: CUCC



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Adaptation Plagues' fumigation

- Over 3500 fumigation processes per year
- Awareness campaigns
- Research and control



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Adaptation

Green Buenos Aires

- Green spaces and Green Belts
- Environmental connectors
- Green Roofs in Public buildings (Schools, Buenos Aires Parliament, highways and tunnels, etc.).



Trees

- Buenos Aires Trees' census
 - Diversity
 - Number
 - Situation
 - Geographic distribution
- Tree planting Masterplan

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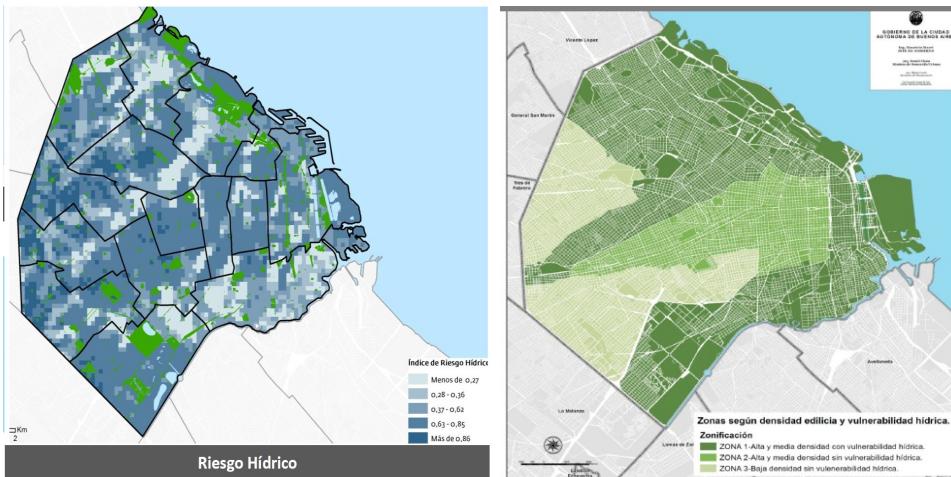
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Adaptation

Vulnerability Analysis and Relocalization

Development of flooding area maps, to develop social strategies to mitigate rain increase.



Risk mapping:
Identification of critical points
and susceptible population
and areas.

Relocalization of vulnerable population, informal settlements (slums) with high environmental risk (Riachuelo and Camino de Sirga): over 400 families.

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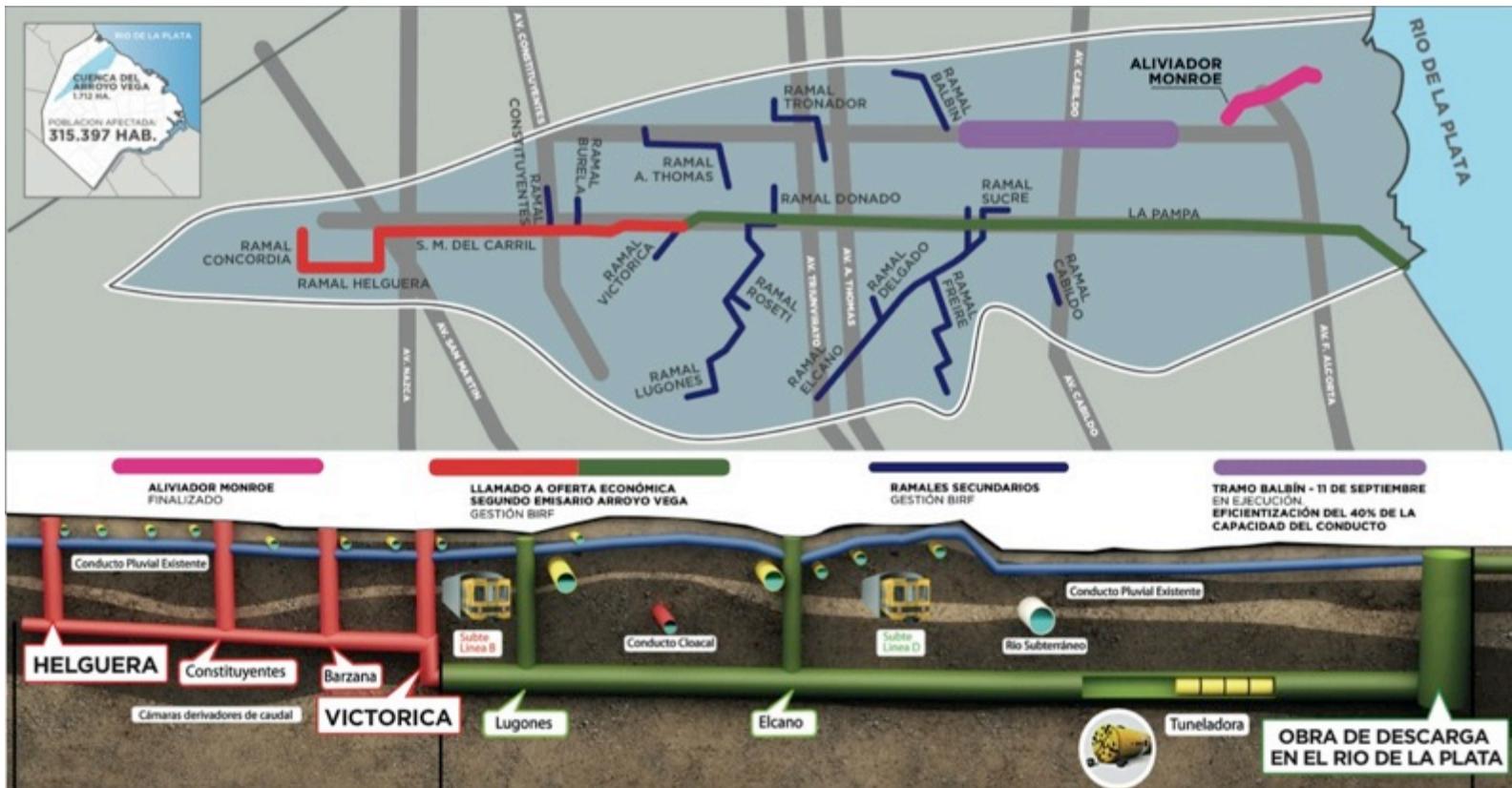
Adaptation Hydraulic Director Plan

- Maldonado Stream – two new tunnels
- Vega Stream
- Medrano Stream
- Cildañez Stream
- Water regulation: using lakes as reservoirs.
- “Hydric parks”: parks as water retention areas.
- Regular cleaning and maintenance of tunnels and sewers. Robots.
- Water pumping stations.





Adaptation Vega Stream infrastructure works



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Adaptation Coordination and Control Center



All communications regarding emergencies are coordinated: First Aid, Civil Guard, Police, etc.

Weather stations, aqueduct monitoring system (speed, level, short-term forecast). Blackout monitoring.

Soon: doppler radar, weather forecast, interconnection with other networks, automatic alerts connected to CUCC





Thank you!
Danke schön!

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Buenos Aires City Government

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