Andreas Olligschlaeger Catalina Vajiac cvajiac@cs.cmu.edu

Yifei Li

Pratheeksha Nair

Meng-Chieh Lee

FIGHTING HUMAN TRAFFICKING

THROUGH VISUALIZATION Carnegie Mellon MARINUS ANALYTICS University

Georgia

Namyong Park

Reihaneh Rabbany

Duen-Horng Chau

Christos Faloutsos

Human Trafficking (HT) for forced sexual exploitation affects over 4.8 million people world-wide and the majority of victims are advertised online. HT detection algorithms look for clusters of similarly phrased ads, indicating that one controller is writing ads for multiple victims.

TrafficVis is an interactive application for domain experts to visually inspect suspicious clusters and label their likelihood to be HT or another organized activity (i.e. spam, scam, massage parlors).

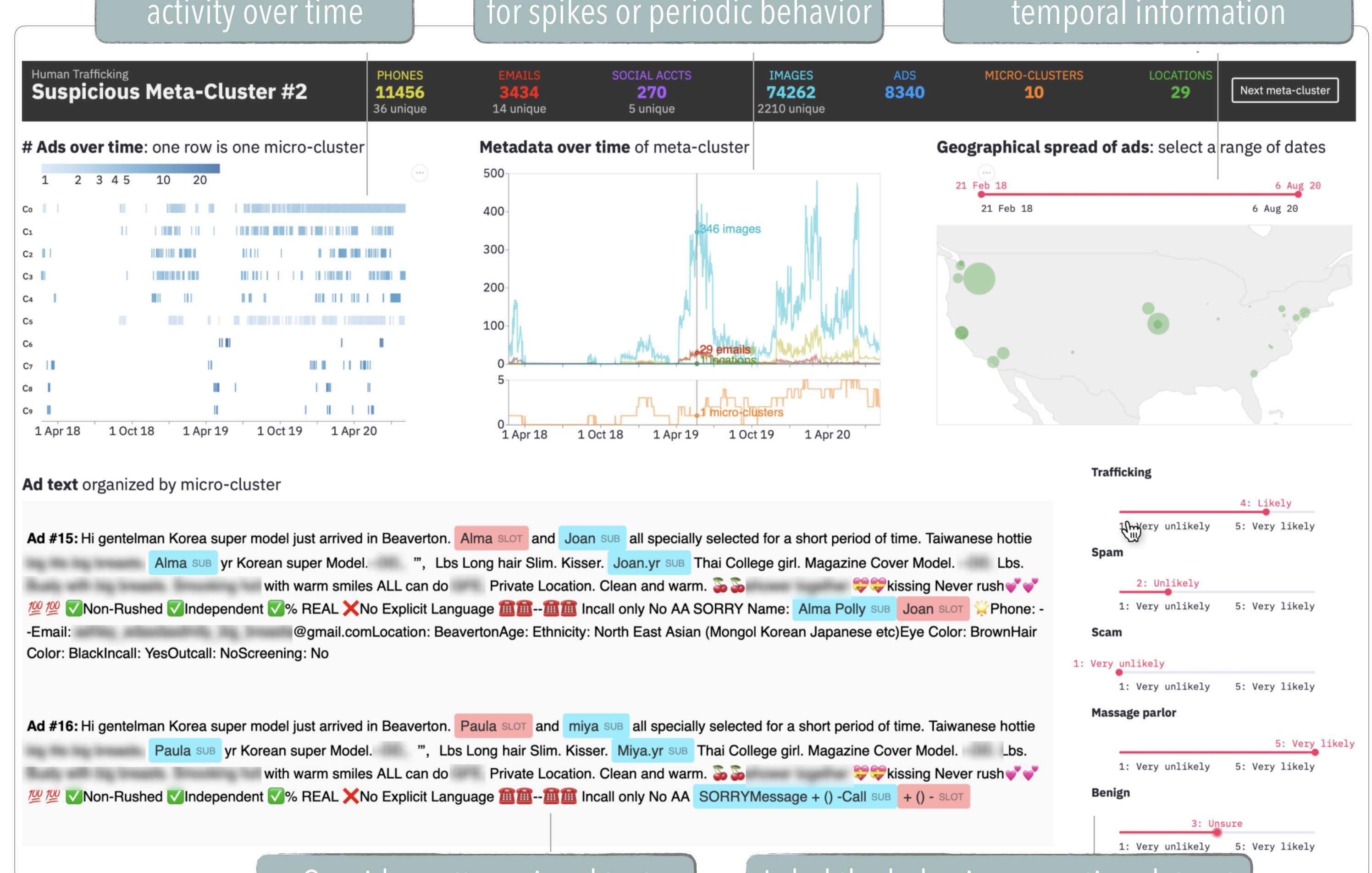






View text cluster activity over time

Inspect metadata over time for spikes or periodic behavior Look for hot spots in patiotemporal information



Consider patterns in ad text with highlighted differences Label the behavior – curating dataset for future algorithm development

Ongoing Work

➤ Perform user study ➤ Curate high-quality labeled dataset ➤ Release TrafficVis to domain experts