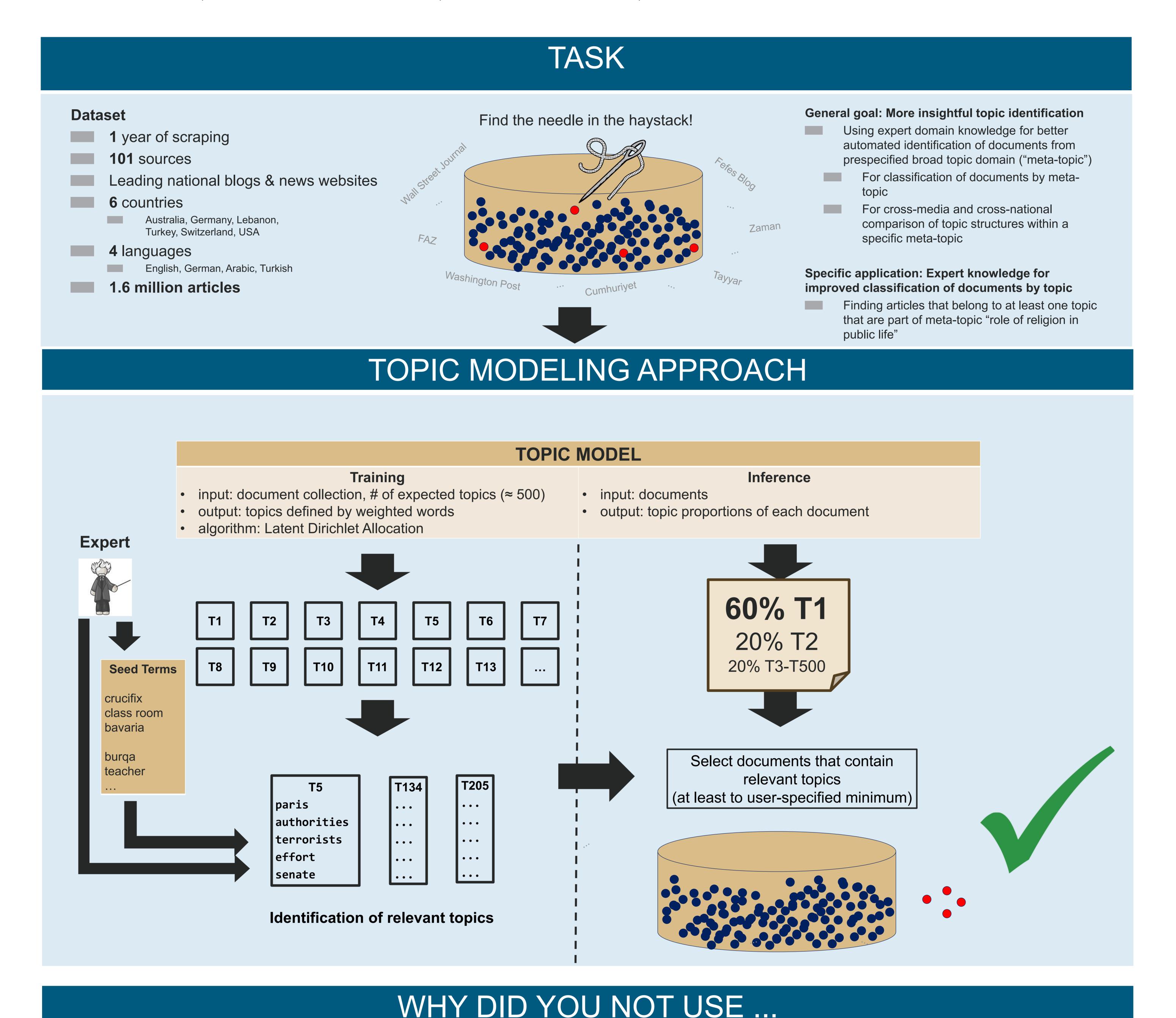
Big Data Research as Interaction between Topic Models and Expert Data: A New Approach to Capturing National Online Debates



Cäcilia Zirn, Eike Mark Rinke, Charlotte Löb, & Hartmut Wessler



Information Retrieval Seed-based LDA **Crowd Sourcing Machine Learning** Clustering high cognitive effort coders must follow no training data presumptions about expert-generated list of required to comprehend available relevant items probably expected issues bias complex instructions irrelevant classes not complete clusters topic creation and and decide carefully collecting all possible words can be assigned might limitate results difficult to scale to unknown search terms not feasible to a single cluster only millions of documents classes (relevant vs. requires comprehensive issue irrelevant) unbalanced (though they might be requires preexisting (synonyms, domain knowledge relevant for several (seed) list paraphrases) difficult to verify coding topics) quality with extremely only single meaning per word can be used few positive codes

