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TOWARDS A POST CARBON SOCIETY ? THE NEW CITIZEN USES FOR THE LIVING CITY OVERVIEW & USES CASES IN FRANCE

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HUMAN POPULATION: HOLOCENE ACTIVITY



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LA PASSION DE L'INNOVATION





ZOOM 1950 - 2050



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A WORLD THAT CHANGES...







URBANIZATION: HIGH DENSITY



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CHANGE OUR LIVES? ENERGY & CO₂



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CLIMATE PROTECTION!



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GLOBAL TEMPERATURE CHANGE

Source IPCC						
Ο	°C 1°	°C 2°	°C 3°	°C 4	°C 5°	°C
Food	Possible rising latitude regior	Falling crop yield g yields in some high is	s in many areas, part	icularly developing re	gions Falling yields in man developed regions	у
Water	Small mounta disappear – w threatened in	in glaciers rater supplies several areas	Significant decrea availability in man Mediterranean and	ses in water y areas, including d Southern Africa	Sea level rise major cities	threatens
Ecosystems	Extenseive da coral reefs	amage to	Rising number os	species face extinctic	'n	
Extreme weather events		Rising intensity of st	orms, forest fires, dro	ughts, flooding and he	eat waves	
Risk of abrupt and major irreversible changes	Onset of irrev Greenland ice	ersible melting of the sheet	Increasing risk the climate sys	of dangerous feedba stem	icks ans abrupt, large-	scale shifts in





SECURITY RISKS & CLIMATE CHANGE



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POTENTIAL CONSEQUENCES

CO₂ concentrations, temperature and sea level will continue to rise long after emissions have been reduced



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11





WORLD & CITY PRIMARY ENERGY CONSUMPTION



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ENERGY CONSUMPTION IN EU & EU CITIES







EVOLUTION OF URBAN POPULATION IN FRANCE



YEARS / CRITERIA	1950	2012
URBAN POPULATION (MILLIONS)	24 M	48 M
URBAN POPULATION (%)	55%	78%
URBAN TERRITORY AREA (KM ²)	40 000	120 000
OIL CONSUMPTION (PRIMARY ENERGY (MTOE))	13 MTOE	88 MTOE
CO ₂ EMISSIONS (WITH BIOMASS LULUCF) (MILLIONS OF TONNES)	150-200 MtCO ₂	434 MtCO ₂
DISTANCE TRAVELLED A DAY (LOCAL MOBILITY)	less than 6 km	25,5 km
TRAVELLERS MOBILITY (BILLIONS OF PASSENGER/KILOMETRES) (PKM)	~ 110	980

Cities

- Banlieues
- Couronnes

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VULNERABILITY OF CITY CENTERS







POLLUTION CAN BE SEEN





LA PASSION DE L'INNOVATION



TOWARDS A SUSTAINABLE CITY







FROM A SUSTAINABLE CITY TO A POST CARBON CITY?



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AN URBAN TRANSITION IS POSSIBLE

Transition to begin now

Economic model based on the increasing use of energy and natural resources Efficient economic model in energy and <u>natural resources</u>

Plan of investments in transition projects Other proposals :

- Governance
- Taxation
- Market regulation
- Standards
- Behaviour change

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PARIS 2013 CLIMATE PLAN







PARIS 2013 CLIMATE PLAN





The Halle Pajol the biggest French urban solar plant

Jean Bouin stadium with solar roof

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MOBILITY



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HOT & COLD NETWORKS – GEOTHERMAL POWER





Geothermal power plant in the North of Paris

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PARIS CLIMATE PLAN "BLEU CLIMAT"



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BETA PROGRAMME[®]

 A transition programme in the Buildings, Employment, Transportation and Agrifood sectors designed to cut carbon emissions by a « factor 4 » by 2050







INCLUSIVE APPROACH: MOBILISATION OF ALL THE TERRITORY ACTORS

That programme is structured on three time scales:

- 0-1 year: possible actions already agreed or tested on pilot sites
- 1-5 years: known actions requiring a first phase of planning
- 5-10 years: actions with a wider scope that involve changes of use



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OPENED PLATFORMS FOR PLATFORMS CITIES



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THANK YOU

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