

Restauro de ecossistemas naturais e produtivos com vista à transição climática e energética



CHANGE

Instituto para as Alterações Globais e Sustentabilidade

Laboratório Associado TERRA



TERRA

Laboratório para a sustentabilidade do uso da terra e dos serviços de ecossistemas

CHANGE

Global Change &
Sustainability Institute





CHANGE

Global Change and Sustainability Institute

MISSION

Deliver realistic policy solutions that contribute to environmentally-friendly, resource-efficient and competitive economies under current and future global changes.

VISION

Become the go-to R&I hub for developing, evaluating and operationalizing innovative and improved public policies with impacts on Global Change and Sustainability.



Climate Change
Agro-forestry-systems
Food safety & security
Governance & Territorial Cohesion



SOCIETY
Needs & aspirations
Tensions & conflicts
Public & private stakeholders



Ecosystem services
Eco-Evolutionary responses
Long-term Ecol. Research
Impact assessment
Health & Wellbeing



Ecological-Economics
Carbon Neutrality
Circular Economy
Resource management
Policy instruments



CHANGE: Thematic Lines



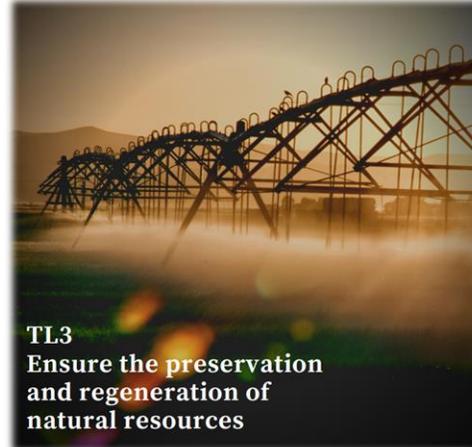
TL1
Safeguarding and promoting biodiversity and ecosystem services

- Climate adaptation and mitigation strategies
- Ecological restoration
- Protecting key ecosystem services
- Nature-based solutions
- Financial and economic instruments for conservation of key ecosystem services



TL2
Ensure sustainable food and biomass systems

- Promote resilient food and biomass systems
- Promote food safety and quality
- Ensuring sustainability of High-nature-value farmlands (e.g., Montado)
- Promote digital transformation in agriculture and rural areas
- Establishment of Living Labs



TL3
Ensure the preservation and regeneration of natural resources

- Soil regeneration and mitigation of soil degradation
- Arid Lands Restoration
- Water-use efficiency and management
- Diversification of water sourcing and recovery systems
- Monitoring and reduction of air pollution



TL4
Promote a circular and carbon-neutral economy

- Long-term strategy for carbon neutrality
- Enhancing uptake of circular economy thinking
- Energy consumption management plans
- Water and carbon footprints of food production



TL5
Strengthen territorial cohesion to reduce disparities

- Governance mechanisms
- Breaking path dependency to allow for innovation
- Territorial strategies for water use
- Environmentally aware and sustainable tourism
- Cross-border cooperation in fire-fighting





CHANGE: POLICY SUPPORT

CHANGE researchers seated in key advisory and scientific boards that support policy from local to global scales

National



42
National councils & commissions

International



15
International councils & commissions



CHANGE: POLICY SOLUTIONS



1. Tax Instruments

gReen taxation RefoRm
taxing moRe what we buRn and less what we eaRn

- Carbon TAX
- Waste - TGR
- Water - TRH

3. National strategies

- Nature Conservation and Biodiversity 2030
- National Water Plan (revision 2015)

- Long Term Strategy for Climate Neutrality 2020-50
- Biodiversity 2030: Portuguese approach to the period post-Aichi goals

2. Economic Instruments

- Payments for ecosystem services
- Soil conservation in agro-environmental schemes
- Environment, Water and Waste management
- Ecological fiscal transfers - General Municipal Fund

4. Coordination FCT R&I Agendas

- Agriculture, Forests and Biodiversity
- Climate Change
- Circular Economy

5. Competence Centres

- Cork oak and Montado
- Pinus
- Organic farming
- Desertification & Climate Change
- Endogenous resources
- Mediterranean Diet