

Open Source

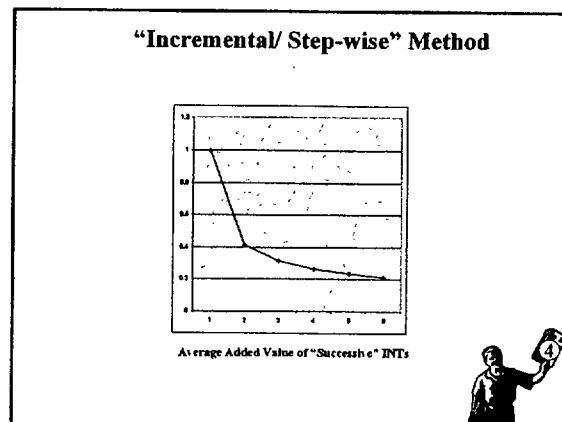
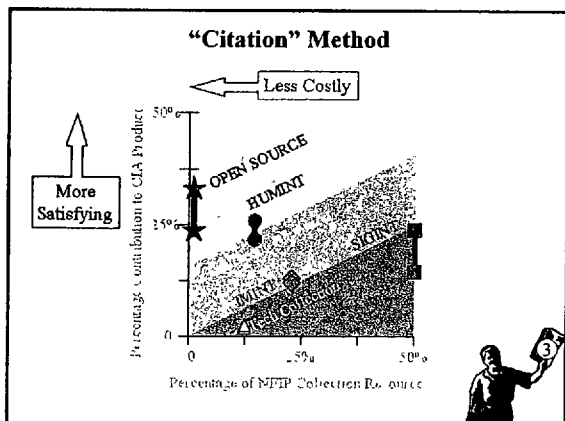
In Support of All-Source Intelligence

How much value does each contribute?

IMINT SIGINT
Imagery
MASINT
OSINT HUMINT
Open Source
Diplomatic Reporting

Horizontally Integrated
All-Source Product

This viewgraph has been adjusted to be buzzword-compliant



Surprising? Conclusions

- Horizontal Integration across all the INTs produces diminishing returns
- If open-source is the most cost-effective, then the best strategy for any INT is:
 - That INT plus open source . . . other things being equal
- It is important, for a problem set, to understand the likely contribution of each INT
 - Analysts should (and probably do) prioritize their effort across the various INTs

A person in the bottom right corner holds a sign with the number '5'.

**VISI
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FULANDMOREWISELYUSED**

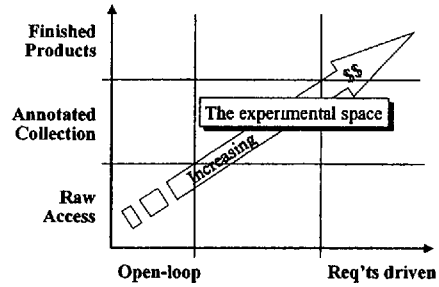
A person in the bottom right corner holds a sign with the number '6'.

Why is Open-Source Under-Utilized ?

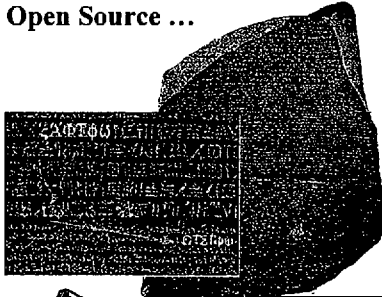
- Conservation of analyst-effort
 - Other INTs deliver products that are higher up the value chain
 - Not just raw collection, but
 - Analyzed and synthesized product, that is
 - Ready to cut and paste into an all-source product, while
 - "Open source" typically provides an Internet connection, or an unexpurgated, unevaluated, unqualified article
- Suppose
 - Open source items arrived in form similar to other single-source reporting ?



Testing the Hypothesis



Open Source ...

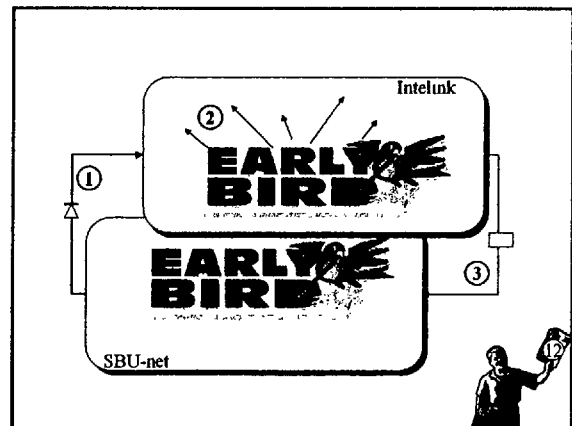
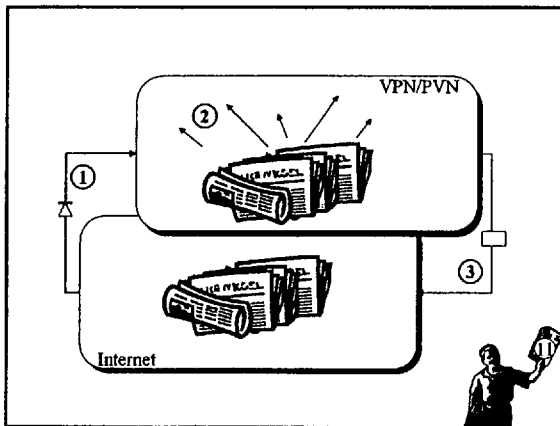


... The "Rosetta Stone"
aka The "Horizontal Integrator"



Some Simple Truths

- If an open-source specimen is related to, say, a SIGINT product and to an IMINT product, then:
 - That SIGINT and IMINT product are necessarily related (can horizontal integration be so simple?)
- If a consumer has an interest in an open-source specimen, and if that open-source specimen is related to an INT product, then
 - That user has an interest in that INT product
- There are no sources and methods issues with respect to open source



Open-Source Mediation, Cont'd

- Requirements by Example
 - “I am interested in this piece of open source, show me other intelligence products like it,” or,
 - “If you are interested in this piece of open source, can I show you other intelligence products like it?”
- The Great Collaborator
 - “You and I are both interested in this piece of open source let's talk”
 - “You two are interested in this piece of open source. . . why don't you two talk?”

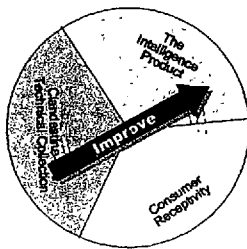


Summary of the
(unofficial) IC
Open Source
Investment
Strategy

July 29, 2001
Author: [illegible]
Reviewer: [illegible]



IC Investment Goals for Open Source



- Improve access to open sources and provide technology, training and infrastructure to integrate these sources efficiently into highest quality all-source intelligence.
- Use open sources to inform clandestine and technical collection and to free up capacity in the more expensive, politically risky collection disciplines.
- Capitalize on the consumer's own access to open sources and the way these shape their policy and operational agendas



Investment Challenges

- Large volumes of largely irrelevant information ("noise") and media which, like television, resist easy computer indexing, storage, and retrieval.
- Highly localized foreign media, which often are in indigenous language.
- The need to interact directly with open sources and to integrate them with clandestine and technical sources, which raises a security concern.
- The legal imperative to protect the intellectual property of others.



Investment Portfolio

- Investments in the sources themselves—i.e., collection or acquisition
- Investments in the people—primarily training, including language training
- Investments in technology—e.g., “data mining”
- Investments in infrastructure—e.g., unclassified, private network access
- Investments in Operations and Maintenance (O&M)
- Investments in Tasking, Processing, Exploitation & Dissemination (TPED)



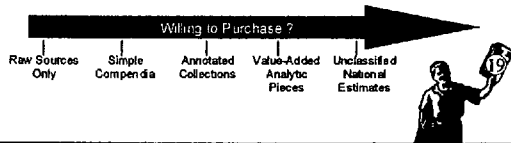
Assumptions

- Increasing availability of open sources of interest to the Intelligence Community, much in indigenous language and much of it disorganized
- Hard copy will remain important, but multi-media sources will increase in volume and importance
- Dissemination will have to be a combination of “push” and “pull”
- Commercial business models will serve the Intelligence Community well, and commercial technology will satisfy nearly all of its needs



An Open Source Commercial Strategy

- Procuring primary source materials
- Procuring value-added products
- Outsourcing
- Adopting e-business practices in the Intelligence Community



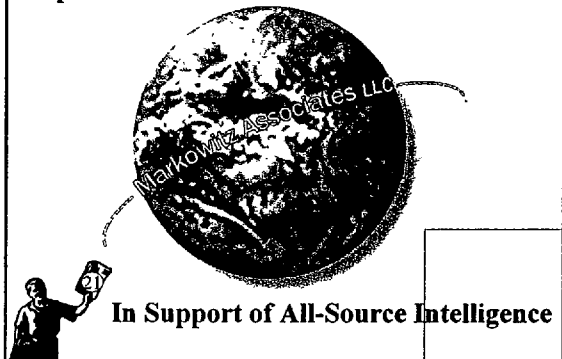
Said fast, sounds easy

"To win the undying gratitude of analysts and intelligence consumers a dozen years hence, all we have to do is right-size the Open Source investment portfolio and remove the legal, technical and cultural impediments to best use of open sources. We must

- Put a computing and communications infrastructure in place to support universal Community access to open sources in a way that supports their fusion into classified all-source analysis.
- Negotiate affordable access to commercial data sources in a way that supports sharing across the intelligence enterprise without violating intellectual property rights.
- Provide tools to process the low-grade ore and extract the nuggets



Open Source



OSS '03 BEYOND OSINT: Creating the Global Multi-Cultural Intelligence Web
Proceedings Supplement Holiday Inn Westpark Rosslyn Washington, D.C. 15-19
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