



MATERIAL

MACHINE TRANSLATION FOR ENGLISH
RETRIEVAL OF INFORMATION IN ANY
LANGUAGE

INTELLIGENCE VALUE

The MATERIAL program aims to revolutionize the way the IC consumes foreign language information, by turning multilingual text and speech media into useable intelligence information for analysts, regardless of their language expertise.

A large portion of the ever-increasing amounts of text, audio, and video data produced in today's world is being generated by populations of emerging importance in lower-resource languages. This rich source of data is of little value if the information cannot be effectively searched. Launched in October 2017, The MATERIAL program is a 47-month venture seeking to address this challenge by building robust, automated language capabilities with limited linguistic resources, expertise, and tools.

MATERIAL's ultimate goal is to build a Cross-Language Information Retrieval (CLIR)

END-TO-END MATERIAL SYSTEM

1



Analysts Query Foreign Language Speech and Text database using English

2

"air attack"
in Pashto

- Speech and text documents
- All domains

Query in English

3

Query: *air attack*

In this regard, Paktika Police Chief Paswal Ali Must Momand told Killid that two days ago a rocket landed in Damgarkh area of Barmal district, Paktika province, during an *airstrike*, a senior Al-Qaeda network leader was said to have had close ties with Yemen's Al-Zawahiri.

air: airport, aerial, airstrike

as I found out, I said that two armed militants were killed in another similar *airstrike* in the mentioned area.

air: airport, aerial, airstrike

Defense Department has also announced that it has killed a senior Al-Qaeda network commander in an *airstrike* in Paktika province of Afghanistan.

air: airport, aerial, airstrike

This document contains information possibly relevant to the following domains:

Military

Law & Order

Gov't & Politics

☐ Why?

☐ Why?

☐ Why?

Aligned Bilingual Full Document Output

Results Summarized in English



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