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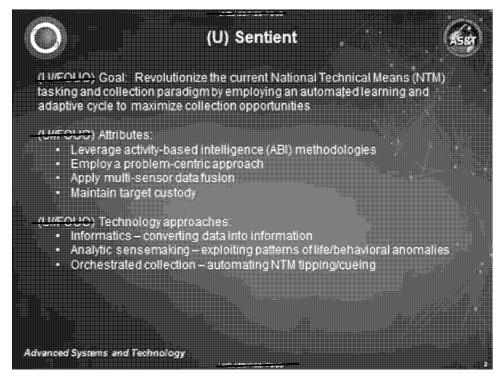
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Classified By:

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(<del>U//FOUO)</del> SENTIENT is an NRO/AS&T research and development (R&D) effort that aims to revolutionize the current single-source serial and linear intelligence process into a learning and adaptive cycle through activity-based intelligence (ABI) methodologies

(U//FOUO) Founded on a problem-centric approach that keeps R&D focused on intelligence application and relevance, SENTIENT employs analytic sensemaking, multi-intelligence fusion, and automated orchestrated collection to capture and maintain custody of dynamic targets and activities, delivering integrated intelligence

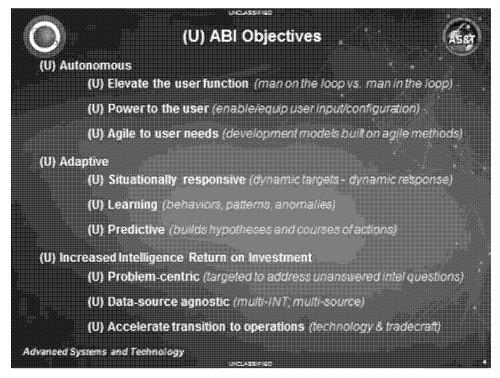
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(U) Sentient's Giant Leap Forward	(b)(1) (b)(3)
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(U) Current Sentient: Automated Tip and Cue	(b)(1) (b)(3)
(U) Today we live in a dynamic world – with dynamic foes with geographic boundaries are tightly prescribed tactics and tech	
new dynamic threats, we must adapt	(b)(3

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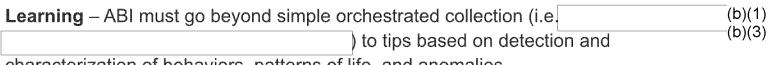
In order to continue to advance the NRO's current progress toward activity based intelligence, we must open our aperture beyond just the R&D effort called SENTIENT and embrace what is needed to truly scale and sustain ABI within the NRO and the IC. In this light, this slide addresses broad ABI objectives.

These ABI objectives address three important areas focused on the:

- -relationship between human and computer
- -adaptiveness of our intelligence process
- -increasing our return on investment

Highlighting one from each group -

**Man on the loop vs. man in the loop** –there will always be a role for the analyst, but in a way that doesn't drive unsupportable time lags into our ongoing endeavor to speed intelligence information to our users



characterization of behaviors, patterns of life, and anomalies.

**Data Source Agnostic** – There is a wealth of unexploited data from non-traditional that can be used to cue our NTM collectors. We must become data source agnostic.

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## ABI is a Team Sport.

The NRO Directorates listed are coming together in unprecedented ways to further ABI within the NRO. Although SENTIENT may have been a significant pathfinder for the NRO, it is important to note and get your support (as NRO representatives) that SENTIENT is merely the pathfinder for the operational transition of ABI that is already occurring through transition into GED's Future Ground Architecture.

Each Directorate listed (as well as our Functional Managers and IC Customers) have important roles to fill in order to truly scale and sustain ABI outside of the SENTIENT R&D effort.

AS&T is focused on partnering with GED to make NRO ABI within the Future Ground Architecture a reality and a success.

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(U) Timeline of R&D Progress  - (U) March 2013  - (U//FOUC) Aug 2014: - (U//FOUC) May 2015	(b)(1) (b)(3)
• (U// Aug 2016	
Advanced Systems and Technology	(b)(3)

(b)( <sup>2</sup> (b)( <sup>2</sup>	1)
	3)
This slide shows active ABI mission threads developed through the SENTIENT	
effort.	
Threads shown in <b>gold</b>	
	)(3)
CLICK – New in 2016 annotated by blue arrows  CLICK – New in 2017 annotated by yellow arrows	

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	(b) (b)	(1) (3)
This graphic pictorially represents our ABI Roadmap – showing	the shift toward:	