



Ex-CENTRO DE ESTUDOS DE ARQUITECTURA PAISAGISTA “PROF. CALDEIRA CABRAL”

<http://ceapisa.wix.com/ceap>

Actual **Green and Blue Infrastructures Research Line**
Linking Landscape, Environment, Agriculture and Food - LEAF

Planeamento de Base Ecológica – uma questão de paradigma

Manuela Raposo Magalhães



U LISBOA

ENTRE O TERREIRO DO PAÇO E MONSANTO



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Image © 2015 DigitalGlobe

Google earth

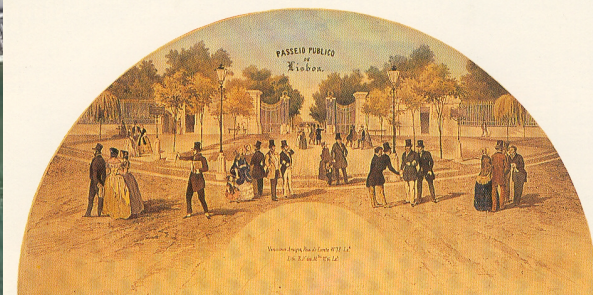


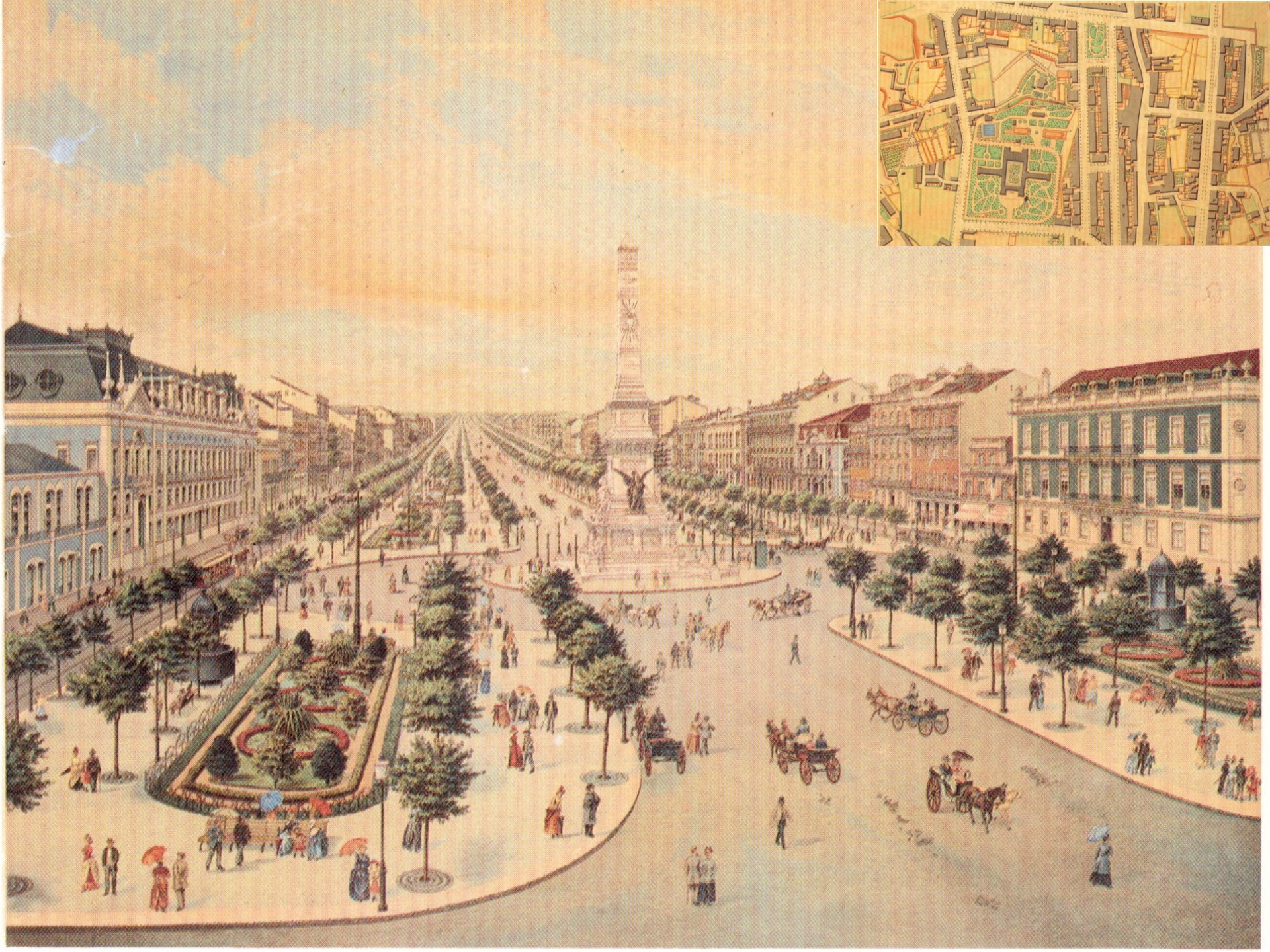
Figura 1.8 Lisboa em 1650, segundo J. N. Tinoco





© 2015 Google
Image © 2015 DigitalGlobe









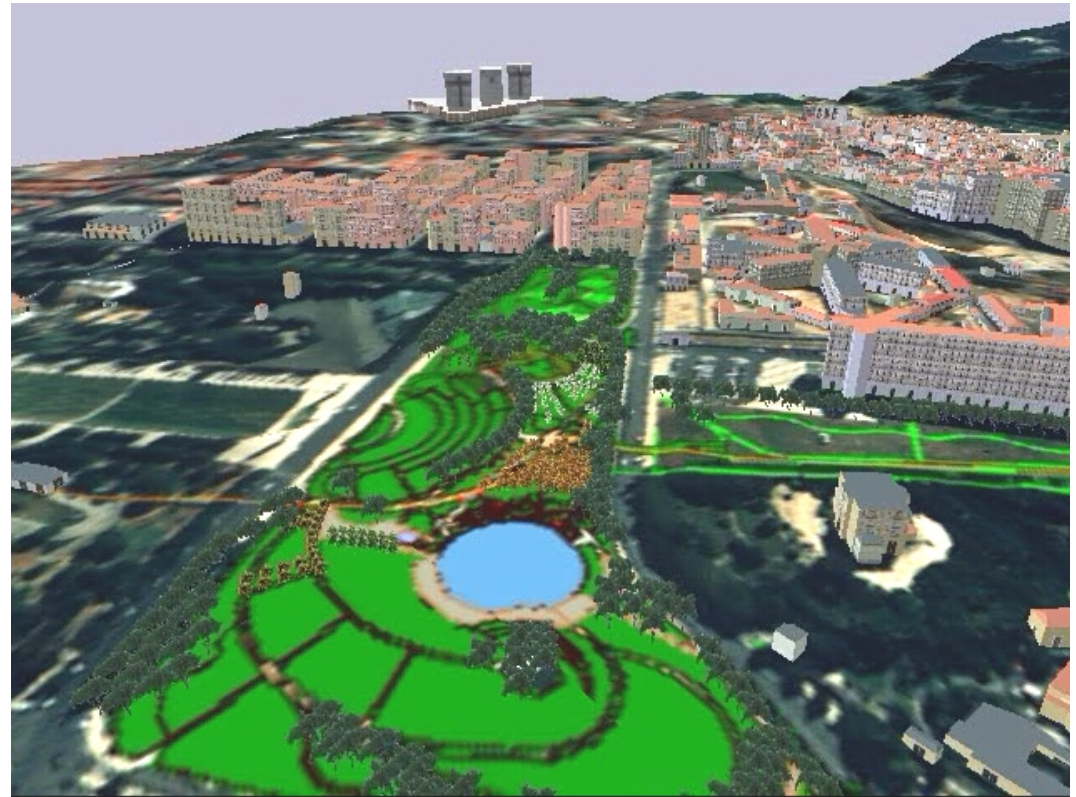
Plantação de Monsanto por rapazes da Mocidade Portuguesa



Plano de Gröer | 1948

P. Eduardo VII – Corredor de Monsanto – 1999

Coordenação Prof. Gonçalo R. Telles



Visualização Gráfica, IST, UTL



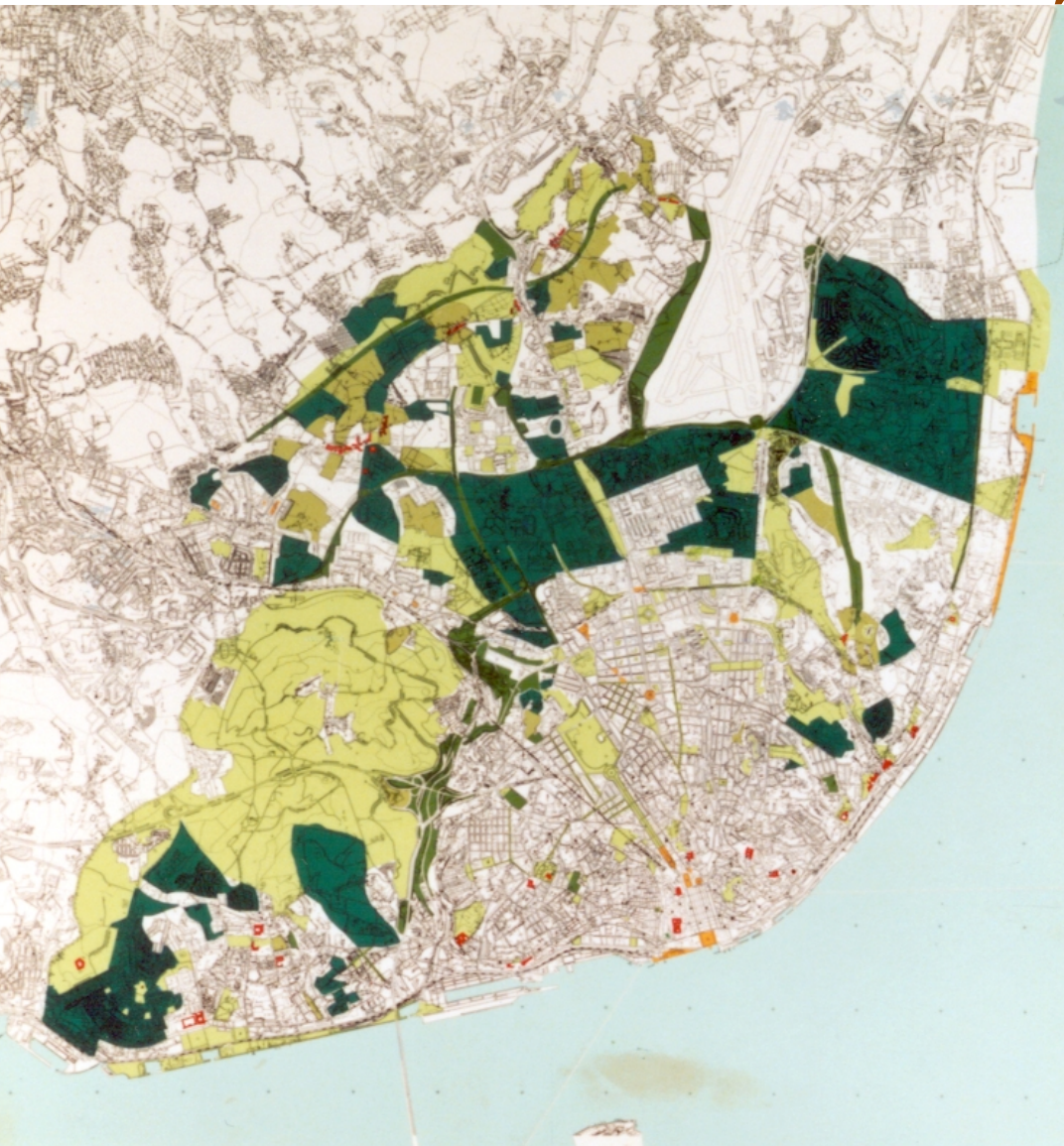
P. Eduardo VII – Corredor de Monsanto – 1999

Coordenação Prof. Gonçalo R.Telles







PLANO DIRECTOR MUNICIPAL Plano Verde de Lisboa - CEAP, ISA,

Coordenação -
Prof. Gonçalo R. Telles



Estrutura Ecológica de
Lisboa



-  ANEL PERIFÉRICO
-  ANEL INTERMÉDIO COM EQUIPAMENTOS COLECTIVOS INTERCALADOS
-  RADIAIS - SISTEMAS DE VALES
-  ESTRUTURA PONTUAL (DESCONTÍNUA) NA ZONA COLINAR



Planeamento de Base Ecológica – um novo paradigma

O paradigma do conhecimento

A CIDADE REGIÃO



Lisboa 

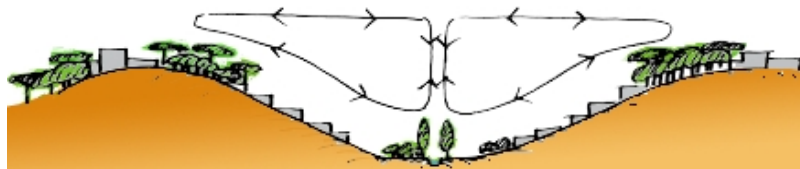
Image Landsat
Data SIO, NOAA, U.S. Navy, NGA, GEBCO

Google earth

PLANEAMENTO DE BASE ECOLÓGICA



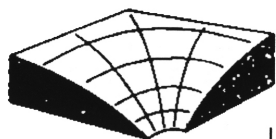
Pressupostos - Morfologia do Terreno



Carta de Morfologia do Terreno do Concelho de Lisboa

Encostas colectoras de água

Encostas de rastejamento



Perfil de encosta convexo

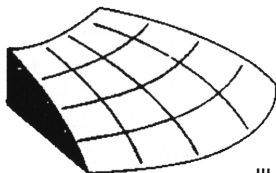
linhas de nível côncavas

Encostas de lavagem



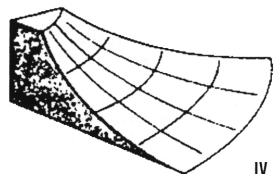
Perfil de encosta côncavo

Encostas distribuidoras de água

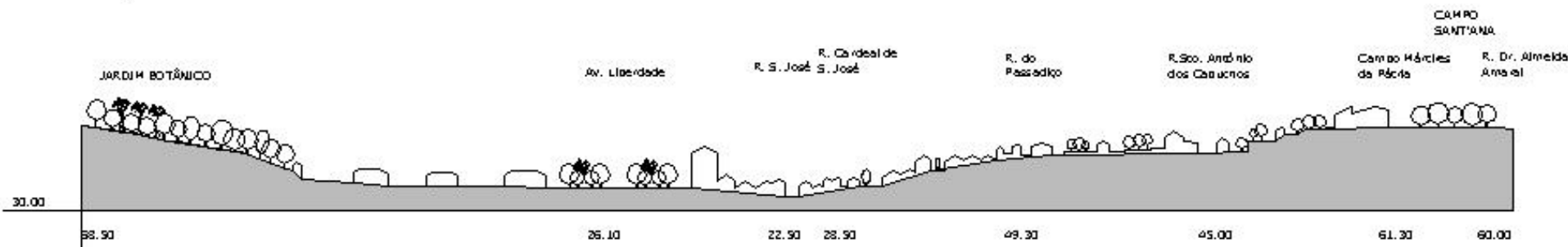


III

linhas de nível convexas

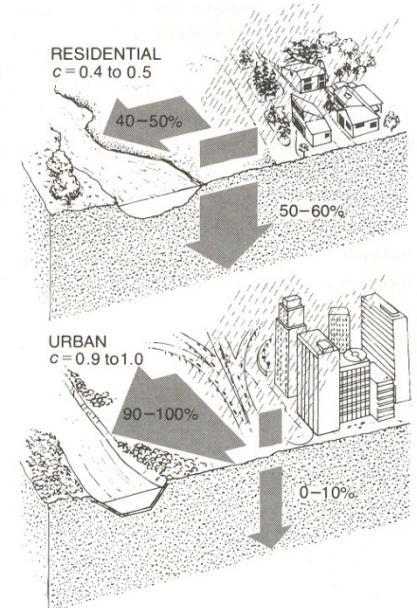
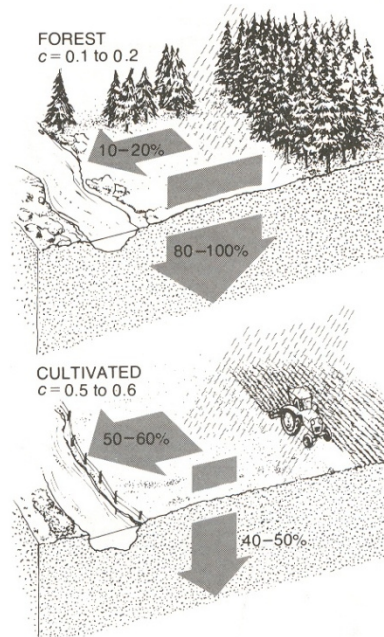
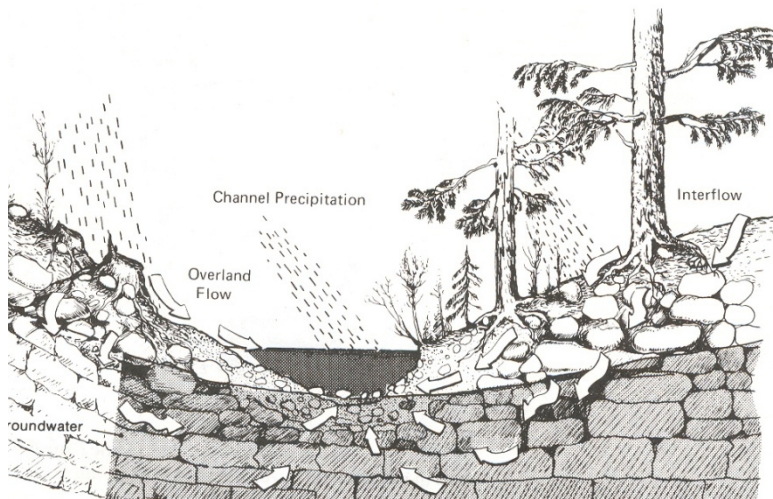
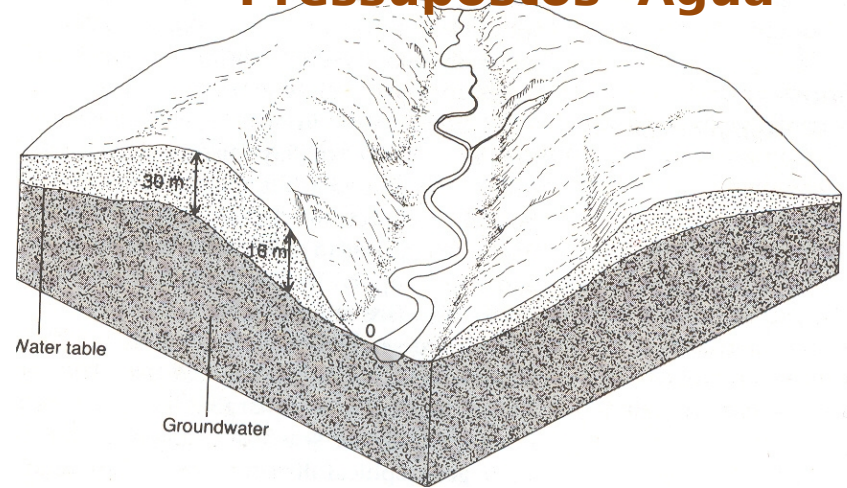
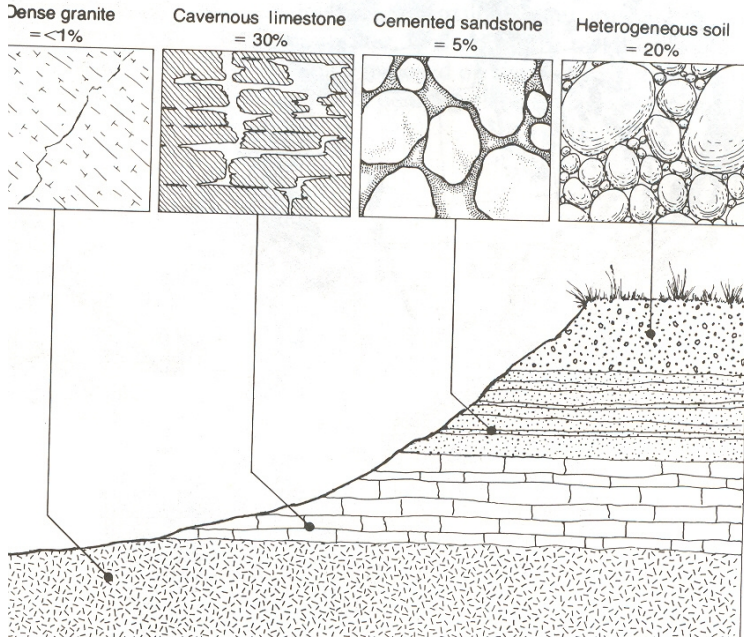


IV

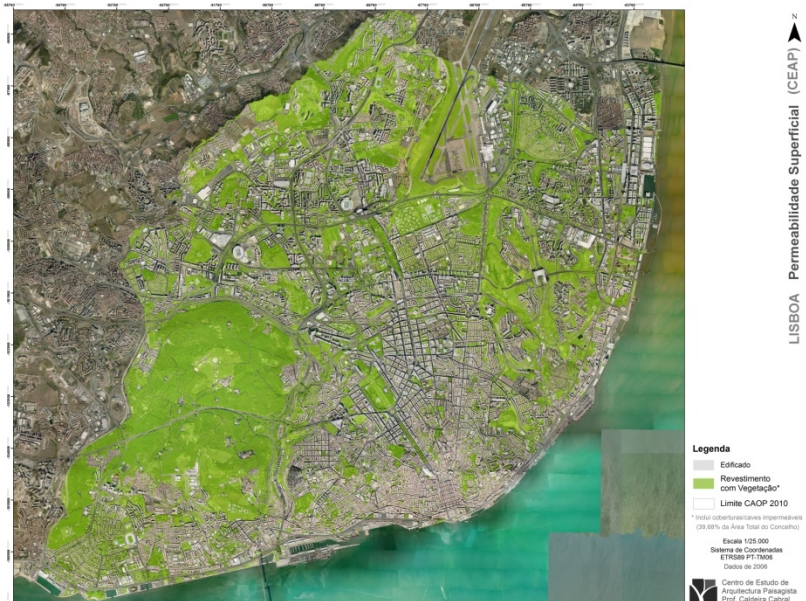
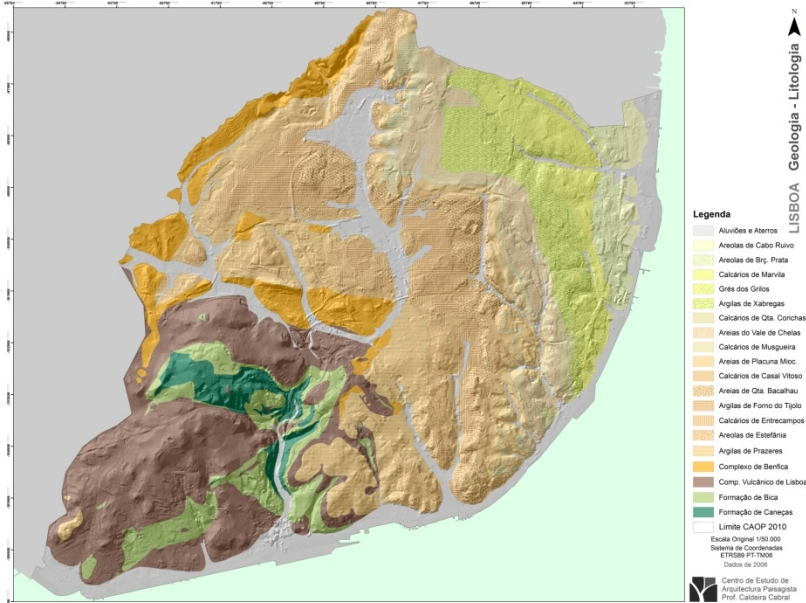


PLANEAMENTO DE BASE ECOLÓGICA

Pressupostos - Água



PLANEAMENTO DE BASE ECOLÓGICA








PLANEAMENTO DE BASE ECOLÓGICA



LISBOA Sistema Húmido (CEAP)  ua

Legenda

-  Linhas de Água
-  Sistema Húmido
-  Edificado
-  Edificado em Sit. Húm.
-  Limite CAOP 2010

Escala 1/25.000
Sistema de Coordenadas
ETRS89 PT-TM06
Dados de 2006



Centro de Estudo de
Arquitectura Paisagista
Prof. Caldeira Cabral

RISCOS ASSOCIADOS ÀS ZONAS ADJACENTES



LUSA/ANTONIO COTRIM

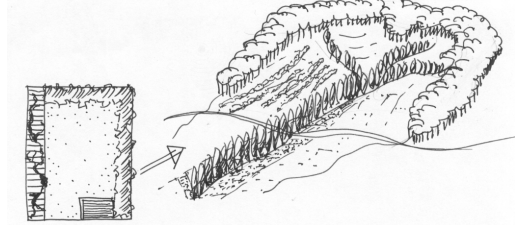
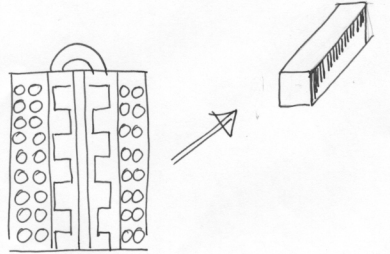
Ribeira de Alcântara

PLANEAMENTO DE BASE ECOLÓGICA



Paradigma Ecológico
Pressupostos Ecológico

Paradigma Neo-clássico

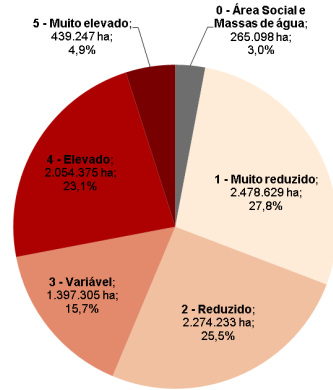


PLANEAMENTO DE BASE ECOLÓGICA



Pressupostos - Solo

Valor Ecológico do Solo



Solos a integrar a EEN

2.493.622 hectares

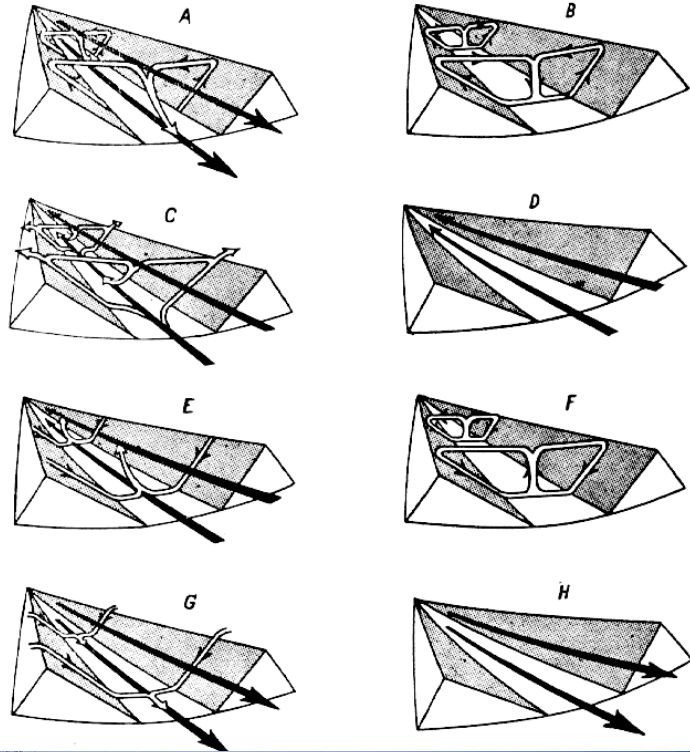
28% da área do País



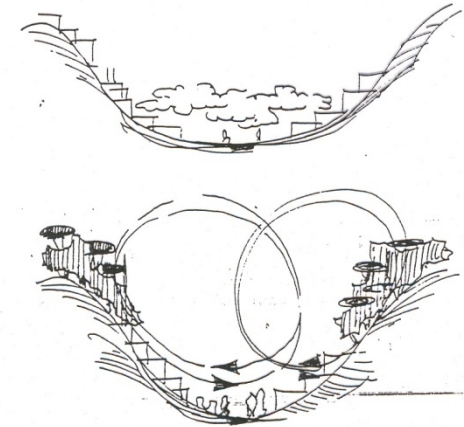
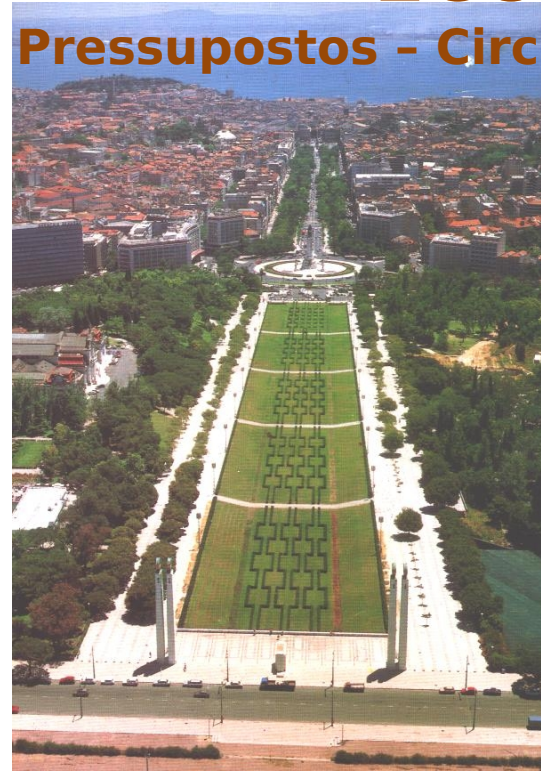
PLANEAMENTO DE BASE ECOLÓGICA

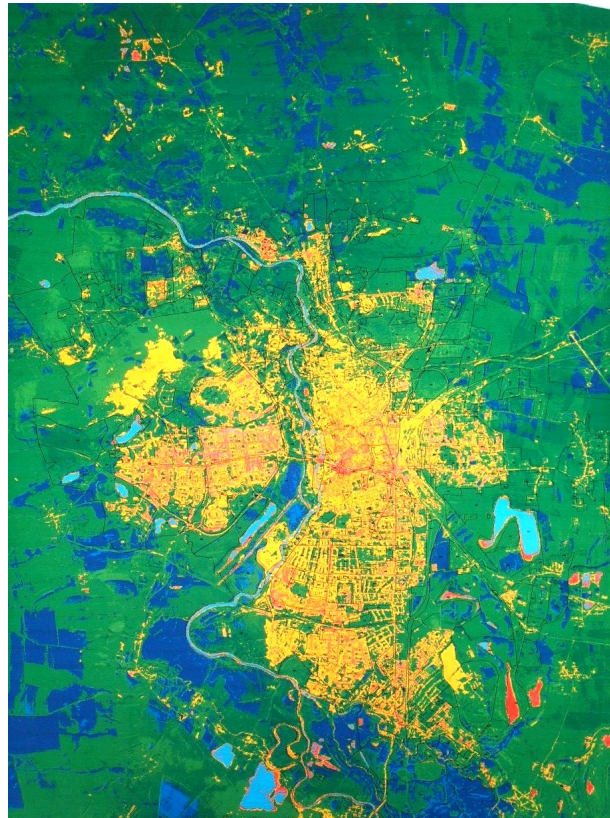


Geiger, 1980

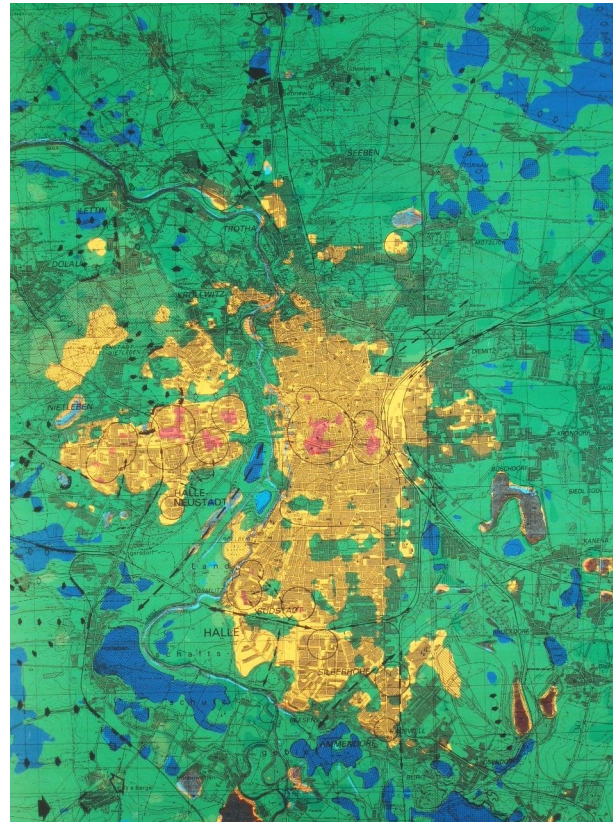


Pressupostos - Circulação do Ar

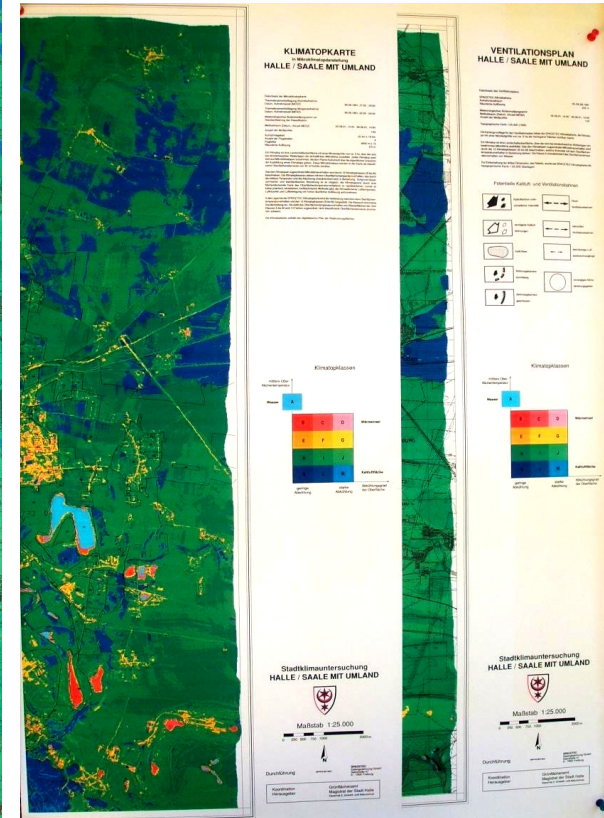




Carta de Topoclima
Alemanha

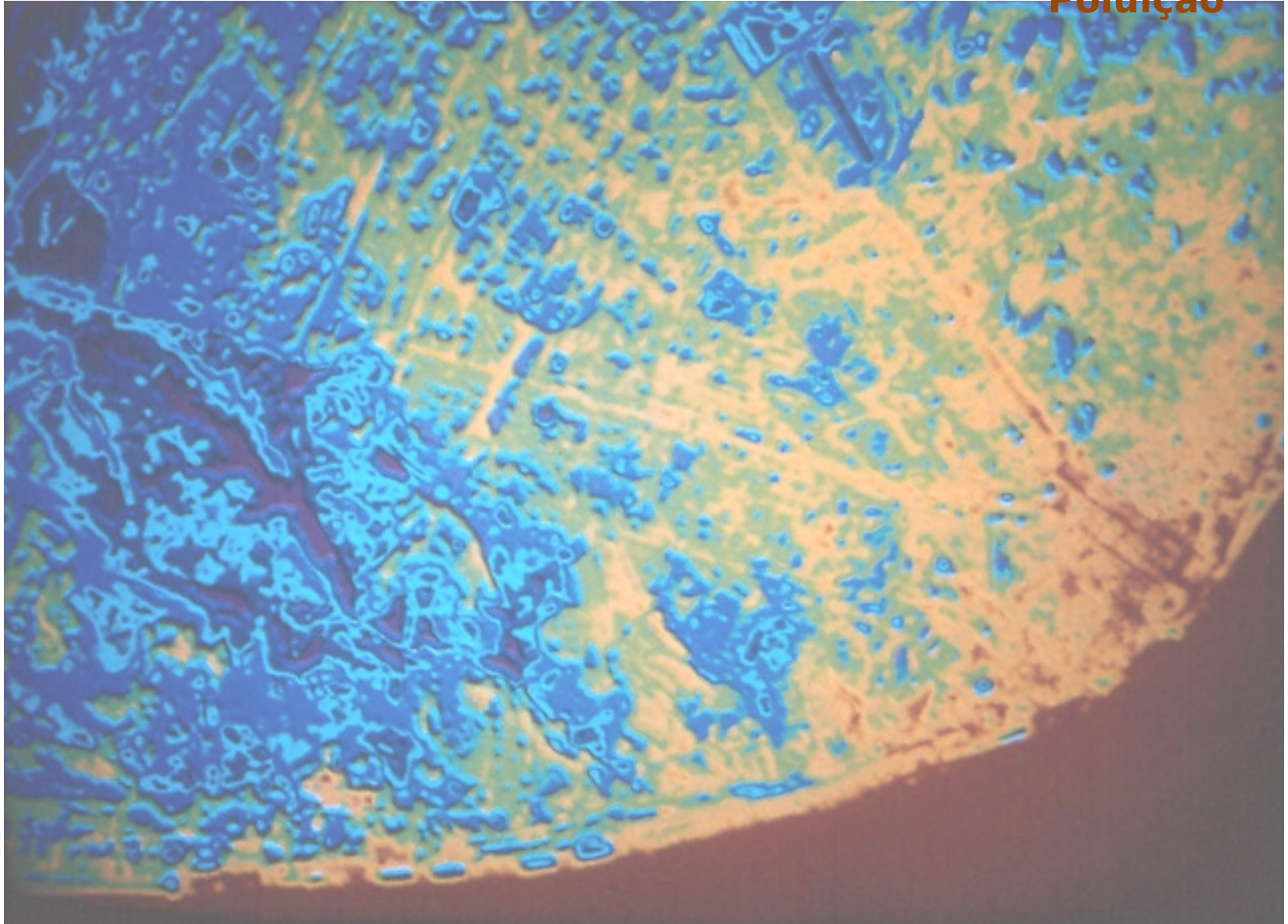


Plano de Ventilação



PLANEAMENTO DE BASE ECOLÓGICA

Pressupostos - Ilha de Calor Urbana, Conforto Bioclimático e
Poluição



Fotografia térmica de Lisboa

PLANEAMENTO DE BASE ECOLÓGICA



Pressupostos - Conforto Bioclimático

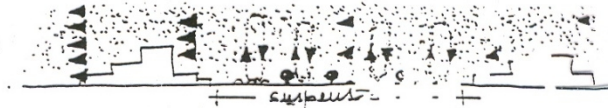
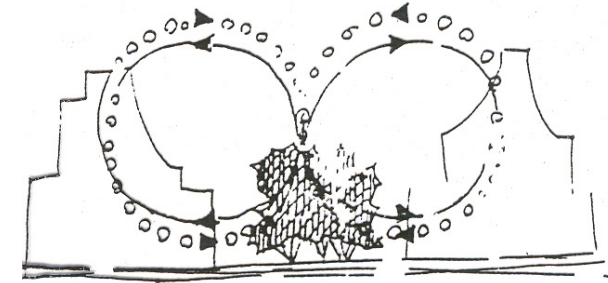
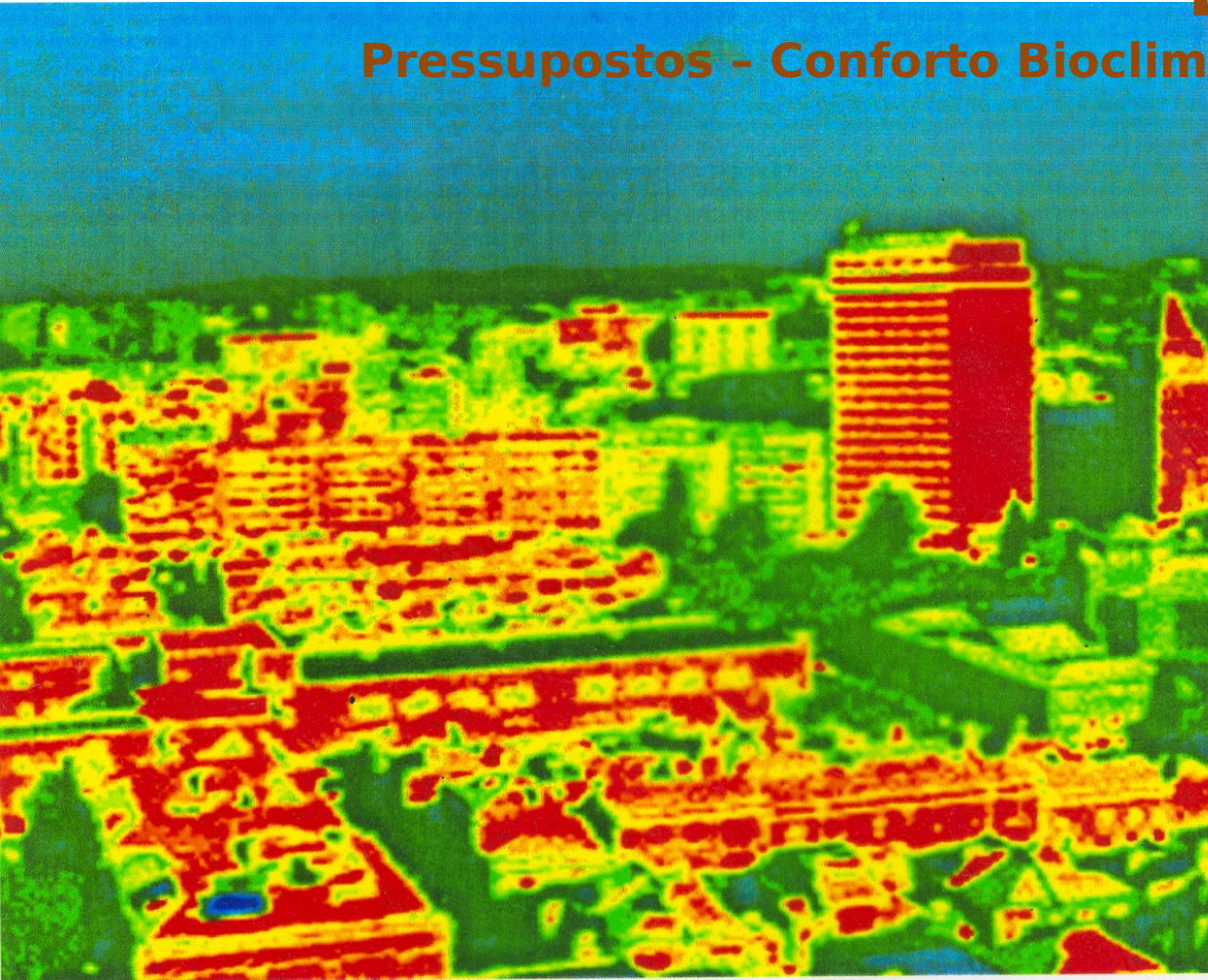
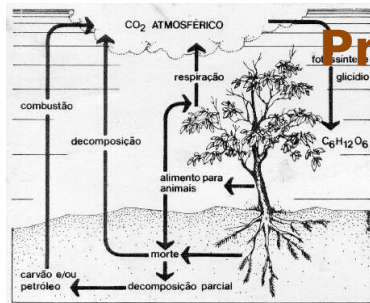


Imagem de fluxo radiativo colhida sobre o Bairro de Alvalade, sobressaindo o edifício de 20 andares do Ministério do Emprego e Qualificação Profissional.

Imagem colhida pelo Eng^o Miguel Águas (IST)

PLANEAMENTO DE BASE ECOLÓGICA



Ciclo do carbono

Pressupostos -





Legenda

-  Linhas de Água
-  Sist. Estruturante
-  Sistema Húmido
-  Sist. Húmido / Áreas Máx. Infiltração
-  Áreas Máx. Infiltração
-  Áreas Máx. Infiltração / Áreas Declivosas (>25%)
-  Áreas Declivosas (>25%)
-  Áreas c/ Risco Mov. Vertentes
-  Áreas Rev. Vegetação
-  Áreas c/ Efeito Maré Directo (5m) (CML)
-  Limite CAOP 2010

70,92% da Área Total do Concelho
 Escala 1/25.000
 Sistema de Coordenadas
 ETRS89 PT-TM06
 Dados de 2006



Legenda

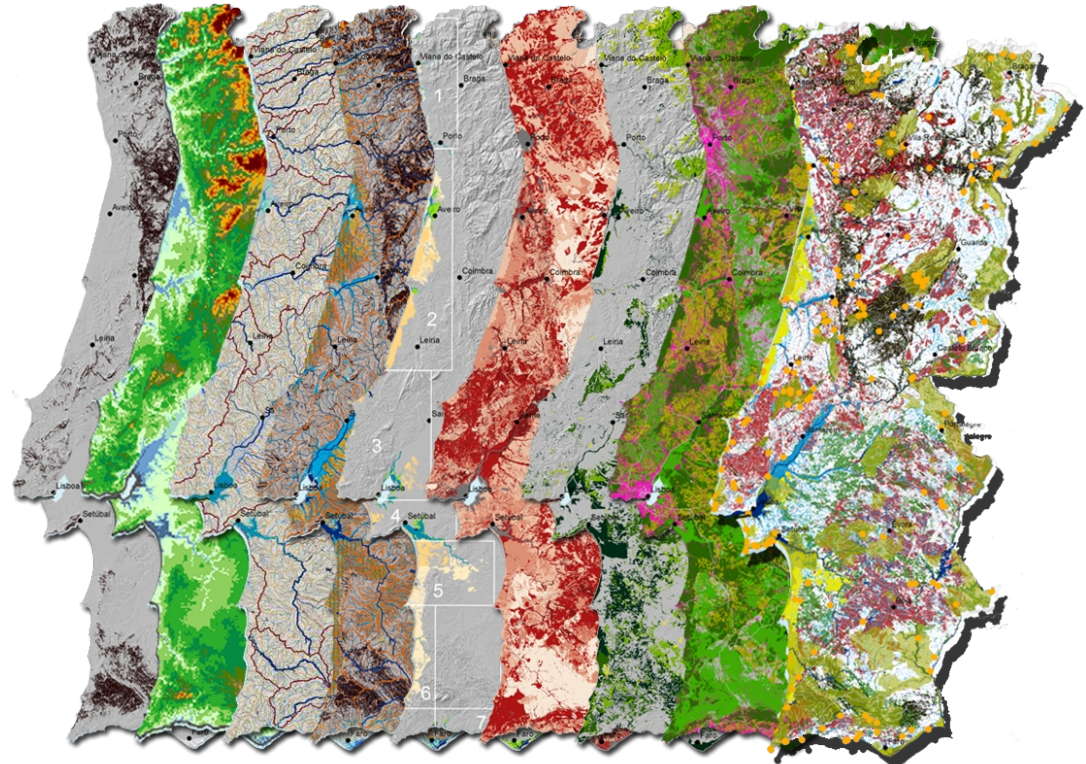
-  Edificado
-  Revestimento Verde
-  Cobertura Verde
-  Logradouro (s/ Rev. Verde)
-  Terreno Vago (s/ Rev. Verde)
-  Cemitério
-  Superfície de Água
-  Rua/Via
-  Limite CAOP 2010

Escala 1/25.000
 Sistema de Coordenadas
 ETRS89 PT-TM06
 Dados de 2006



R&D Projects

Other Inputs



INSPIRE
-
ELC

Landscape Plans

Landscape Policies

Public Awareness

Data Exchange

Knowledge Exchange