

1 Ingest

200+ File Types

Utilising our experience within the GEOINT community, we have built GTK to be able to import and export over 200 types of Raster and Vector, whatever its source.

2 Analysis

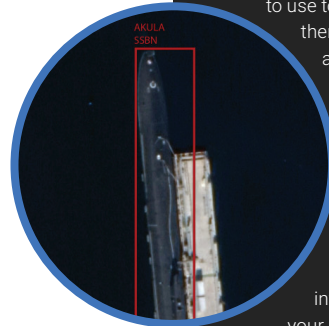
Automated Object Recognition

The OCULUS module for the GTK can provide a fully integrated AI powered object recognition solution out of the box.

3 Disseminate

Report Authoring

Being able to get your product authorised and disseminated used to be a long process, now, utilising the RIDE module, GTK provides a rapid and assured workflow for in-tooling dissemination.



The GEOINT Tool Kit delivers a concise, powerful and cutting edge solution that seamlessly integrates into your secure, disconnect environments. It provides easy to use tooling to your analysts that allows them to rapid retrieve, query and automatically analyse raw and processed collect to generate reporting immediately from within the tooling and then to disseminate it rapidly and directly to your customers. Available at the fraction of the cost of the failing legacy and monolithic programs with fully integrated support, the GTK solves your GEOINT problems today and for tomorrow.



GEOINT TOOL KIT DATASHEET

Artificial Intelligence driven solutions to your organisations GEOINT questions

We constantly strive to improve our tool kit and the modules that transform it from a simple, but powerful, GEOINT collect cataloguing tool into an AI driven ecosystem that integrates directly into your environment seamlessly. Our mission is simple, to be the best in our vertical.



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Data Points

OUR PERFORMANCE DATA

- 1 Rapid Collect Cataloging**
Running on a **single** threaded Windows VM, GTK cataloged **123** NITF 2.1 files, totalling **46.6GB** in **21.8** seconds. This works out at approximately **2.13GB** of data per second. On **four** threads, the time was **5.4** seconds or approximately **8.62GB** of data per second.
- 2 Average Record Size**
Each record stored in our **data lake** is approximately **24.7kb** in size. This contains all of the **metadata** available about each file, indexed **geographic bounds**, as well as a **community** compliant metadata model that describes its **security markings** and other information.
- 3 Almost Immediate Object Recognition**
Our current detection speed on a **single** thread and a **single** GPU is approximately **26 of 26** object types recognised in **159 ms (0.159 seconds)** on a **2048px x 2048px 3-band (RGB)** tile of around **789kb** in size. If the **GSD** was **1m per pixel** it would cover **2km** per tile.
- 4 Self-Evolving Algorithms**
For each succesful match (initially confirmed by an analyst) the **SENTINEL** algorithm will **re-train** its self with positives and false-positives.
- 5 Multi-Layered Neural Paths and Methods for Recognition**
We haven't just put our eggs in one basket, the **SENTINEL** algorithm uses multiple object recognition approaches to determine what equipment class to assign.

Key Features

GTK IN A NUTSHELL



AI Driven

Our automated platform provides instant object detection and recognition on your collect via OCULUS



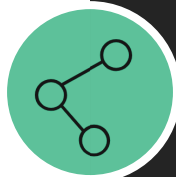
Data Lake

Our Secure Data Lake is powered by MongoDB and offers incredible analytics instantly



Security

With a metadata per entry approach in place, we append everything with its own classification amongst other key data.



Disconnected

We set out at the beginning to build a platform that was comfortable with no connection to the outside world.



Scalable

GTK was developed to be used in a virtualised architecture. It uses smart-job assignment with its agents that allows a task to split an ingest queue per thread, per VM.

e.g. 10 VM's, 8 threads per VM, 8000 images to ingest works out at 100 images per thread per VM ≈ 16 seconds for 8000 images.

Why to Choose Us?

BIGGER IS NOT ALWAYS BETTER

AIC as a business and GTK as a product are not strangers to being the smallest entity on the radar, but the fact that we are on the radar of HM Government and the Ministry of Defence for consulting and delivering truly cutting edge software is a credit to our ethos.

- W Results orientated delivery
- W Agile project conception
- W Rapidly Scalable in both technical and resource verticals
- W A lot cheaper than our competitors

Specifically with GTK, we know we are the best all-in-one platform available commercially. We are cheaper, better developed and future thinking in our approach. We do not have a huge management middle layer to fund. The cost of our tooling is re-purposed into further developing the tools you use and love and to research new techniques to help further the GEOINT mission.

Choose us because we are **better, cheaper, more powerful and robust** in our approach to developing our tools.