| | | WAGENINGENUR | | | | | | | | |
|--|---|---|---|---|--|--|--|--|--|--|
| A CONTRACTOR | | Dr. Claire Vos | A systematic review on adaptation strategies to climate change in support of | | | | | | | |
| Dr. Elen Prof. Mark Rou | | Wageningen UR, Alterra Landscape Centre | p | policy and decision-making in temperate regions. | | | | | | |
| School of GeoSciences The University of Edinburgh Drummond street Edinburgh EH 8 9XP South and the strengt UK | | NL-6700 AA Wageningen The Netherlands | BACKGROUND: Mitigation has been society's main response to climate change. Despite the ongoing debate around it, namely the types of action, their necessity and effectiveness, there is now increasing evidence to support that some climate change duced or natural will continue, despite the mitigation efforts. Such evidence suggests that adaptation is inevitable, emphasising the | | | | | | | |
| ekarali@staffmail.e | ed.ac.uk | need for research | and policy-making to focus | on this field, especially in developed countries where adaptation action has been limited until recently. | | | | | | |
| Adapta | tion w | I remain largely an autonomous process. However, there are concerns that it will not be optimal unless it is supported by cross-sectoral plans. | | | | | | | | |
| | | nesis of climate change adaptation measures that have been applied or will be applied in cool temperate areas, in the sectors of agriculture, water agement and nature management. | | | | | | | | |
| Метн | METHODOLOGICAL & ANALYTIC APPROACH: Systematic literature review, Content analysis and Classification | | | | | | | | | |
| | I. Literature search | | | III. Literature selection III. Classification framework | | | | | | |
| Literat | ure: Pe | er-reviewed journals | (original research and reviews) | Selection criteria: Articles' relevancy to the scope of the review | | | | | | |
| Database: ISI Web of Knowledge (all databases) | | | | Location of the study area Manufactured | | | | | | |
| • Time s | span: Al | ll years | | Financial Financial | | | | | | |
| Keywords: Combinations of Climate change, Adaptation, Agriculture, Water management, Nature management, temperate, Rural society, Adaptive Capacity & Rural society & CC, Farmer*, Institutional adaptation, Ecosystem Services, Adaptation measure, Regional adaptation | | | | | | | | | | |
| Prelin | 1INAR | y R esults | | | | | | | | |

| Human | Social | Manufactured | Financial | Natural | Climate change impacts |
|--------------------------------|-----------------------------|----------------|-------------------|--------------------|--------------------------|
| Nutritional manipulation | Policy-science interaction | Technology | Subsidies | Resources | Drought stress |
| Management practices | Policy-practice interaction | Infrastructure | Taxes | Ecosystem services | Heat stress |
| Management strategy | Knowledge transfer | | Insurance | | Floods |
| Allocation of resources | Social networks | | Market conditions | | Disease, pests and weeds |
| Synchronisation of activities | Technical assistance | | Prices | | Water pollution |
| Knowledge generation/ research | Policy making | | Investments | | Soil degradation |
| | Institutional reforms | | | | General or undefined |

CONCLUDING REMARKS: Systematic review offers a transparent and comparable method for literature searches. Possible disadvantages are the high demand in time. Other constraints are access to literature and language. Analysis indicated that greater emphasis has been placed on agriculture compare to the other two sectors. The majority of measures are linked to the manufactured and natural capitals. Adaptation will be challenged by sectoral and cross-sector tradeoffs.

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