

What's at steak? Meat production, food security and biodiversity

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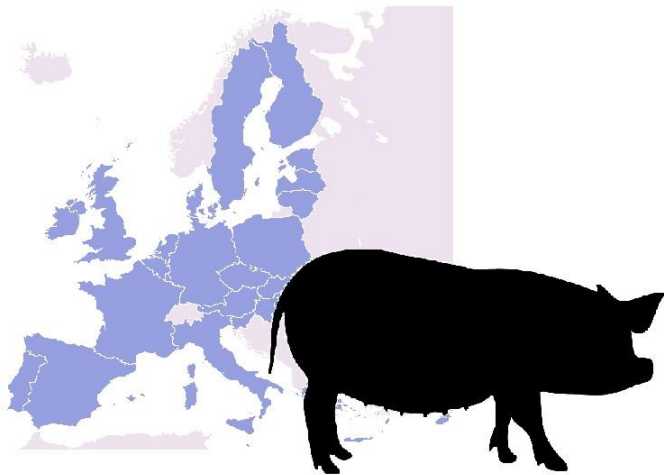
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The plan...

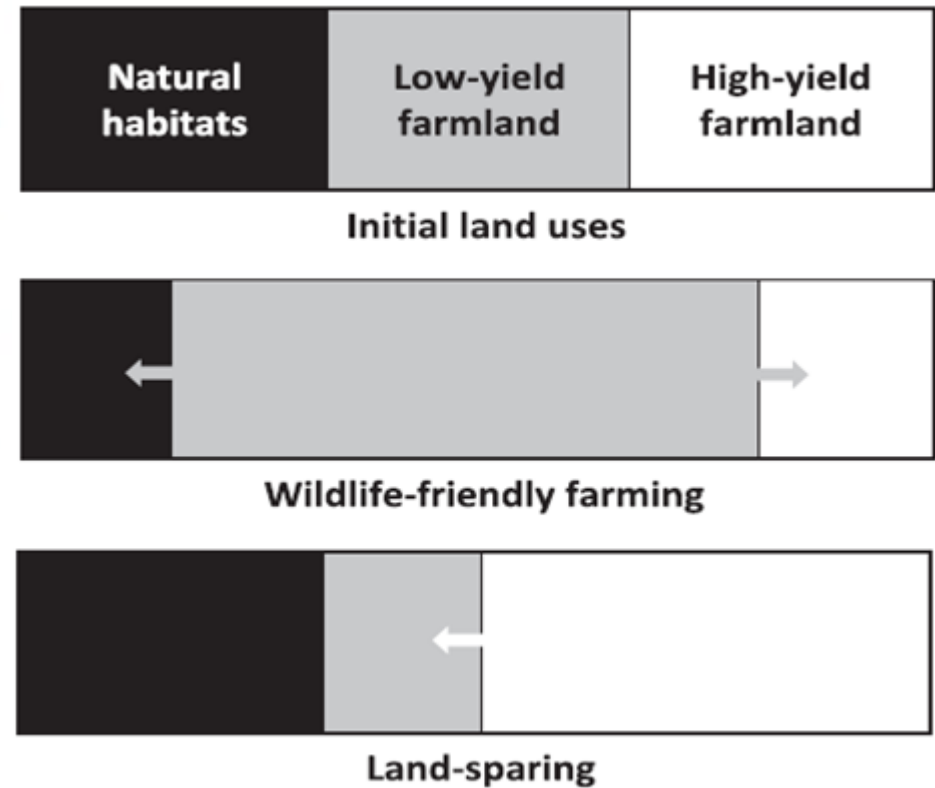
- Food Security in the Conservation Science Group
- Meat as an environmental challenge
- Two case studies and their interdisciplinary opportunities



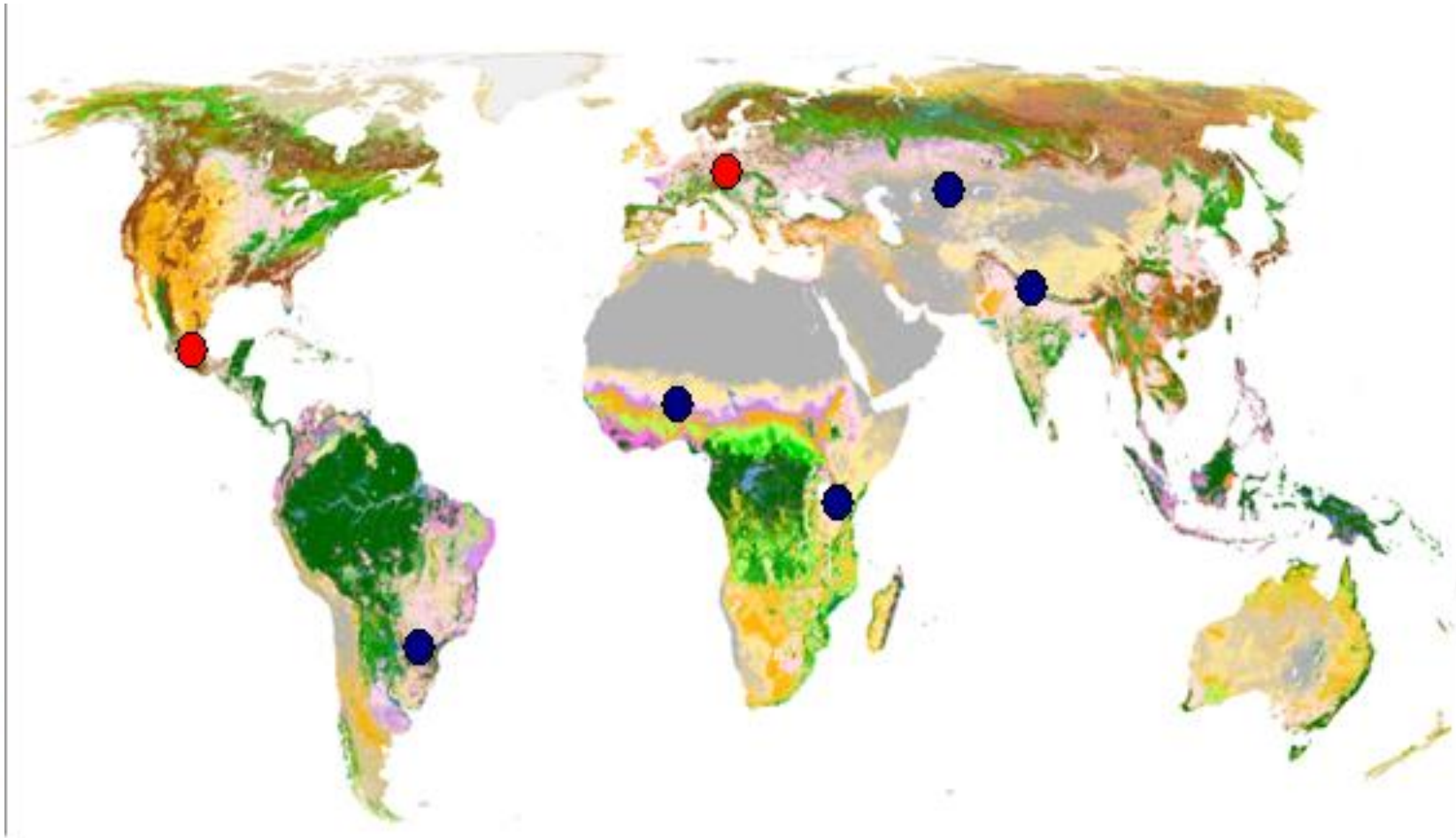
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- Reconciling agriculture and biodiversity
- Land sparing and land sharing agriculture



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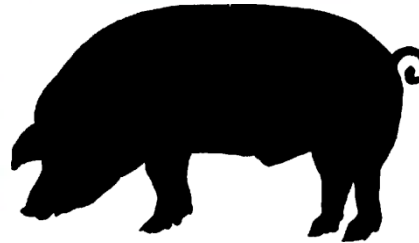
Meat as an environmental problem



19.6 billion



1.43 billion

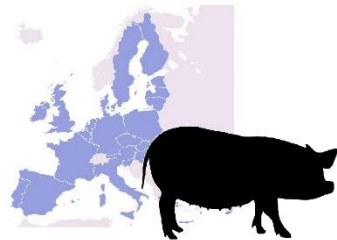


0.98 billion



1.87 billion

- Meat production occupies 75% of agricultural land
- Driver of tropical deforestation



The oldest pig feed there is...

- Food waste feeding:
 - UK: banned in 2001
 - Japan: promoted in 2001
- EU pork production:
 - 20% of the world total
 - 34 kg of pork meat/person/year
 - 10-20% of feed is soybean meal



Multi-disciplinary opportunities

- Economic impacts
- Working with industry to assess the feasibility of these approaches.



Amazonian Livestock intensification



- Farms stocked at only 32-34% of potential carrying capacity
- Only need to increase productivity to 49-52% of potential to meet demand up to 2040

Multi-disciplinary opportunities



- What are the barriers to the higher yields?
- How can we design interventions to maximise the on-farm improvements?
- What are the socio-economic impacts of increasing yields?

References:

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Thanks:

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