We are continually evolving to ensure that we stay ahead of threats and are prepared to address DHS’ current and future mission challenges.

Yosry A. Barsoum, VP and Director of HSSEDI
**Strengthen Preparedness and Resilience Through Social Media**
When natural disasters such as hurricanes and floods strike, HSSEDI’s data analytics team is ready. Within hours they are monitoring social media posts around the clock for requests for help, issues with critical infrastructure facilities, and public health concerns. The team forwards urgent requests for help made by victims to federal and state government agencies. It also alerts agencies to potential situations such as plant explosions due to loss of power.

**Counter Terrorism and Homeland Threats via Data Analytics**
HSSEDI’s data analytics team has developed a dashboard tool that government, law enforcement agencies, and non-governmental organizations can deploy to thwart transnational organized crime such as the trafficking of humans, drugs, and weapons. In Ohio, these analytics, which came out of our Hermes Research project, led to the arrest of an opioid dealer. During the weeks before and after the 2020 Super Bowl, they directly resulted in the rescue of 23 human trafficking victims (including minors) and the arrest of a trafficker.

**Secure U.S. Borders and Sovereignty with New Surveillance Solution**
HSSEDI collaborated with the U.S. Border Patrol (USBP) to develop a new common operating picture (COP) solution for border surveillance. The COP will be deployed in Integrated Surveillance Towers along the Southwest Border by the end of FY21. This will significantly improve detection and tracking of southern border crossings and decrease response times for USBP agents.

**Protect Cyberspace and Critical Infrastructure from DNS Hijacking**
During the government shutdown in January 2019, DHS was alerted to a suspected state-sponsored Domain Name Service (DNS) hijacking campaign. DHS’ Cybersecurity and Infrastructure Security Agency contacted HSSEDI’s advanced analytics team to determine how U.S. government networks and domains might be impacted. DHS used the team’s data and analysis to inform its reporting about this campaign.

**Fight Misinformation about Elections and COVID-19**
Disinformation on social media can negatively impact our elections and COVID-19 response. A free, MITRE-developed application helps counter election and COVID-19 related misinformation. “Social See Something, Say Something,” or SQUINT™, offers a fast, reliable way for election and healthcare officials to report and correct bad information that appears on social media.