



**Channel Payments for Ecosystem Services** 

European Regional Development Fund

## Devon & Cornwall Soils Alliance March 2020

# Westcountry Rivers Trust Soil, Carbon & Nature































**Channel Payments for Ecosystem Services** 

European Regional Development Fund

4 years /ans

€ 4 million

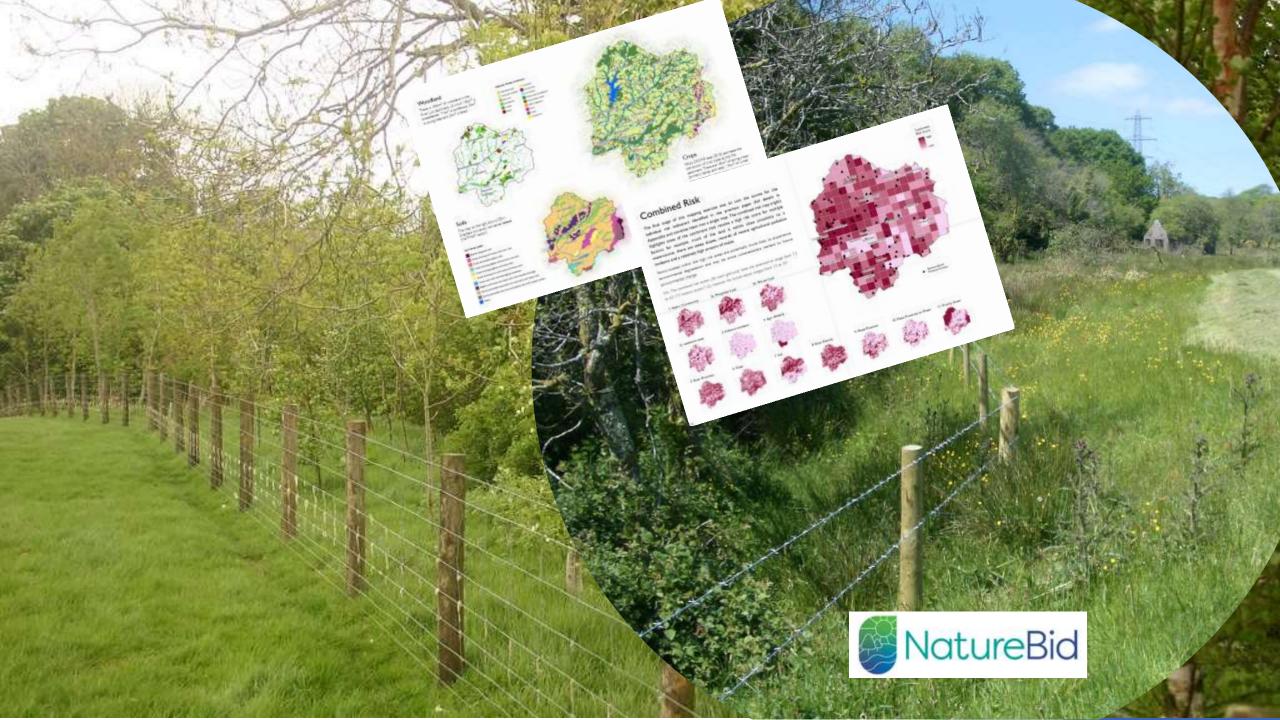
6 sites





European Regional Development Fund





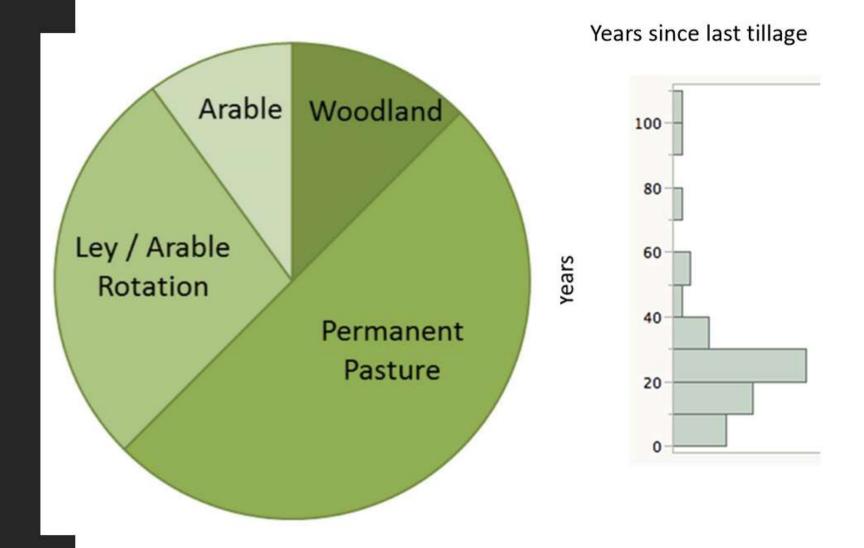


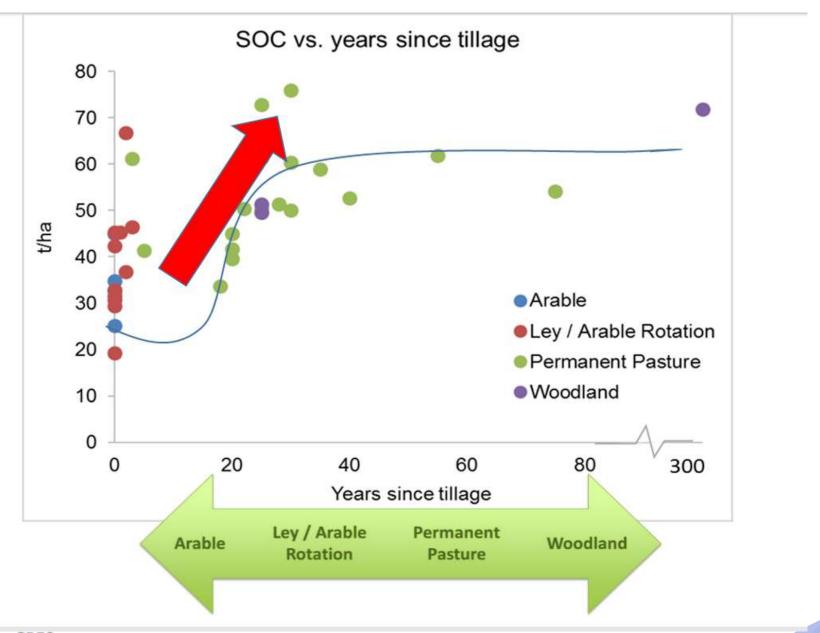


Mean SOC stocks (t/ha) for each management type (Tamar catchment). Error bars are standard error of the mean of 3 replicates in each field.

#### Land Use

- 15 farms
- 50 fields sampled
  - ➤ 4 Arable
  - ➤ 11 Ley / Arable rotation
  - > 20 Permanent Pasture
  - ➤ 5 Woodland sites
- average length of time in management was greater than 25 years







#### Tamar Water Stewardship Business Board











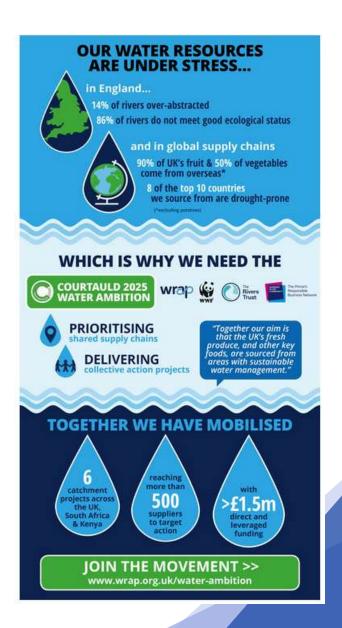


















First set of measures supporting Allianz's SBTi commitment

SEPTEMBER 2018





MEETING THE AMBITION: HOW SHELL COULD CHANGE

Services

Cyperstrianul afficiency grounds

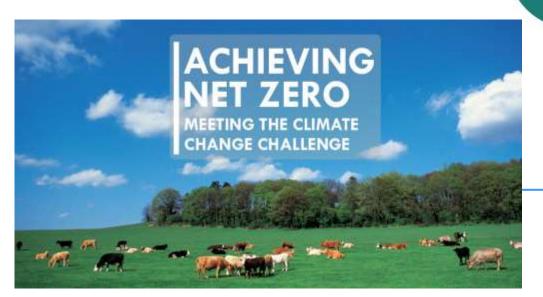
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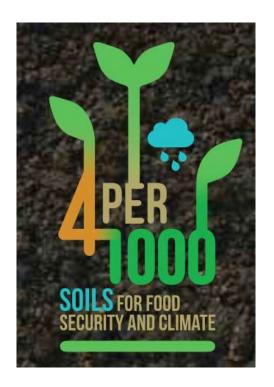
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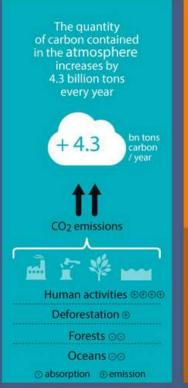








### 4 PER 1000 CARBON SEQUESTRATION IN SOILS FOR FOOD SECURITY AND THE CLIMATE



The world's soils 1 500 billion tons of carbon in the form of organic material absorption of CO2 by plants storage of organic carbon in soils 500 bn tons

While pursuing the indespensible effort to decrease drastically the green house gases (GHG) emissions due to GHG mitigation efforts. A theoretical annual increase of the world soil organic carbon stock by 0.4% of its value would be larger than the 2015 annual increase in CO2 in the atmosphere, which is a major contributor to the greenhouse effect and climate change: this is the origin of the "4 per 1000" title of this initiative.

increased absorption of CO, by plants:



farmlands, meadows, forests...



+4%0 carbon storage in the world's soils

#### HOW CAN SOILS STORE MORE CARBON?





Never leave

soil bare

and work it less,

for example by

sing no-till methods



Introduce more intermediate crops, more row intercropping and more grass strips



Add to the hedges at field boundaries and develop agroforestry



Optimize pasture management - with longer grazing periods, for example

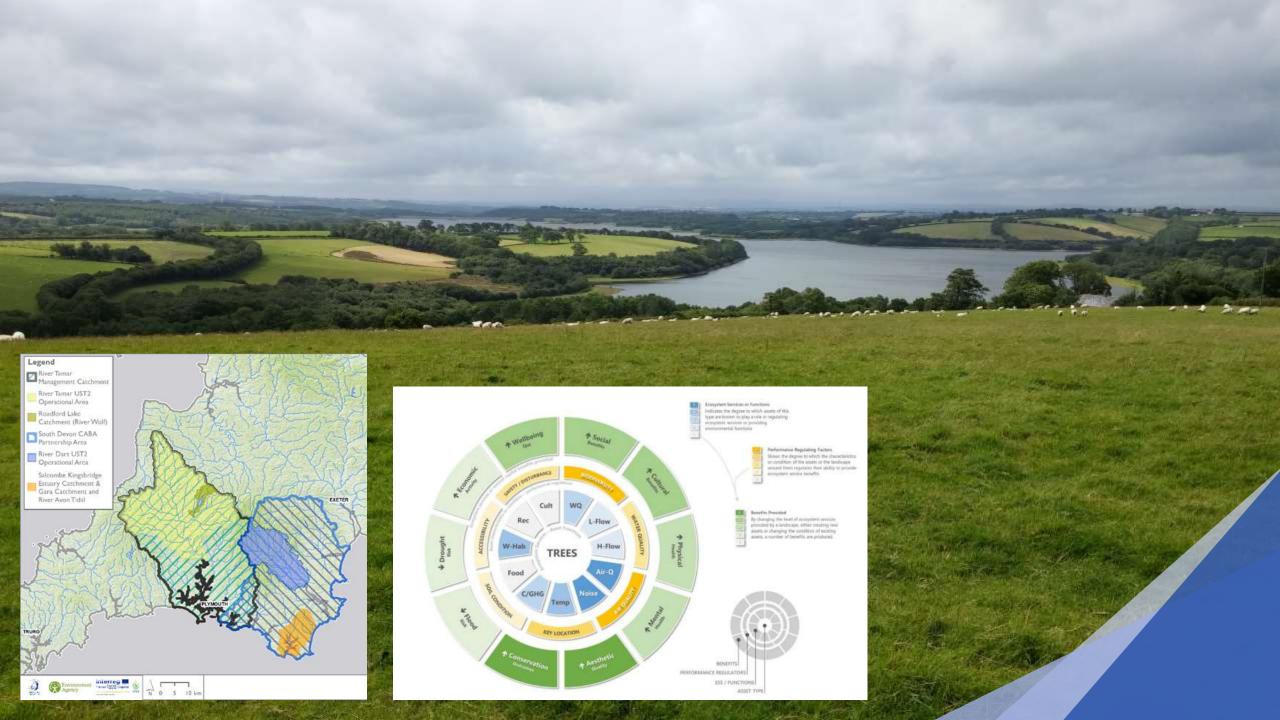


Restore land in poor condition e.g. the world's arid and semi-arid regions



water and fertilizers management and use organic fertilizers and compost

https://www.4p1000.org/







http://www.fao.org/soils-2015/about/en/





