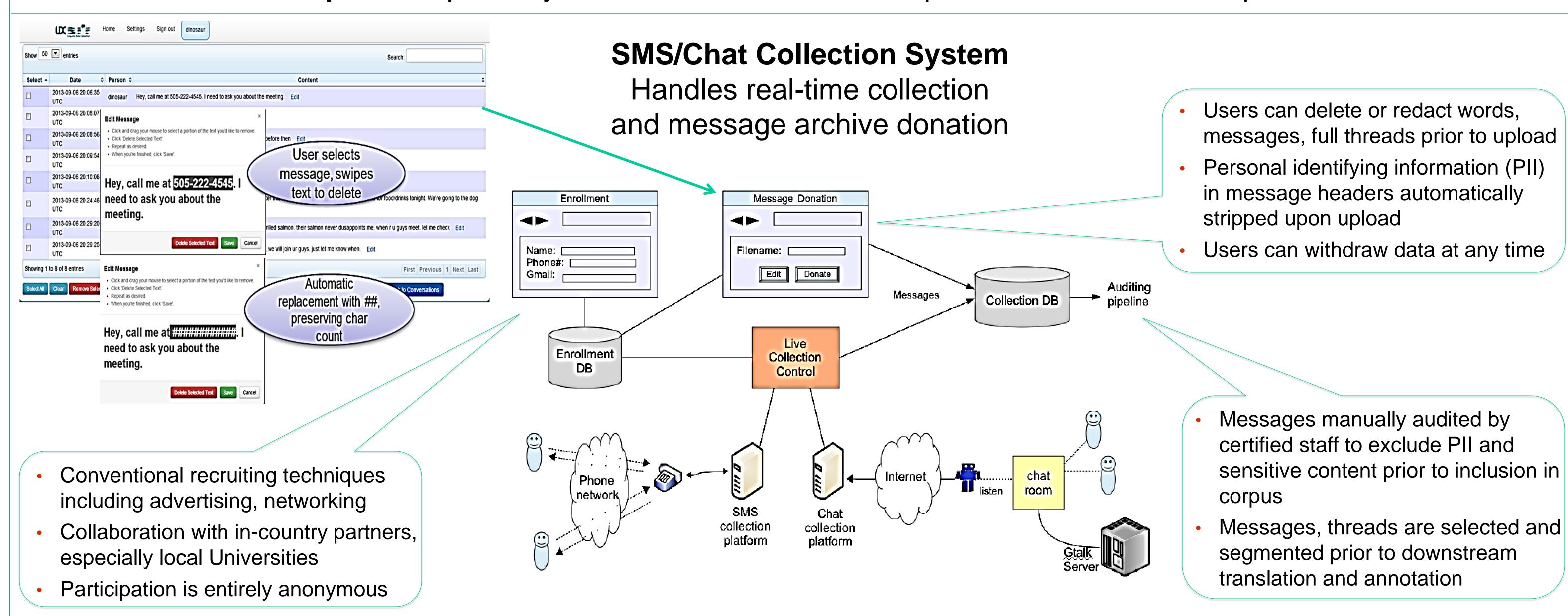
Collecting Natural SMS & Chat Conversations in Multiple Languages: BOLT Phase 2 Corpus



- Z. Song, S. Strassel, H. Lee, K. Walker, J. Wright, J. Garland, D. Fore, B. Gainor, P. Cabe, T. Thomas, B. Callahan, A. Sawyer
- The Broad Operational Language Translation (BOLT) Program is developing technology that enables English
 speakers to retrieve and understand information from informal foreign language sources including chat, text
 messaging (SMS) and spoken conversation
- BOLT Phase 2 SMS/Chat Collection Requirements
 - Multilingual: English, Chinese, Egyptian Arabic
 - Large volume: at least 2 million words/language
 - Conversational: naturally-occurring, two-way, informal SMS and chat messages
- Prior SMS/Chat Corpora are primarily one-sided conversations or public chat room transcripts with limited content

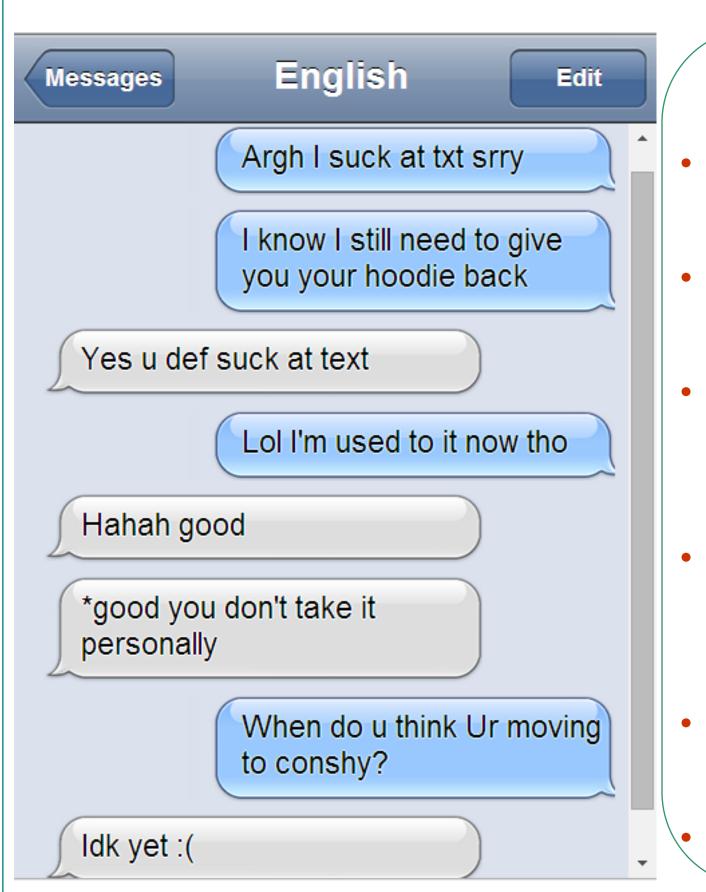


Collection Result

Language	Active	Collect Words	Audit Pass Rate	Final Words	Final Msgs	Final Convs	Avg Messages/ Conv	Avg Words/ Message	Avg Words/ Conv	Avg Words/ User
Egyptian	26	690K	69%	475K	119,00	2140	56	4	222	48,051
Chinese	77	3.7M	54%	2M	306,99	7844	39	7	255	21,710
English	152	3.3M	79%	2.6M	212,000	9155	23	12	284	27,600
Total/ Average	255	7.69M	67%	5.075M	212,000	19,139	39.33	7.67	253.67	32453.67

Language		llection ethod	Genre		
Lariguage	Live	Donation	SMS	Chat	
Egyptian	4%	96%	39%	61%	
Chinese	1%	99%	4%	96%	
English	6%	94%	94%	6%	

Linguistic Features of Collected Data



General Features

Natural and conversational

- Internet slang and novel abbreviations
- Nonstandard use or complete absence of punctuation
- Frequent typographical errors, misspellings and missing spaces
- Widespread use of simple and complex initialismsPrevalent pro-drop

(你最近回来纽约吗?小周的茶叶还在这里呢会来) 一个一个人,单位嫌以前的太大,需要换个单室套

Arabic Features

- Code mixing, neologisms
- Multiple orthographies
- 63% Arabizi
- 13% Arabic
- 24% Mixed
- Arabizi data semiautomatically transliterated into Arabic script for use in BOLT
 - Joint work with Arabic Dialect Group at Columbia University

