Open Source Intelligence for Investment Research

AKA becoming a Google power-user





Intelligence

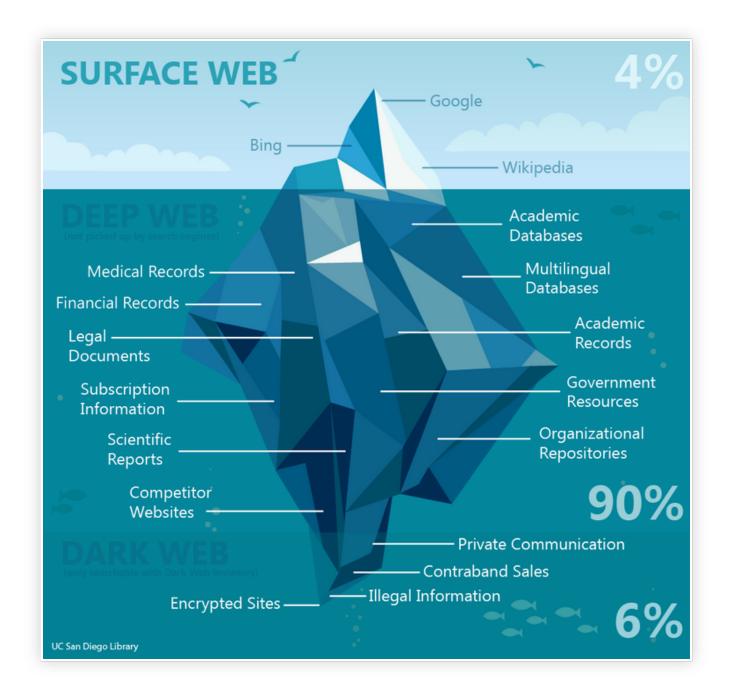
- HUMINT human intelligence
- SIGINT signal intelligence

OSINT - open source intelligence

OSINT

• "Any intelligence produced from publicly available information"

Bazzell, 2019

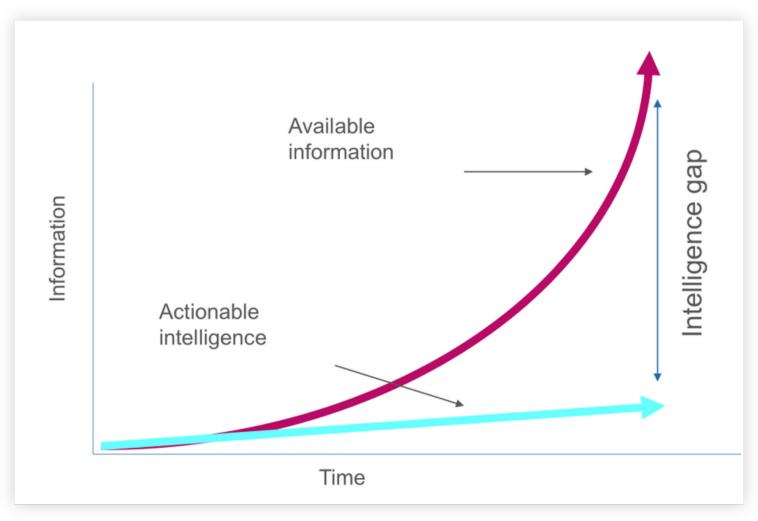


OSINT in an investment process

- Write the question in a way in which it is solvable, without recourse to a specific forecast
- Write a simple thesis, structured for feedback loops to allow early assessment
- Maintain a living counter-thesis
- Pay attention: develop a network of diverse signals to feed the assessment of thesis vs counter-thesis
- Insist on a margin of safety
- Construct a diversified portfolio

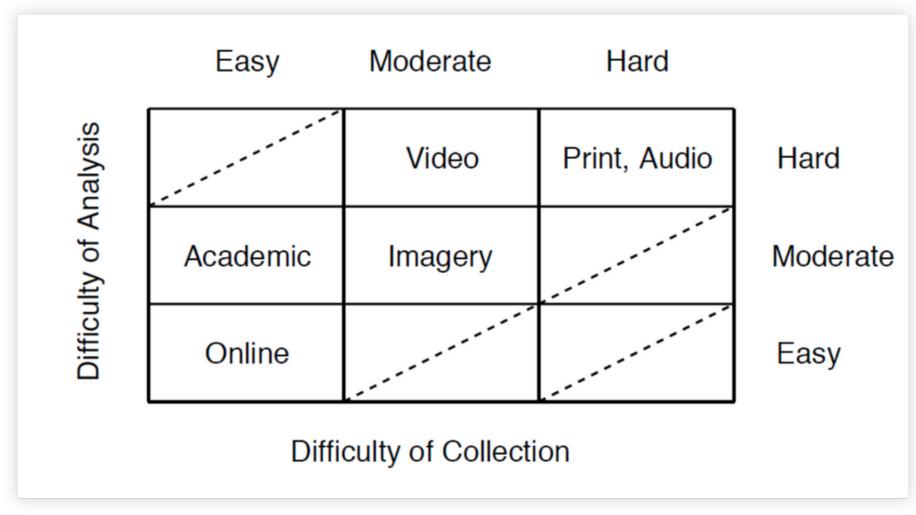
Three problems: Completeness problem

Source: Control Risks



Source availability

Source: Ridgeway

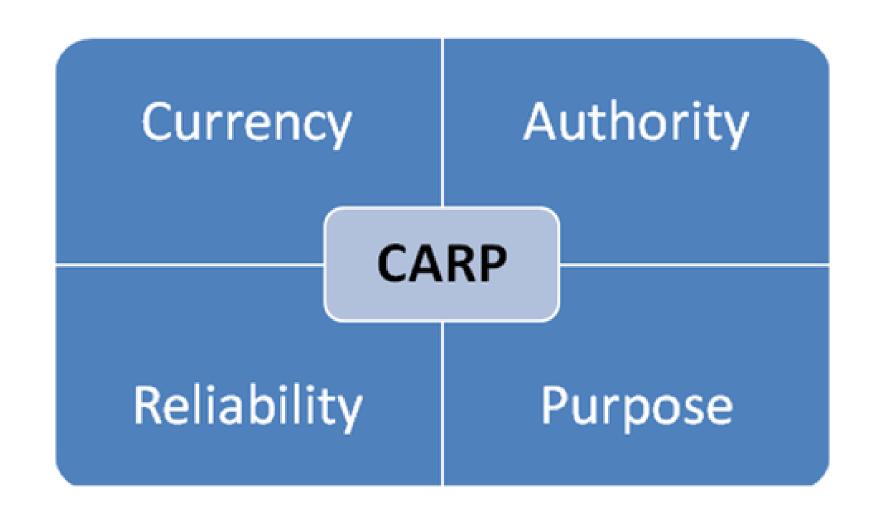


Source integrity

Source: Control Risks

SOURCE	Always	B Mostly Reliable	C Sometimes Reliable	D Unreliable	E Untested Source
INFORMATION/ INTELLIGENCE EVALUATION	f Known to be true without reservation	Known personally to the source but not the person reporting	Not known personally to the source, but corroborated	4 Cannot be judged	5 Suspected to be false

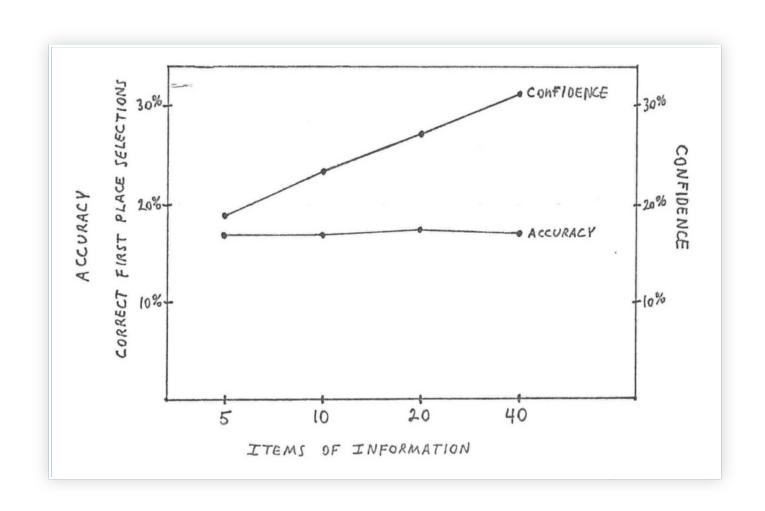
Academics have a word for this



These problems shouldn't stop the investor

"The explicit formulation of hypotheses directs a more efficient and effective search for information".

Overconfidence



Paul Slovic, "Behavioral Problems of Adhering to a Decision Policy", 1973

Example OSINT use cases

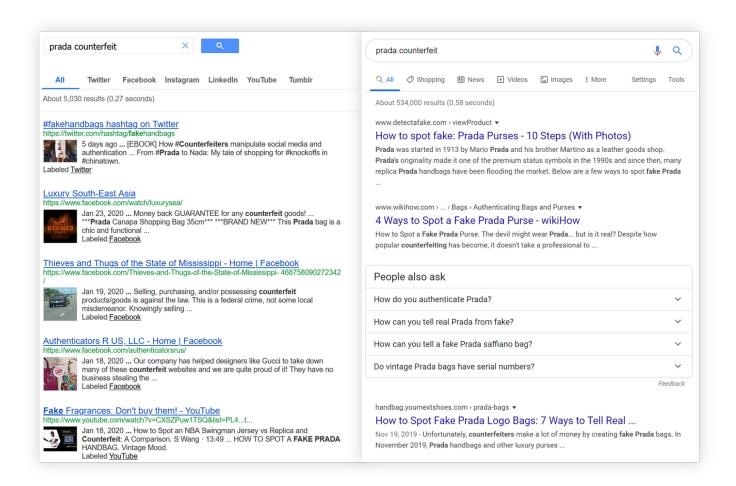
Monitoring downside risks

Is the company suffering from counterfeiting?

 Google custom search engine to search major social media sites

google.com/cse

Accelerated learning curve



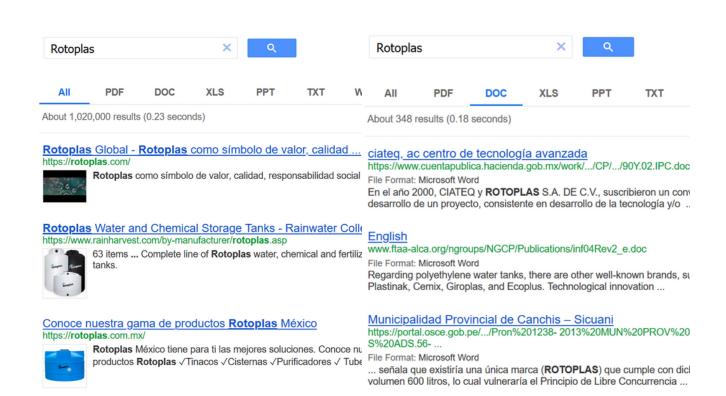


11:40 pm · 1 Jul 2018 · Sprout Social

29 Retweets 102 Likes

Surfacing relevant information

- Custom Google search focused on document file types
- Here two searches revealed industry association and a list of competitors



CURRICULUM VITAE Luis Rodrigo Arellano Estrada

https://tlaiomulco.gob.mx/.../LuisRodrigoArellanoEstradaCurriculum.docx

Las 7 Herramientas: Recibido internamente en la empresa **Rotoplas** de G Actualización de Equipo Autónomo y Explosímetros: Impartido por MSA de

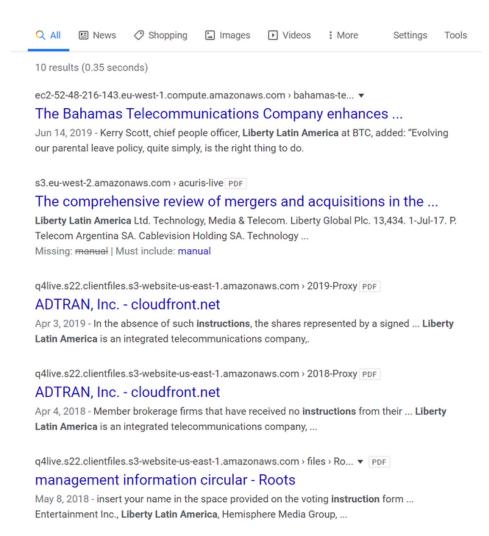
Rotoplas 2020

https://www.rosemont.com/desconvention/events/rotoplas-2020/

currently representing member companies in 58 countries. Memb

The Association of Rotational Molders (ARM) is a worldwide trade File Format: Microsoft Word

Trawling cloud services



 site:amazonaws.com "Liberty Latin America" AND manual

Automated monitoring

"Custom RSS" via Google Alerts

- Regulators
- Sales materials

- Key executives
- Court filings

In sum

 OSINT techniques can surface relevant information in the research phase, bring scale to the ongoing monitoring of companies and help provide a diverse set of signals for the relative assessment of the thesis and counter thesis