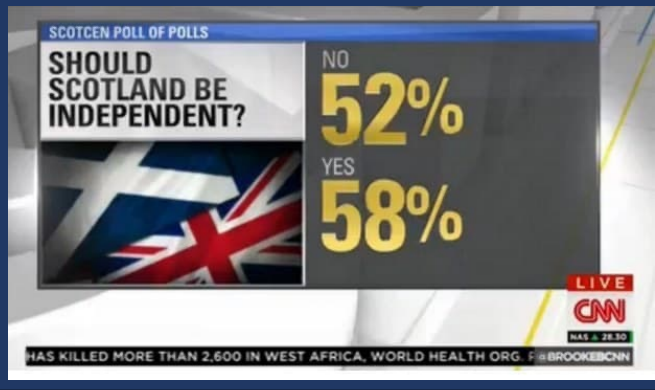


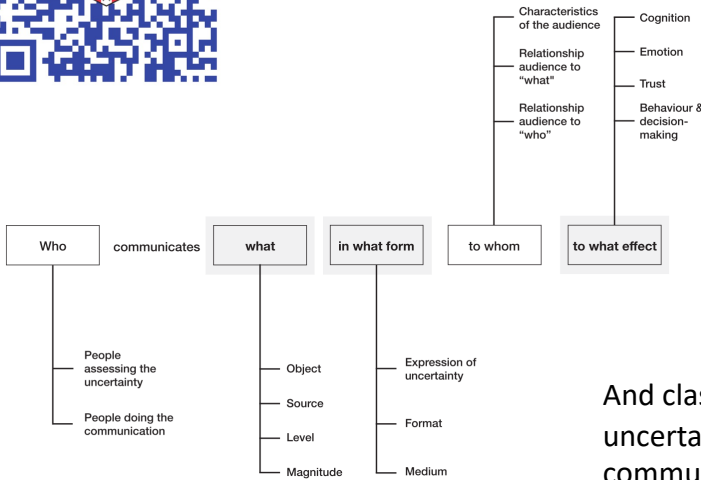
We're not always certain of our numbers...



How do our audiences feel about us communicating our uncertainties?



There are so many elements to studying the communication of uncertainty. We started by constructing a framework to think about all the moving parts:



And classifying ways in which uncertainties are often communicated:

Decreasing precision

- i. A full explicit probability distribution
- ii. A summary of a distribution
- iii. A rounded number, range or an order-of-magnitude assessment
- iv. A predefined categorisation of uncertainty
- v. A qualifying verbal statement
- vi. A list of possibilities or scenarios
- vii. Informally mentioning the existence of uncertainty
- viii. No mention of uncertainty
- ix. Explicit denial that uncertainty exists

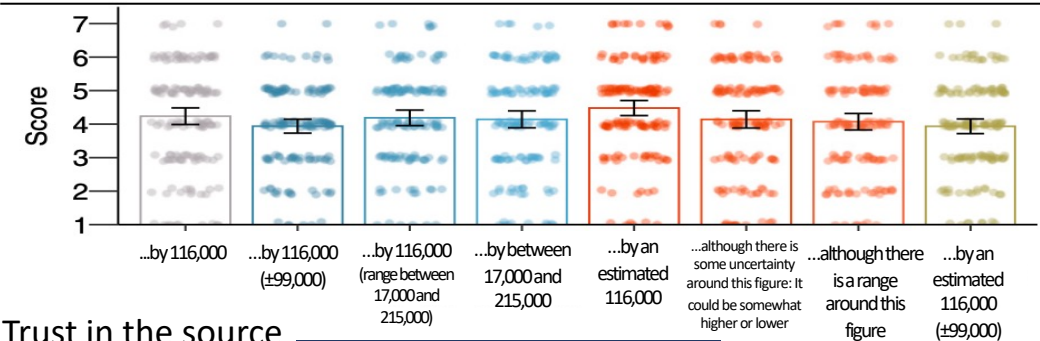
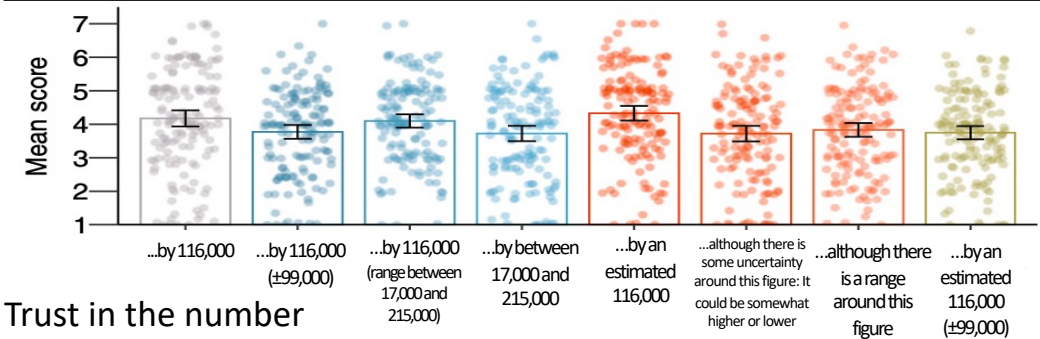
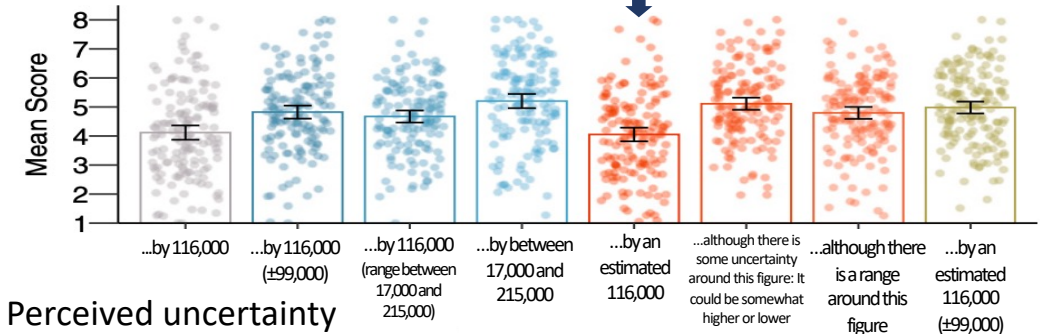


In a series of experiments, we looked at how communicating uncertainty through words and numerical ranges affected people's feelings of the uncertainty and trustworthiness of numbers, and of the communicators/producers of the numbers.



For example, in one experiment we showed different people a variation on the sentence "Official figures from the first quarter of 2018 show that UK unemployment fell by 116,000 compared with the same period last year."

"estimated" alone doesn't communicate uncertainty!



None affected trust in the source

Trust in the source