



**Simon Fraval**  
**Post-doctoral research fellow**  
**Global Academy for Agriculture and Food Security**

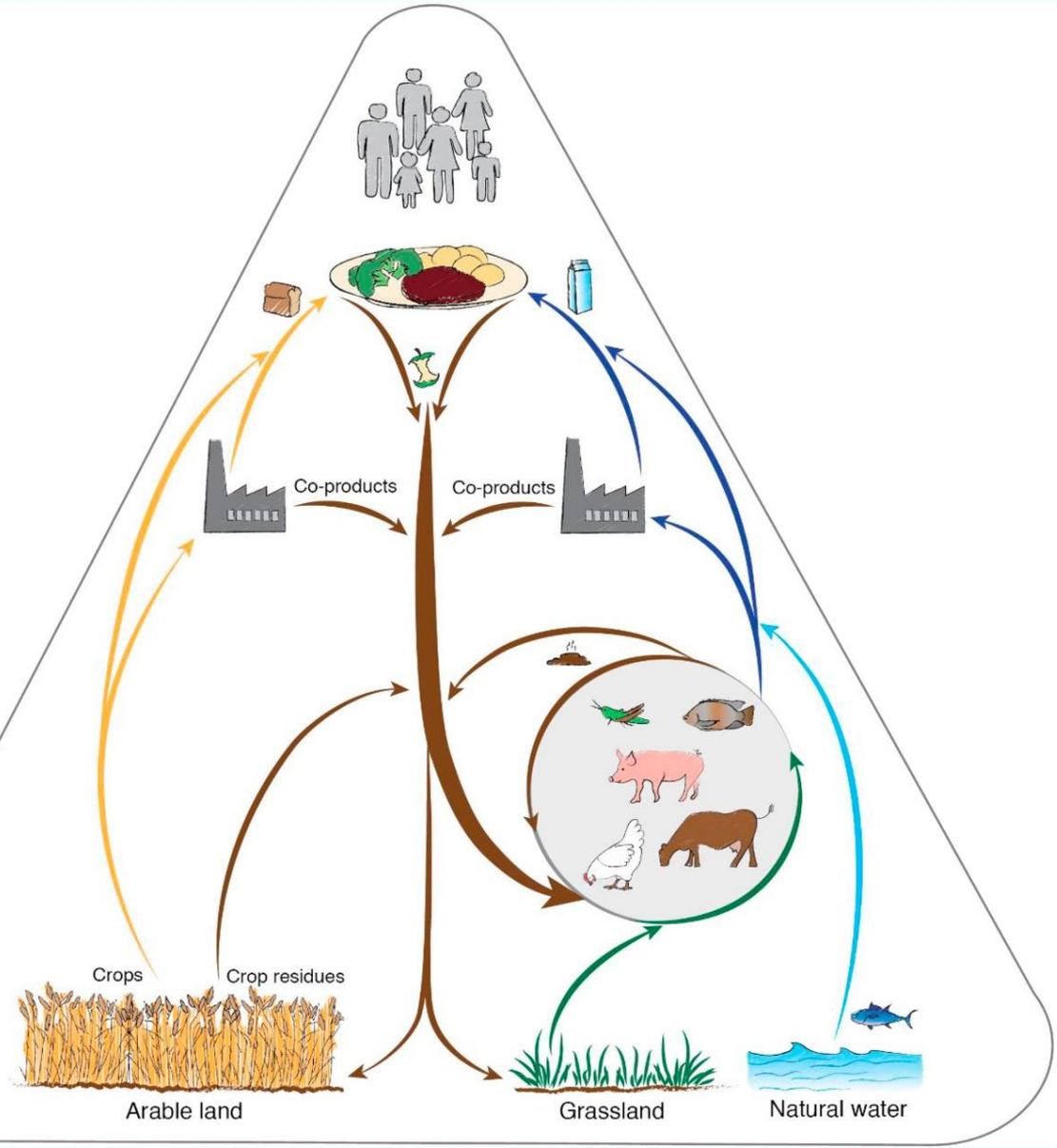


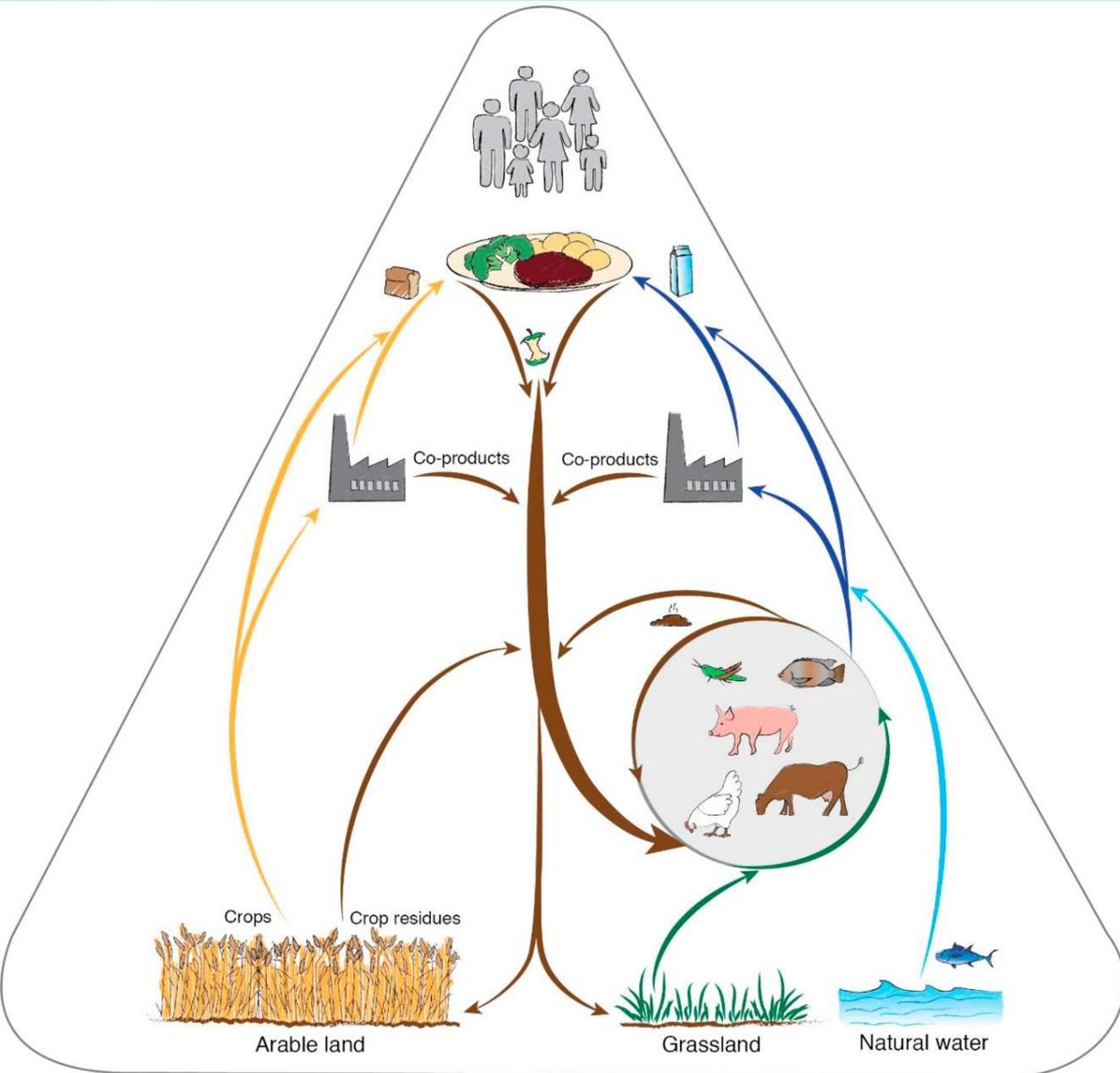
**What's unique about food systems in the tropics?**



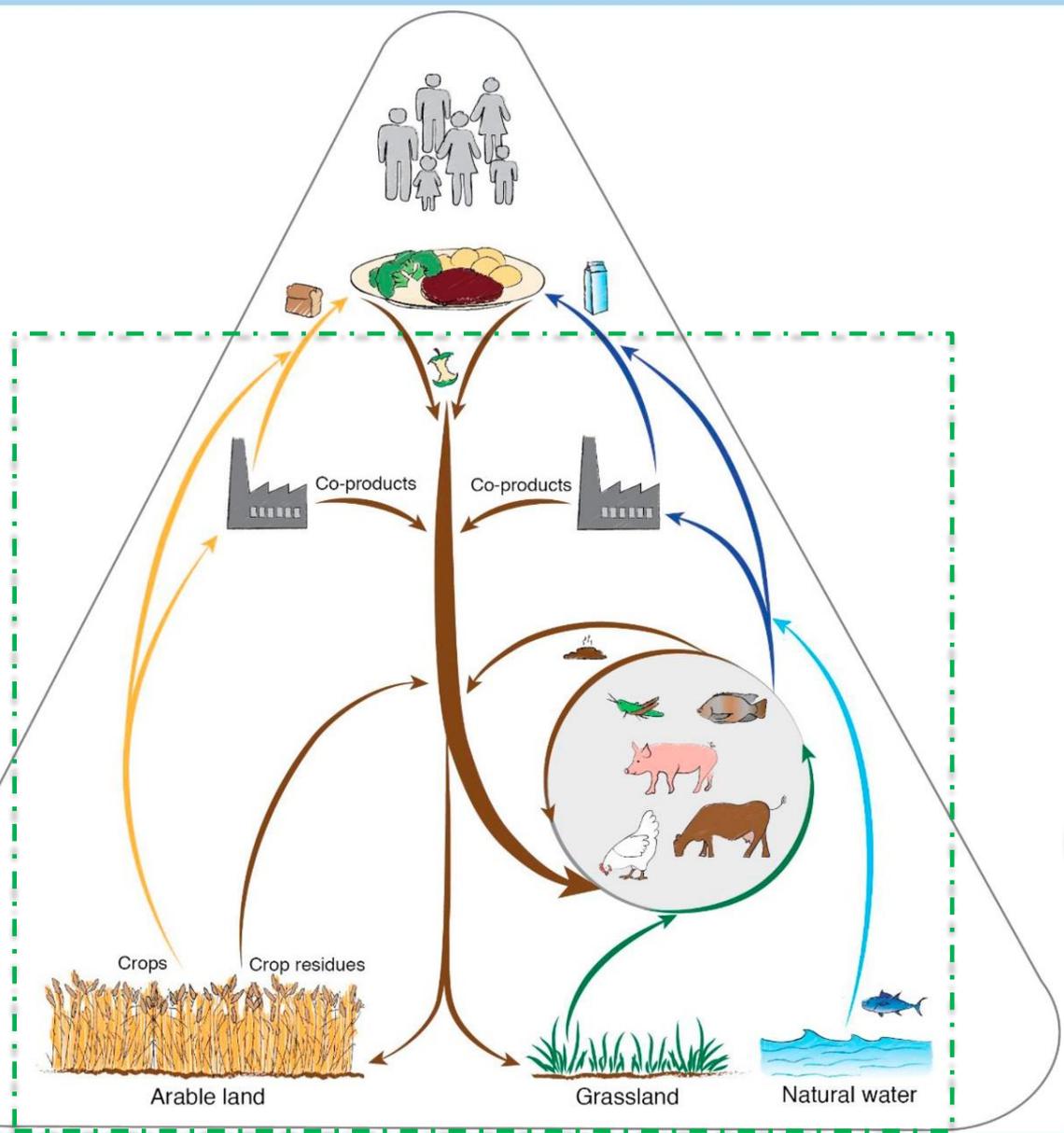
A photograph showing a person herding several cows in a dusty field at sunset. The scene is silhouetted against a bright, golden light, creating a hazy, atmospheric effect. The person is in the center, holding a bucket, and the cows are scattered around them.

What are the unique and acute challenges?

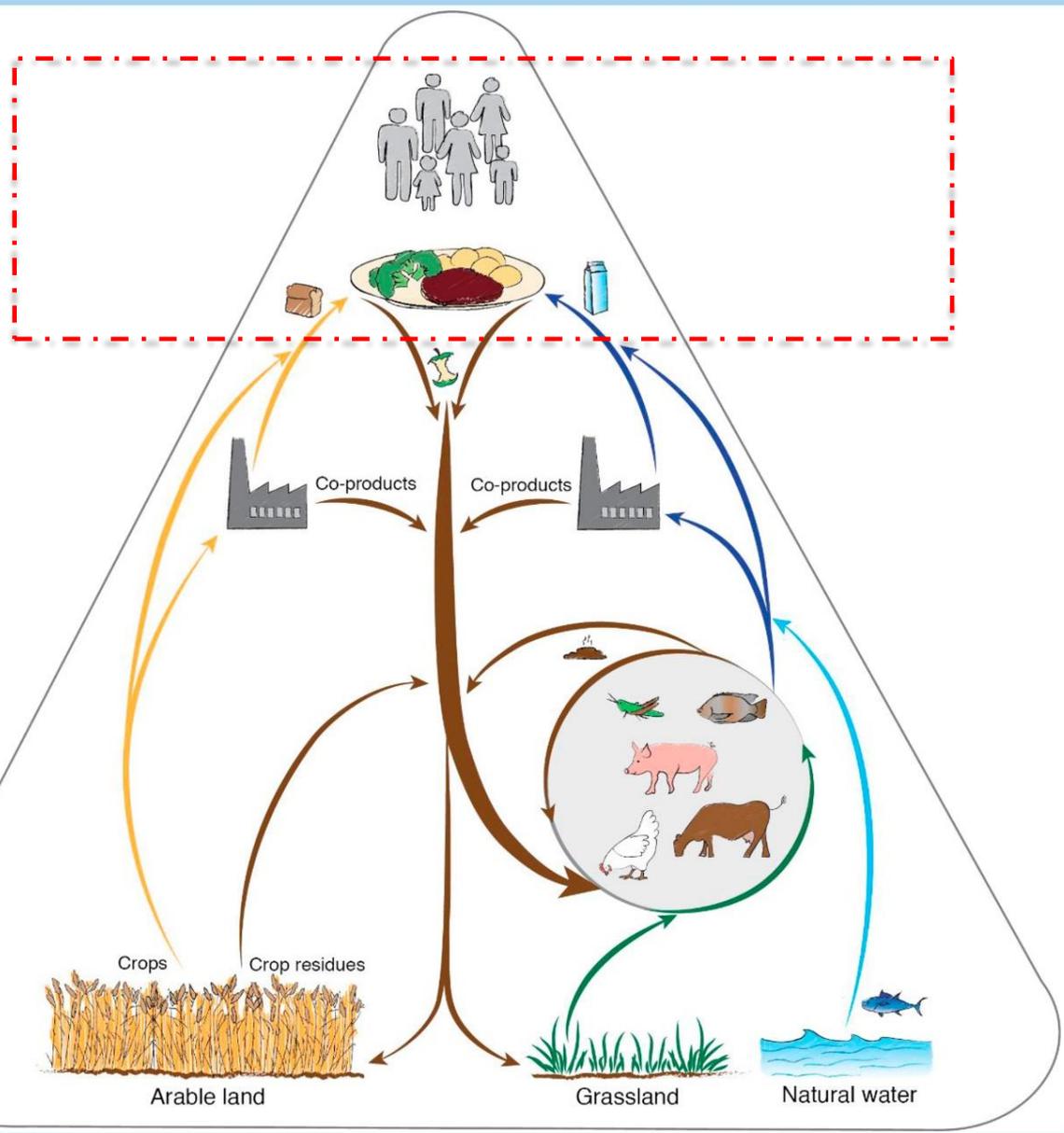




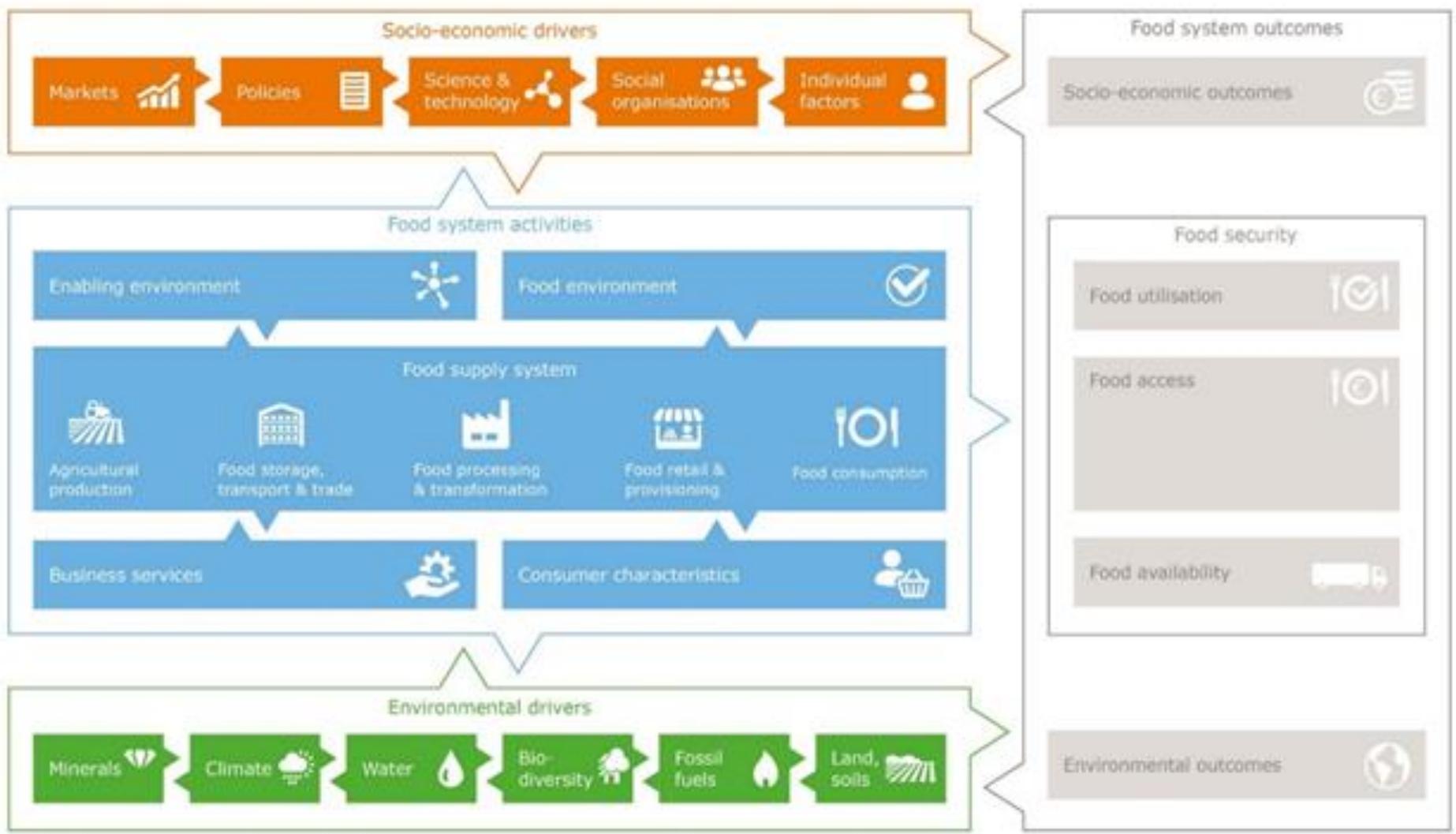
<p><b>1 NO POVERTY</b></p>	<p><b>2 ZERO HUNGER</b></p>	<p><b>3 GOOD HEALTH AND WELL-BEING</b></p>
<p><b>4 QUALITY EDUCATION</b></p>	<p><b>5 GENDER EQUALITY</b></p>	<p><b>6 CLEAN WATER AND SANITATION</b></p>
<p><b>7 AFFORDABLE AND CLEAN ENERGY</b></p>	<p><b>8 DECENT WORK AND ECONOMIC GROWTH</b></p>	<p><b>9 INDUSTRY, INNOVATION AND INFRASTRUCTURE</b></p>
<p><b>10 REDUCED INEQUALITIES</b></p>	<p><b>11 SUSTAINABLE CITIES AND COMMUNITIES</b></p>	<p><b>12 RESPONSIBLE CONSUMPTION AND PRODUCTION</b></p>
<p><b>13 CLIMATE ACTION</b></p>	<p><b>14 LIFE BELOW WATER</b></p>	<p><b>15 LIFE ON LAND</b></p>
<p><b>16 PEACE, JUSTICE AND STRONG INSTITUTIONS</b></p>	<p><b>17 PARTNERSHIPS FOR THE GOALS</b></p>	<p><b>SUSTAINABLE DEVELOPMENT GOALS</b></p>

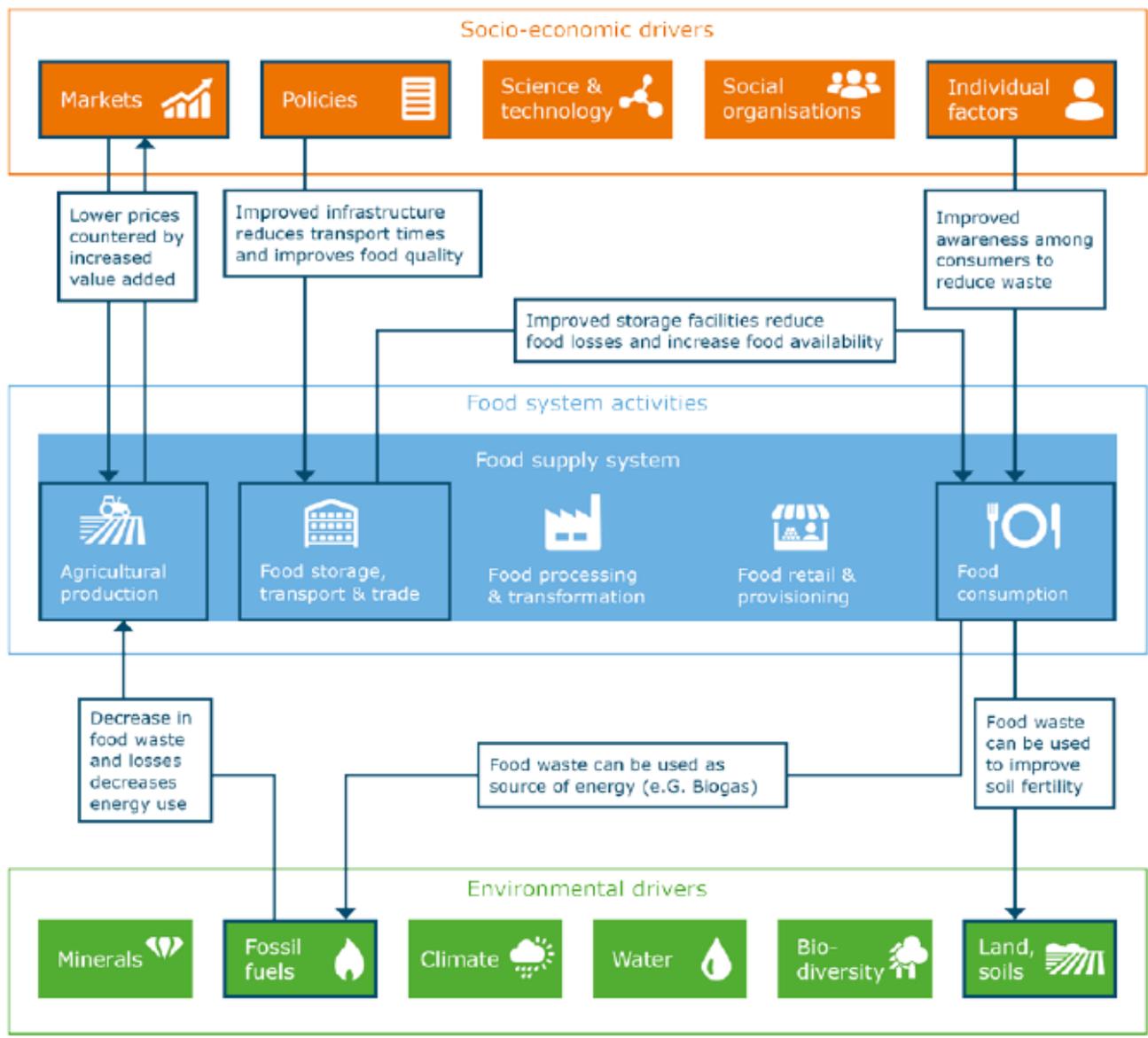


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|---|---|---|
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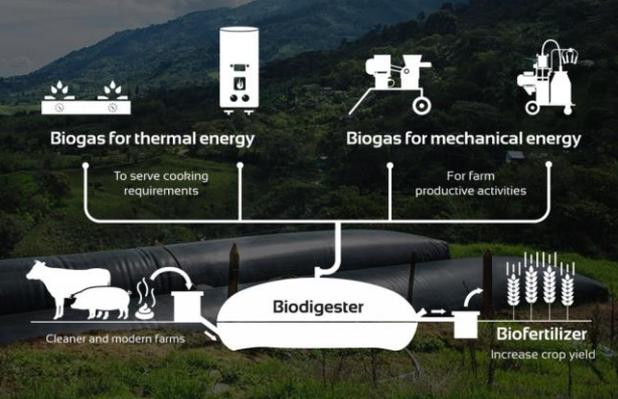
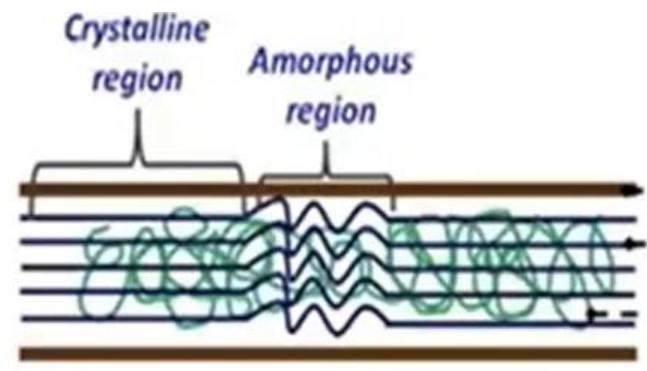
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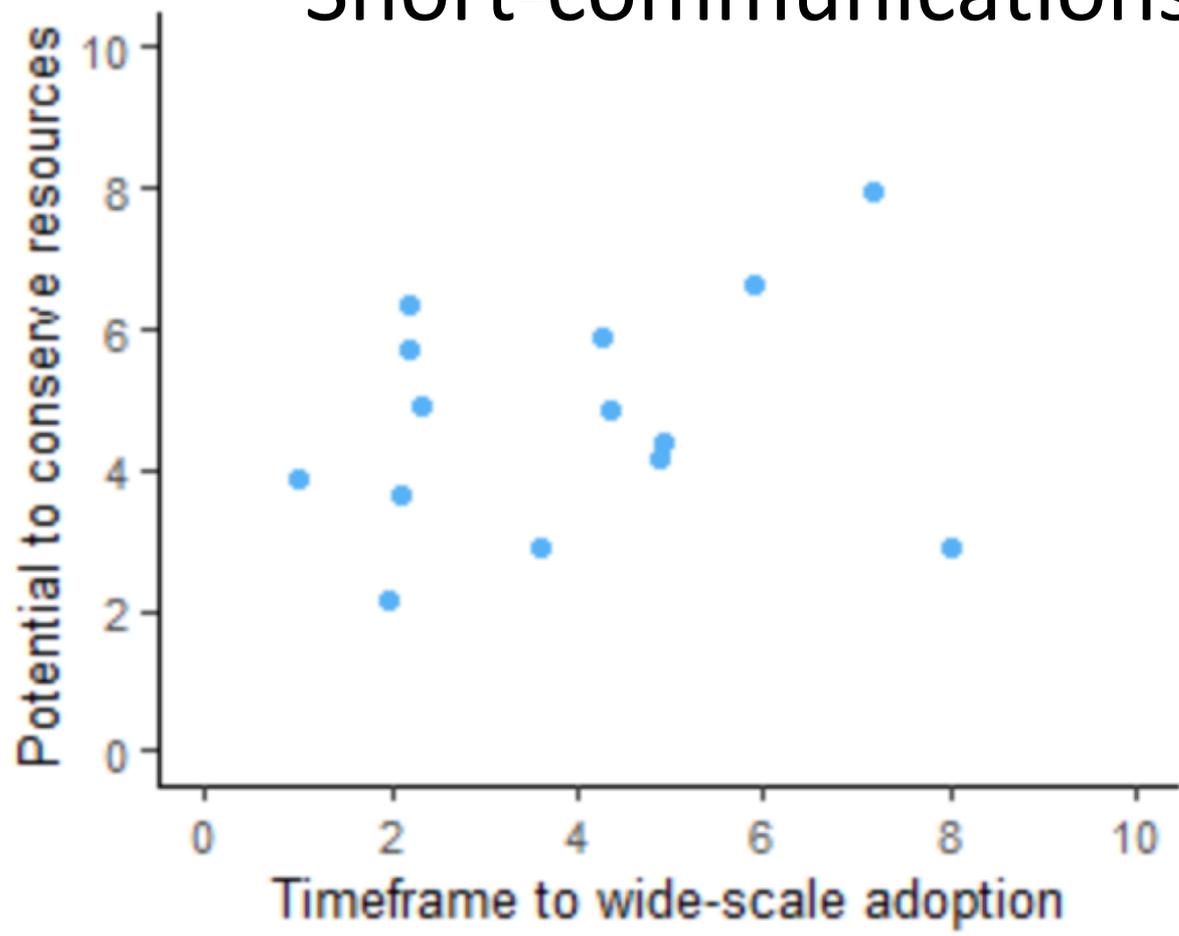


# Interventions for improved circularity

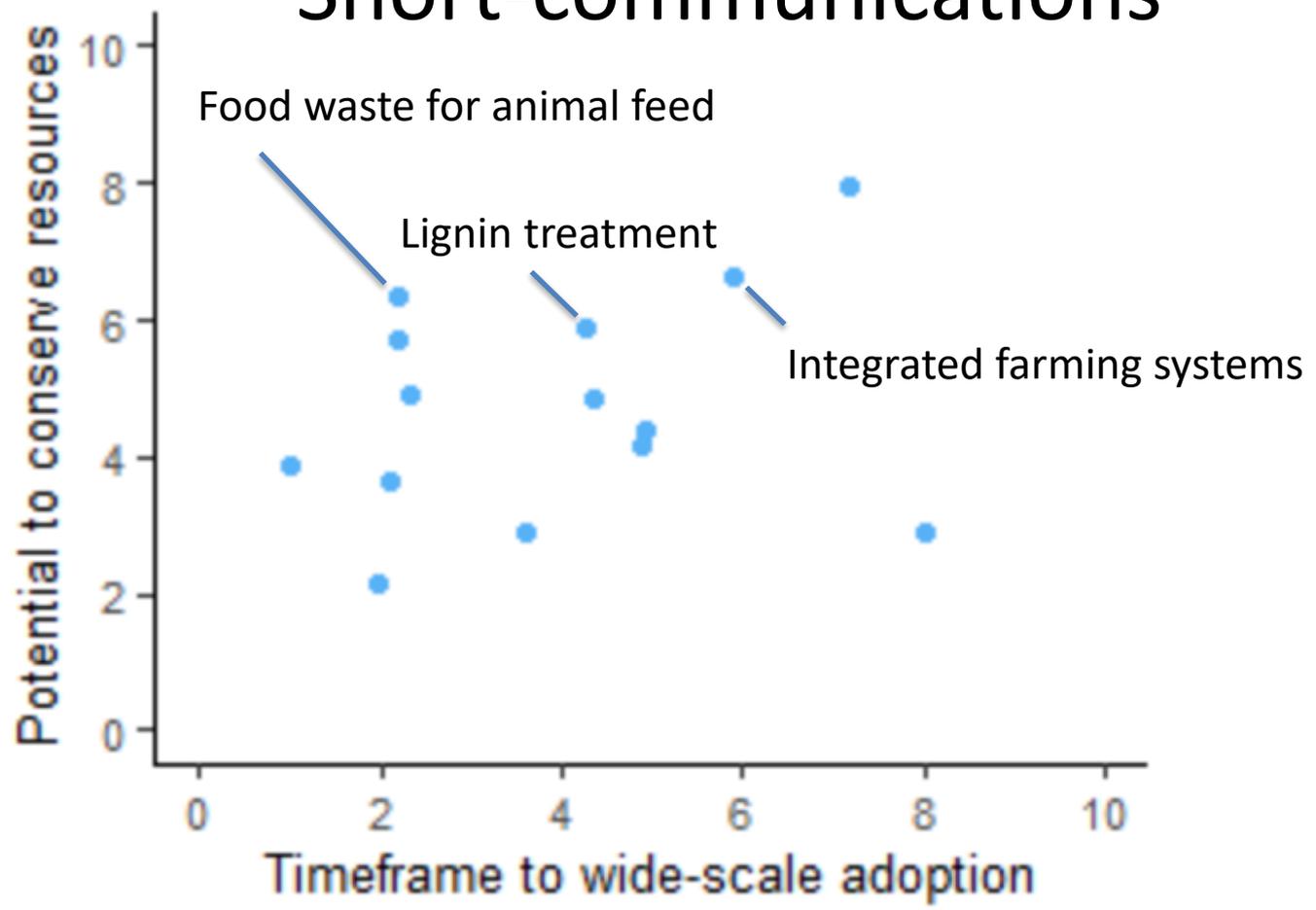




# Potential of interventions: Short-communications

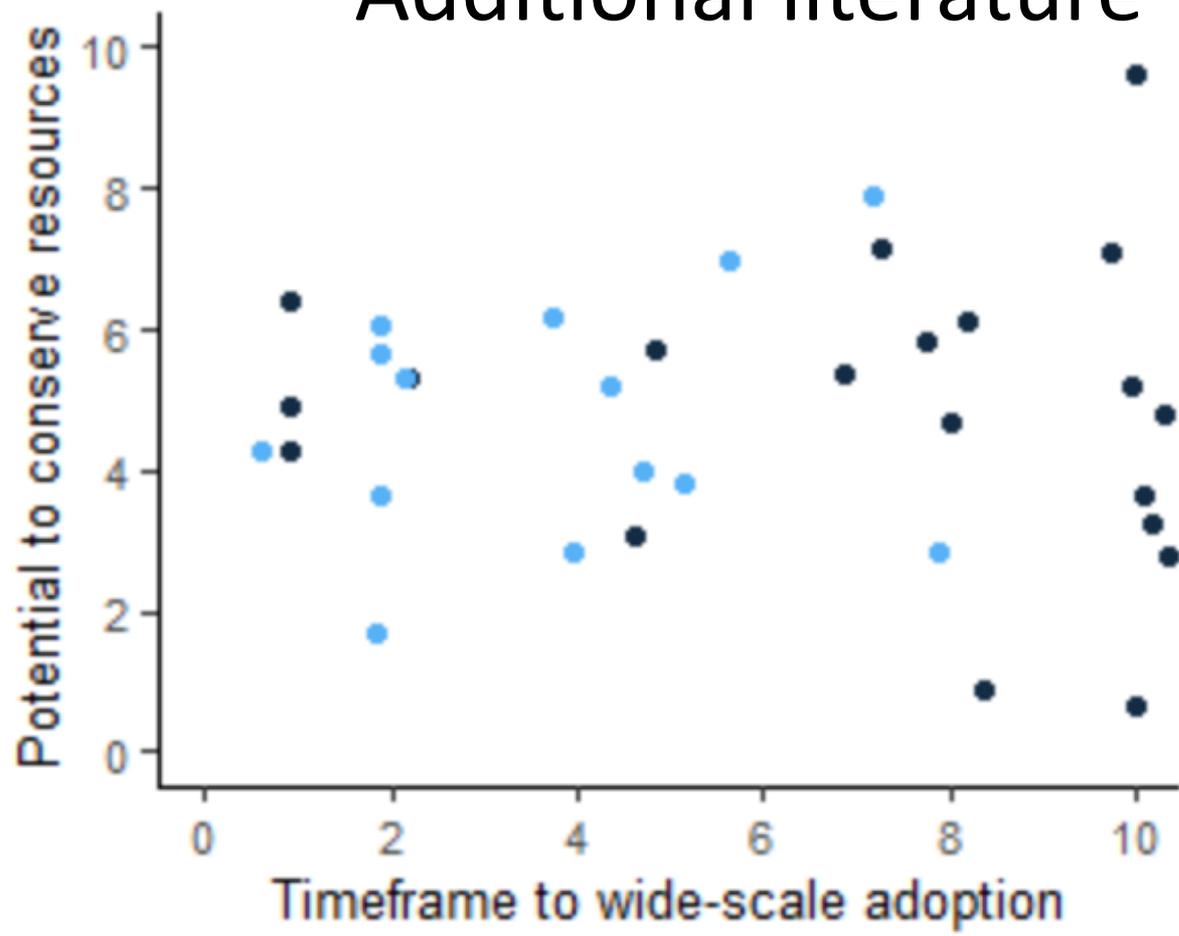


# Potential of interventions: Short-communications

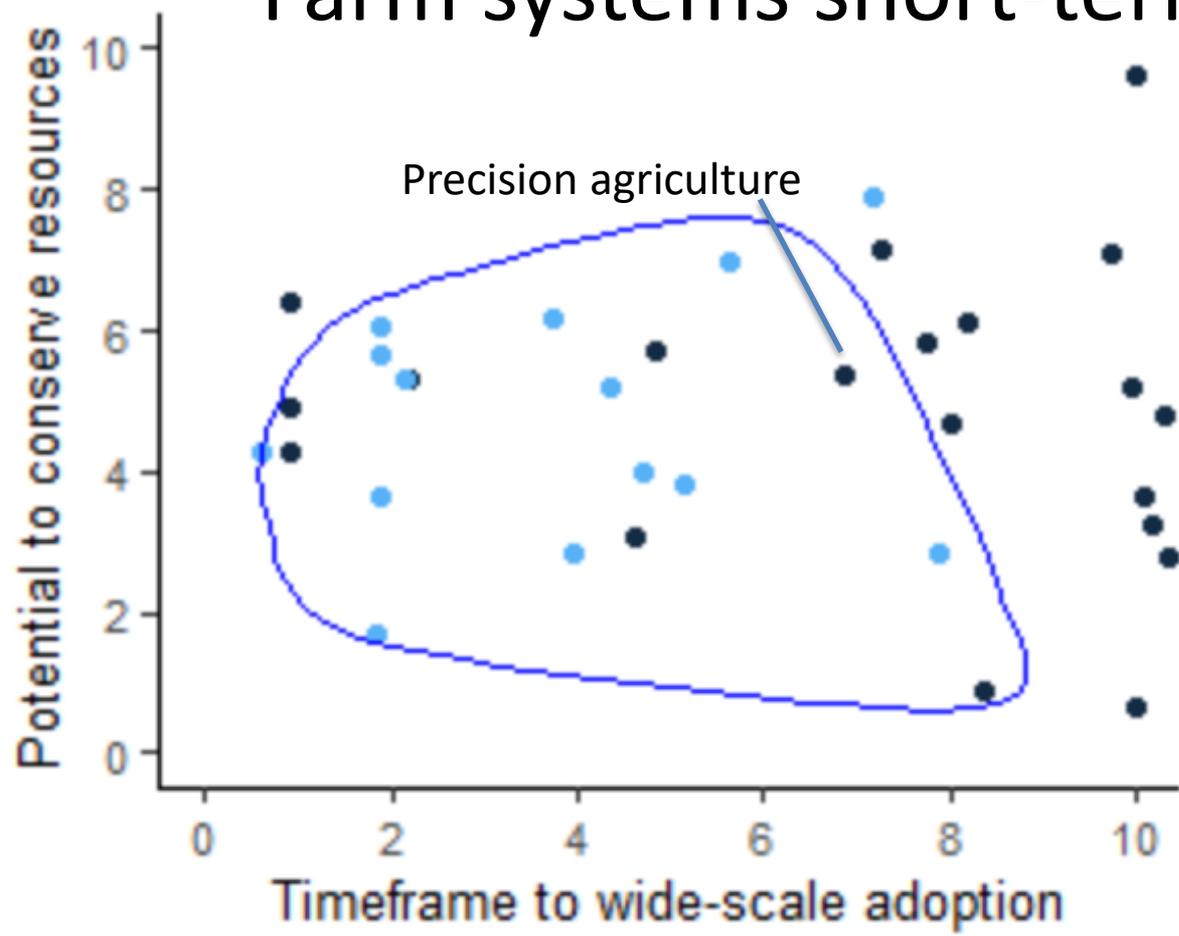




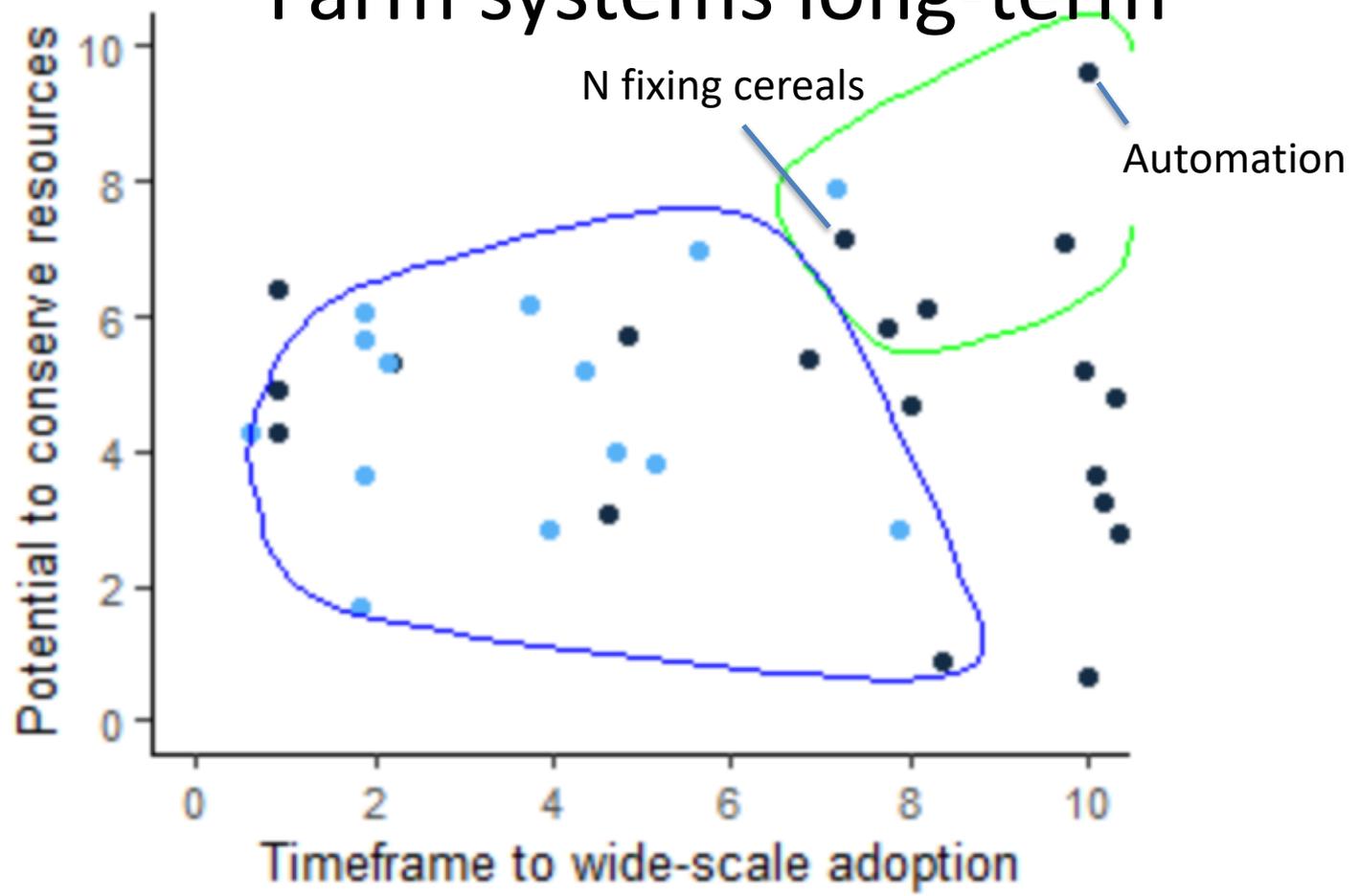
# Potential of interventions: Additional literature



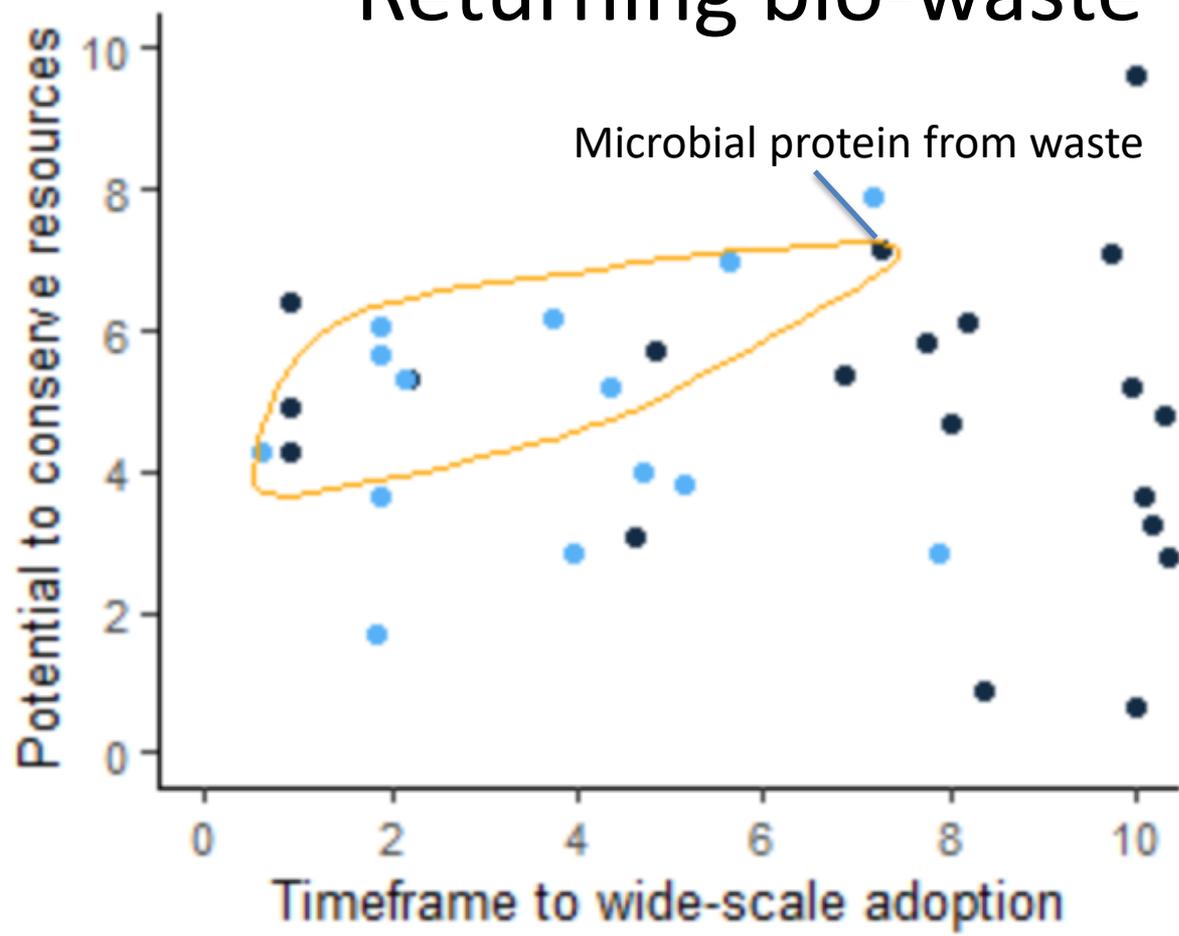
# Potential of interventions: Farm systems short-term



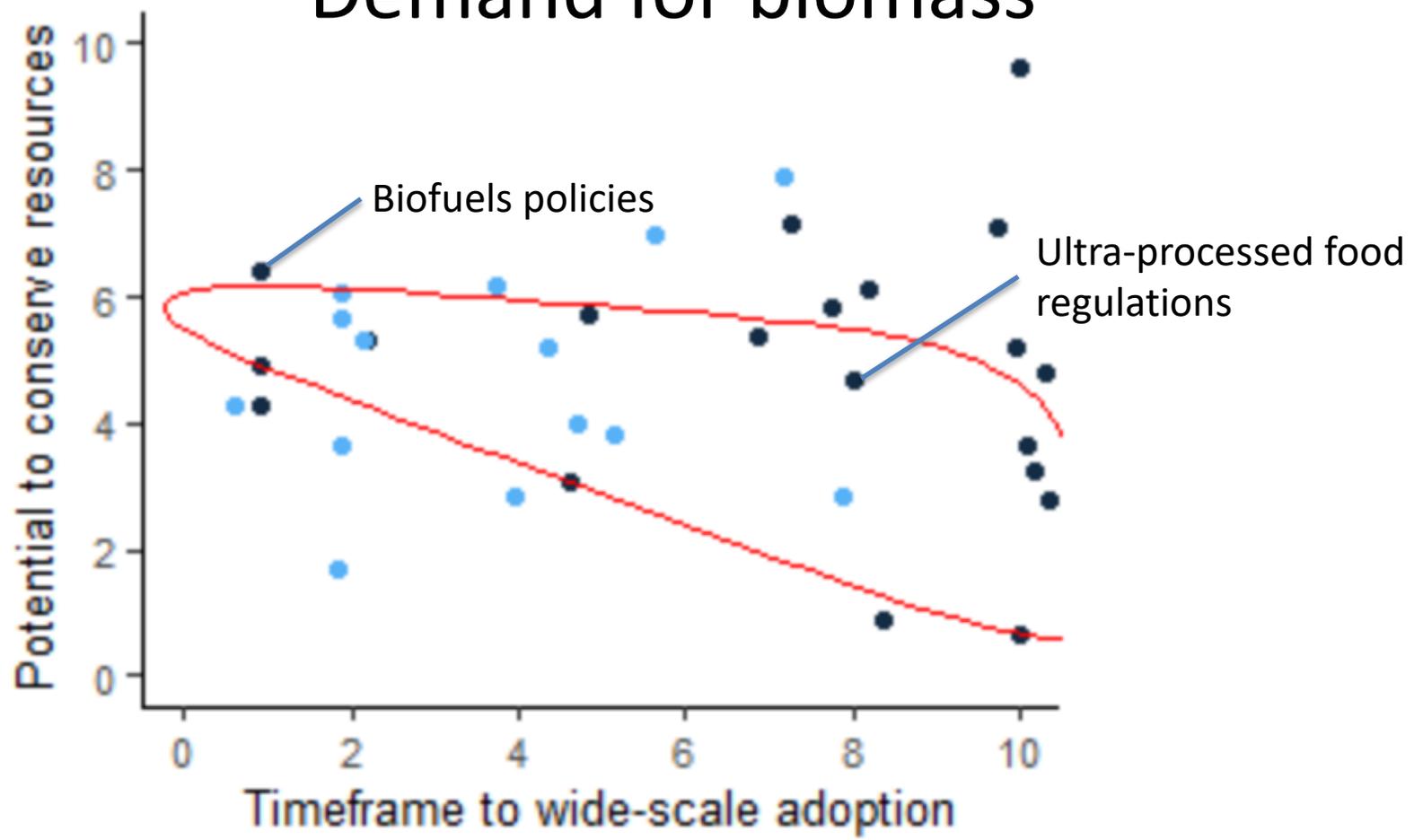
# Potential of interventions: Farm systems long-term



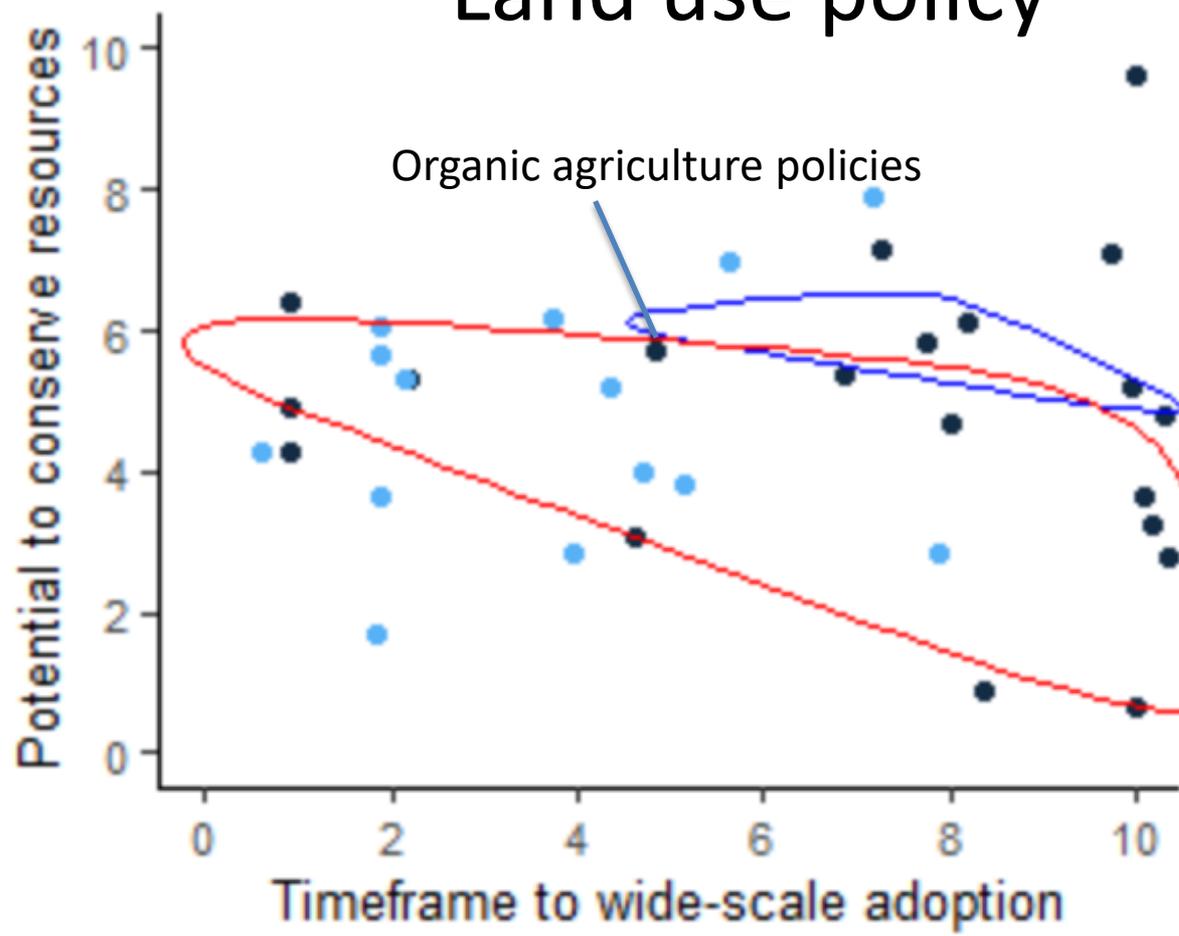
# Potential of interventions: Returning bio-waste



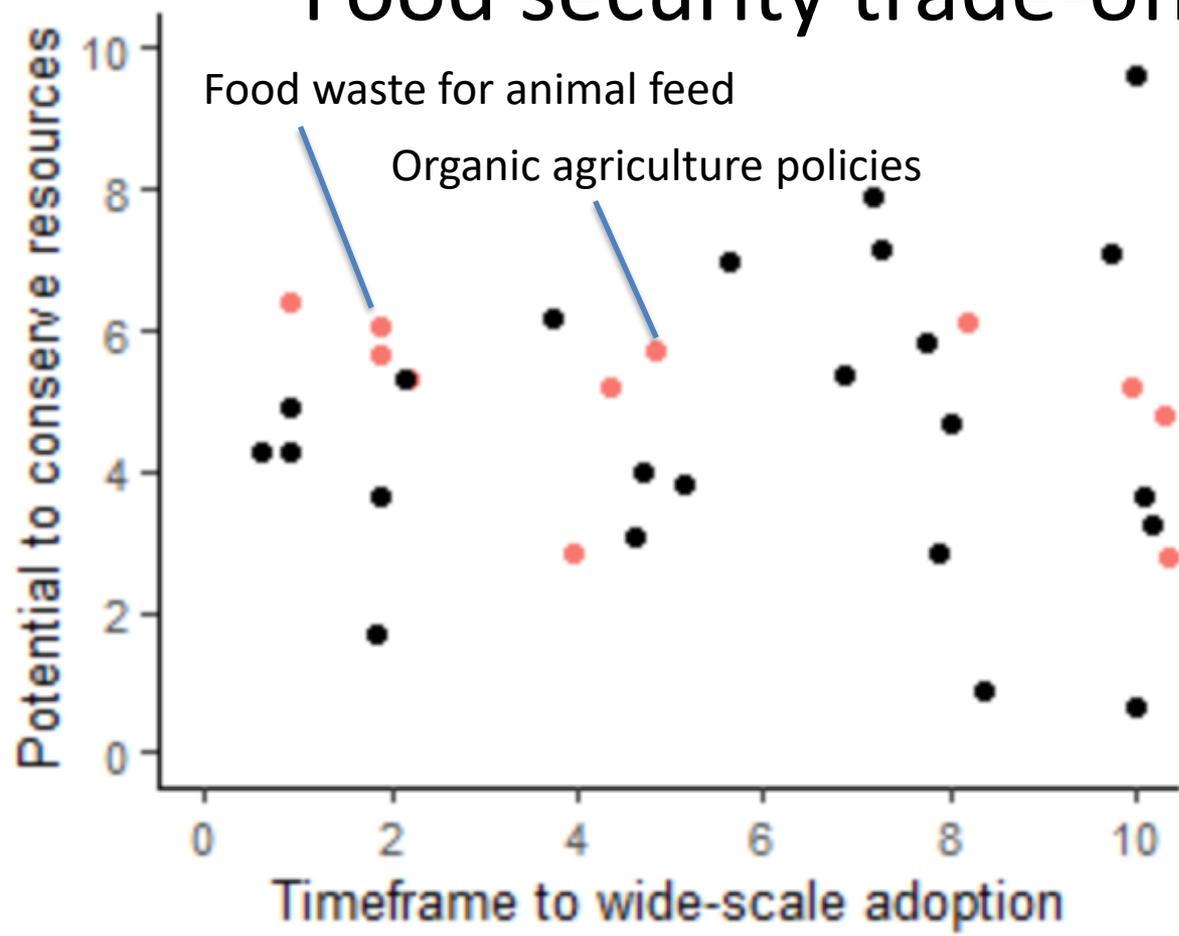
# Potential of interventions: Demand for biomass



# Potential of interventions: Land use policy

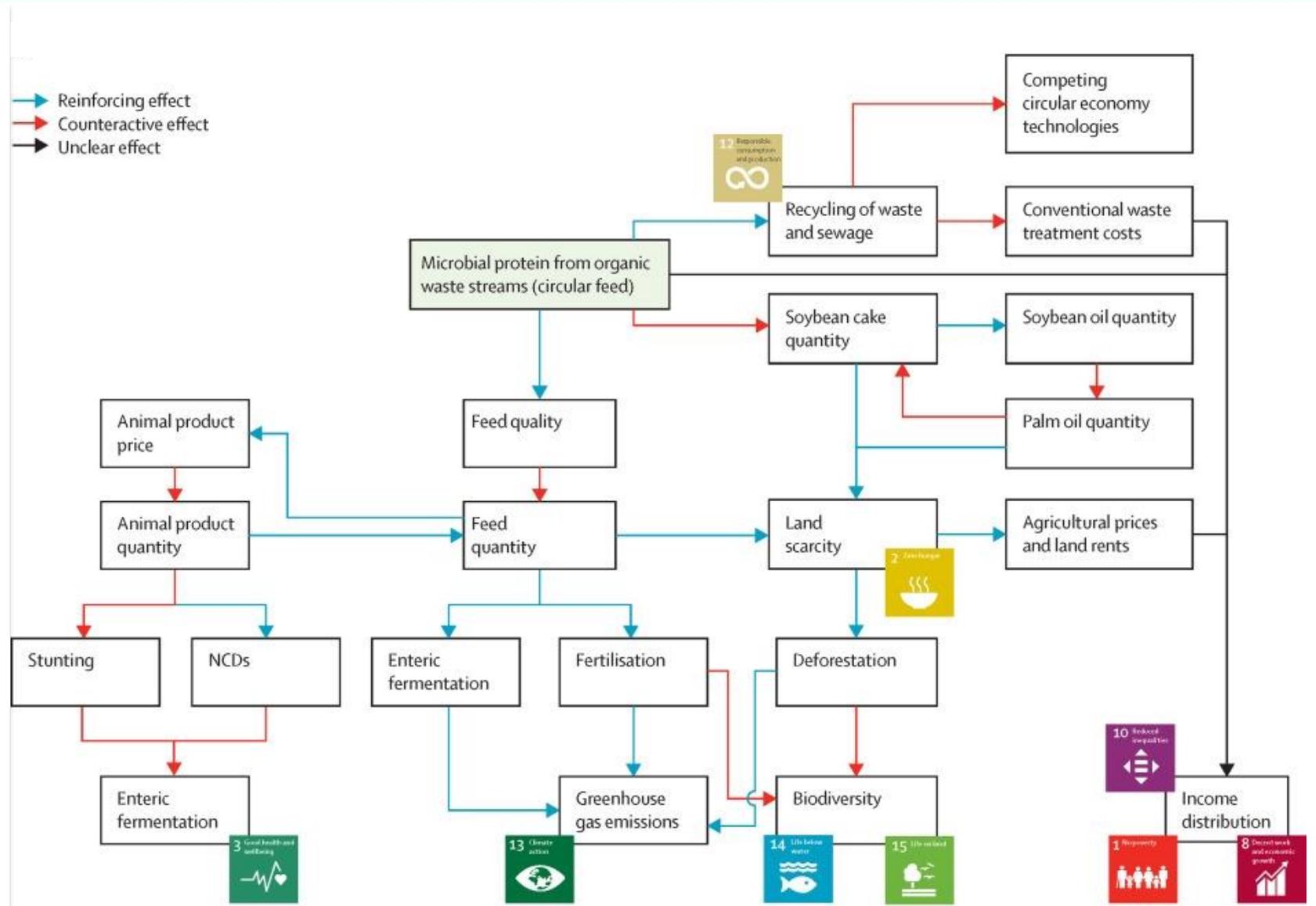


# Potential of interventions: Food security trade-off



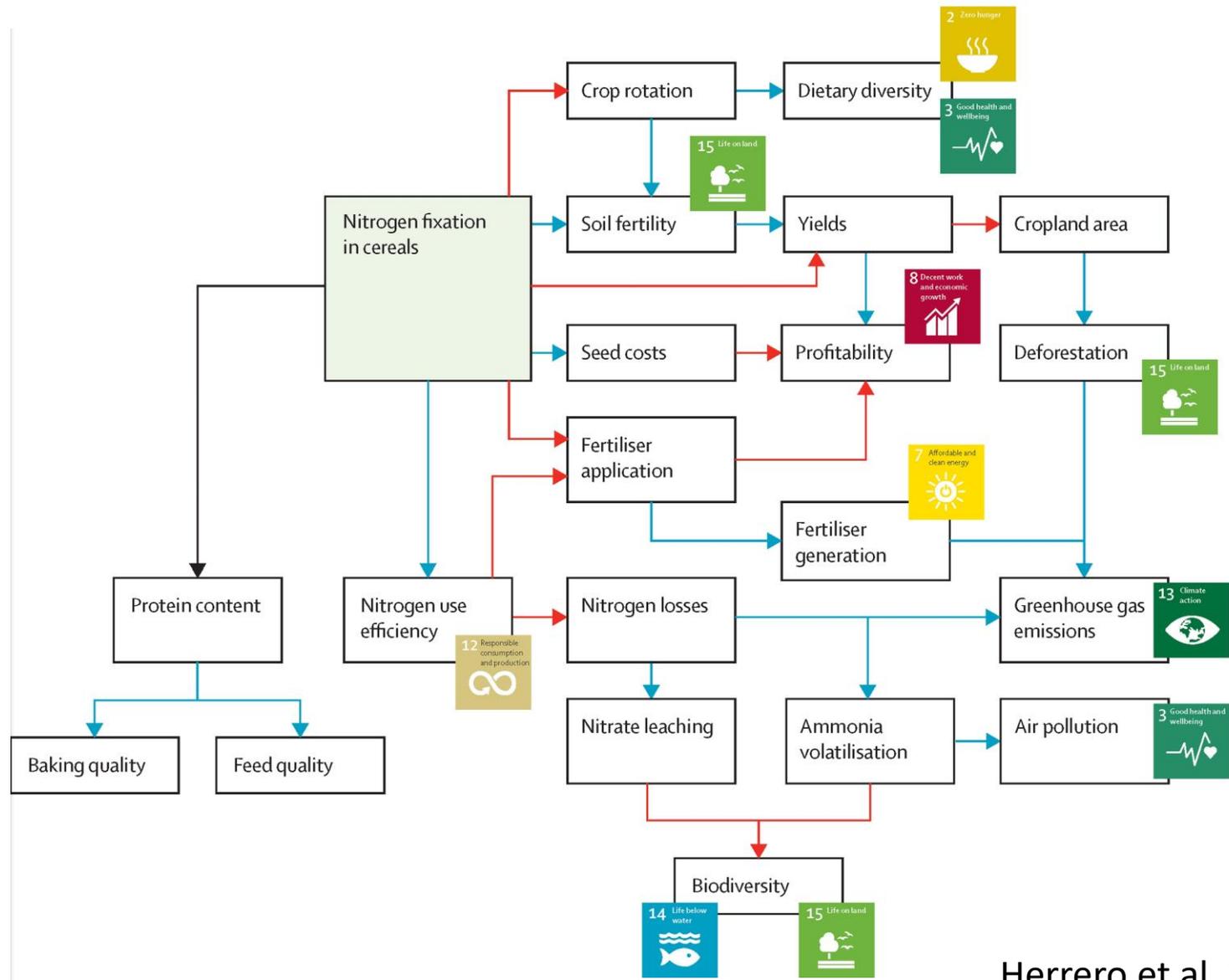


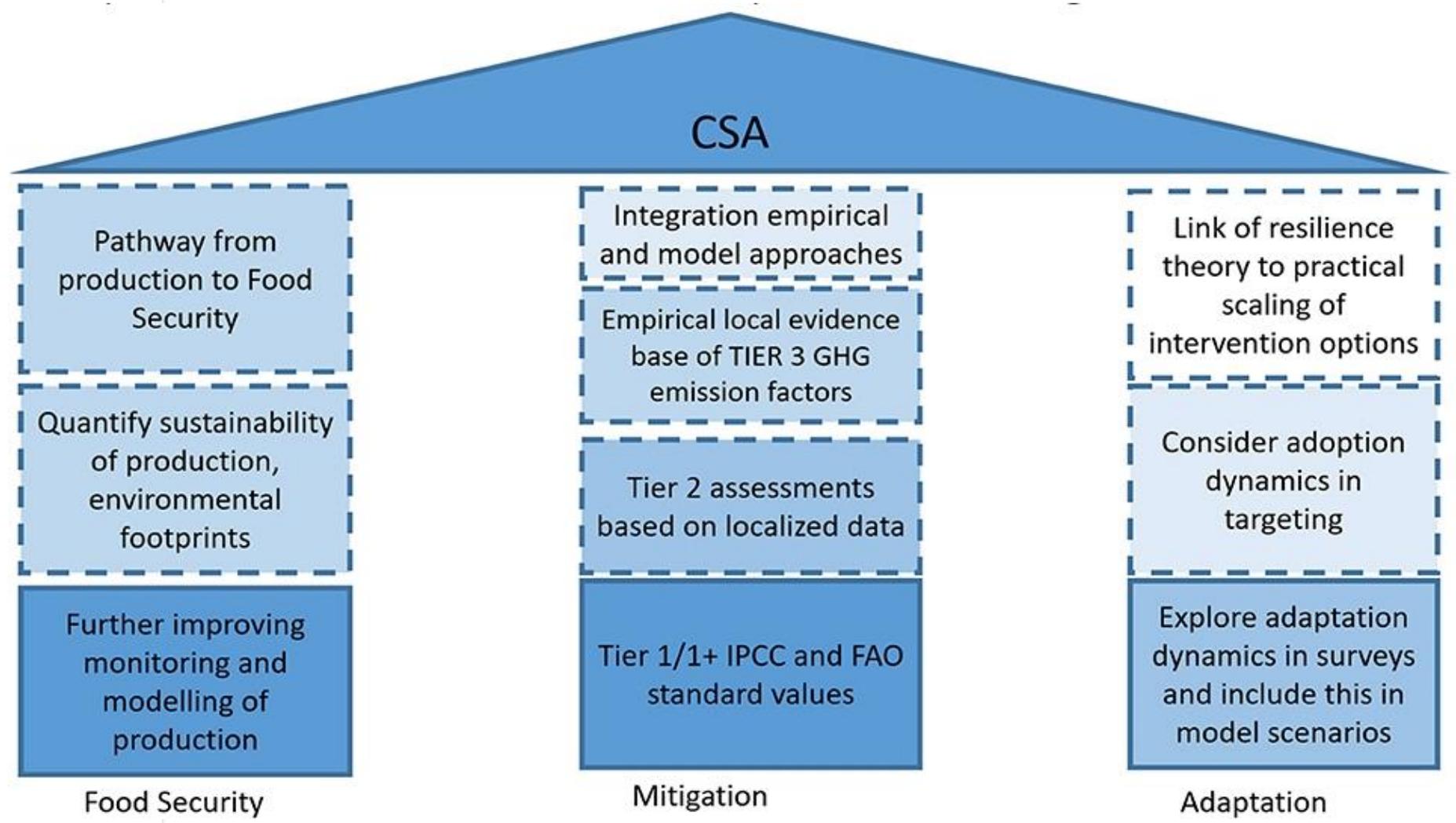
# Pre-empting and monitoring trade-offs



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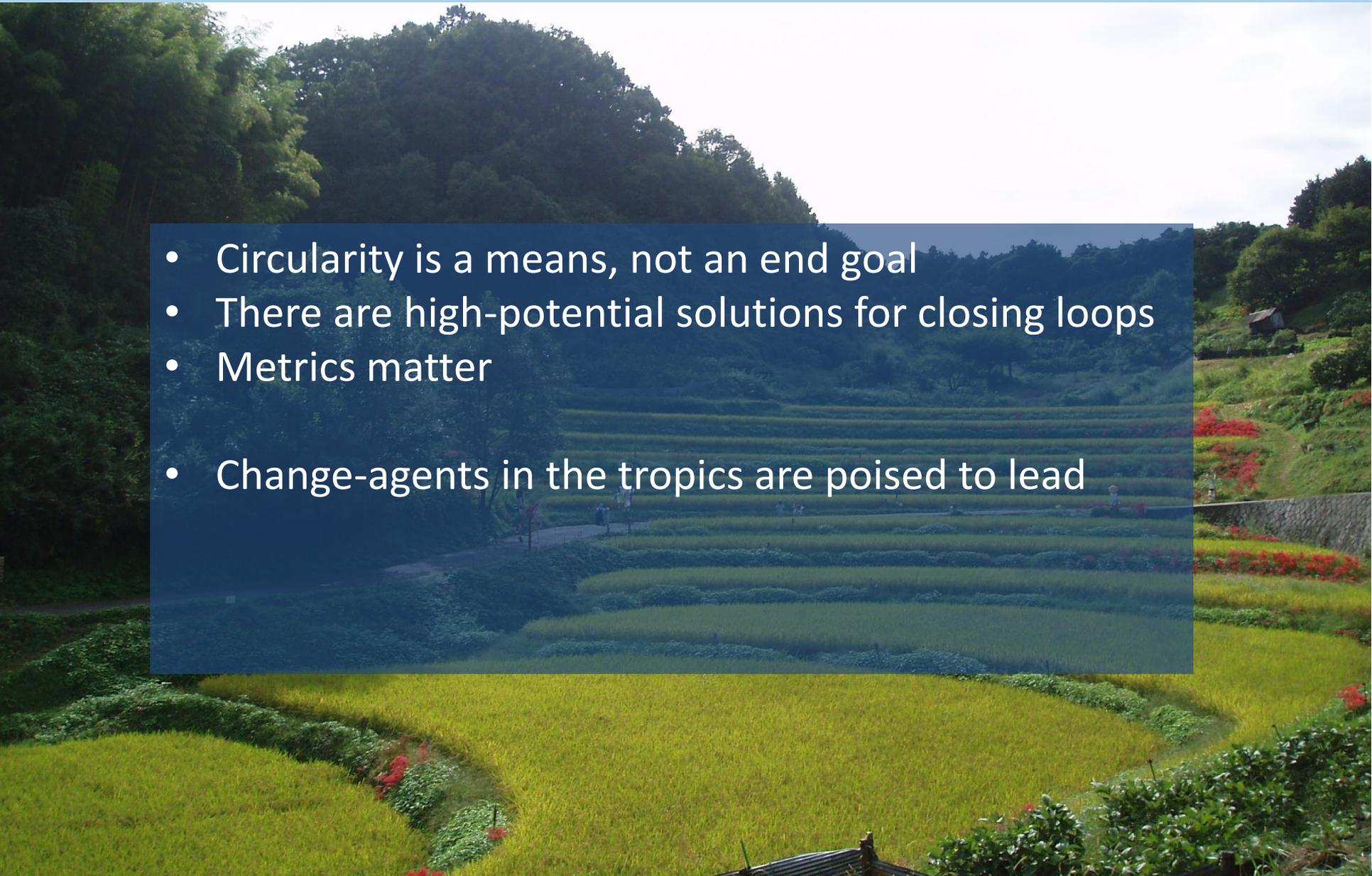




# Key messages



- Circularity is a means, not an end goal
- There are high-potential solutions for closing loops
- Metrics matter
- Change-agents in the tropics are poised to lead





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