

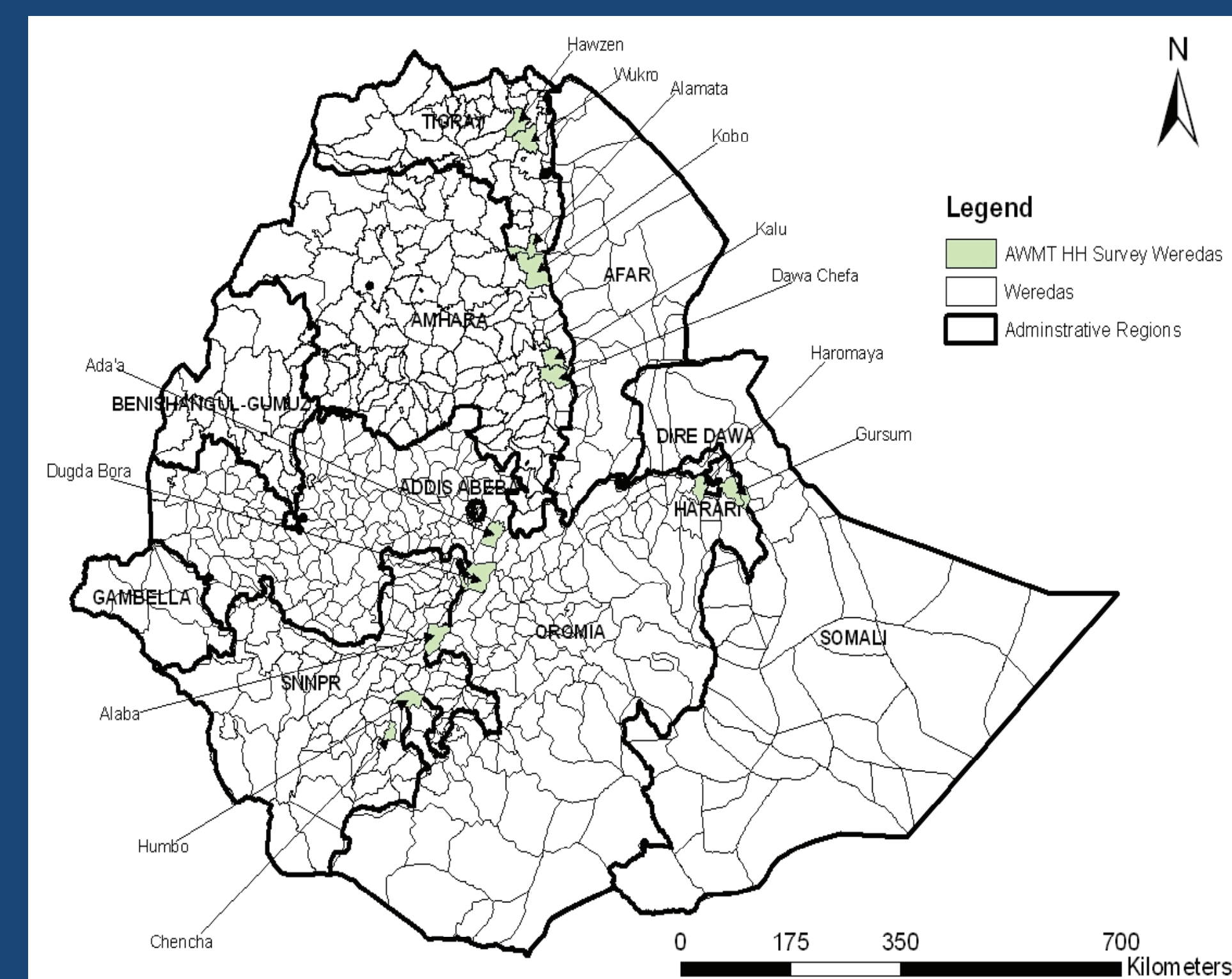
Determinants of Adoption and Successful use of Agricultural Water Management Technologies: Case of Ethiopia

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Introduction

- Remains unclear whether such technologies lend themselves easily to adoption and how successfully such technologies are utilized by smallholder farmers.
- The objectives of this study are:
 - to assess the economics of water controls; to understand the factors that influence adoption and successful use.

Study site



Conclusions

- All water control structures are financially viable; the main issue is institutionalizing cost recovery.
- The marginal productivities of farm inputs is positive
- Adoption and successful use is influenced by socio-economic, environmental and institutional factors.

Objectives



Analytical approach

- Net Present Values
- Stochastic frontier analysis - C-Douglas production function
- Estimation of MVPs
- Probit model and
- Heckman and Deaton models

Recommendations

- increase/expand extension coverage including FTCs is necessary.
- Improved market access conditions such as improved access roads, transportation and storage facilities
- Promoting educational access can enhance the use of these technologies .

Increasing the land area allotted to irrigated annuals and increased supply of seeds and accessories is required.

Choice of specific technologies that increase water availability has a lot of bearing in the success of AWMTs.