

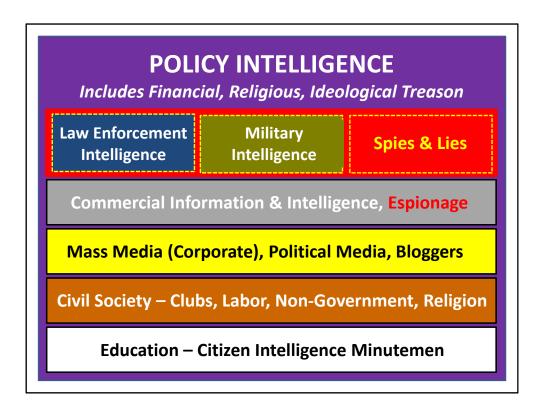
I have prepared 40 slides to deliver in 40 minutes, leaving 20 minutes for questions now, and then we can discuss details in the working groups and if desired later via email or skype. You will not have time to read every word – I am delivering impressions from 25 years of work as the primary pioneer in this field, you can study the briefing in detail later, my planned words are in Notes format at the tiny url shown here – 2016-OSINT.

## Plan for the Brief

- WHY
  - Secrets cover 4% "at best" of what we need
  - Most threats are not military in nature
  - All policies demand open discussion for effect
- HOW
  - OSINT is HUMINT not TECHINT
  - Craft of Intelligence process is IMPORTANT
  - 80% of OSINT demands out-sourcing to individual humans and money with which to pay them

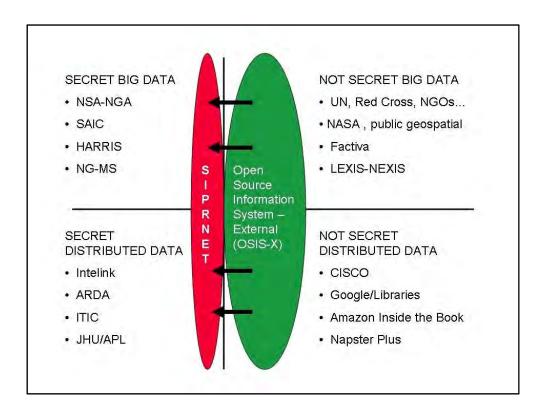
This is the plan for the brief. I will be showing some complex graphics you can return to later on your own. For today the key points are these.

**PAUSE** 

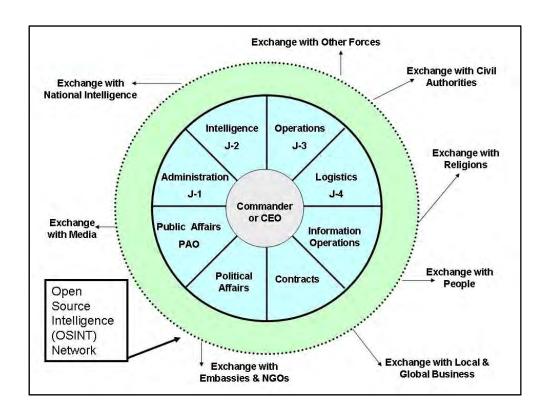


Alvin Toffler helped me create this slide. We were returning from a lunch with US defense intelligence leaders when he turned to me and said "they don't want to leave their little green box." I instantly visualized this.

Two points: OSINT is about harvesting ALL of this information outside the green box. And second, at the policy level, it is vital that we understand competing interests.



My first book was entitled *ON INTELLIGENCE:* Spies and Secrecy in an Open World. My core concern today is that the US has corrupted NATO intelligence by over-emphasizing secret technical collection that is not processed, and neglecting everything else. There are major centralized and distributed repositories of OSINT that we should not ignore.



LtCol Gary Beaver, USA gave me this concept, this is how he used OSINT in Bosnia, as a buffer zone to enable information sharing operations with external elements.

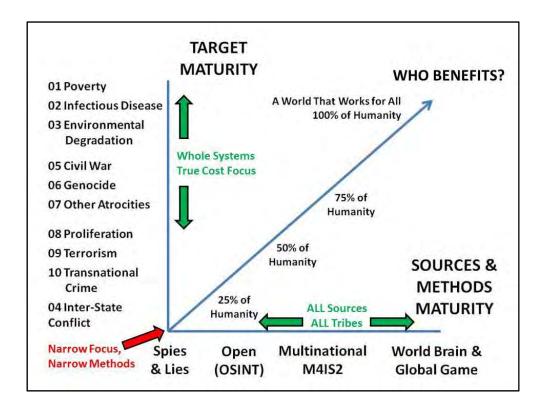
### **PAUSE**

What Do We Need to Know?
EASY: Where's the Army? EASY: Where are the trenches?
MODERATE: How many with what?
HARD: Watch every non-state actor
HARD: Watch everything on the fly
HARD: Make sense of billions of bits
VERY HARD: 24/7 33+ languages and get your own house in order. As quickly as possible, 183 languages going back 200 years.

As war has grown more complex, intelligence has failed to adapt.

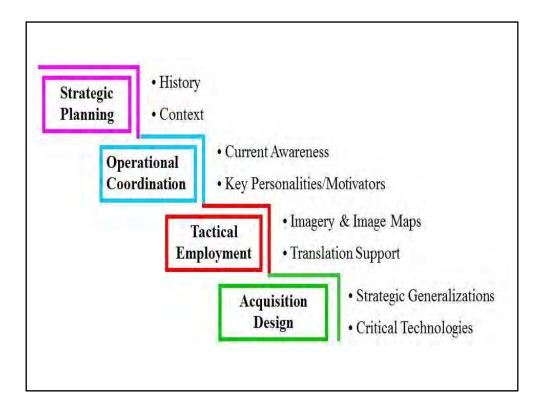
I'll give you a moment to look at this graphic.

The harsh reality is that OSINT is the only source able to answer 80% or more of our commanders needs as well as acquisition, policy, and strategy needs.

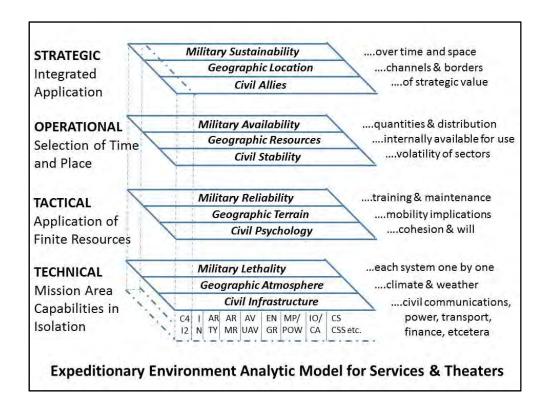


This is my latest depiction of where we are in relation to where we need to be.

We are not serious about understanding and defeating all ten high level threats to humanity, and we are not serious about creating deep OSINT, multinational multilingual information sharing and sensemaking, or my ultimate desire, the world brain and global game — that connects all minds to all information all the time.



In 1997 I was honored by General Peter Schoomaker, then Commander in Chief of the US Special Operations Command, and later Army Chief of Staff. This is the slide that led him to order the creation of the J-23 unit. At its height with 22 employees and \$5 million a year in discretionary funding, it was answering 40% of all Special Operations intelligence requirements for the entire world, against 60% at a cost of billions from the secret world. **PAUSE** 



In 1988 the Marine Corps pulled me out of the CIA and made me the senior civilian responsible for creating the Marine Corps Intelligence Center – our primary duty was acquisition intelligence. This is the model I created for studying the real world. The real world is hot and humid with bridge loading limits of 30 tons or less, limited line of sight distances, and poor cross-country mobility. I provide a link to the study on the last graphic.

### **Conventional Threat**

- Governmental
- Conventional/Nuclear
- Static Orders of Battle (OOB)
- Linear in Development
- Rule of Engagement (ROE)
- Known Doctrine
- Strategic Warning
- Known Intelligence Assets

### **Emerging Threat**

- Non-Governmental
- Non-Conventional
- Dynamic or Random OOB
- Non-linear Development
- No Constraints (ROE)
- Unknown Doctrine
- No Established I&W\* Net
- Unlimited 5<sup>th</sup> Column

\* Indications & Warning

OOB: Order of Battle --- ROE: Rules of Engagement

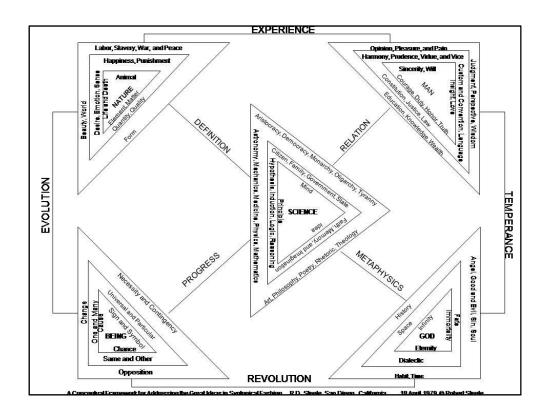
1989 General Al Gray on Global Intelligence Challenges (American Intelligence Journal)
2014 On Defense Intelligence: Seven Strikes (CounterPunch)

In 1989, based on my experience with the new model, I ghost wrote for the Commandant an article sounding the alarm on emerging threats and calling for third world appraisals needed to justify peaceful preventive measures such as would have prevented ISIS and the illegal immigrants. We were ignored. The American "way of war" is expensive, technical, and counter-productive. It has corrupted NATO.

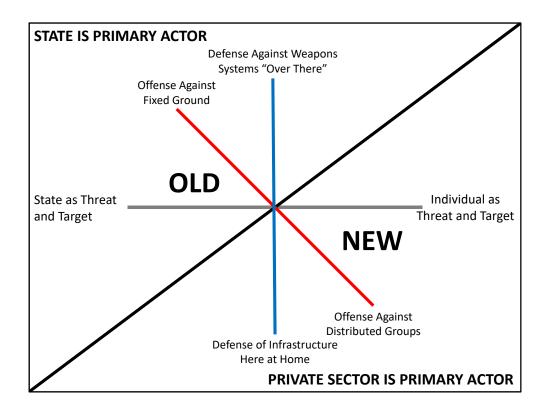
	Political- Legal	Socio- Economic	Ideo- Cultural	Techno- Demographic	Natural- Geographic
Perception	Isolation of elites; inadequate intelligence	Concentration of wealth; lack of public disclosure	Conflicting myths; inadequate socialization	Acceptance of media distortions; inadequate education	Reliance on single sector or product; concentrated land holdings
Identity	Lack of elite consensus; failure to define priorities	Loss of economic initiative; failure to do balanced growth	Loss of authority; failure to provide and honor national myth system	Failure to accept and exploit new technologies and new groups	Failure to integrate outlying territories into national system
Competence	VVeak or inefficient government; too much ortoo little bureaucracy	Break-down of fiscal, monetary, development, or welfare policies	Humiliation of leaders; loss of confidence by population	Failure to enforce priorities, with resulting loss of momentum	Failure to prepare for or cope with major national disasters
Investment	Ego-centric or parochial government	Excessive or insufficient mobility; lack of public sector	Cynicism; opportunism; corruption	Failure to nurture entrepreneurship or franchise all groups	Failure to preserve or properly exploit natural resources
Risk	Elite intransigence; repression; failure to adapt	Failure to deal with crime, especially white collar crime	Failure to deal with prejudice; desertion of intellectuals	Failure to develop national research & development program	Failure to honor human rights; failure to protect animal species
Extroversion	Ineffective tension management; failure to examine false premises	Structural differentiation; lack of national transportation network	Elite absorption of foreign mores; failure to deal with alienation	Failure to develop communications infrastructure, shared images	Failure to explore advantages of regional integration
Transcen- dence	Foreign control of government; arbitrary or excessive	Loss of key sectors to foreign providers: loss	Media censorship; suppression of	Failure to control police, army, or terrorists; failure to employ alphas	Failure to respect natural constraints or support organic
Synergy	http://ti	nyurl.con	n/Steele	e-Revolution	on .
	individual or respond to all groups	lack of economic motivators	myths; failure of religion	technology assessment	benefits between urban and rural
Complexity	Garrison, industrial, or welfare states	Unstable growth; excessive defense spending	Cultural pre- disposition toward violence	Excessive urbanization, pollution, or development	Lack of land for expansion; inefficient use of land

This is the heart of my 1976 graduate thesis that created a model for studying the preconditions of revolution. The conditions shown here in red exist in the USA today. I will not discuss this in detail, you can read the paper and study the graphic in at the tiny URL shown here.

The core point is that secret intelligence is useless and OSINT is priceless, in this context.



The Great Books of the Western World as published by the University of Chicago and Encyclopedia Britannica have a stunning two-volume Syntopicon with reference sections for each of 144 key cultural concepts. As a young lieutenant bored with garrison duty I created this chart one day, to show all 144 concepts in relation to one another. We cannot understand other cultures without understanding how they see each of these concepts.



Another area where OSINT is fundamental is in relation to the new reality that war is less about state on state military power and more and more about distributed individuals each capable of shutting down entire power and communications and water networks.

Ultimately OSINT is about turning every citizen into an intelligence minuteman, and being on guard, openly, all the time.

### **Four Major Belligerent Groups in Earth Context**

### Banks & "The Complex"

- Old Gold Families
- · Central Families
- IMF, WTO, WB
- Military-Industrial Complex
- · Corrupt Global Elites

#### **Nation-States**

- 900 lb gorilla (USA)
- Nordics & BENELUX
- European Union
- BRICS + Indonesia
- Failed States

#### **Hybrid Networks**

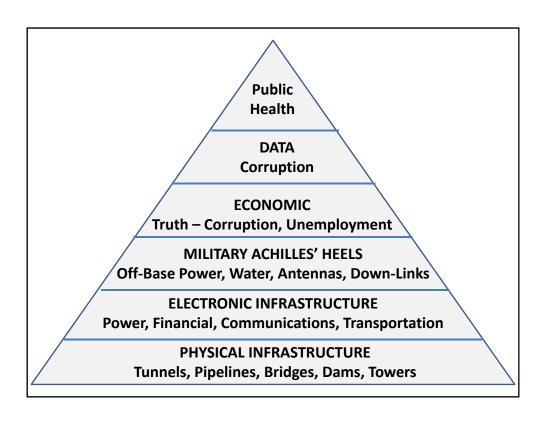
- Halawa System
- System D
- Local Currencies
- Cyber-Currencies
- Open Money

#### **Tribes & Gangs**

- Old Lands, Old Ways
- Ethnic, Blood, Marriage Ties
- Religious Orders & Rules
- Hidden Powers
- Information Crime Alliances

This depiction of the four major belligerent groups further emphasizes the vital nature of OSINT for state security.

We have failed to be serious about creating orders of battle for non-state actors. We have failed to be serious about counterintelligence against non-state threats to the state and the society.



Homeland defense is vastly more important today. I was the author of the letter to the White House in 1994 sounding the alarm on cyber-vulnerability, with three co-signers including the top NSA security engineer and Winn Schwartau. We were ignored. For the past 25 years we should have been fortifying all cyber-systems — instead we allowed NSA and US IT CEOs to handicap and sabotage cyber-security for their convenience.

Economic and social threats, including		95%
• Poverty	99%	
<ul> <li>Infectious Disease</li> </ul>	95%	
<ul> <li>Environmental Degradation</li> </ul>		90%
Interstate conflict		75%
Internal conflict, including		90%
Civil War	85%	
• Genocide	95%	
<ul> <li>Other Large-Scale Atrocities</li> </ul>	95%	
Nuclear, radiological, chemical, and biological WMD		
Terrorism		80%
Transnational organized crime		80%

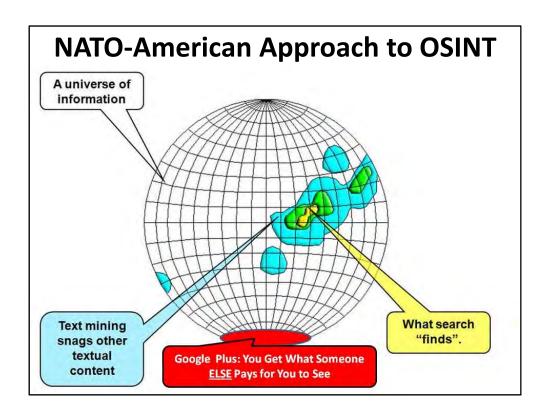
Here I offer my estimate of the utility of OSINT against each of the ten high level threats to humanity as identified by LtGen Brent Scowcroft, USAF (Ret) and other members of the UN High-Level Panel on Threats, Challenges, and Change, as it reported out in 2004 in a book entitled A More Secure World: Our Shared Responsibility. It is not possible to be a Smart Nation or a Safe Nation without a major investment in OSINT.

### **Definitions**

- OSD Open Source Data
- OSIF Open Source Information
- OSINT Open Source Intelligence
- V-OSINT Validated Open Source Intelligence

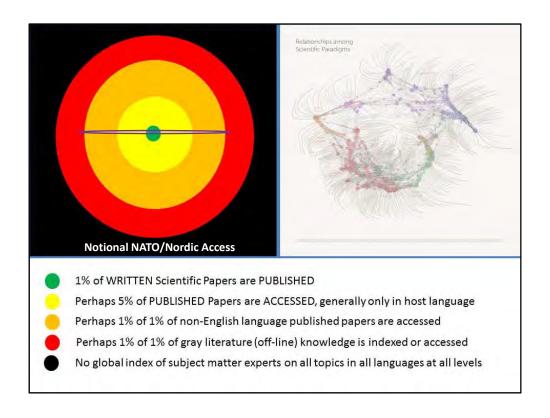
Most OSINT is not OSINT. To qualify as intelligence or decision support it must answer a question from a specific person.

I learned that to make peace with the CIA we had to distinguish between OSINT that any commercial provider can create, and Validated OSINT that only an all-source government analyst can bless, saying we concur, or at least, we do not have a basis for disagreeing.



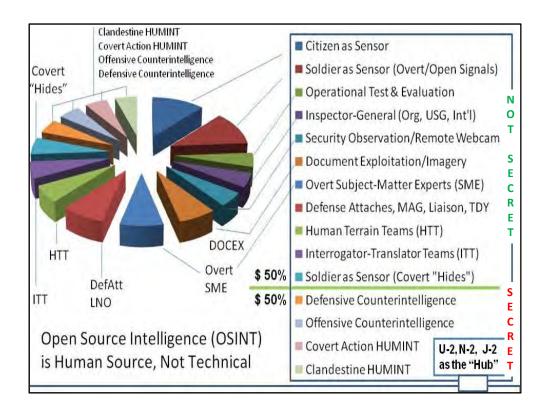
I modified this graphic from Stephen E. Arnold. The fact is that the NATO-US approach to OSINT merely skims the surface, like the drunk looking for his keys under the light. Google indexes less than 4% of the web and nobody is indexing the analog information or the unpublished information.

Worse, Google manipulates search results depending on who pays to be seen.

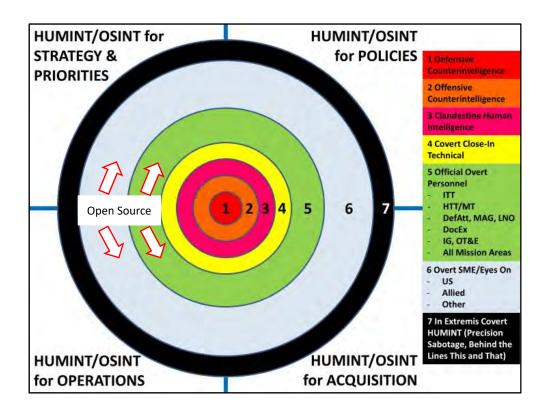


Here is a deeper look at this challenge. Only 1% of WRITTEN scientific papers are PUBLISHED. It only gets worse when you consider foreign languages and whether researchers will perform due diligence.

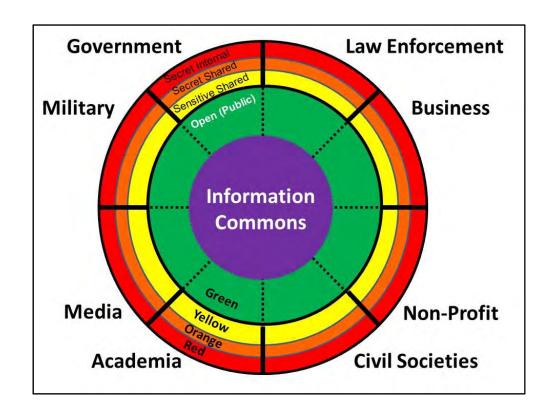
On the left is the fragmentation of the scientific community, an archipelago of isolated fiefdoms where a PhD can be earned knowing everything about nothing and nothing about everything.



I was interviewed to be the senior defense leader for HUMINT, and this was my vision. I was not selected – they wanted someone who would focus only on stealing secrets. The fact is that HUMINT consists of at least fifteen slices, only four of which are secret. It is irresponsible to not manage all HUMINT together, and I would emphasize that OSINT is HUMINT, not TECHINT. My monograph is free online at <a href="http://tinyurl.com/Steele-HUMINT">http://tinyurl.com/Steele-HUMINT</a>.

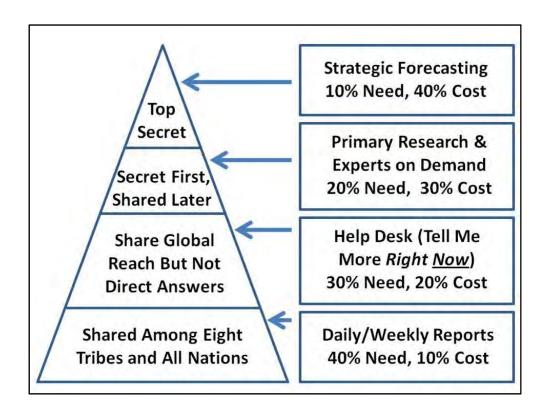


Here is another way of looking at the centrality of OSINT in relation to both secret intelligence and counterintelligence, and the ultimate combat mission of sabotage behind enemy lines. **PAUSE** Please note that OSINT (and all-source intelligence) should be organized to support strategy, policy, acquisition, and operations. I don't know of anyone doing this correctly.



You will recall the isolated boxes from the beginning of my remarks. Here I show the eight tribes of information, emphasizing that government is the smallest and least informed tribe. We cannot do OSINT without harnessing what these other tribes can access – and most of them do not like us, do not trust us, and do not want to share.

### BRIEFLY DESCRIBE EACH TRIBE

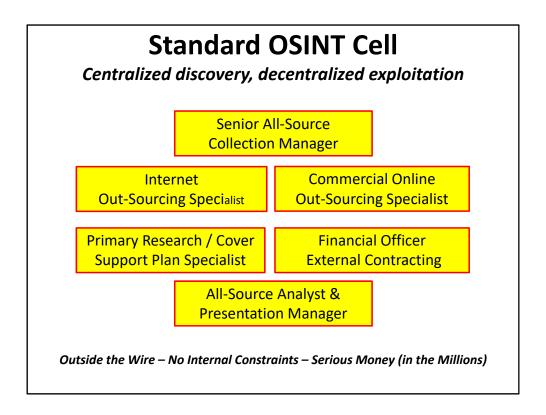


This graphic was created by Jan Herring, the first National Intelligence Officer for Science & Technology in the US, in the 1970's. We still do not do this.

Note that OSINT can become secret.

Note the ratios of need versus cost.

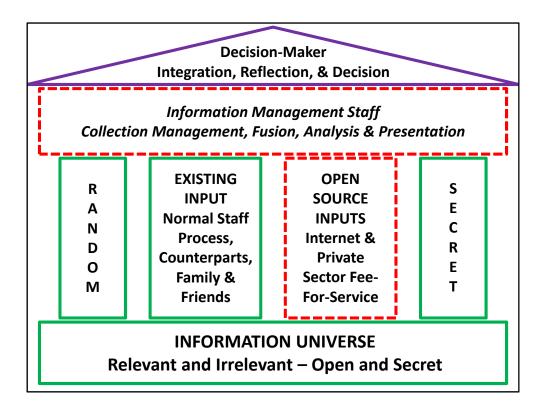
We can discuss this further in our follow-on discussion.



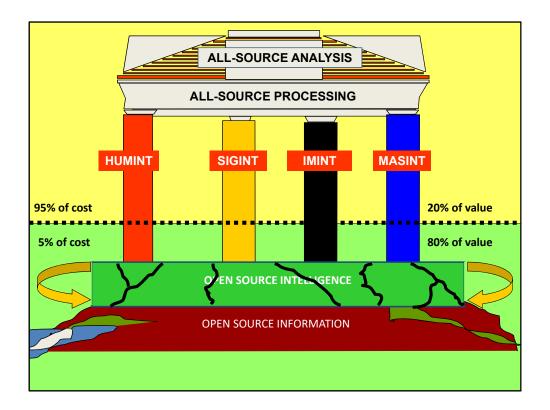
Six people can harvest the external world of knowledge if they know what they are doing and have the money with which to leverage intermediaries as well as reward individual human elements as needed.

The collection manager needs to have the confidence of the secret world and to hear their requirements in classified terms.

### DISCUSS EACH OF THE OTHERS



This is a quick look at where OSINT fits in relation to secret and existing staff feeds, we cannot under-estimate the impact on the decision-maker of random external influences, it is very important to have a solid grasp of what happens to your information after it is delivered, and to be constantly studying the decision-maker to see if they have been mis-guided by other sources of information including lies from allied services and leaders.



This is the original graphic from the 1980's where I tried to explain that OSIF and OSINT are the foundation for the all-source temple.

It makes no sense at all to send a spy where a school-boy can go. We must harness and harvest all of our human resources, and make the most of the least expensive, most open sources and methods.

# **Open Source Marketplace**

#### **SOURCES**

#### **Current Awareness**

(e.g. Individual Inc.)

#### Current Contents

(e.g. ISI CC Online)

#### **Directories of Experts**

(e.g. Gale Research, TELTECH)

#### **Conference Proceedings**

(e.g. British Library, CISTI)

#### **Commercial Online Sources**

(e.g. LN, DIALOG, STN, ORBIT)

#### **Risk Assessment Reports**

(e.g. Forecast, Political Risk)

#### Maps & Charts

(e.g. East View Publications)

#### **Commercial Imagery**

(e.g. SPOT, Radarsat, Autometric)

#### **SOFTWARE**

#### **Internet Tools**

(e.g. NetOwl, Copernicus)

#### **Data Entry Tools**

(e.g. Vista, BBN, SRA)

#### **Data Retrieval Tools**

(e.g. RetrievalWare, Calspan)

#### **Automated Abstracting** (e.g. NetOwl, DR-LINK)

**Automated Translation** 

#### (e.g. SYSTRAN, SRA NTIS-JV)

**Data Mining & Visualization** (e.g. i2, MEMEX, Visible Decisions)

#### **Desktop Publishing & Communications Tools**

**Electronic Security Tools** (e.g. SSI, PGP, IBM Cryptolopes)

#### **SERVICES**

#### Online Search & Retrieval

(e.g. NERAC, Burwell Enterprises)

#### **Media Monitoring**

(e.g. FBIS via NTIS, BBC)

#### **Document Retrieval**

(e.g. ISI Genuine Document)

#### **Human Abstracting** (e.g. NFAIS Members)

#### **Telephone Surveys**

(e.g. Risa Sacks Associates)

#### **Private Investigations**

(e.g. Cognos, Pinkertons, Parvus)

#### **Market Research**

(e.g. SIS, Fuld, Kirk Tyson)

#### **Strategic Forecasting**

(e.g. Oxford Analytica)

I wrote the NATO Open Source Intelligence Handbook in 2000. While good in its time the links are mostly broken and it should be redone. In my final slide I provide links to the best resources from a few top OSINT practitioners.

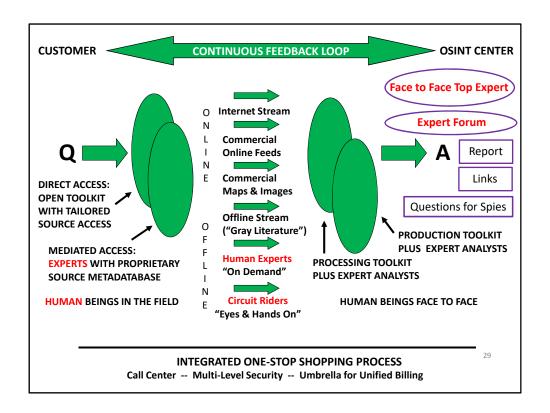
What is critical about this graphic is not the detail but the organization. OSINT includes sources, softwares, and services. I give all of them a failing grade for one reason or another, we can discuss this later.

Languages Machine Dictionary Human 1 Human 2 Human 3 Countries Translation Online Foreign **US-Based Cleared** English, French, German, and Russian reporting is – as a general rule – incomplete or wrong. Arabic, Aramaic, Berber, Catelan, Chinese, Danish, Dari, Dutch, English, Farsi, Finnish, French, German, Indonesian, Irish, Italian, Japanese, Korean, Kurdish, Kurmanji, Norwegian, Pashto, Polish, Portuguese, Russian, Serbian, Spanish, Swedish, Tamil, Turkish, Urdu Afrikaans, Aimag, Albanian (Greek), Amharic, Arabic (Andalusi), Arabic (Egyptian), Arabic (Gulf), Arabic (Hassaniiya), Arabic (Hijazi), Arabic (Iraqi), Arabic (Levantine), Arabic (Maghreb), Arabic (Maltese), Arabic (Najdi), Arabic (Standard), Arabic (Sudanese), Arabic (Yemeni), Armenian, Assamese, Atuence, Azerbaijani, Bai, Basque, Bassa, Bengali, Berber, Bulgarian, Burmese, Catalan, Cebuano, Central Khmer, Chechen, Chinese (Mandarin), Croatian, Czech, Danish, Dari, Dutch, Dzongkha, Edo, Efik, English, Estonian, Éwé, Farsi, Finnish, French, Fulfulde, Gaelic, Georgian, German, Greek, Gujarati, Gurung, Hausa, Hebrew, Hindi, Hungarian, Ikanuri, Ilongo, Indonesian, Italian, Japanese, Japanese, Kabiye, Kabuverdianu, Kannada, Kanuri, Kashmiri, Kazakh, Kirghiz, Khemer, Korean, Kurdi, Kurmangi, Lingala, Latin, Latvian, Lithuanian, Luba-Kasai, Malagasy, Malay, Malayalam, Maldivian, Mandinka, Maninka, Maori, Marathi, Munukutuba, Nepali, Norwegian, Nyanja, Oriya, Panjabi, Pashto, Polish, Portuguese, Pulaar, Romanian, Rundi, Russian, Rwanda, Sango, Sanscrit, Sardinian, Serbian, Sindhi, Sinhala, Slovak, Somali, Sotho, Spanish, Swahili, Swati, Swedish, Tagalog, Tajik, Tamil, Tatar, Telugu, Thai, Tibetian, Tigrigna, Tswana, Tumbuka, Turkish, Turkmen, Ukrainian, Urdu, Uzbek, Vietnamese, Xhosa, Yiddish, Yoruba, Zarma, Zulu (136)

The major powers either don't get it or lie a lot. You cannot achieve ground truth without a deep use of the local language.

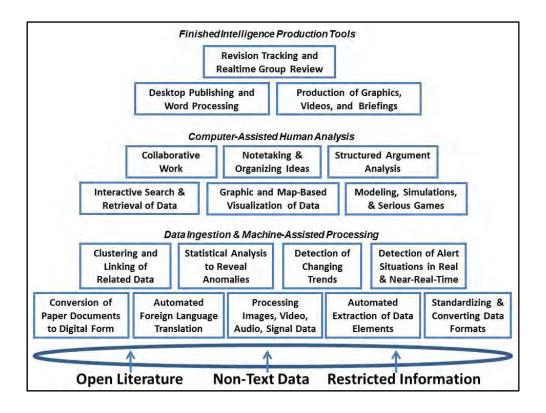
There are at least 31 core languages and over 136 others than need attention.

Machine translation is not good enough for most languages. You need a mix of indigenous speakers who also speak a Western language, and a handful of trusted officers who have spent a lifetime learning the target language.

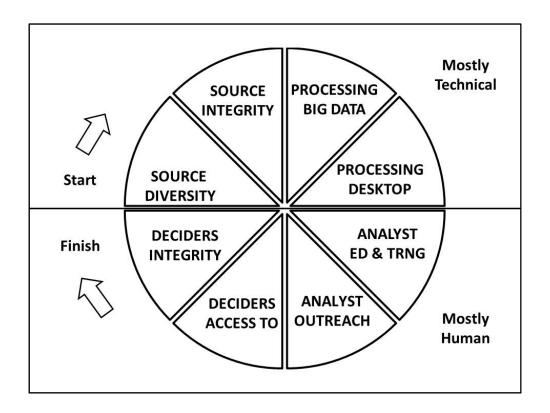


This is the heart of an OSINT cell's advanced operations if you have more than six people. Note that it includes ingestion and sensemaking processes, and that there are at least three outputs: human; written, and classified requirements.

The Dutch service in theory is not allowed to use secret sources and methods unless the OSINT people certify they cannot find out using open sources and methods.



I was a founding member of the Advanced Information Processing and Analysis Steering Group in the 1980's and into the 1990's and I am sorry to say that despite our knowing then that we need all of this in an integrated tool-kit able to ingest and make sense of massive amounts of unstructured multilingual multi-media data, it still does not exist today.



These are the eight areas where I would like to help just one country – all eight tribes of information – get it right. All of these eight quadrants are no better than yellow and most are red in my view.

# **Generic OSINT Budget**

My Personal View: 5% of the Total Intelligence Budget

- HUMAN Training & conferences everywhere
- HUMAN Internet monitoring services
- HUMAN Information broker services
- HUMAN Private investigative services
- HUMAN Academic research services
- HUMAN Commercial imagery procurement
- HUMAN Russian & other tactical military map procurement (both digital and hard copy)
- **HUMAN** Circuit Rider fund (travel & expenses)

I cannot stress this enough. OSINT is HUMINT, not TECHINT, and OSINT requires adequate funding – on the order of 5% of the total intelligence budget – if it is to be fully effective.

### **PAUSE**

# **Case Study: The Burundi Exercise**

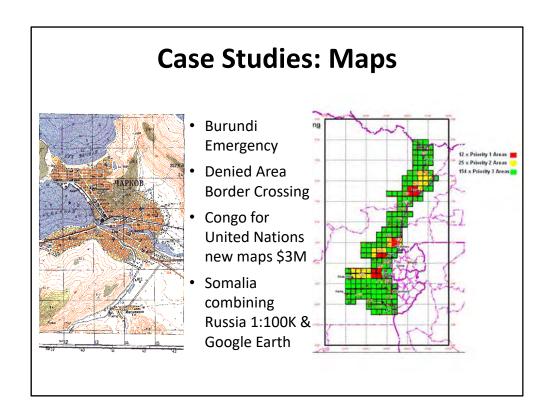
1 Man 6 Calls Beat Entire US Intelligence Community

- Top Ten Academics (ISI)
- Top Ten Journalists (Lexix-Nexis)
- Tribal Orders of Battle (Jane's)
- Pol-Mil Overviews (Oxford Analytica)
- Soviet 1:50,000 Combat Charts (Eastview)
- 100% Commercial Imagery (SPOT)

### Knowing who knows is the acme of skill

Stefan Dedijer, Croatia-Sweden, 1992

This was an overnight exercise for the Aspin-Brown Commission seeking to reform the intelligence community. The CIA had a map and an old economic study. This is what I produced with six phone calls. **DESCRIBE EACH** As a result, the Commission recommended that OSINT be a top priority for DCI attention and a top priority for funding. Later the 911 Commission recommended a separate Open Source Agency. Nothing happened.



When I started the OSINT fight within the US Intelligence Community in 1988-1992, I noticed immediately that the civilians have no idea about the vital important of maps — and especially military charts with contour lines. Over the years this has been one of the most important accomplishments in OSINT, greatly aided by the release of all the Soviet maps of Africa and South America — but not China, that warehouse mysteriously burned down — and by commercial imagery.

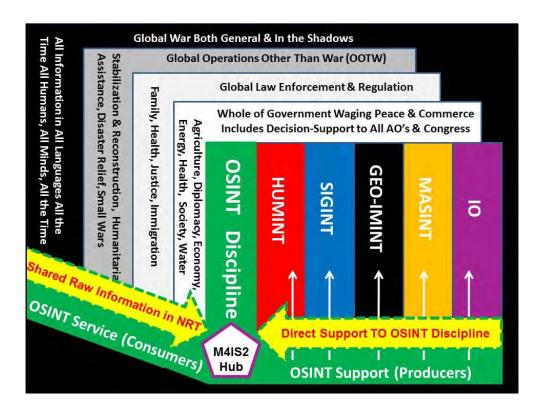
### **Case Studies: Other**

- Citation Analytics top experts on anything (published, names in news, then unpublished field experts & rising students identified by published experts)
- Islamic finance 20 families from Indonesia to India to Arabia, evaluated for donations to Bin Laden and others — mix of online, social engineering, and local tax and other records
- True Cost of Goods virtual water, fuel, toxins, child labor, regulatory violations and tax avoidance
- **Web sites** 396 terrorist, insurgent, & opposition websites in 29 languages done in 60 days using European students
- UK Convictions global discovery of land, buildings, yachts, other assets — local real estate and tax records examined manually

With citation analytics for about \$1,500 I can identify to most cited published experts, and from there get to unpublished field experts. I can also hire their best graduate students for 20 cents on the dollar.

Finance and true costs require field work by humans, including examinations of hard copy tax and real estate and boat records.

The best web monitoring is done in the original languages – students fluent in the target languages are inexpensive.



This is what it looks like when it is working. No one has this. My own government refuses to be serious about OSINT or more recently, Open Source Everything Engineering, see <a href="http://tinyurl.com/Steele-Future">http://tinyurl.com/Steele-Future</a> for my full vision.

In my view the Nordics should offer to host a joint EU-NATO Multinational Decision Support Centre and network whose primary mission will be to produce the truth and confront lies being told by others.

# **Counterintelligence & OSINT**



- Corruption
- Democracy
- Diplomacy
- Education
- Energy
- Environment
- Health
- Ideology
- Religion
- Research
- Water

I cannot over-state the importance of counter-intelligence. In the past 25 years what I have come to appreciate apart from the urgency of getting OSINT right, is counterintelligence.

In the USA we have financial ideologicial, and religious traitors in key leadership positions, and the FBI is not allowed to do its job.

Rooting out traitors is fundamental.

# **Closing Thoughts**

- Ethics is an operating system.
- Intelligence without integrity is not intelligence.
- OSINT is a foundation for enhancing integrity in all-source intelligence – and command.

My closing thoughts.

Ethics is an operating system. Will and Ariel Durant in *Lessons of History* speak to the role of morality in the game of nations. The US and Europe have failed to live up to their ideals – they actively support all but two of the dictators on the planet, and turn a blind eye to financial, religious, and ideological crimes against humanity.

We in the intelligence profession have the power to educate, inform, and elevate.

# **Further Reading**

- 2016 Arno Reuser (NL) Open Source Intelligence Resource Discovery Toolkit
- 2016 The Future: Recent "Core" Work by Robert Steele
- 2015 Ben Benavides OSINT 200l Kit On The Go Bag (Bag O'Tradecraft)
- 2014 Handbook Online for Internet Tools and Resources for Creating Open Source Intelligence (OSINT) by Dr. Ran Hock, Chief Training Officer, Online Strategies, Inc.
- 2013 OSINT Literature Review, Name Association, Lessons Learned
- 2010 Intelligence for Earth: Clarity, Diversity, Integrity, & Sustainability
- 2008 Open Source Intelligence (Operational)
- 2007 Open Source Intelligence (Strategic) 2.0
- 2004 Special Operations Forces OSINT Handbook (Strawman)
- 2000-2002 NATO OSINT Handbooks
- 2000 ONE WORLD, READY OR NOT: From National Capabilities to Global Coverage Through a Virtual Intelligence Community Coordinated by NATO/PfP
- 1998 OSINT Executive Overview (Australia, October 1998)
- 1990 Expeditionary Environment Analytic Model
- Various other handbooks including United Nations handbooks are online at Phi Beta Iota.
   Handbooks (70) Analysis (14) C4/JOE/Software (4) HUMINT (12) Law Enforcement (14) Military (19)
   OSINT Generic (19) Stabilization (22) Threats/Topical (14) UN/NGO (22)
- See Also: NATO OSINT to OSE/M4IS2 Round-Up 2.0

Here are a few links, the larger website holds over 20,000 posts by over 800 contributors I have nurtured over the past 25 years and I am always available to support your learning as well as your work.



If you did not note the tiny url before, here it is again.

It is an honor to be in your company.

Thank you.