



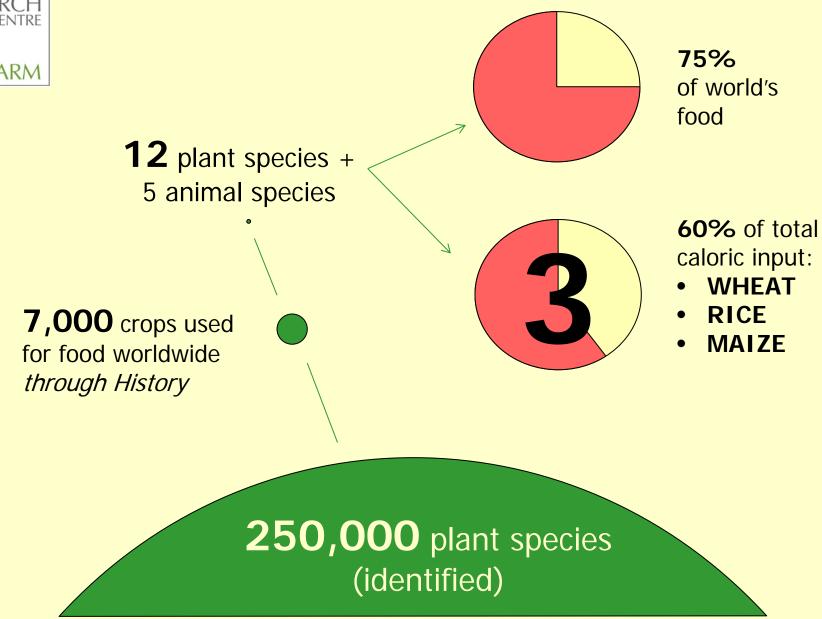
More crops in the farm, more diversity in the field

Ambrogio Costanzo

11th Organic Producers' Conference

Birmingham, 1-2 February 2017





United Nations Food and Agricultural Organisation (1997)



What does it mean?

A too small diversity is deployed in farming and food systems:

Homogeneity – Oversimplification



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A too small diversity is deployed in farming and food systems:

Homogeneity – Oversimplification

- We can use more diversity
- We can make better use of diversity

A wide range of UNDERUTILISED CROPS



Why is it so important to widen the range of species?





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Effective low-input/organic husbandry



27 June 2016 - two neighbouring plots: one is wheat, the other is rivet wheat



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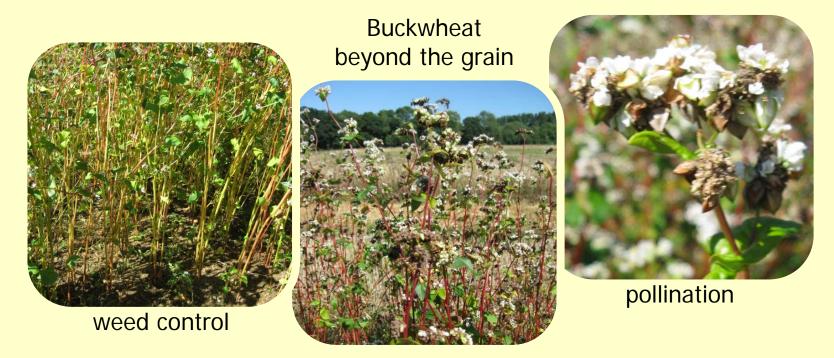
- Effective low-input/organic husbandry
- Support local market and diverse diets

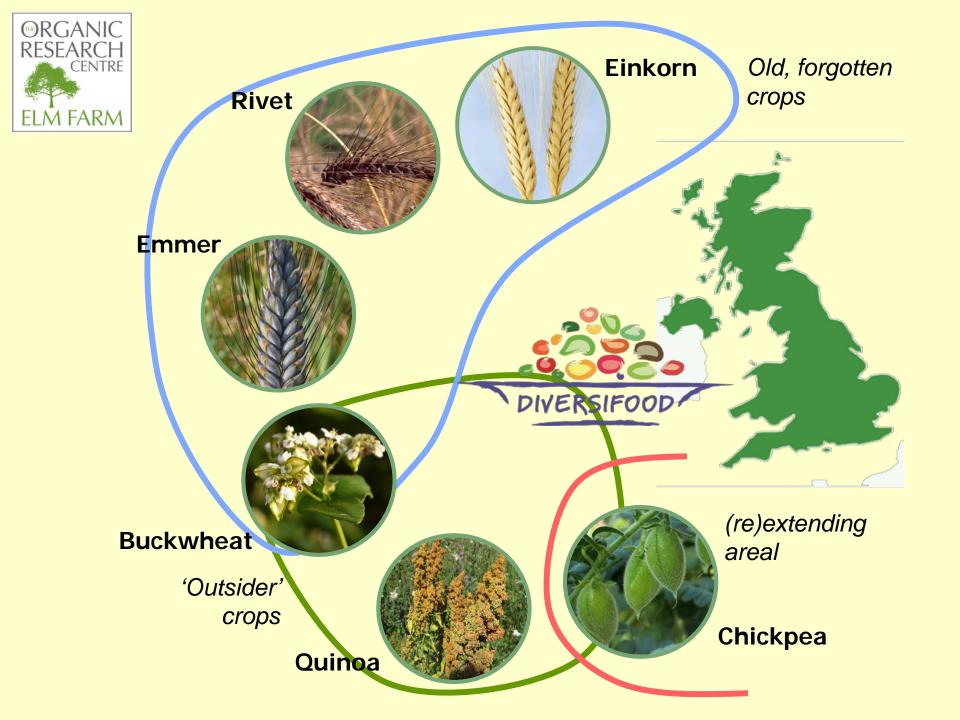




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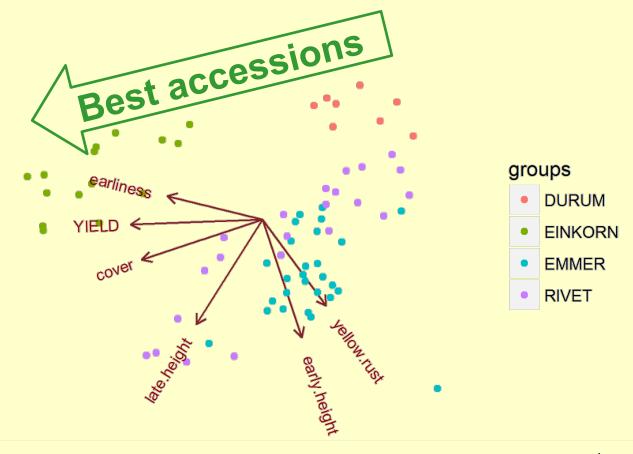
- Effective low-input/organic husbandry
- Supporting local market and diets
- Multiply ecosystem services







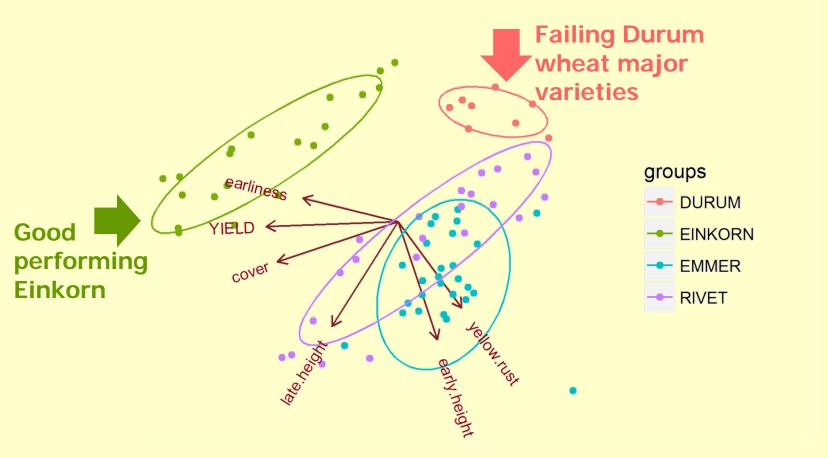
A first look at minor cereals



Data from ORC's 1st year agronomic screening in Doves Farm (Berkshire)



A first look at minor cereals

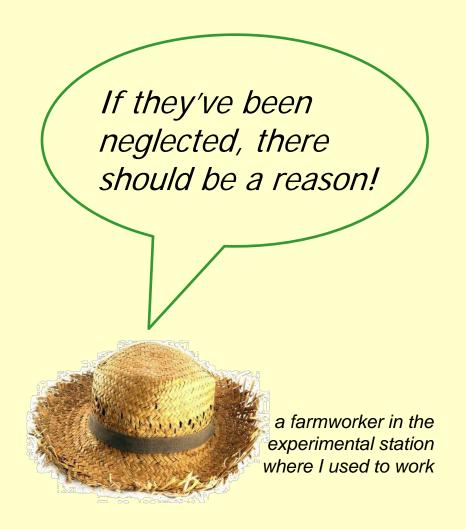




Which are the challenges?

Used in farming systems a while ago

- The system have changed
- Crops may bear disadvantageous traits
- "Start from scratches"
- Reshape cropping systems
- Germplasms and breeding
- Alternative Processing
- Novel supply chains





Other diversification pathways

- Reconsider underutilised germplasms in common species (OPVs)
- Reconsider mixed cropping e.g. wheat and bean
- Populations and 'evolutionary breeding'
- Combinations of the above







Many thanks for your attention

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