





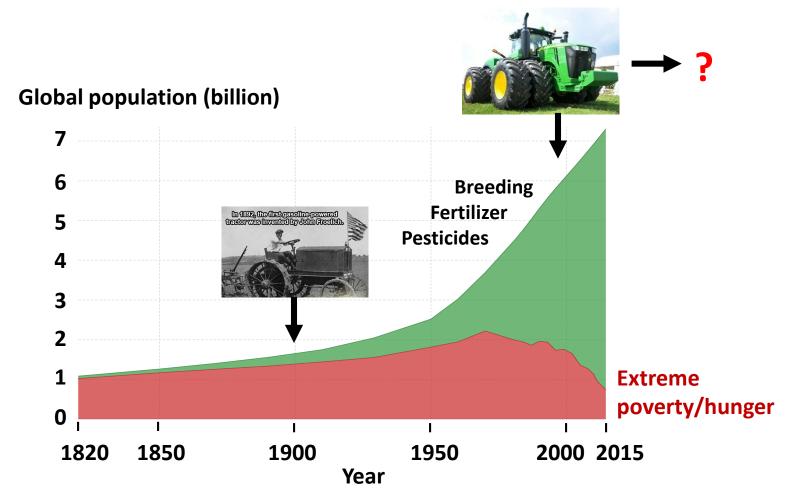
Future farms without farmers?

Senthold Asseng



Agriculture & population growth





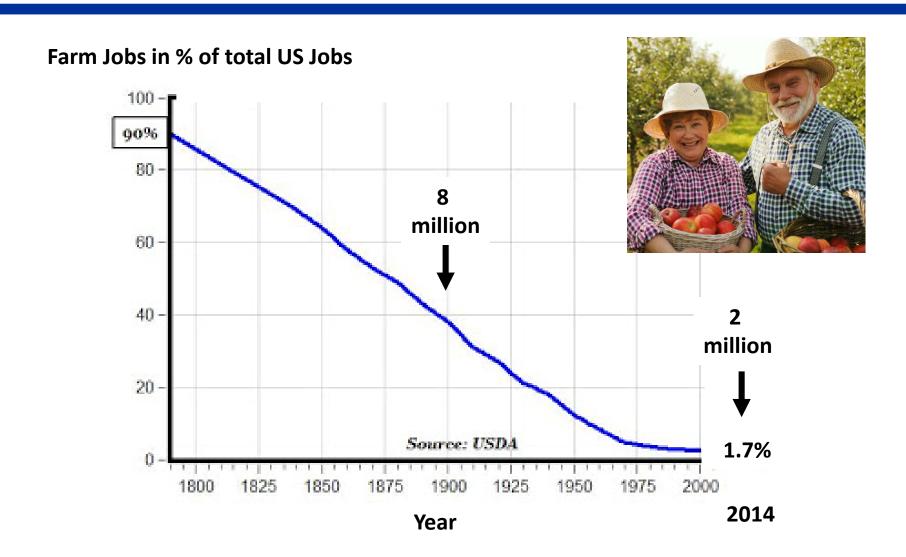
World Bank 2016, Bourguignon and Morrisson 2002



Where are the farmers?





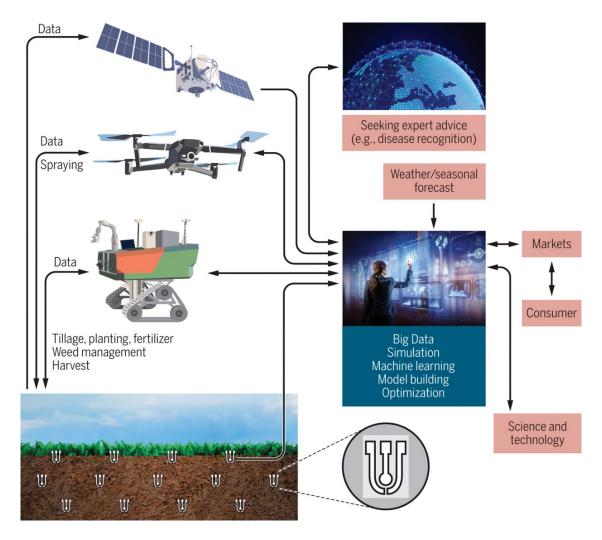




Future farms without farmers









Digital Ag: Pros (& cons?)



1. Increased productivity

- a) Economy of scale less important
- b) Reduced labor
- c) Reduced inputs & higher yields through optimization

2. Reduced environmental impact

- a) Reduced soil compaction
- b) Reduced pesticides
- c) Reduced fertilizer
- d) Opportunities for re-arranging fields

3. Traceability of food

- a) Early warning systems
- 4. New opportunities in R & D (new jobs)

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