# Agroforestry and the decentralisation of food and energy production

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#### **Agroforestry Positives**

#### SOCIAL

Jobs
Pensions
Health and recreation

**YIELD** 

#### **DIVERSIFICATION**

Fruit, nuts
Timber
Forage
Biofuels

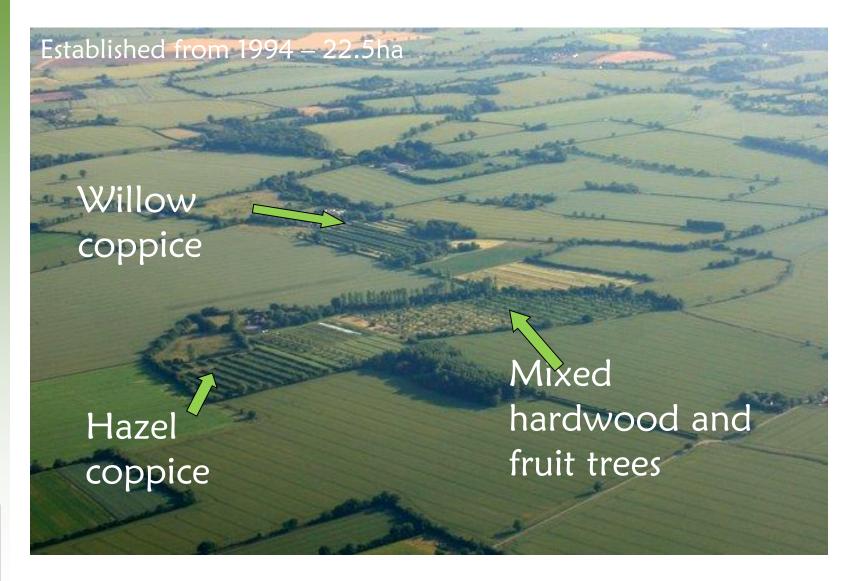
## ENVIRONMENTAL BIOLOGICAL

Carbon sequestration
Soil quality
Shade and shelter
Pollution abatement (ammonia, air, soil, water)
Oxygen, Water, Nutrient cycling

Encouraging beneficials (above and below ground)
Encouraging diversity
(arable and woodland)



#### Wakelyns Agroforestry





#### Wakelyns potatoes July 2013





## The complex ley phase...





#### Winter oats in hazel alley July 2013



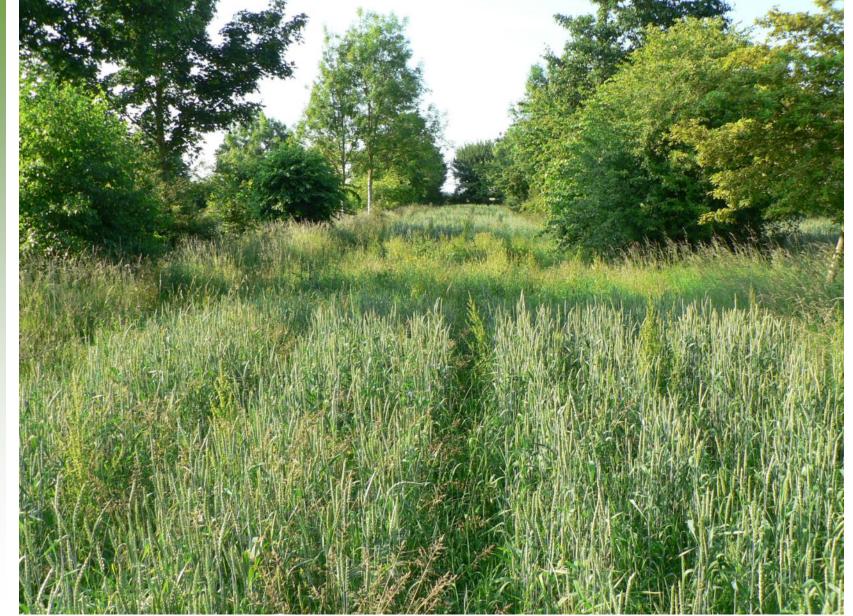


#### Tree alley with lentil/Camelina intercrop





## YQ wheat population plots with plots of modern wheats – all late-sown (Dec. 2016)





#### **Hazel coppice system**







Hazel alley: coppice recovery at five months (note number of stems per stool and genetic variation)



### Sycamore pollard recovery







# Small-leaved lime pollard with brushwood (could have been ramial chipped wood RCW) and log wood





## Italian alder shelter belt now in 5 year pollard rotation





#### To make this work, there is a need for

a) a better appreciation of TOTAL
 productivity from, and environmental
 benefits of, agroforestry systems

b) appropriate **regulatory changes** to allow farmers to take advantage of agroforestry systems – as in EU policy







#### ....and beyond?



