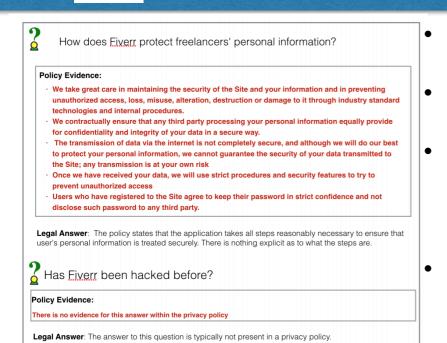
Challenges in Automated Question Answering for Privacy Policies

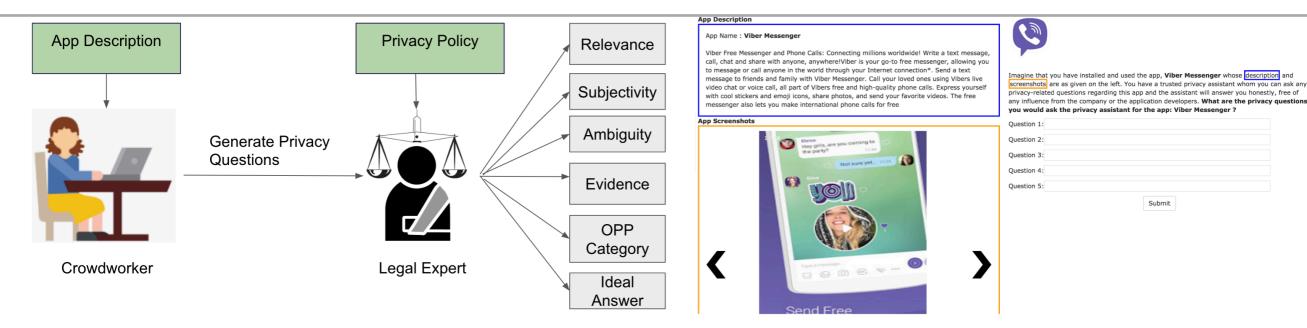


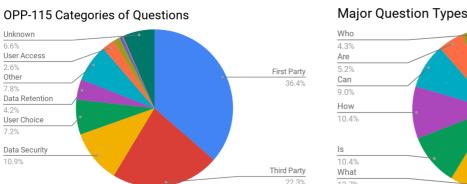
Abhilasha Ravichander¹, Alan Black¹, Eduard Hovy¹, Joel Reidenberg², N. Cameron Russell² and Norman Sadeh¹ USABLE **PRIVACY** ORG 1. Carnegie Mellon University 2. Fordham University

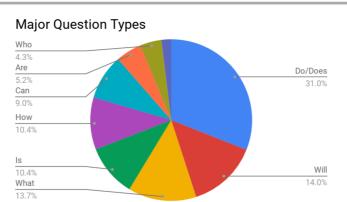


Privacy policies are long and complex documents that are difficult for users to understand.

- We would like to empower users to inform themselves about the issues that matter to them, and enable them to selectively explore these issues.
- We explore the kinds of questions users might pose to a privacy questionanswering system. This analysis is informed by a crowdsourced study, the first of its kind, that elicits questions from crowdworkers about the contents of privacy policies.
- We analyze 1350 questions posed by crowdworkers for the privacy policies of 27 mobile applications, and identify several considerations to inform the design of future systems.







Privacy Practice	NA Model	Human
First Party Collection/Use	24.65%	67.09 %
Third Party Sharing/Collection	6.93%	60.63 %
Data Security	35.29%	87.2 %
Data Retention	0%	79.87 %
User Access, Edit and Deletion	0%	53.06 %
User Choice/Control	46.3%	64.71 %
Other	89.06%	84.06 %
International and Specific Audiences	0%	100.0 %
No Agreement	76.19%	78.29 %

- Policies are underspecified Users are incognizant of
- what questions are "good".
 Determining a users intent may be a process of
- may be a process of discovery for both the user and the assistant.
- Privacy assistant answers need to be both helpful and legally accurate.