Resilient city planning in Lisbon
Joana Almeida

45º. Congresso da INTA – 10 de março
Resilient city planning in Lisbon

I. Flood risk

II. Seismic Risk

III. Rigid Plans Risk

Lisbon Municipal Land-Use Plan 2012
I. Flood risk
December saw two extreme flooding events in Lisbon within a week.

Peak flow converges with high tide to wreck havoc where valleys meet the estuary.
As such, we are working on diverting peak flow after heavy rainfall to a new system of collector tunnels.
Risk map - flooding

Vulnerability to flooding (left) and Municipal Ecological Structure (right)
Both are transposed into Zoning and Detail Plans

Alto do Lumiär
Zoning Plan
(2014 revision)

Parque Oeste
Image: Viver na Alta
II. Seismic Risk
Seismic Risk

Earthquake effects in Turkey (AFP)

Lisbon’s 1755 Great Earthquake in a contemporary print (Bibliothèque Nationale de France)
Seismic Risk

Average age/typology of the building stock | INE
Seismic Risk

Lisbon Buildings Seismic Resilience Policy

Knowledge infrastructure and modelling
- Simulation model
- Standardized inspection forms
- Vulnerability alerts

Society engagement
- Property Owner’s engagement
- Property Owner’s Enforcement
- Private companies, Universities and Professional Associations Cooperation

Regulation and supervision
- Urban Planning Instruments
- Specific Guidelines Definition
- Project and Construction regulations compliance
III. Rigid Plans Risk
Lisbon Municipal Land-Use Plan

2012
Approved Detailed Plans are often inoperative...

Parque Mayer
Detail Plan (2012)

Campolide Campus
Detail Plan (2014)

Calçada das Lajes
Detail Plan (2021)
Development areas are crucial for the municipality’s planning strategy

- “New development areas” – Lisbon Municipal Plan
  “Áreas a consolidar” – PDM de Lisboa
  1.300 hectares

- Approved Intervention Units
  – 55 hectares

- Intervention Units in Process
  – 153 hectares
Development areas are crucial for the municipality’s planning strategy

“Solutions are reached together and they’re built on trust and commitment”

Partnerships:

There are opportunities for many different types of investors, such as:

Beato/Marvila Urban Renewal Area
A Structure Plan with Public Space Design can articulate the several intervention units.
Thank you!

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