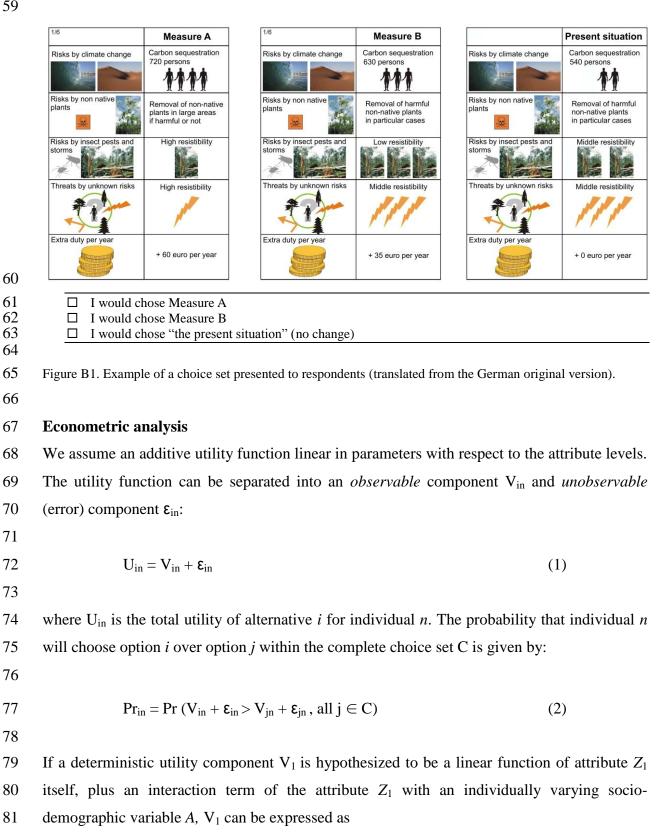
Appendix B: Details of scenario benefit calculations



$$V_1(Z_1, A) = c_A * Z_1 * A + c_1 * Z_1$$
(3)

with c_A : utility coefficient of the interaction term. In the econometrically estimated utility models, a positive sign of the coefficients c indicate a positive influence of the respective term 87 on choices, and thus on utility. To reduce collinearity between the interaction term and the 88 non-interacted attribute term, the socio-demographic variable A can be standardized before 89 multiplied with Z_1 . The vector of utility coefficients is usually estimated with maximum 90 likelihood estimation techniques. Usually the estimated choice models include an alternative 91 specific constant (ASC) that picks up systematic difference in choice patterns between the 92 three choice cards. The ASC was coded 'zero' for cards A and B, and '1' for the Status Quo 93 option (*Status Quo*-ASC).

94 Preliminary analyses unveiled a risk of violation of the independence from irrelevant alternatives (IIA) assumption necessary for the application of the (simple) Conditional Logit 95 96 model. Thus, Nested Logit models (NL) were used that partially relax the IIA assumption 97 (Train 1998, Hensher et al. 2005:518). Suitable NL model structures were identified, and the 98 corresponding models estimated with NLOGIT 3.0. The inclusive value was set to 1.0 for the 99 degenerated branch, and the model initiated with starting values obtained from a non-nested 100 NL model (Hensher et al. 2005:530). All scale parameters were normalized at the lowest level 101 (RU1).