

HYBRID PARKS

Combining abilities, creating synergies and enhancing the performance of parks for sustainable development policies

Διεθνές Συνέδριο

«Χώροι Πρασίνου: Ένας μοχλός για βιώσιμη τοπική ανάπτυξη»

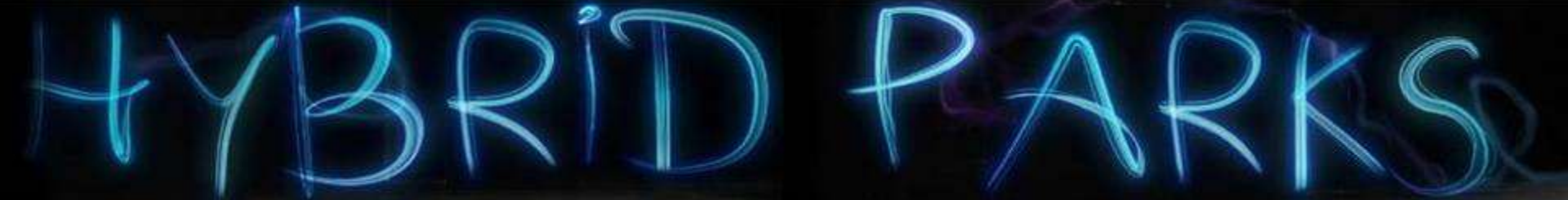
26/6/2014, Ξενοδοχείο RODOS PALACE, Ρόδος



ΠΕΡΙΦΕΡΕΙΑ
ΝΟΤΙΟΥ ΑΙΓΑΙΟΥ



INTERREG IVC
INNOVATION & ENVIRONMENT
REGIONS OF EUROPE SHARING SOLUTIONS



How Cities Could Use Parks & Green Spaces for Climate Change Management

Katerina Tsakmakidou, PhD
Agronomist,
Rhodes Municipality.

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PRESENTATION OVERVIEW



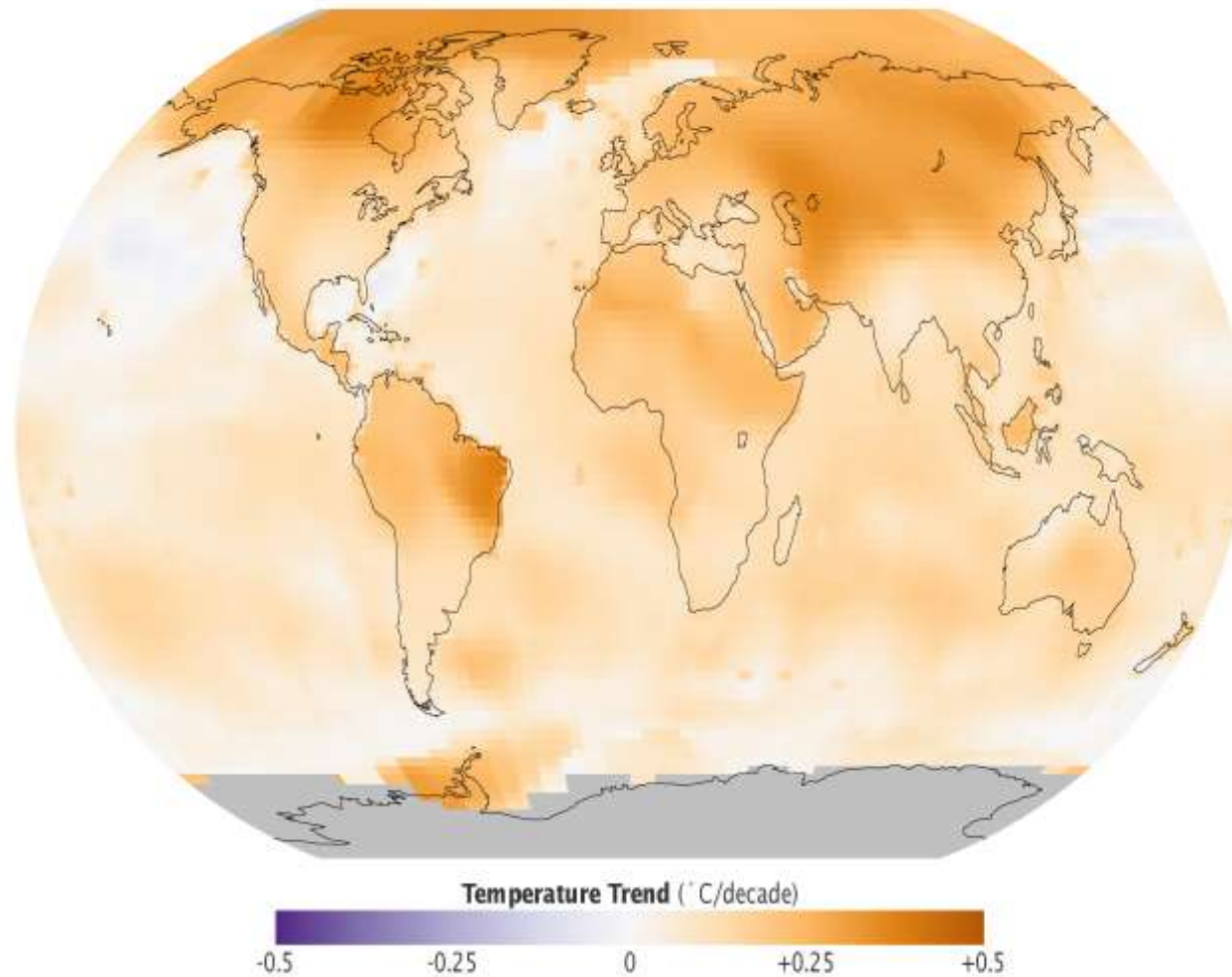
- Climate Change and its impacts
- Adaptation & mitigation:
How parks help
- Parks & Green spaces in Rhodes
- The challenges ahead

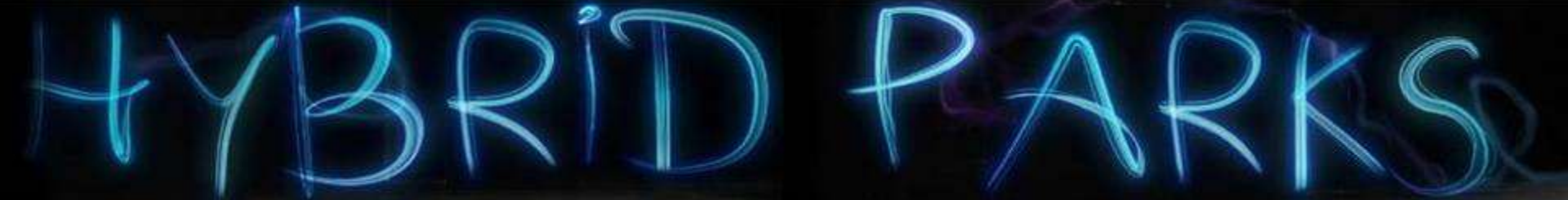
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CLIMATE CHANGE

2013 was the
7th warmest
year
since 1880

1950-2013 Temperature Trend





CLIMATE CHANGE IMPACTS

	Natural World	Economic development	Human lives
Temperature increase	Biodiversity increased risk of extinction	Agriculture Forestry Tourism	risks to the health and safety
Precipitation shifting	forest fires and droughts.	Floods	risks to the health and safety
Sea level rise	Shoreline loss Biodiversity	Shoreline loss	risks to the health and safety
Extreme weather	Forest fires	Tourism, agriculture	risks to the health and safety

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ADAPTATION VS MITIGATION

Adaptation

- Adaptation concerns preparing for **inevitable** climate change.

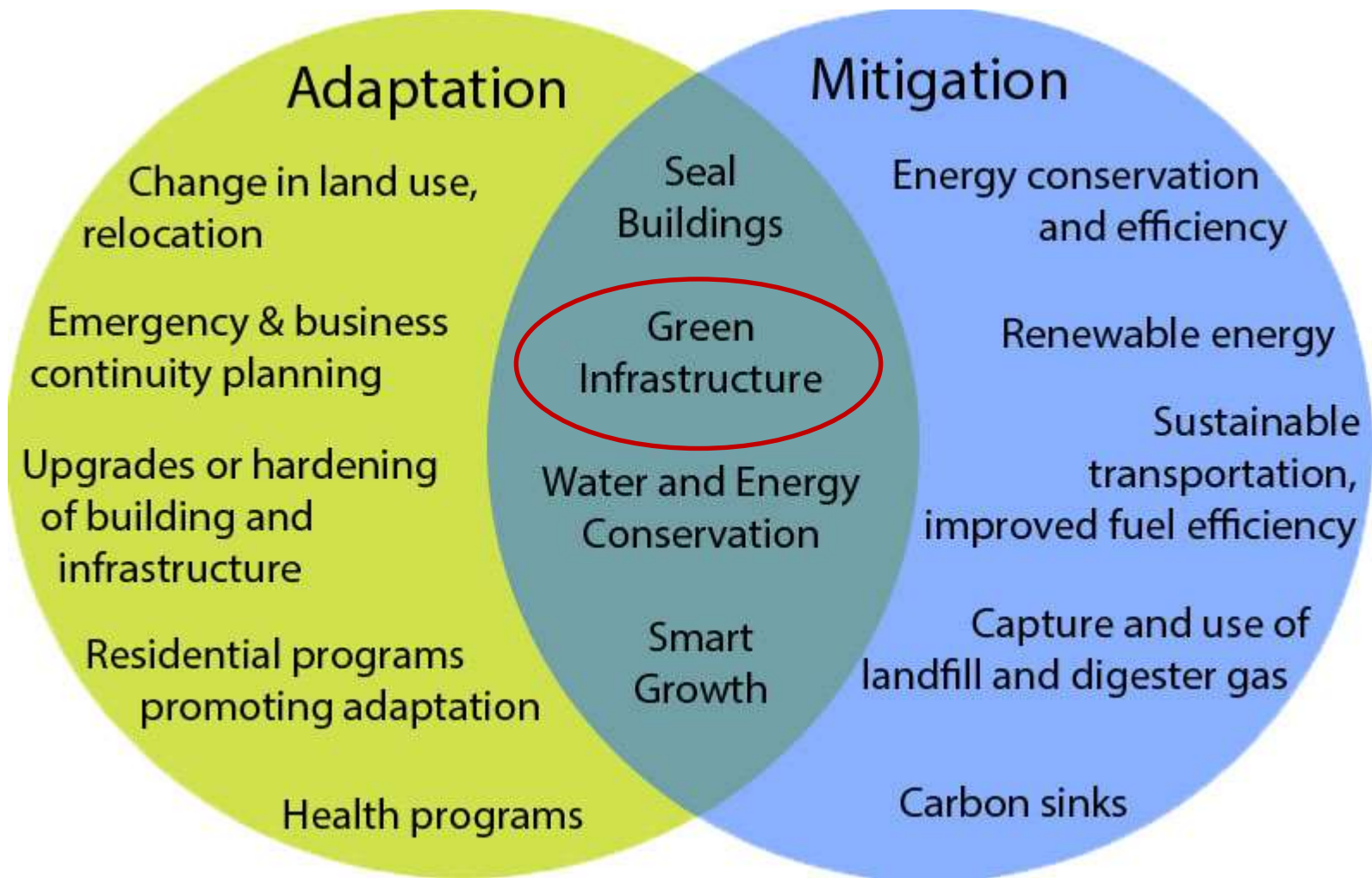


Mitigation



- Mitigation is the act of **limiting** further climate change.

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CCAP (2008)

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Rhodes Municipality

POPULATION: 117.000

EMPLOYEES: 1.200

SIZE: 1.400 km²

Est. 2011

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Planning & Organization Department

Planning &
Development
Unit

Quality
Assurance,
Performance
&
Organization

Planning, submitting and implementing European funded projects for the.

Strategic Planning, including City's 5 year Action plan & strategy development.

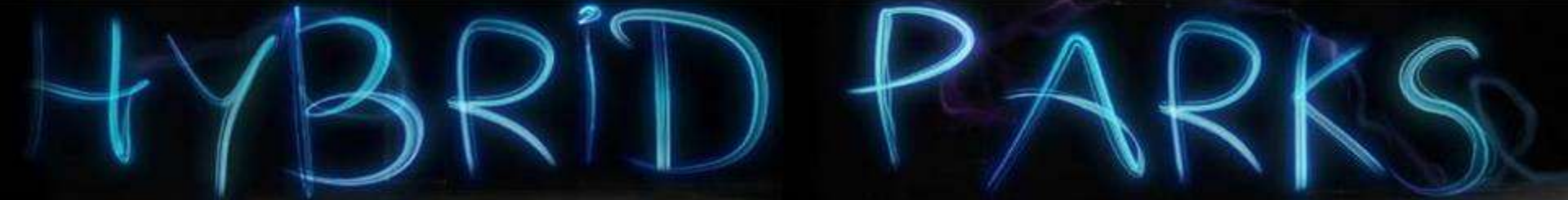
Assisting the Municipality on planning & formation of corporations and organization structures.

Setting standards for Rhodes public services, personalised to individual users' needs.

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CLIMATE PROTECTION INITIATIVES





CLIMATE CHANGE AND PARKS IN RHODES

Adaptation

- Temperature management
- Water management
- Biodiversity habitats.

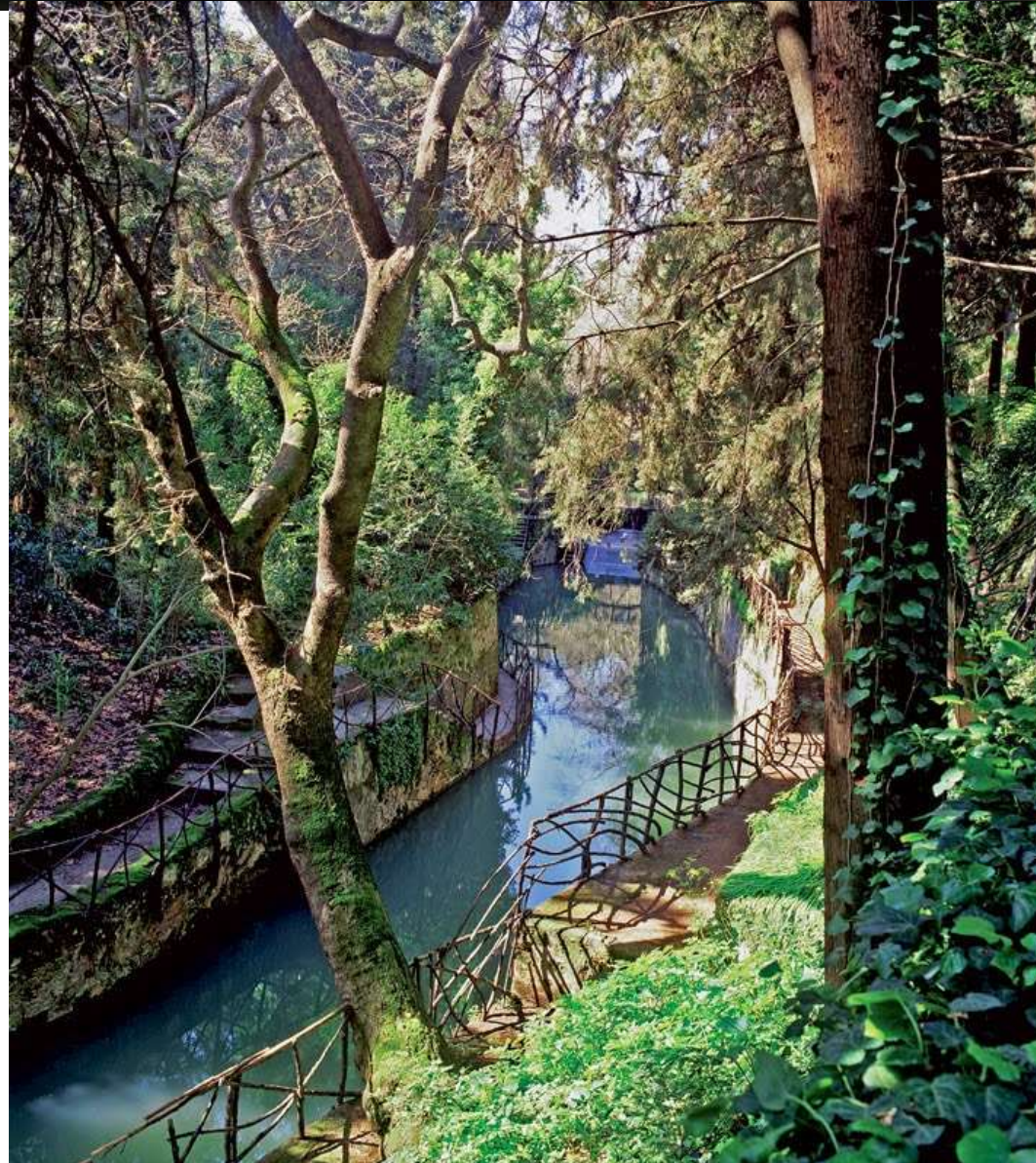
Mitigation

- Innovation & Demonstration
- Absorption of pollutants, including greenhouse gases.
- Influencing people's behaviour.

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Rodini Park

- *The evaporation from large trees produce a significant cooling effect*
- Green cover potentially eliminate the effects of climate change on increasing surface temperatures
- *Rain water harvesting and reuse*



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RHODES MEDIEVAL CITY GREEN BELT



- Protects natural /semi-natural environment;
- Improves air quality within urban area
- Protects the unique character of Rhodes Medieval City.
- New innovative Recreation area (Gym Park)

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**LORD BYRON'S street Gym
Park opening in 2013**

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Parks as Biodiversity Habitats



*Ladigesocypris ghigii** (Pisces, Cyprinidae), commonly called **gizani**, is a small freshwater fish, endemic to the Greek island of Rhodes. And one of the most endangered freshwater fish of Europe

<http://www.life-gizani.gr/>

Following a LIFE- Nature project 2 organized conservation areas for gizani were created in Rhodes in 1999.

- Agia Eleoussa
- Fassouli, Psinthos.

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Agia Eleoussa village



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Fassouli, Psinthos Village



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ROAD SAFETY PARKS

- A. Papandreou Park, Rhodes city
- Agios Soulas Park, Soroni village



Catering to kids of all ages.
A mini traffic environment for them to practice and make their road safety skills
Role-play: pedestrian or cyclist and stop at real pedestrian crossings.

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Agios Soulas Park



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Andreas Papandreou Park



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New Demonstration Projects

ENERGY SAVING INTERVENTIONS IN GREEN SPACES

Bioclimatic RE-design of open public spaces in the historic centre of Rhodes

G. Charitos Square



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Proposed actions in 2014

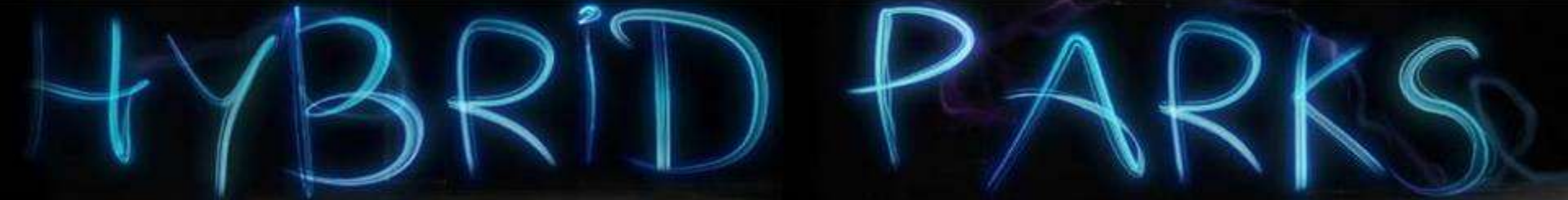
- New Tree planting
- Innovative energy saving public lighting
- Innovative heat absorbing new pavement
- Innovative patio shades



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THE CHALLENGES AHEAD

- Pressure on land from high urban density and economic activities (tourism).
- Flood risk and preparation of flood risk management plan.
- Tree loss (forest fires) risk due to increased desertification.
- Management of water, temperatures and biodiversity.



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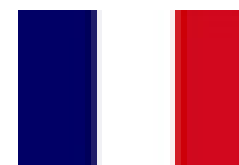
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Good Luck!



FIFA WORLD CUP
Brasil