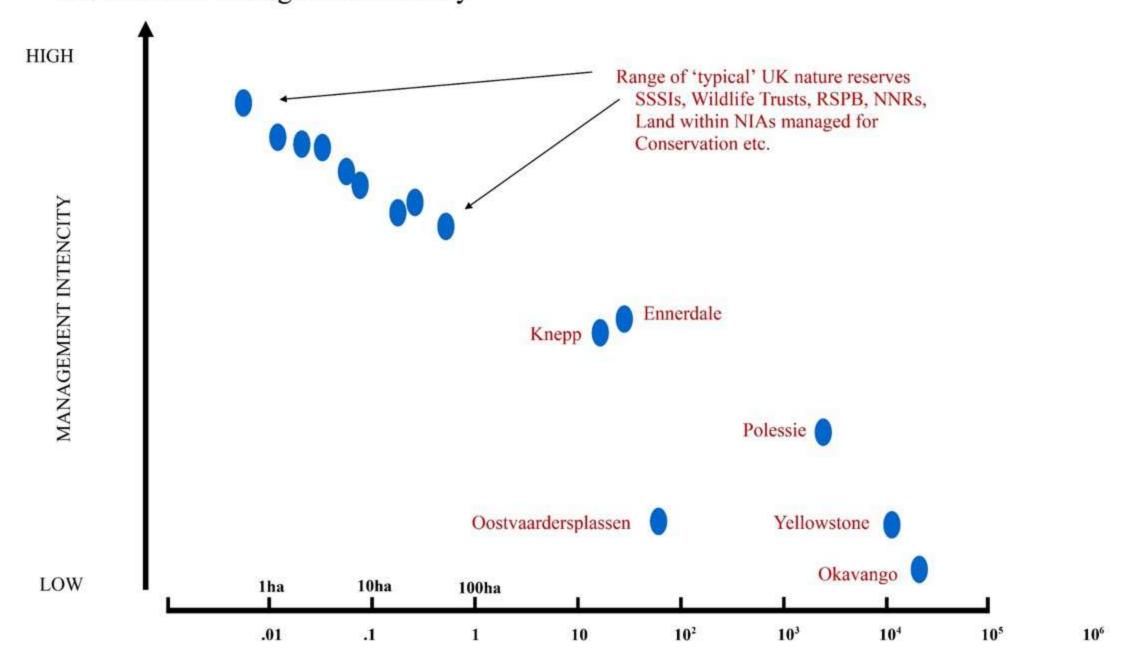




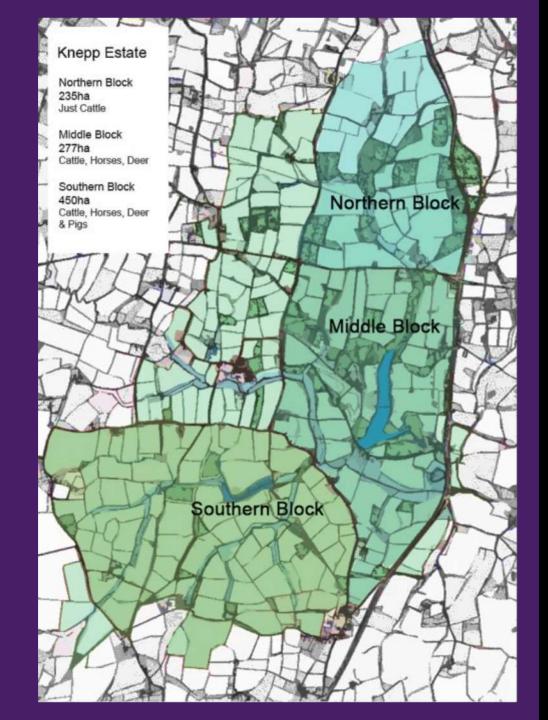
"Cartoon" spectrum of protected areas scaled by size and by qualitative indication of management intensity



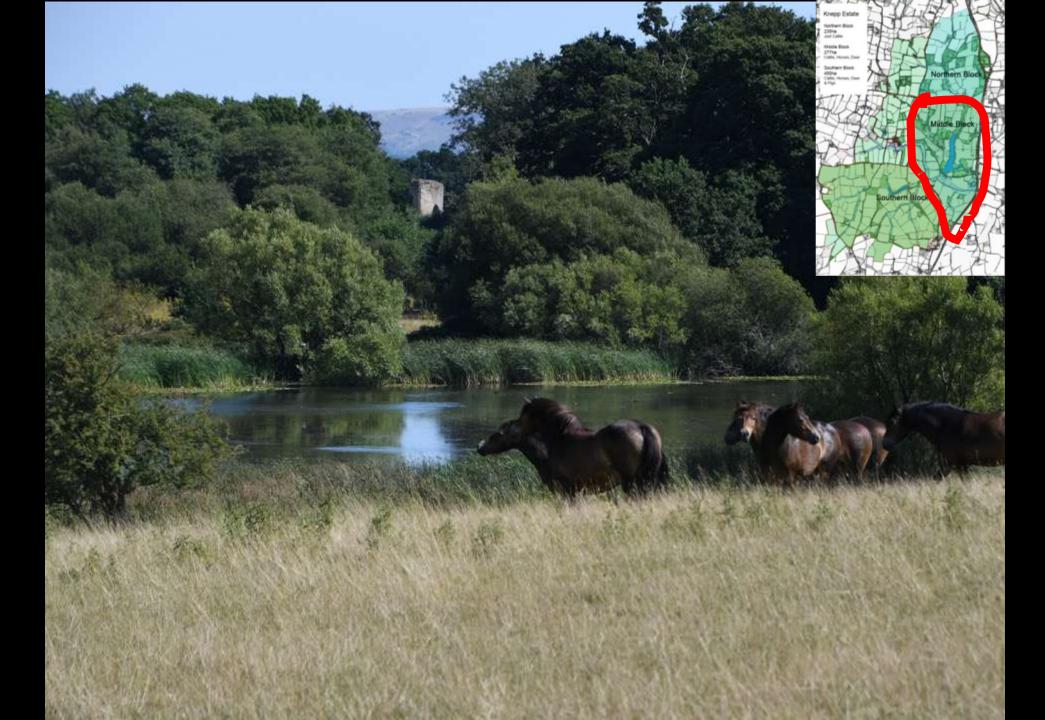


### KNEPP ESTATE 1400 ha









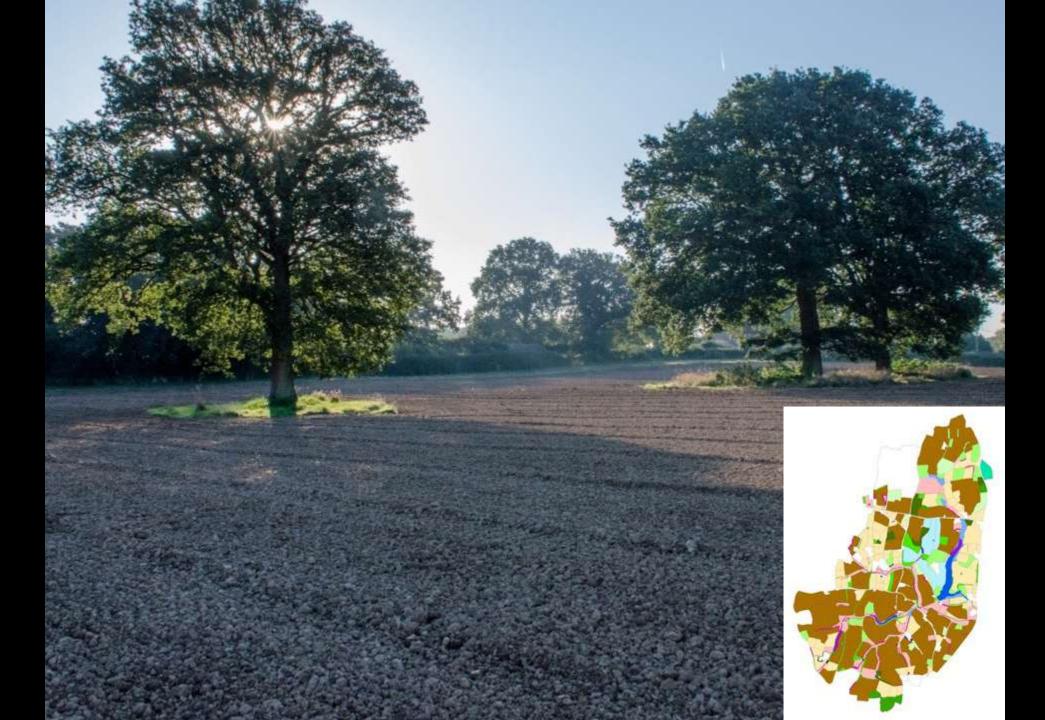


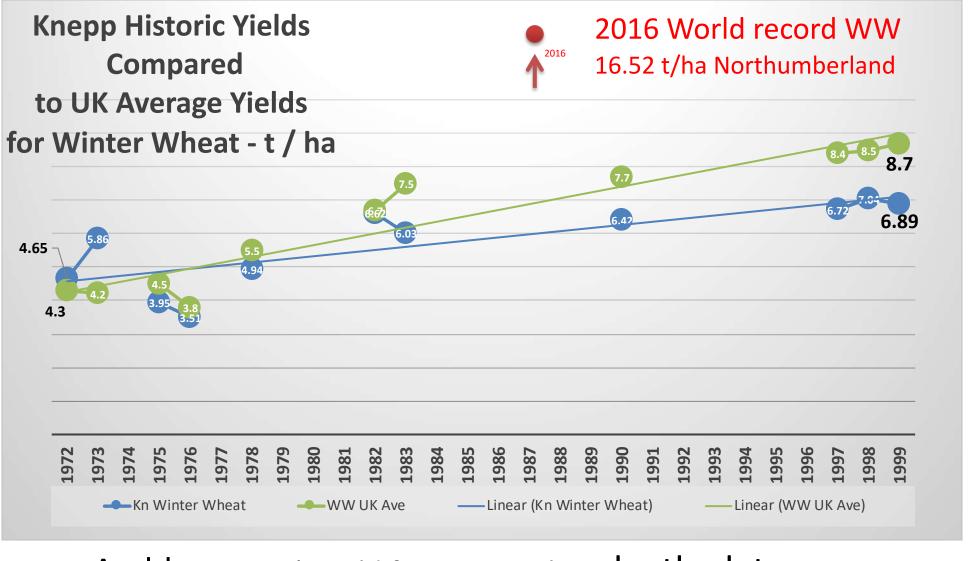




Fine Wheat Cop. Duke of Gloricester reviews Canadian 3rd Div. 1943







Arable: Knepp's yield for winter wheat by the late 1990s

We were 1.8 tonnes/hectare

Light of the UK average

### Dairy at the end of the 1990s

- Milk quota looked likely to be abandoned
- Dairy industry looked like it was heading for some pretty big rocks
- Knepp dairies needed further huge investment to keep us competitive
- We were good at producing milk at a low cost but....





## Rewilding

### Advisory Board



# What Proxies



Root vole – c. 1500 B.C.

Saiga antelope – c. 10,000 B.C.

Steppe lemming – c. 8000 B.C.

†Tarpan – c. 7000 B.C.

Walrus – c. 1000 B.C. (occasional visitor)

Wild boar – c. 1400 (reintroduced)

Wisent – c. 3000 B.C.

Wolverine – c. 6000 B.C.

†Woolly mammoth – c. 10,000 B.C.

†Woolly rhinoceros – c. 10,000 B.C.

†Cave lion − c. 10,000 B.C.

†Scimitar-toothed cat - c. 30,000 B.C.

†Cave hyena - c. 11,000 B.C.

†European jaguar - c. (unknown)

†European Ice Age leopard - c. 24,000 B.C.

†European gazelle - c. (unknown)

Arctic lemming – c. 8000 B.C.

Arctic fox - c. (unknown)

†Eurasian aurochs – c. 1000 B.C.

Barbary macaque - c. 30,000 B.C.

†Cave bear – c. 15,000 B.C.

Eurasian elk - Bronze Age

Eurasian beaver – 1526

Eurasian brown bear – c. A.D. 1000

Eurasian lynx – c. A.D. 400

Grey whale – c. 598 B.C.

Eurasian wolf – A.D. 1680 in Great Britain

†Irish elk – c. 6000 B.C.

Narrow-headed vole – c. 8000 B.C.

Steppe pika – c. 8000 B.C.



### Knepp's DRIVERS













### Animal Highlights







Tony Davis has been Ringing birds for 30 years – in the last month and a half (Aug/Sep 2018), he has ringed more lesser whitethroat *Sylvia curruca* and black cap *Sylvia atricapilla* in two fields on Knepp than he has ringed in his entire career



Does Rewilding restore soil biodiversity and function

Laura Koester genunnt Kurweid (MSc Environmental Engineering thesis) Dr Mark Pawlett (Supervisor) Prof Jim Harns (Supervisor)



- · Some headlines:
- Doubling in soil organic carbon in rewilded areas in comparison to arable control
- · A similar trend for soil microbial biomass
- An increase in the general fungal biomarker in rewilded areas
- Rewilding could become an essential part of how we manage the landscape

www.cranfield.ac.uk







### Rewilding Knepp a **partial budget** on the Home farm

£191 / ha
Environmental
Stewardship
£200k

£205 / ha
Basic Payment
£190k

120,000 sq ft
Office, Workshop
Warehouse
200 full time jobs
£500k

7 houses released from Ag £120k

75 tonnes LW
organic
free range
Pasture fed
£120k

Tourism
Camping and
glamping
1600 campers – 2000 safari

#### Savills: Rural Estate Benchmarking Survey

Agricultural Income - Excluding rents and Tourism 2017/18

In Hand Farm Income	Knepp Estate	England
	£169 per acre	£130 per acre

### Rural Estate Benchmarking Survey

Agricultural Income - Turnover

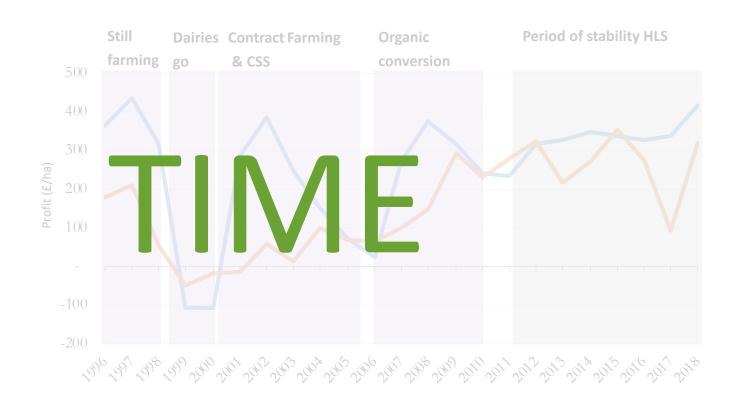


Knepp's agricultural Income has been better
5 years out 8
Compared to the benchmark

### Profit compared to Savills Estate Benchmarks - last 22 years

Knepp v In-hand





Year ending 31 March

#### Time

#### Things that I'm now involved with

Ingleby Farms & Forests Environmental Committee

White Stork Taking Flight: Reconnecting with a wilder Britain

The Bronze Oak Project

**Rewilding Britain** 

Investing in non-estate assets

**FUNDATIA CONSERVATION CARPATHIA** 

Arcadia Board

Wildlife Estates England

**Endangered Landscapes Programme** 

**Knepp Rewilding** 

The River Otter

Beaver Steering committee

Remarkable Trees of Romania

Chernobyl: find out what we know

Beaver Advisory Committee for England

