

Example: agricultural policy



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- In the 1950s-1980s: 'the glorious 30'
 - ► Post-WWII economic expansion
 - ➤ Strong government regulation of markets: high, stable prices; control of imports; subsidies for export
 - ► Very successful: high productivity
 - ▶ Downside: farm size; environ. impact; over-production
- Since 1990s: 'change is the only constant'
 - Fall of 'Iron Curtain' in 1989; GATT Uruguay Round
 - ► EU-accession in 1995; new CAP in 2000
 - ► 2003 'mid-term review' → CAP reform

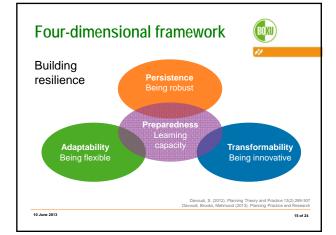
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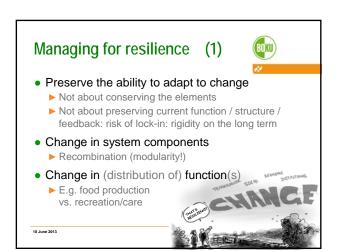
Impact on farm management



- During the ,glorious 30'
 - ► Can plan and invest: stable policy, predictable prices
 - Focus on optimising production systems: increase produced quant./qual., reduce cost of production
 - ► Context stable = Focus on-farm; on 'doing things right'
- Since the 1990s
 - ▶ Unpredictable change requires flexibility, modularity
 - ► Focus on building up buffers and adaptability
 - ► Co-evolution: recognize emergent trends, Focus on 'doing the right things' (context dependent!)

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Managing for resilience (2)



- Build resources
 - ▶ Build buffers of economic, social, natural 'capital'
 - Maintain redundancy: unused resources that can be mobilized quickly (avoid the 'efficiency trap')
- Be diverse
 - ► Different activities (crops, energy, off-farm job)
- Experiment (tinkering, bricolage, trial-and-error)
 - ▶ Be bold and try out new (wild) ideas on limited scale
- Be ready to scale-up ('window of opportunity')
 Challenge: limited time/energy; trade-offs

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Managing for resilience (3)



- Farmers need to do both:
 - ► Ensure competitiveness/production efficiency to secure (econ.) viability on short-term
 - Ensure flexibility to secure adaptability on mediumterm and transformability on long-term
- Trade-offs
 - ► Specialisation vs. diversification
 - Invest time in production vs. in networking
 - ► Learning and change vs. 'relax and cruise along'
 - ► 'Right' depends on stage of 'adaptive cycle'

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Resilience: research challenge



- Focus on relationship between syst. components
 - ► Not on individual components
- Focus on ability or process
 - ► Not on stability or outcome
- Focus on change dynamics
 - ▶ Not on how things are at one point in time
 - ▶ Different types of change: continuous stress vs. abrupt shock; internal vs. external source of change
 - ► Accept the unpredictability of change

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Research what?



- Resilience as a property of the system
 - ► Empirically attractive: identify characteristics / attributes; what is: 'being'
 - ► Then 'measure' factors that affect resilience: Diversity (elements, links, functions) Modularity (how elements are linked: tight or loose) Learning: tightness of feedback loops; networks
- Resilience as a process
 - ► Adaptive capacity, linking, recognizing opportunities
 - ► Emergent, 'becoming'

Ability to change



- Resources (what you have)
 - ► On-farm: econ. capital, technology, information and knowledge
 - ► Context: infrastructure, institutions
- Ability to use these resources
 - ► Social capital, social learning
 - ► Context: policy, bureaucracy, norms, values, structures, power relations
- This is why processes are so important!
 - ▶ Only reveal themselves: emergent, not pre-defined!

Importance of process - Metaphors



- Chess: interactive game
 - ▶ But: all have the same pieces to start with
 - ▶ Winning depends on how you play and how you respond to how your partner plays
- Card games: better metaphor?
 - ► Not all get the same cards (better/worse hands)
 - ► May be more than 2 players (diversity increases)
 - ▶ Winning also depends on: (1) what cards you get; (2) how you play, (3) how others play their cards
- Either way: pre-defined strategy is not helpful!

Thank you!