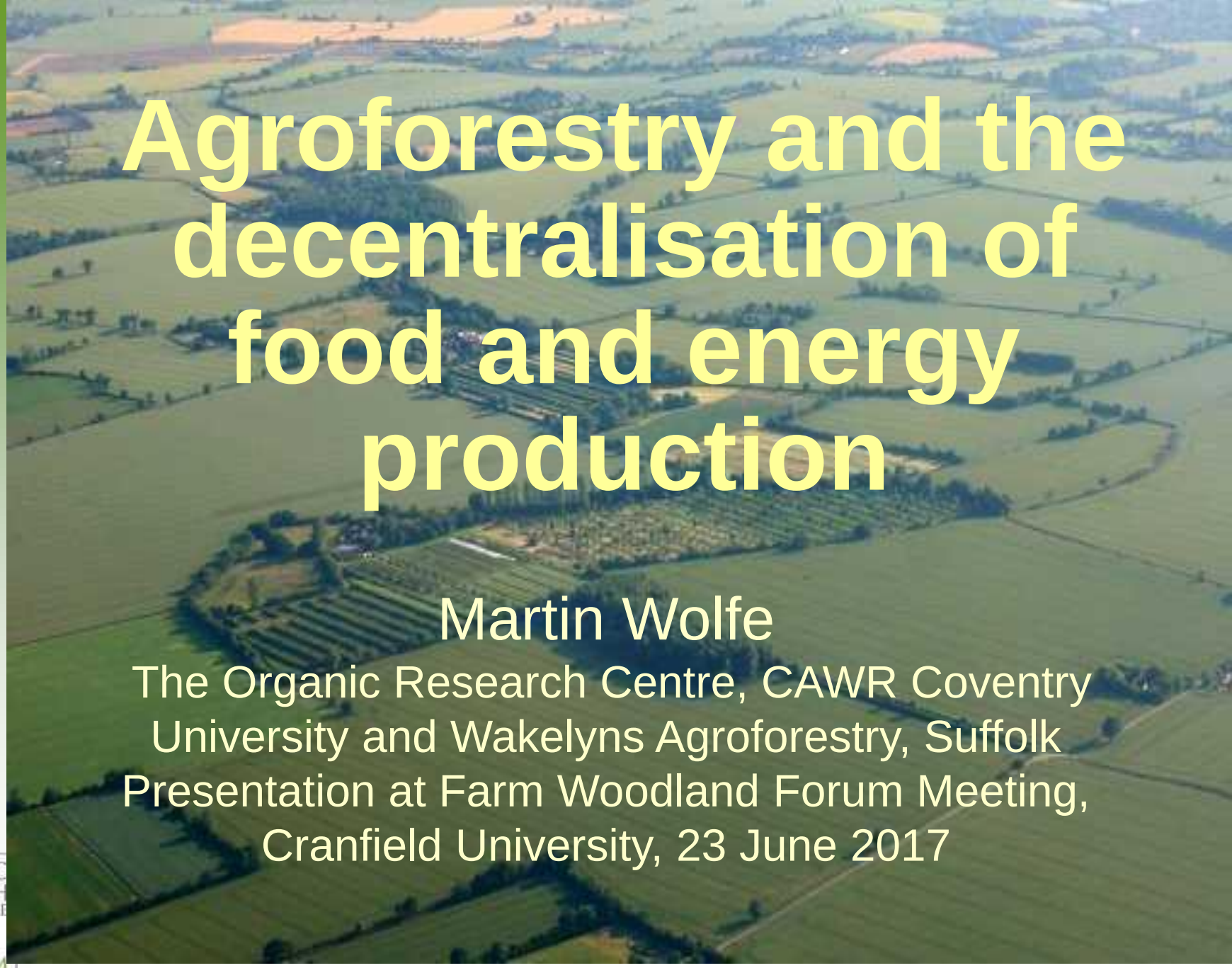

Agroforestry and the decentralisation of food and energy production

Martin Wolfe
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Presentation at Farm Woodland Forum Meeting, Cranfield University, 23 June 2017

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Agroforestry Positives

SOCIAL

Jobs
Pensions
Health and recreation

YIELD

DIVERSIFICATION

Fruit, nuts
Timber
Forage
Biofuels

ENVIRONMENTAL

PHYSICAL

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

BIOLOGICAL

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

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Wakelyns Agroforestry

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Wakelyns potatoes July 2013

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The complex ley phase…

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Winter oats in hazel alley July 2013

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Tree alley with lentil/Camelina intercrop

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

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Hazel coppice system

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

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Sycamore pollard recovery

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

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Italian alder shelter belt now in 5 year pollard rotation

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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

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….and beyond?

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