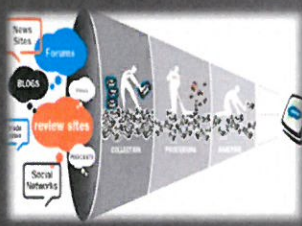


TLP Orange

13/10/2017

ASIS BeNeLux Fall Meeting - Mechelen




Intelligence-Led Security


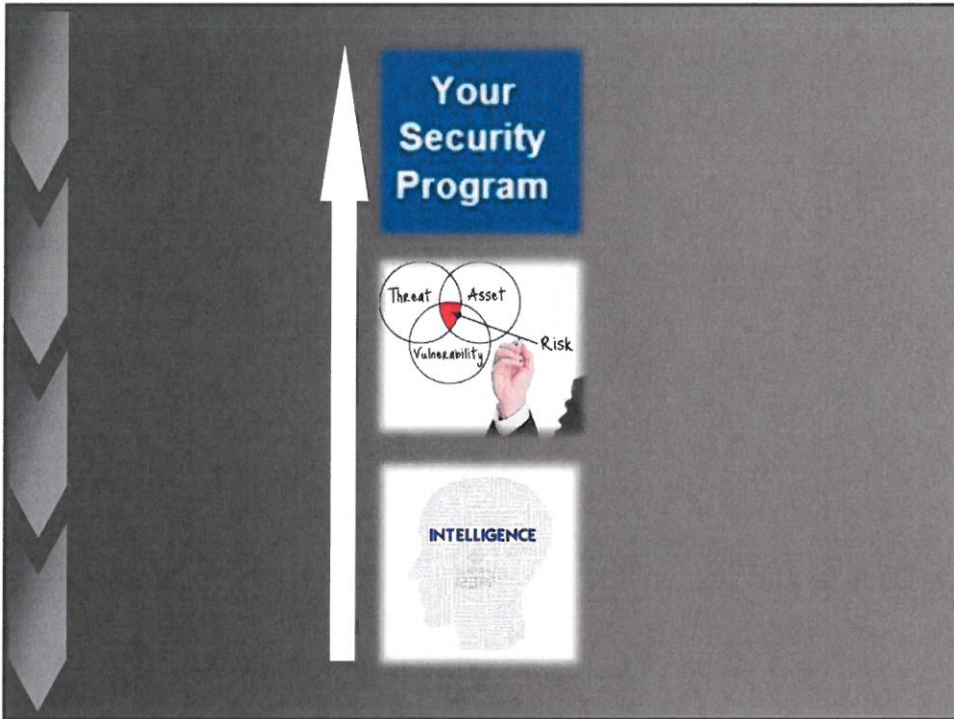
Defensive HUMINT, OSINT / SOCMINT and GOVINT in support of your security program

Stephan Van Hauwe
Managing Consultant
OpSec bvba

© 2017 OpSec bvba

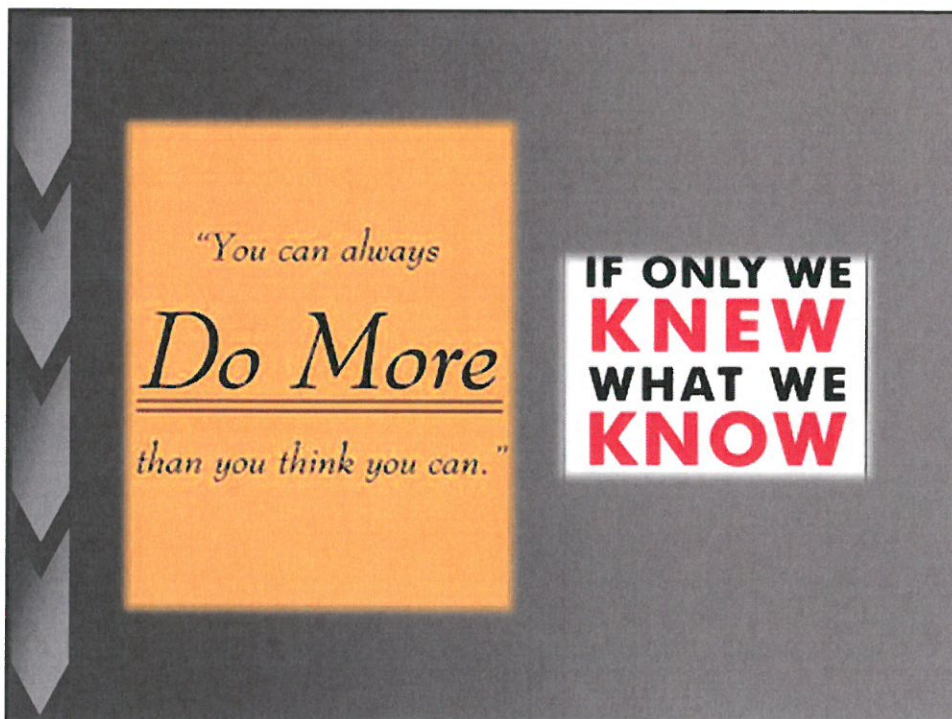


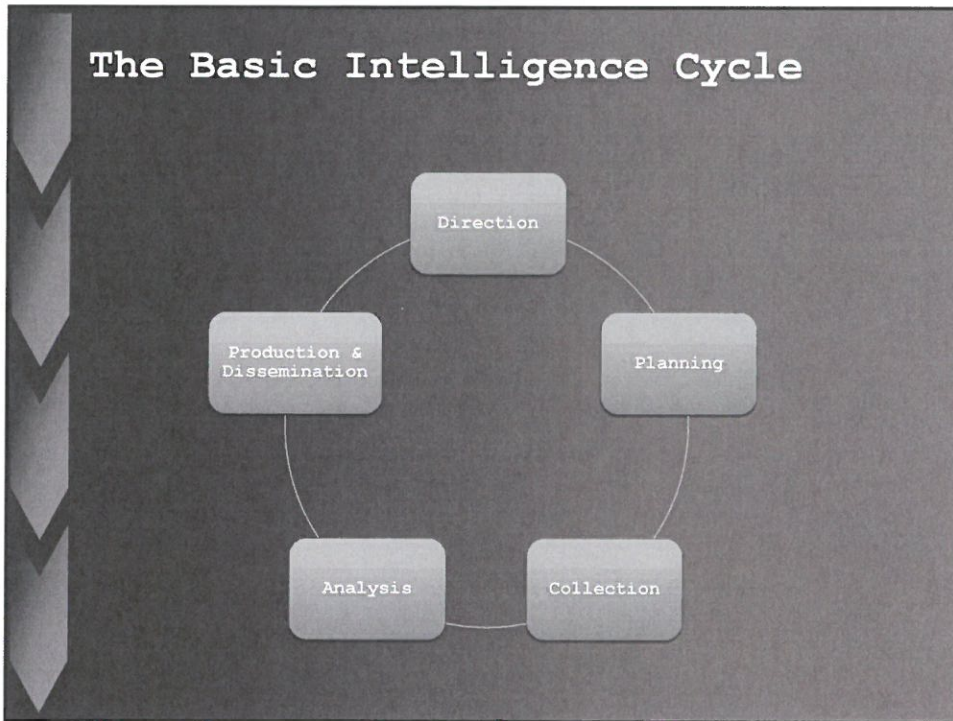
1. Who needs intelligence to support their overall threat/risk analysis and security program?
2. Who has a proactive and structural intelligence program?



Sun Tzu, The Art of War

"If you know the enemy and know yourself, you need not fear the result of a hundred battles. If you know yourself but not the enemy, for every victory gained you will also suffer a defeat. If you know neither the enemy nor yourself, you will succumb in every battle."





Intel sources for private companies and organisations

INTEL SOURCE

- 1. HUMINT → ~55%
 - 1. See - say
 - 2. Capture - analyse - register
- 2. OSINT & SOCMINT → ~25%
 - 1. Structural
 - 2. Puntual
- 3. SIGINT (ICT/CCTV/ACS/IDS) → 15%
- 4. COVINT → ~5%
 - 1. National / International
 - 2. Direct / Indirect

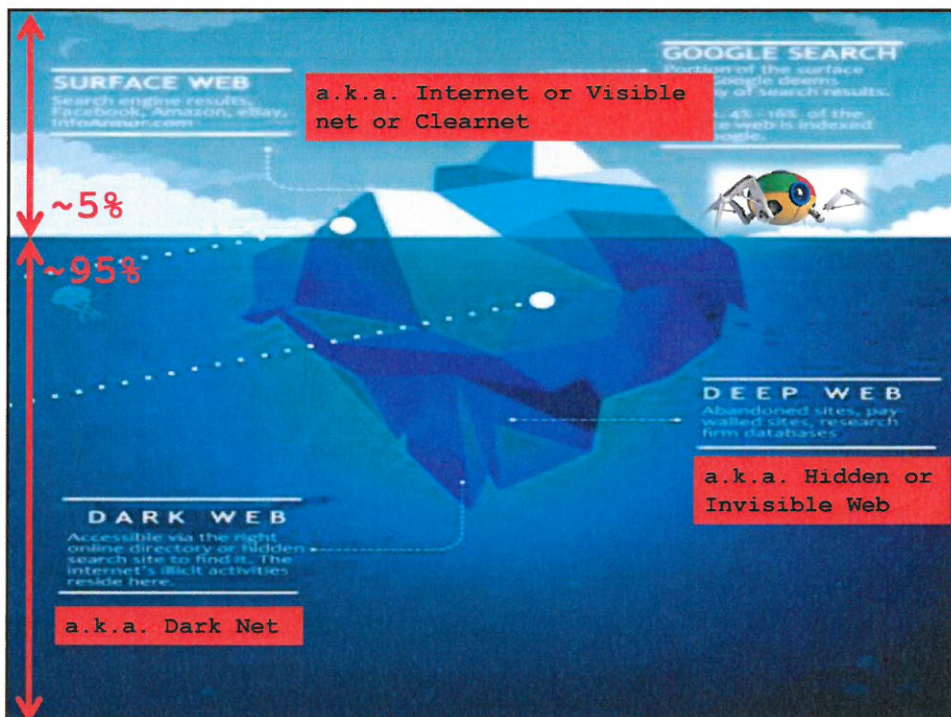
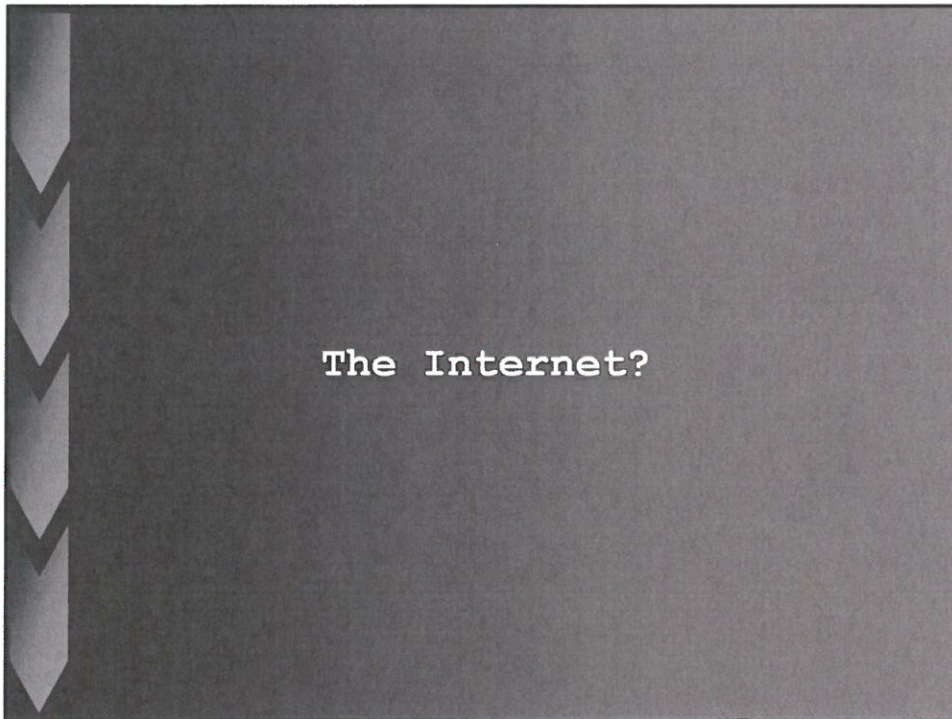
HUMINT

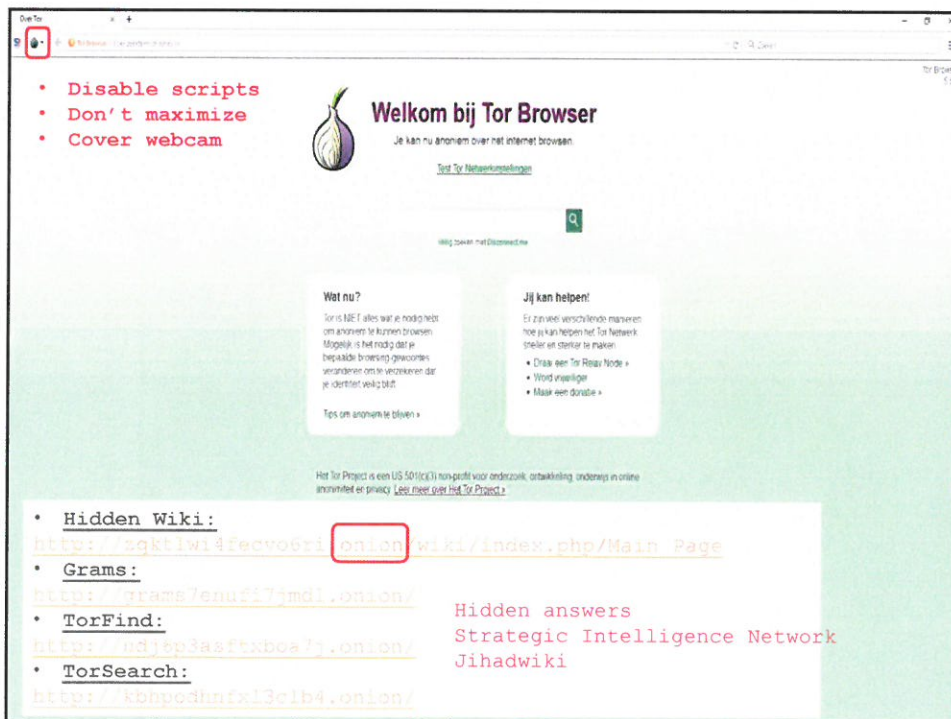
HUMINT network



- Population
- Dominant coalition
- Security

- Threat based
 - Indicator driven
 - See-Say
- Unlock a wealth of pertinent, durable and actionable intell
 - See "Strategic and Tactical Security Awareness" Network
- Dominant coalition
 - Internal
 - Professional
 - Guard reporting systems
 - Non-professional
 - Staff
 - External (Contractors, Visitors)
- Communication!!!
 - 360°
 - Registration - Analysis - Feedback
- TLP
- Time and energy consuming = high ROI



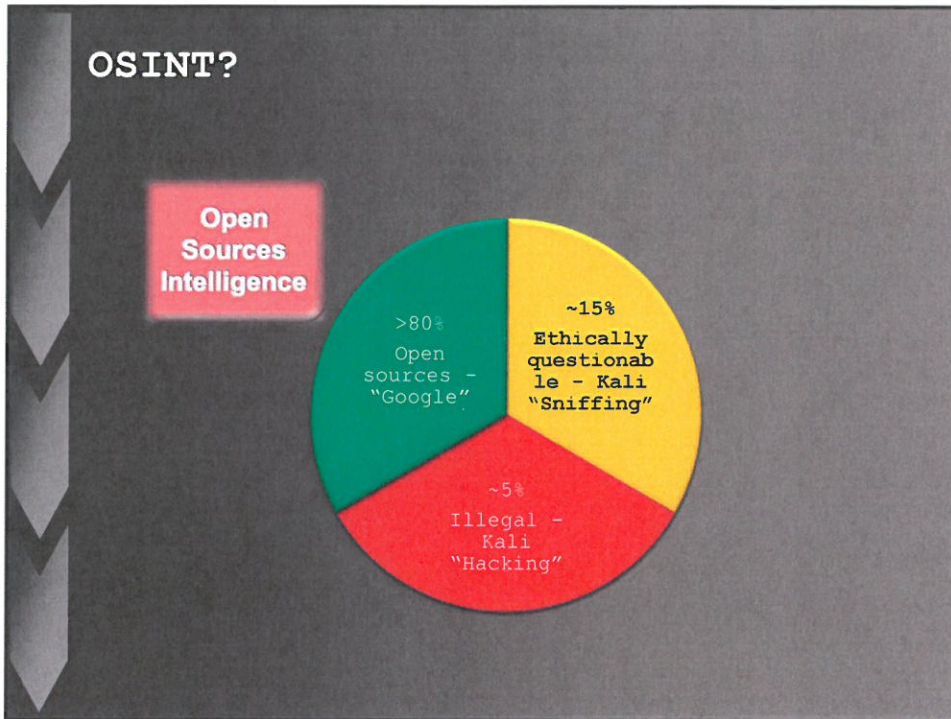


Value of data found on Dark Web



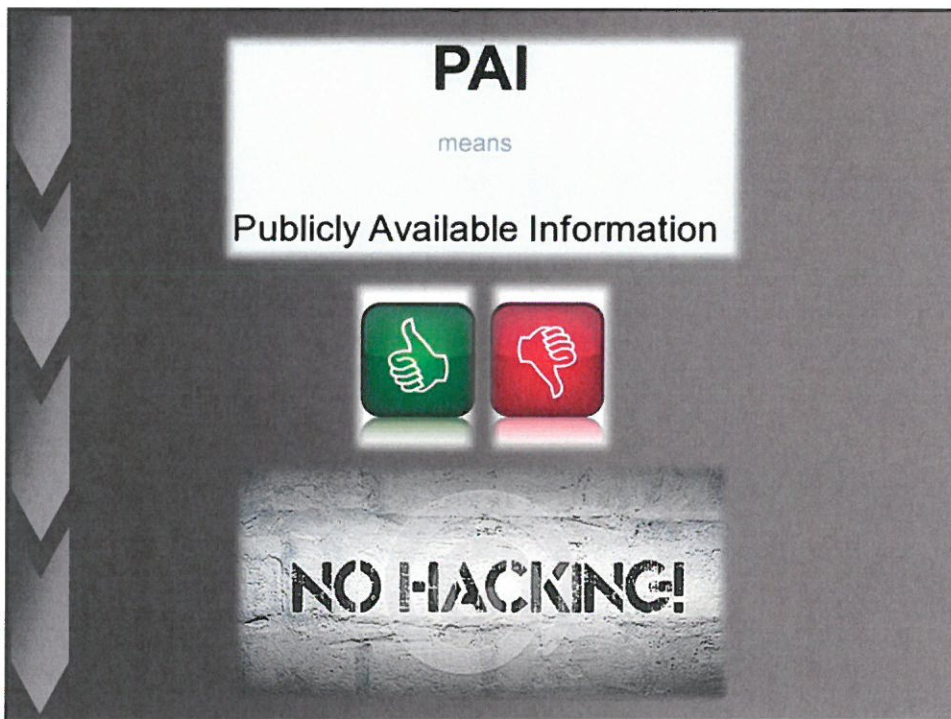
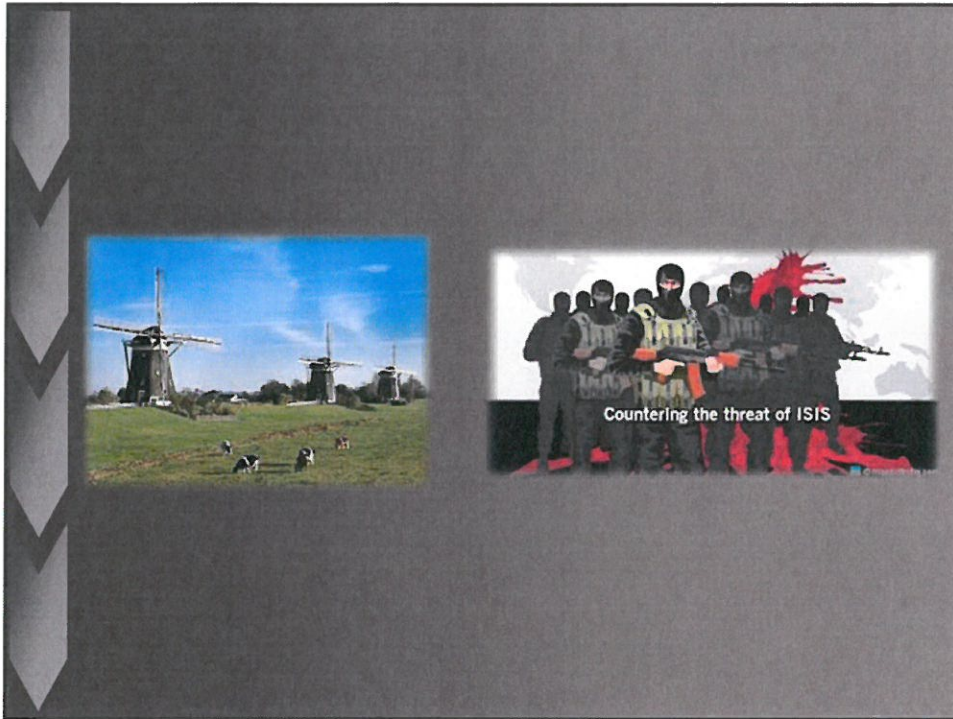
- Understand hacking tools and services
- Detect leaked intellectual property
- Prepare against planned attacks
- Identify and resolve breaches
- Remediate and analyze stolen credentials
 - Consumers
 - Business
- Minimize exposure to third party breaches

OSINT



A collage of images related to OSINT and mathematics. At the top left is the Google logo with search buttons. At the top right is a word cloud with a magnifying glass over the word 'PROFESSION'. At the bottom left is a multiplication table. At the bottom right is a graph of a function $y = f(x)$ showing a red chord between points A and B, with Δx and Δy labeled.

	1	2	3	4	5
1	1x1=1	2x1=2	3x1=3	4x1=4	5x1=5
2	2x2=4	3x2=6	4x2=8	5x2=10	
3	3x3=9	4x3=12	5x3=15		
4	4x4=16	5x4=20			
5	5x5=25				




"Ethical" Hacking ...




<https://www.kali.org/>

<https://www.youtube.com/watch?v=7nF2BAfWUEg>

Quid hacked/leaked information online?



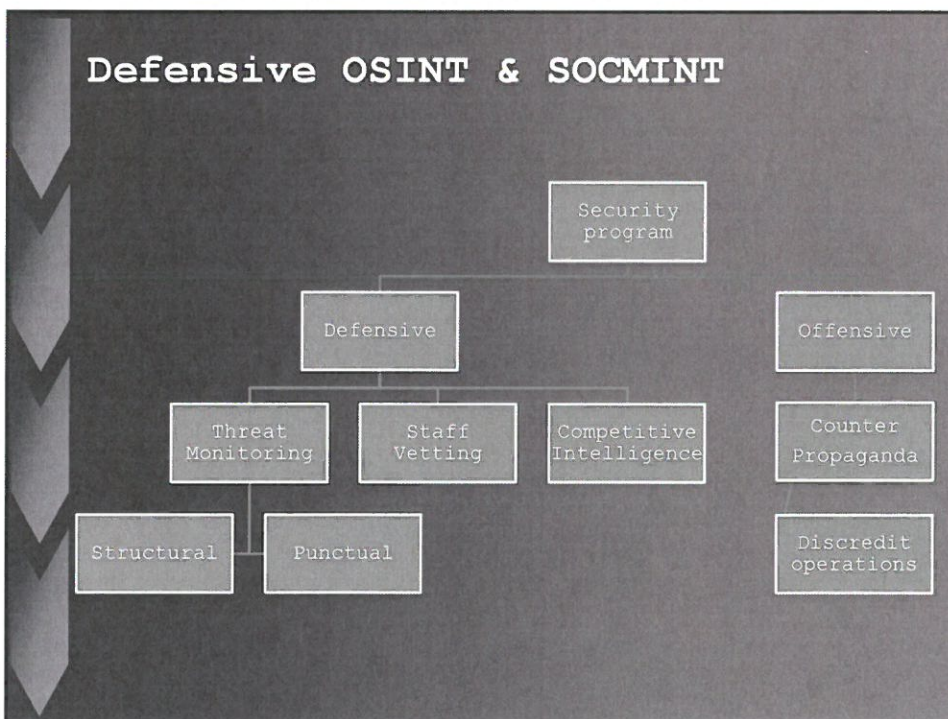
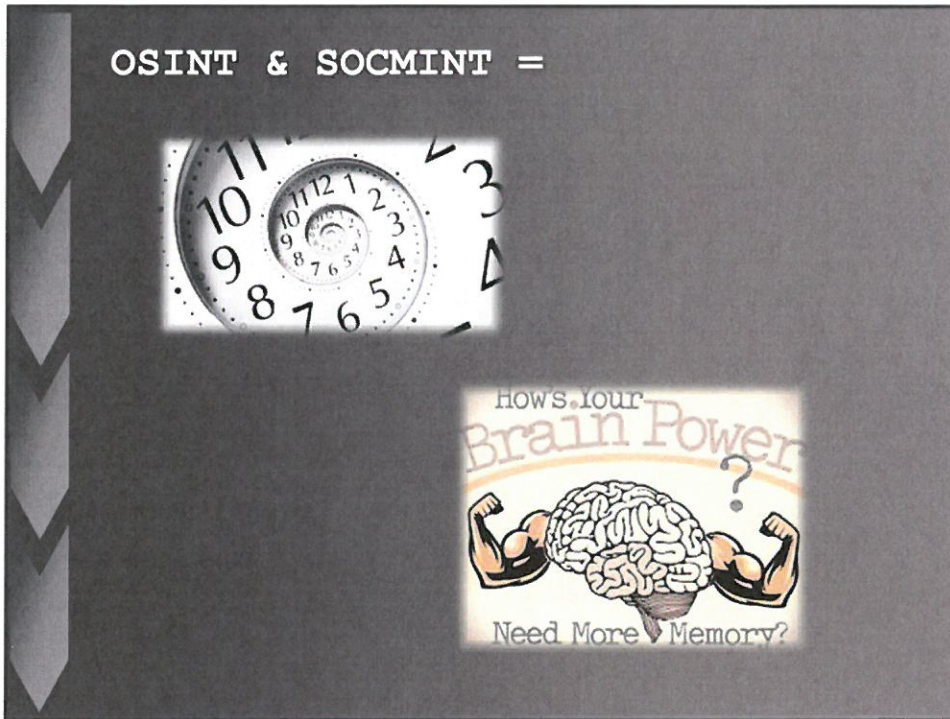
Financials?

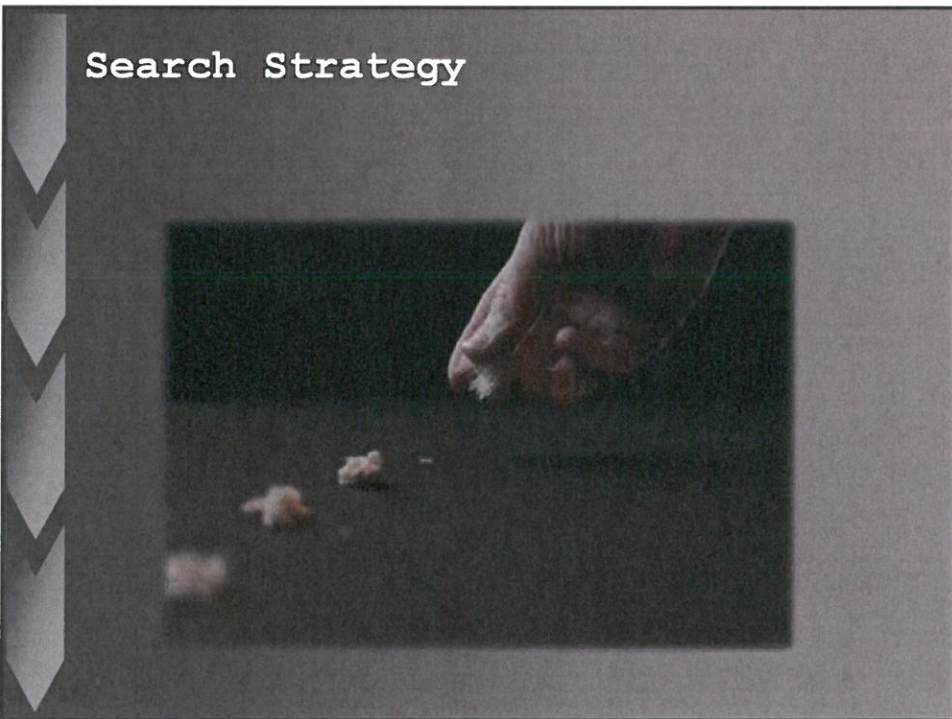


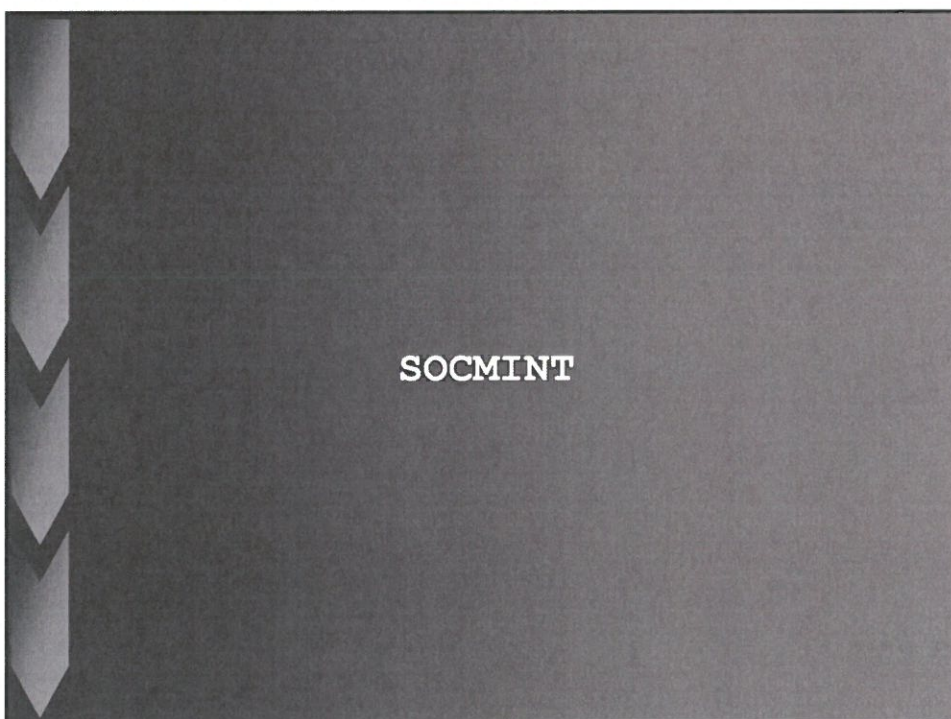
AGT International **IBM** **hp** **TrackingTeam** **CYBERBIT** PROTECTING A NEW DIMENSION **FINFISHER** IT INTRUSION

Attention

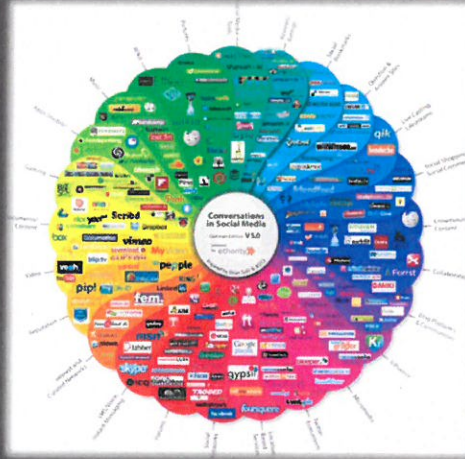








Social Media



Ensure - alternative - user accounts on principle
social media tools

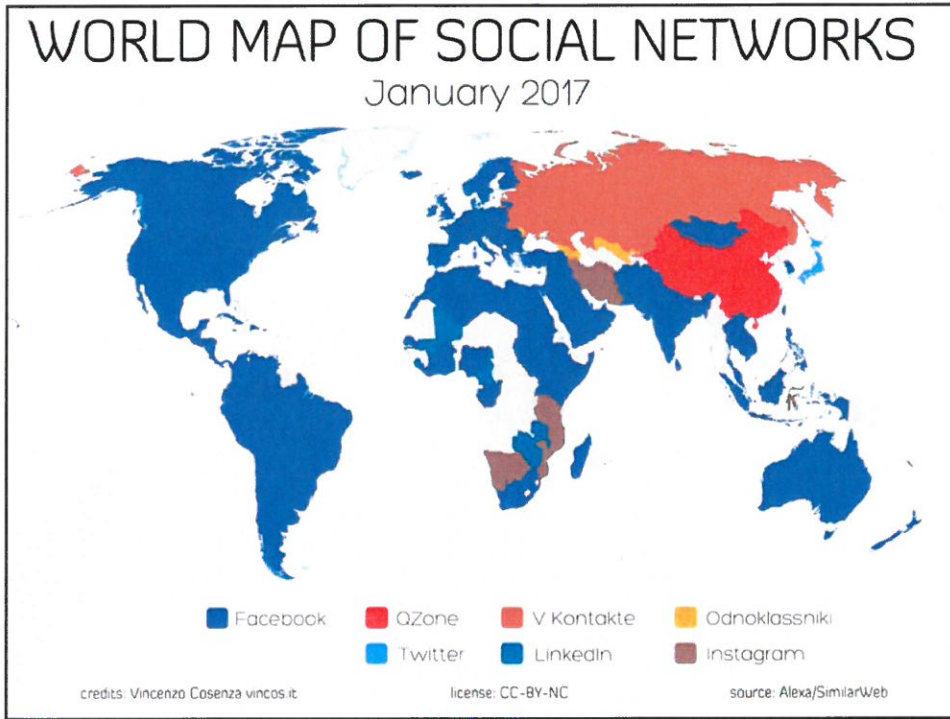
Vetting

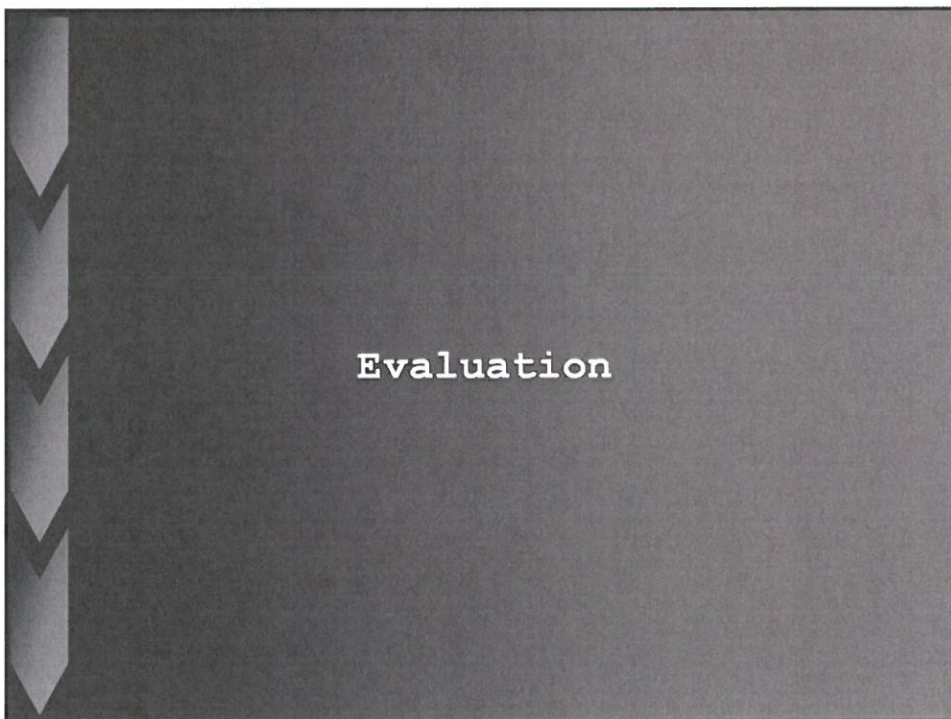
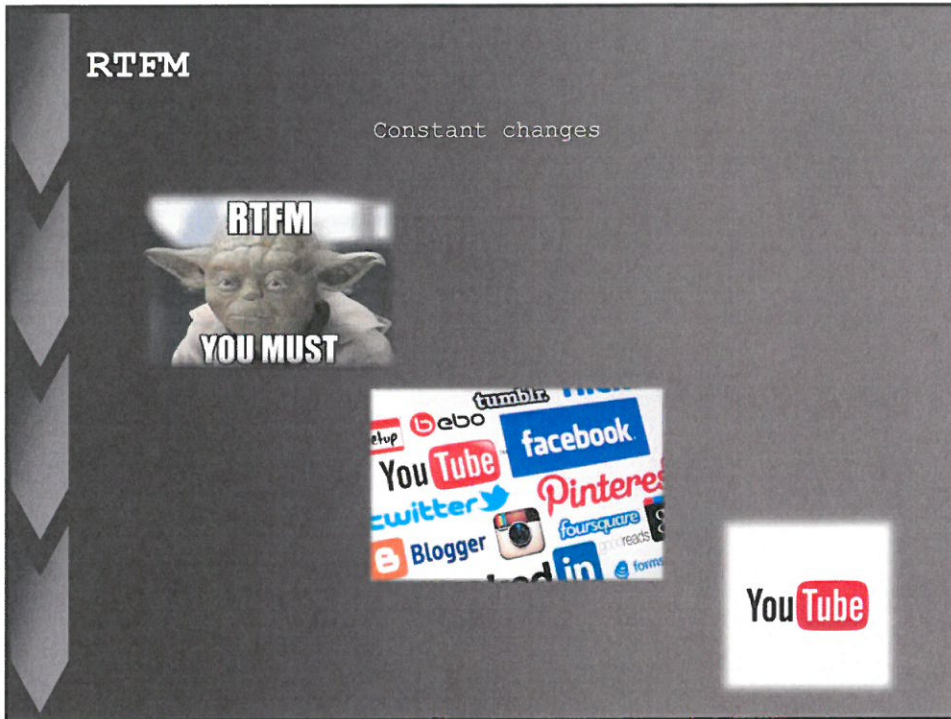
A Charge

A Décharge

Result: Full
search

Quid derogatory information?





Source and Content Evaluation

Reliability, credibility and relevance!

Time consuming!

1. Website
 1. URL
 2. Domain
2. Publisher
3. Author
4. Affiliation
5. Sources
 1. 1st, 2nd, 3rd?
 2. Government
 3. Public
 4. Third party reporting
6. Content
 1. Pictures
 2. Objective
 3. Facts
 4. Opinions
 5. Date - Timings

OSINT Ratings

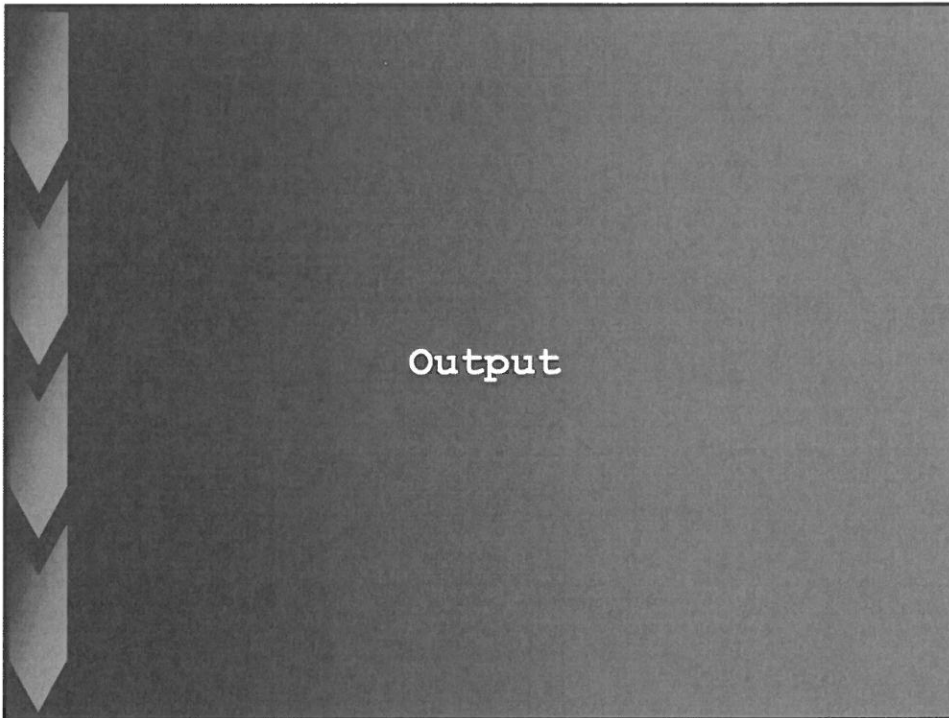
Table 2-1. Open-source **reliability ratings**

A	Reliable	No doubt of authenticity, trustworthiness, or competency, has a history of complete reliability.
B	Usually reliable	Minor doubt about authenticity, trustworthiness, or competency, has a history of valid information most of the time.
C	Fairly reliable	Doubt of authenticity, trustworthiness, or competency, but has provided valid information in the past.
D	Not usually reliable	Significant doubt about authenticity, trustworthiness, or competency, but has provided valid information in the past.
E	Unreliable	Lacking authenticity, trustworthiness, and competency; history of invalid information.
F	Cannot be judged	No basis exists for evaluating the reliability of the source.

Open Source Information
Reliability and Credibility Ratings
(Source: US Army ATP 2-22.9)

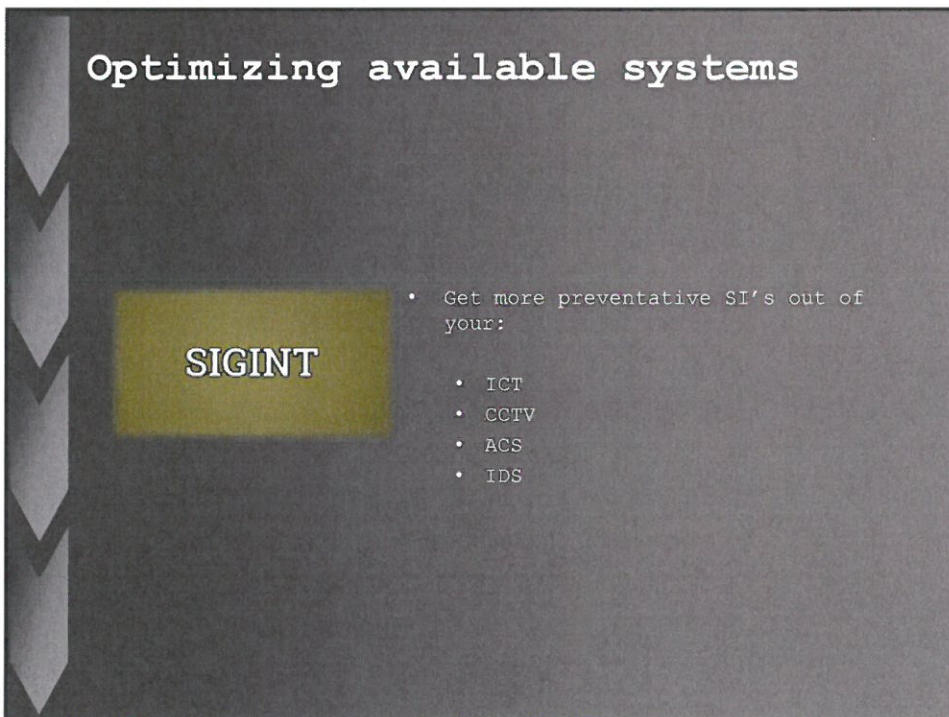
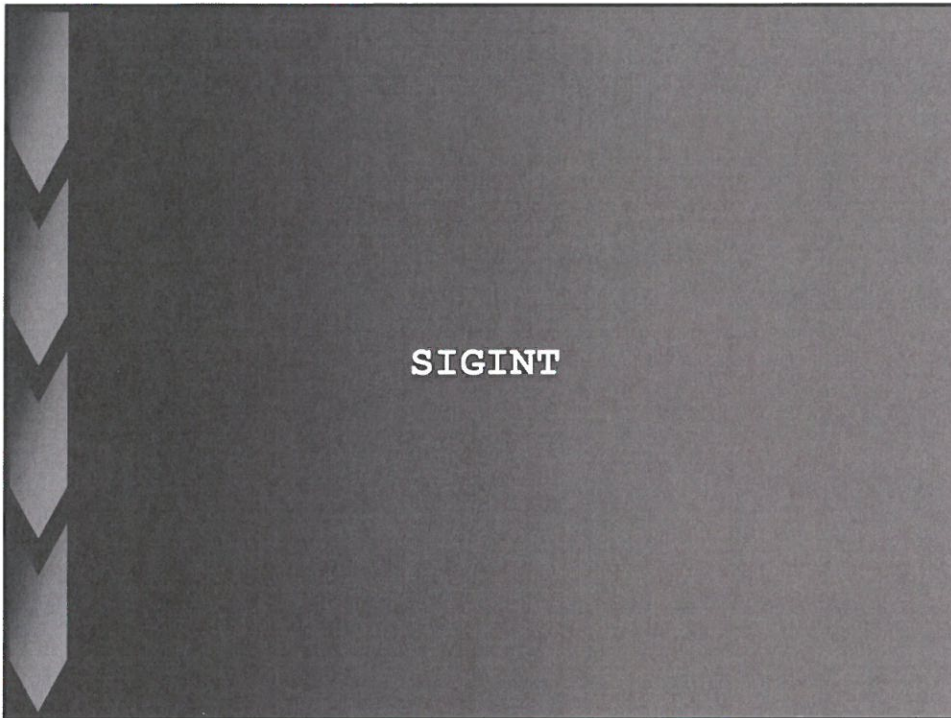
Table 2-2. Open-source content **credibility ratings**

1	Confirmed	Confirmed by other independent sources, logical in itself, consistent with other information on the subject.
2	Probably true	Not confirmed , logical in itself, consistent with other information on the subject.
3	Possibly true	Not confirmed , reasonably logical in itself, agrees with some other information on the subject.
4	Doubtfully true	Not confirmed , possible but not logical, no other information on the subject.
5	Improbable	Not confirmed , not logical in itself, contradicted by other information on the subject.
6	Misinformation	Unintentionally false , not logical in itself, contradicted by other information on the subject, confirmed by other independent sources.
7	Deception	Deliberately false , contradicted by other information on the subject, confirmed by other independent sources.
8	Cannot be judged	No basis exists for evaluating the validity of the information.



Disseminating Intelligence

Who is it for?	What is it for?	How do we present it?
<ul style="list-style-type: none">• The final product that an analyst creates needs to be tailored to the requirements of the audience• Remember that the report is for a specific customer who requested it	<ul style="list-style-type: none">• Intelligence products must answer the question at hand• Be aware of how the intelligence report may be used to support or challenge policy positions	<ul style="list-style-type: none">• Intelligence, if it is not communicated, is useless.• Intelligence products should provide objective assessments, and balanced judgments based on the available facts





GOVINT network

- Build your trusted network
 - Give - take principle
- The law
 - Official
 - Unofficial
- Levels
 - BE/NL
 - Local
 - Regional
 - External services
 - EU
 - Neighboring countries
- Discretion!



Conclusion

Intelligence-Led Security



There are known knowns. These are things we know that we know. There are known unknowns. That is to say, there are things that we know we don't know. But there are also unknown unknowns. There are things we don't know we don't know.

(Donald Rumsfeld)

TLP Orange

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