

Integration

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Content

<i>Description work package</i>	1
1.1 Problem definition, aim and central research questions	1
1.2 Interdisciplinarity and coherence between the projects	2
1.3 Stakeholders	2

Description work package

1.1 Problem definition, aim and central research questions

To be useful for policymaking, the answers to the research questions in workpackages 1-4 and the different cases have to be combined and integrated.

This final workpackage will provide the handshake between the scientific results obtained in workpackage 1 to 4 (and the case studies) and the use of these in policy making on the local and national level. Therefore the results from the previous workpackages will be included in an integrated assessment of the need and possibilities of adaptation in Dutch cities. At the same time this workpackage integrates the information on regional climate scenarios from KfC theme 6 (“improving climate projections”) with the city data generated in this programme. A range of climate scenarios will thus be translated into scenarios describing impacts in cities, packages of adaptation measures and policy action needed for each of these. The resulting adaptation strategies resulting from the dynamics of climate change will be matched with information on the dynamics of cities. Information on urban renewal will show the windows of opportunity for integrating adaptation measures in urban processes. The analysis and review of the research information serves to support decision makers to evaluate possible actions and strategies.

Summarised: this workpackage brings together information on a suite of policy questions: how serious will climate change become for a city without any action?, what are the impacts (costs) on the urban system?, what would be an appropriate policy response in terms of measures and strategies?, how much would these cost?, and what and who is needed to implement them?, and when is the best time?

The activities in this work package come down to bringing the main outcomes of the research programme in a logical framework together and to provide estimates that fill gaps between individual research projects, so that the results of the work programme in total can be used for policy making. The most important piece of information in this respect are those data that help judging the multiple costs of taking action versus the expected impacts of doing nothing. Activities will be aimed at providing the best possible estimates for these, for individual neighbourhoods and for cities.

Work package 5: Integration

This workpackage will be conducted throughout the programme. A main delivery is an integrated view on the state of knowledge which will be delivered at a few moments throughout the running time of the project. Contrary to a cut-and-paste of individual project results, this will be an assessment placing the results achieved at that time in the larger framework of the need and possibilities for adaptation. At the very end of the programme, of course, a full-fledged assessment can be given.

Ad hoc requests:

This workpackage includes as project 5.4 a reservation for ad-hoc requests of the stakeholders. In a four-year programme further research questions from the stakeholders may appear halfway, and we would like to reserve some capacity in the budget to deal with important new questions. The choice of research topics under the ad-hoc budget will be discussed with, and needs to be approved by the KfC steering committee of the programme.

Criteria for ad-hoc projects are:

- ▽ the question should have arisen after the start of the research programme,
- ▽ the question should fit within the general scope of the research programme,
- ▽ it must be a restricted (in scope, time and budget) research project,
- ▽ the focus should be on the use of knowledge of the consortium, or the transfer of knowledge from the consortium
- ▽ the ad hoc budget is not for general consultancy for the stakeholders.

The budget for ad hoc requests is intended for work in year 2, 3 or 4 of the programme.

1.2 Interdisciplinarity and coherence between the projects

All partners in the consortium will contribute to the assessment, ensuring that maximum use is made of the multidisciplinary experience gathered.

Project 5.1 is the main engine in this workpackage. It will provide the integration between future climate projections with expected impacts, and the adaptation measures and strategies needed to prevent these. Project 5.2 supports the information engine (project 5.1) and the report production (project 5.3) with tools and frameworks. It ensures the consistency of outcomes through these projects.

Finally the results of the whole research programme will be reported in an integral way in project 5.3, that relies on inputs from 5.1 and 5.2.

The University of Manchester will assist in collating the findings of the research programme in order to build adaptation plans on a variety of scales. As many of the projects of the University of Manchester have a strong stakeholder component and use case study exemplars, the experience of the University in stakeholder processes will be a useful support to this workpackage.

1.3 Stakeholders

This workpackage has been specifically developed to provide decision makers with timely, targeted and relevant information. Stakeholders are decision makers, and those who advise them, at local, regional and

Work package 5: Integration

national level. Specifically: the municipalities, housing corporations, waterboards, and provinces related to the hotspots and the other cities involved in the proposed research programme. On the national level, the ministry of VROM (housing and environment) is the most important stakeholder. It is expected that the stakeholders will actively contribute in workpackage 5 through participating in science policy interface workshops in which - in interaction with science - most likely adaptation options and strategies are developed for a range of scenarios for future climate change.