NEED FOR POLICY FRAMEWORKS THAT SUPPORT MORE RESILIENT AGRICULTURAL AND FOOD SYSTEMS

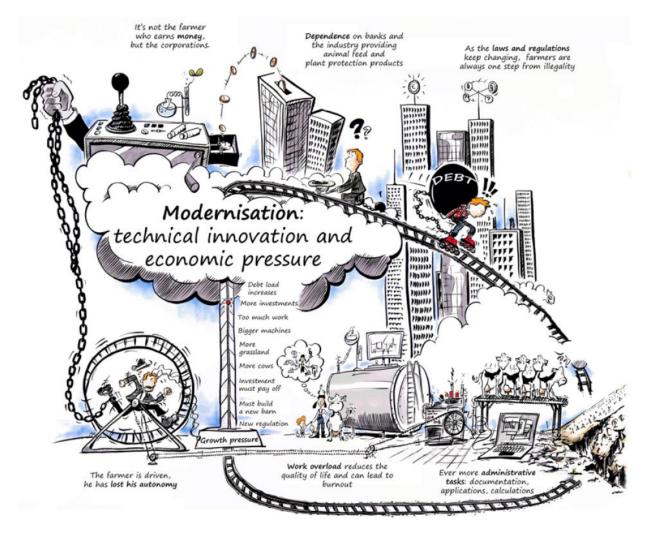
Karlheinz Knickel Évora University, Portugal



- 1. Limits to the industrialisation of agriculture
- RETHINK rethinking the links between farm modernisation, rural development and resilience
 - Three quick examples on agricultural, rural and food systems sustainability and resilience
- 3. Implications



LIMITS TO INDUSTRIALISATION

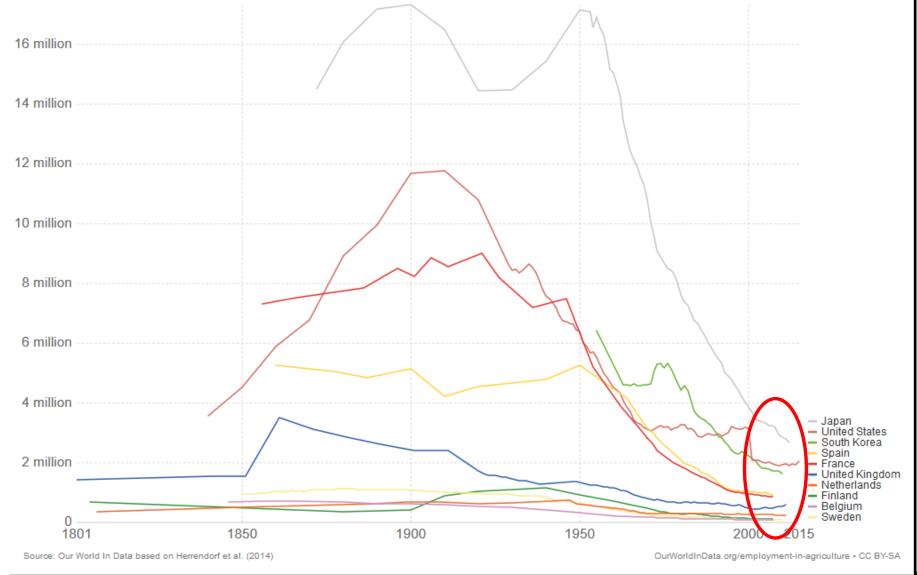




from: RETHINK Case Study Report Austria - Agnes Strauch & Ika Darnhofer

Number of people employed in agriculture since 1800 The total number of individuals in agricultural employment across select countries from the year 1800.



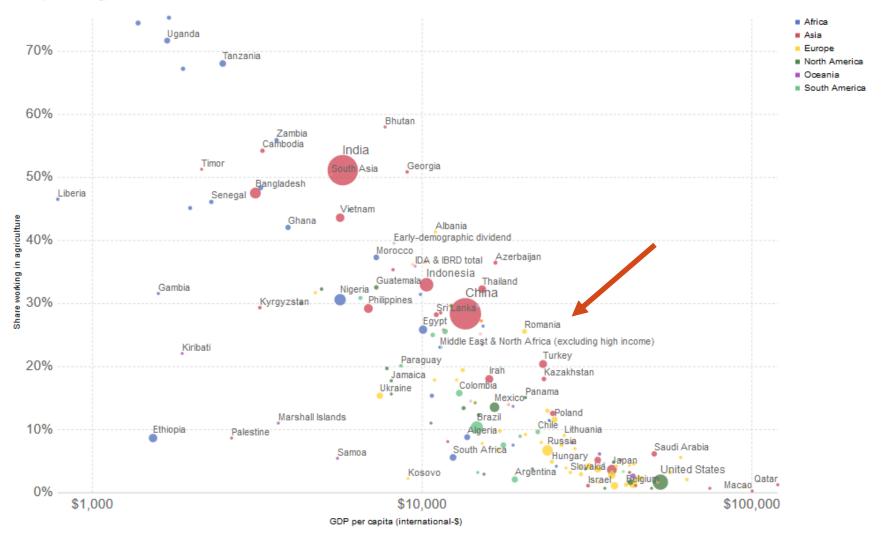




Employment in agriculture vs GDP per capita, 2015



Share of persons of working age who were engaged in any activity to produce goods or provide services for pay or profit in the agriculture sector (agriculture, hunting, forestry and fishing).



Source: World Bank – WDI: GDP per capita, PPP (constant 2011 international \$), World Bank – WDI: Employment in agriculture (% of total employment) OurWorldInData.org/employment-in-agriculture • CC BY-SA



RETHINK

RETHINKING THE LINKS BETWEEN FARM MODERNISATION, RURAL DEVELOPMENT AND RESILIENCE IN A WORLD OF INCREASING DEMANDS AND FINITE RESOURCES











The price of inequality: how today's divided society endangers our future (Joseph Stiglitz) Prosperity without growth: economics for a finite planet

(Tim Jackson)







AFFORDABLE AND















9 INDUSTRY, INNOVATION AND INFRASTRUCTURE



REDUCED INEQUALITIES

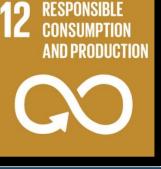






THE GLOBAL GOALS

For Sustainable Development



13 CLIMATE ACTION



14 LIFE BELOW WATER







PARTNERSHIPS FOR THE GOALS

RESILIENCE OF AGRICULTURAL AND FOOD SYSTEMS

- Economic pressures, increasing vulnerabilities, inequalities, differences in access to resources
- Socio-economic well-being ... quality of life
- Food production ... sustainable food and nutrition security
- Environmental sustainability ... resource use efficiency
- Climate change mitigation, adaptation ... low carbon economy ... resilience of social-ecological systems



THREE QUICK EXAMPLES

- The "bio-based" economy
- Milk production
- Rural communities



THE "BIO-BASED" ECONOMY

Biodiesel, ethanol: industrial scale



"Smaller-scale" distributed systems





MILK PRODUCTION

Holstein Frisians, 10,000 kg milk per year

SAC

Brown Swiss, 6,000 kg, with farm-based cheese making





RURAL COMMUNITIES

40 ha business area for a logistics company



Development of SMEs and knock-on effects





KEY QUESTION: WHAT IS IT REALLY ABOUT?

- Income opportunities for all people, families, regions
- <u>Livelihoods</u>, ... <u>decent work and incomes</u>, quality of life
- We need to look at interconnectedness (of causes, problems)
 - Concentration of production in some regions and businesses
 - Marginalisation of others the "less favoured areas", mountainous areas, the periphery distant from "markets", ... the less competitive, the less qualified, capable
- "Competitiveness" and profit?
 - take care of the time and of the societal dimension!



Global Europe

Digital revolution forces rethink of labour and welfare

Energy & Environment

By Jorge Valero | EURACTIV.com

Digital

Economy & Jobs

Agrifood

m Sep 15, 2017 (updated: m Sep 15, 2017)

Health

Politics

Transport



Spot welding of BMW 3 series car bodies with KUKA industrial robots. [BMW Werk Leipzig/Wikimedia]



Technological advances?





NEED FOR STRICT SUSTAINABILITY / FUTURE PROOFING

Possible consequences

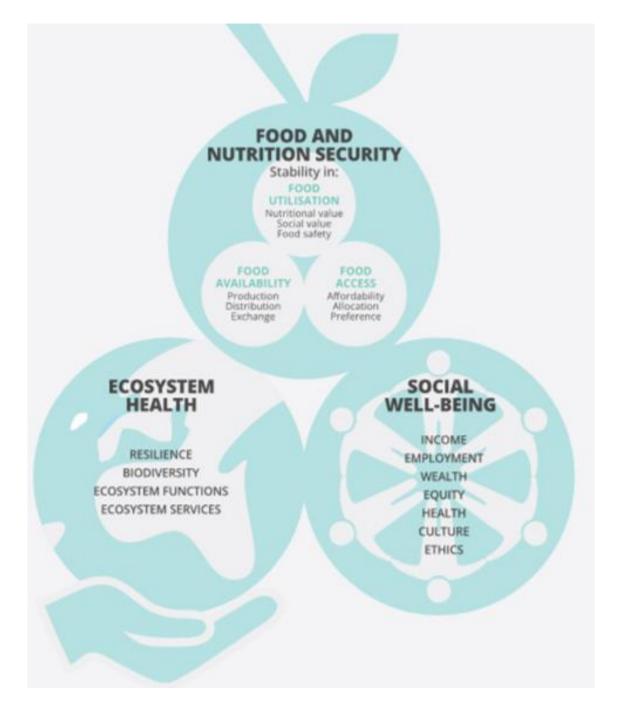
- on small and medium size farms
- on the food system as a whole
- on marginalization of regions and groups



REFLEXIVE MODERNIZATION POLICY NEEDED

- Modernizing agriculture means very different trajectories
 - It means far more than the application of technological advances
 - Need to expose policy jargon, ensure clarify
- Enormous need for <u>strict sustainability / future proofing</u> and more meaningful <u>ex-ante impact assessments</u>
 - Civil society / CSOs should be very actively involved in this
 - System boundaries and time dimensions matter!
- What could a <u>better agricultural and food policy</u> look like?
 - Many excellent ideas already existing
 - Unique opportunity for <u>mobilizing and uniting very diverse</u> <u>stakeholders</u> for better policy frameworks





IMPORTANCE OF CONNECTING DIFFERENT AGENDAS, INTERESTS AND STAKEHOLDERS

(EEA, 2017, Food in a green light)



rethink

Farm Modernisation and Rural Resilience

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