The IC’s mission -
“Seeing over the horizon in enough time to impact the outcome”
-Sue Gordon, Former Principal Deputy Director of National Intelligence

AI AND MACHINE LEARNING FOR NATIONAL SECURITY
Create actionable insights at machine speed for decision advantage

The investment gap
- Private Sector: $26B to $39B AI investment in 2016 (McKinsey)
- China: Goal to be world leader in AI by 2030 w/$150B AI industry; recently set up $5B AI fund; publishes more AI papers than any other country
- Russia: Leveraging AI for both political and military purposes – Putin “The country the wins the AI race, wins the world”

The collection capability and analysis gap
- D/NGA: By 2022, 1 Million times more GEOINT data – NTM evolution, commercial space, video. By 2037, will need 8 million analysts to keep up with projected GEOINT data
- SIGINT: By 2021, global IP traffic 3.3ZB/yr (up from 1.2ZB/yr in 2016); 3.5 networked devices per global capita
Expected outcome:

- To Counter the increasingly complex threat environment the IC must do more than collect data.
- AI has demonstrated superhuman techniques to augment the ability of collectors, analysts and producers of intelligence to interpret data and identify relevant patterns.
- The IC must reduce the gap between the vast amount of data in the world and our ability to optimize our limited human capital to exploit it.

Vision: To secure and maintain strategic competitive information advantage for the US Intelligence Community for the next decade through focused development and rapid adoption of AAA technologies.
CHALLENGES AND CONSIDERATIONS

- Authorities
- Adversarial Risk
- Training Data
- Tunability
- Interoperability
- Resiliency
- Documentation
LOOKING AHEAD TO 2035
QUESTIONS?