

Linking agricultural adaptation strategies and food security: evidence from West Africa

context

- low adaptive capacity and high exposure to natural and anthropogenic threats
- adaptation strategies are widely promoted, their impact on food security is unknown.

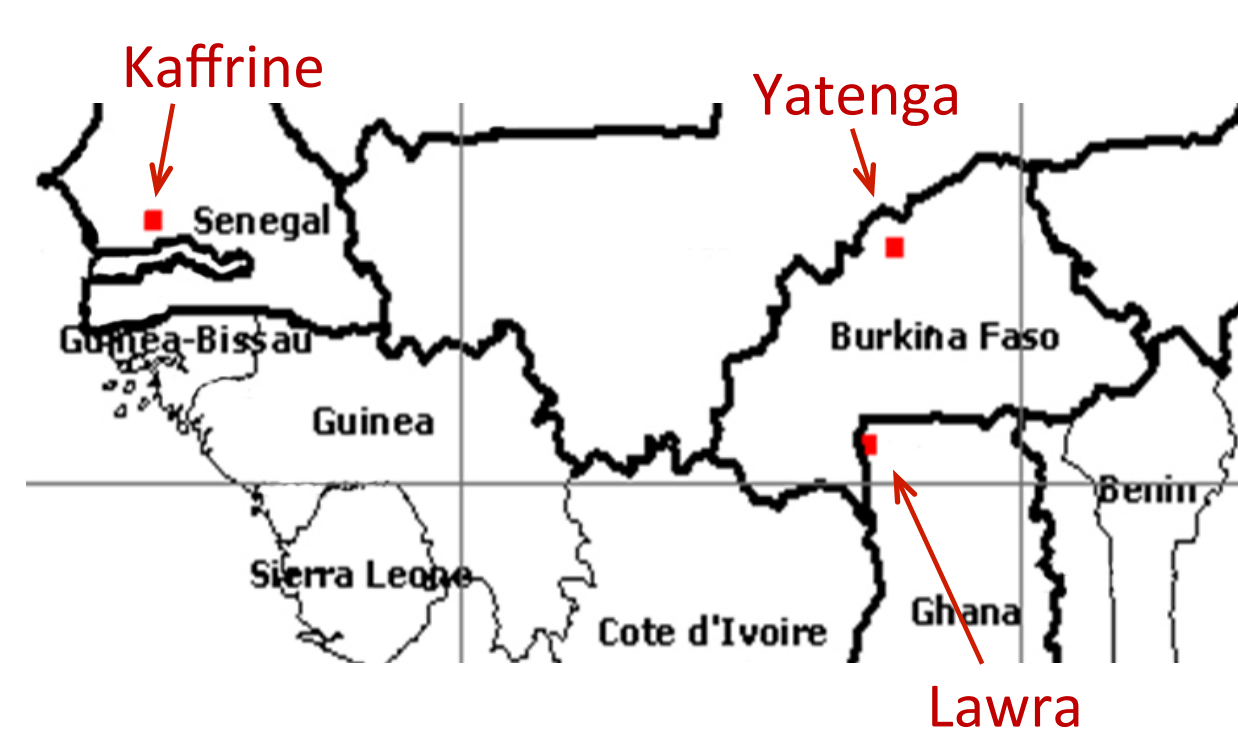
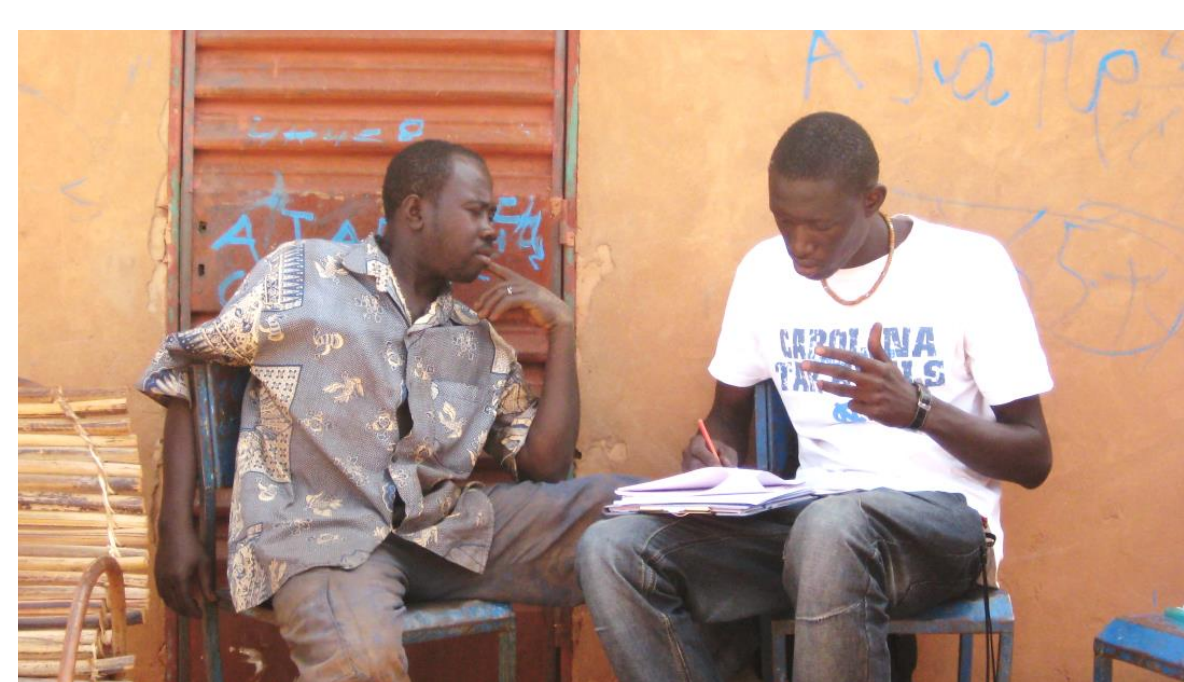
aims



- to define food secure and food insecure household profiles
- to assess the current levels of adoption of adaptation strategies at household level and identify the drivers of adoption
- to assess the impact of adaptation strategies on household level food security and land productivity

methods

- household survey: 200 households per site, 3 sites
- 'IMPACTlite' survey methodology and questionnaire



<https://cgspace.cgiar.org/handle/10568/10203>
<http://data.ilri.org/portal/dataset?q=IMPACT+Lite>

adaptation strategies

- soil and water conservation
- agroforestry
- small ruminants
- crop diversity
- dry season vegetable production
- improved crop varieties
- mineral fertilizer



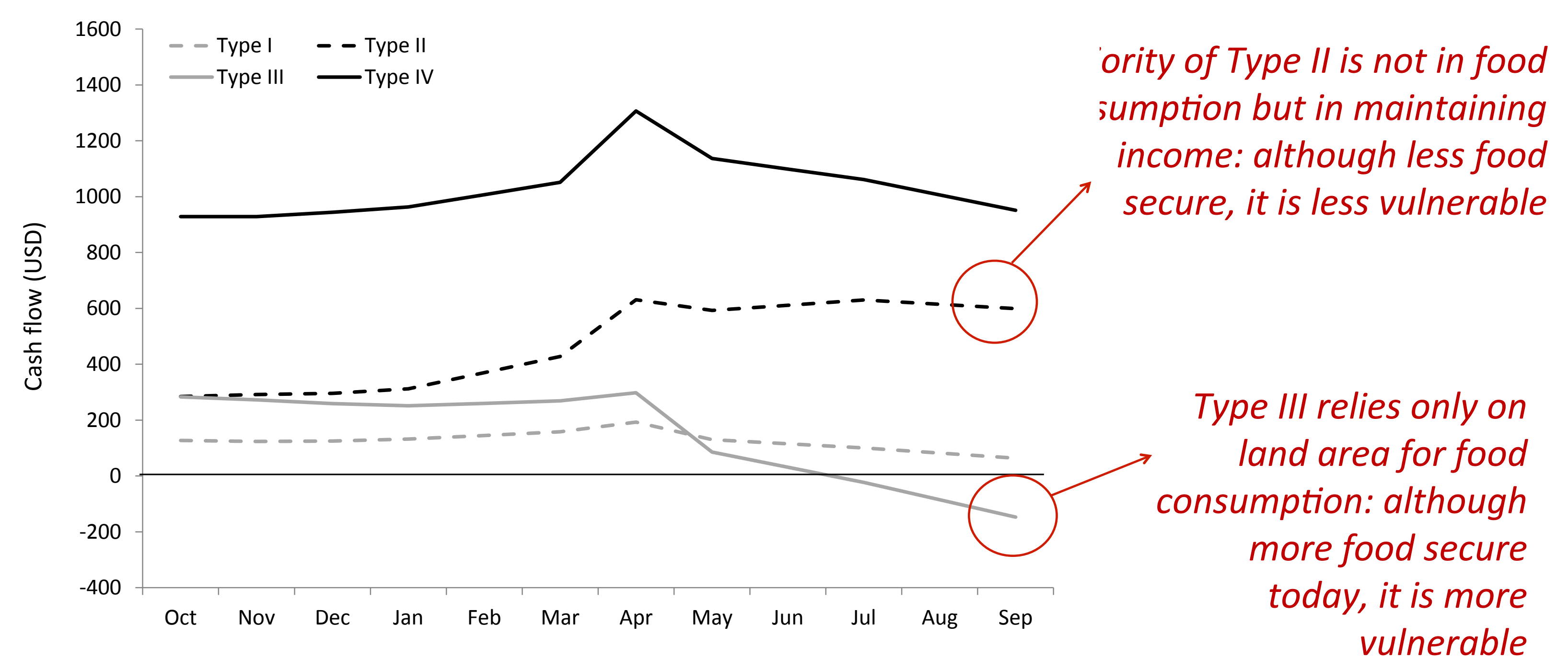
results

- as land area per capita ↓, ↑ food security = ↑ land productivity

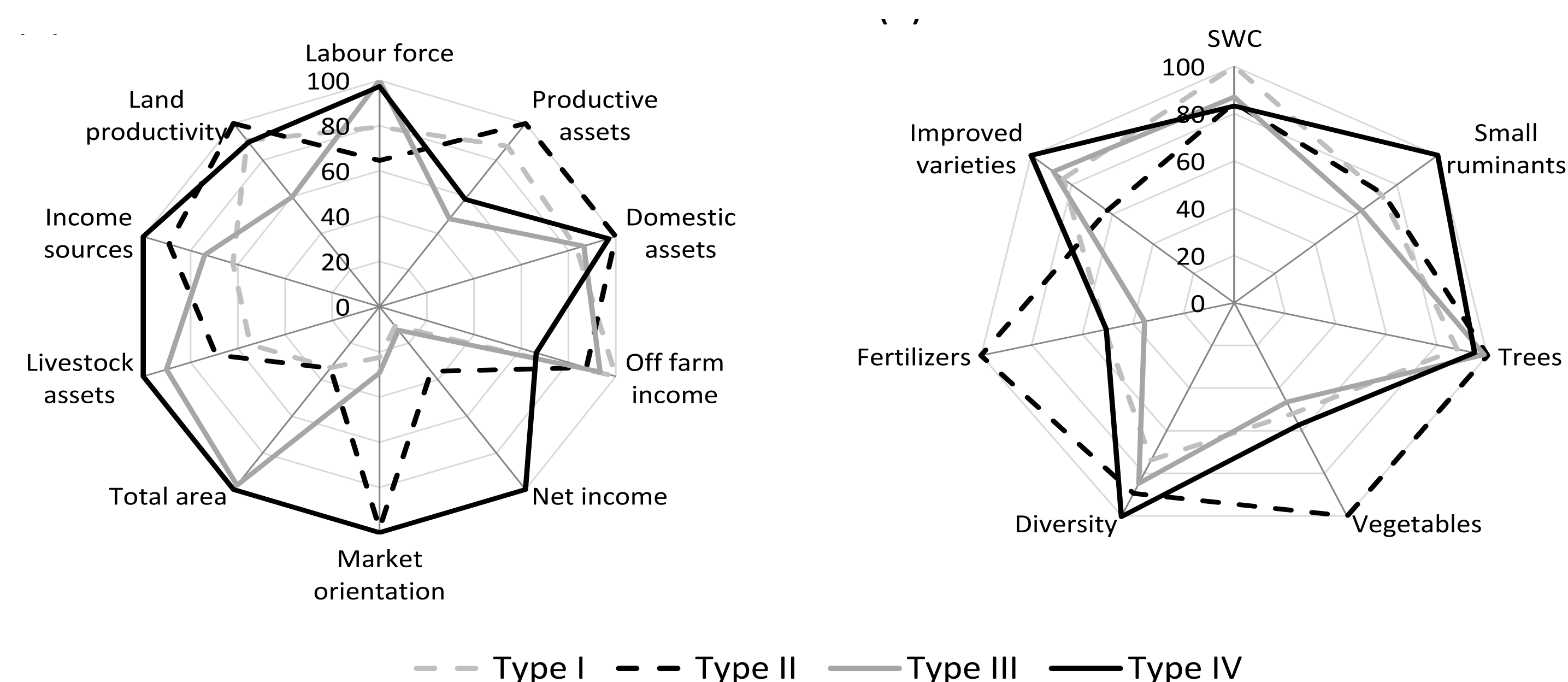
- four household types:

	I Subsistence	II Diversified	III Extensive	IV Intensified
Food security	26 %	34 %	55 %	60 %
Land area per cap.	small	small	large	large
Market orientation	low	high	low	high

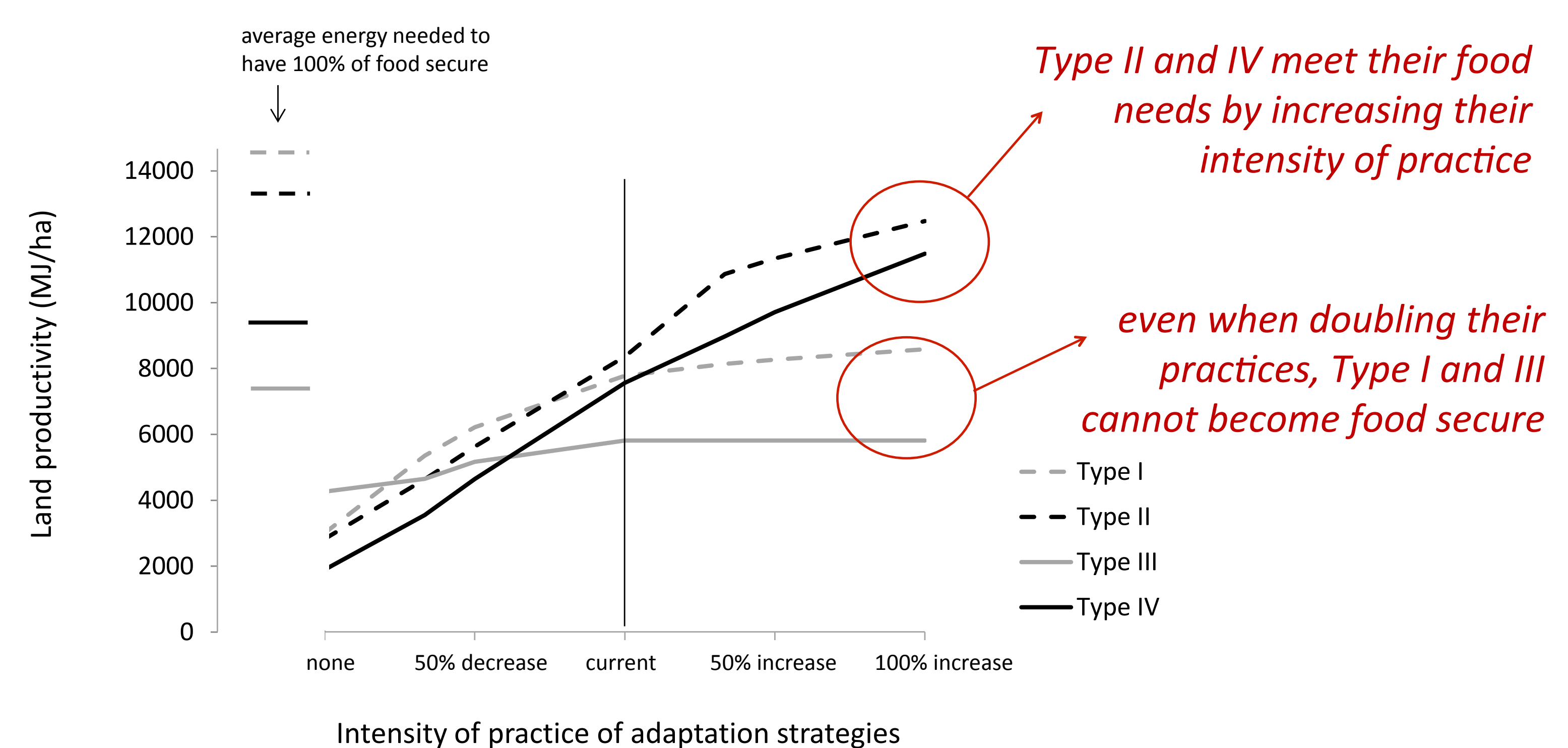
- contrasting coping strategies for contrasting types:



- characteristics and intensity of practice of adaptation strategies:



- adoption of adaptation strategies can improve the food security status of some household types, but not all:



conclusions

- no one-size-fits-all solutions: different farm types = different 'climate-smart' adaptation strategies
- farm typology = a good entry point to analyse which practices should be targeted to which type of farmers
- quantification of the effect of adaptation strategies on household food security → scale out practices to reduce vulnerability

