

ELICITATION RECORD – Part 3

Elicitation by Extension

Elicitation title	As in the Part 1 form
Session	As in the Part 1 form
Date	As in the Part 1 form
Quantities	<p>The target quantity and the extension variable.</p> <p>[This SHELF 3 template is for elicitation of a distribution for the target quantity by conditioning on the extension variable. It also delivers the joint distribution of the two quantities and so may be used for multivariate elicitation.</p> <p>Only rather broad annotations are given here because the details depend very much on the nature of X and Y – continuous or discrete, univariate (single quantities) or multivariate. For these details refer to the SHELF advice document “Extension”.]</p>
Anonymity	Record here the codes that will be used to identify experts in this template. For instance, “In this record, experts are identified by letters A, B, C and the facilitator by Z.”
Start time	Time when this part of the elicitation started

Definition	Repeat the definitions of the quantities from Part 1. Give them symbols to facilitate the recording of judgements about them. The target quantity will be called X in these notes. The extension variable will be denoted by Y.
Evidence	Review the evidence relating to X and how its value might be influenced by Y. Record here the key points.
Extension variable distribution	<p>Record here the marginal distribution of Y.</p> <p>[The distribution of Y is needed and should be elicited at this point if it has not already been elicited.</p> <p>This will typically mean the use of a SHELF 2 template but further guidance will be found in the advice document “Extension”.]</p>
Conditioning points	<p>Record here the particular values of Y conditional on which judgements about X will be elicited.</p> <p>[Recommended conditioning points are the 5th and 95th percentiles, median and quartiles of the distribution of Y.]</p>
Target quantity distributions	Elicit and record here the conditional distributions of X given the possible values of Y.

	[The process here depends very much on the nature of X and Y, particularly whether they are discrete or continuous. See the SHELF advice document “Extension”.]
Feedback	<p>Feedback given to the experts should be recorded here, together with any discussion. If the experts are uncomfortable with any of the feedback, it may be necessary to revisit earlier judgements and iterate until the experts approve the revised feedback, recording all such judgements here.</p> <p>[Two kinds of feedback should be given.</p> <p>First, the conditional distributions of X for several values of Y can be plotted together to show how the distribution evolves with Y. Similarly, the conditional median and quartiles/tertiles might be plotted against Y. Such plots and computations help the experts to see and assess the conditional distributions.</p> <p>Second, it is important for them also to see and assess the implied marginal distribution of X. It is computed by combining the elicited distribution of Y with the conditional distributions of X given Y, but in general, the result is not a simple distribution. Guidance on computing and expressing the elicited distribution of X can be found in the “Extension” document.]</p>
Chosen distribution	Record here the elicited distributions for Y and for X given values of Y. Summarise the implied marginal distribution of X.
Discussion	The facilitator should now record any difficulties that arose during the elicitation. Also record the experts' reactions to the process and to the final elicited distributions.

End time	Time when elicitation of this distribution was completed.
Attachments	Attach records of any subsidiary elicitation (of distributions for Y and for X given particular values of Y) that were performed in the course of this elicitation.