ORBIT LOGIC
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CASTT

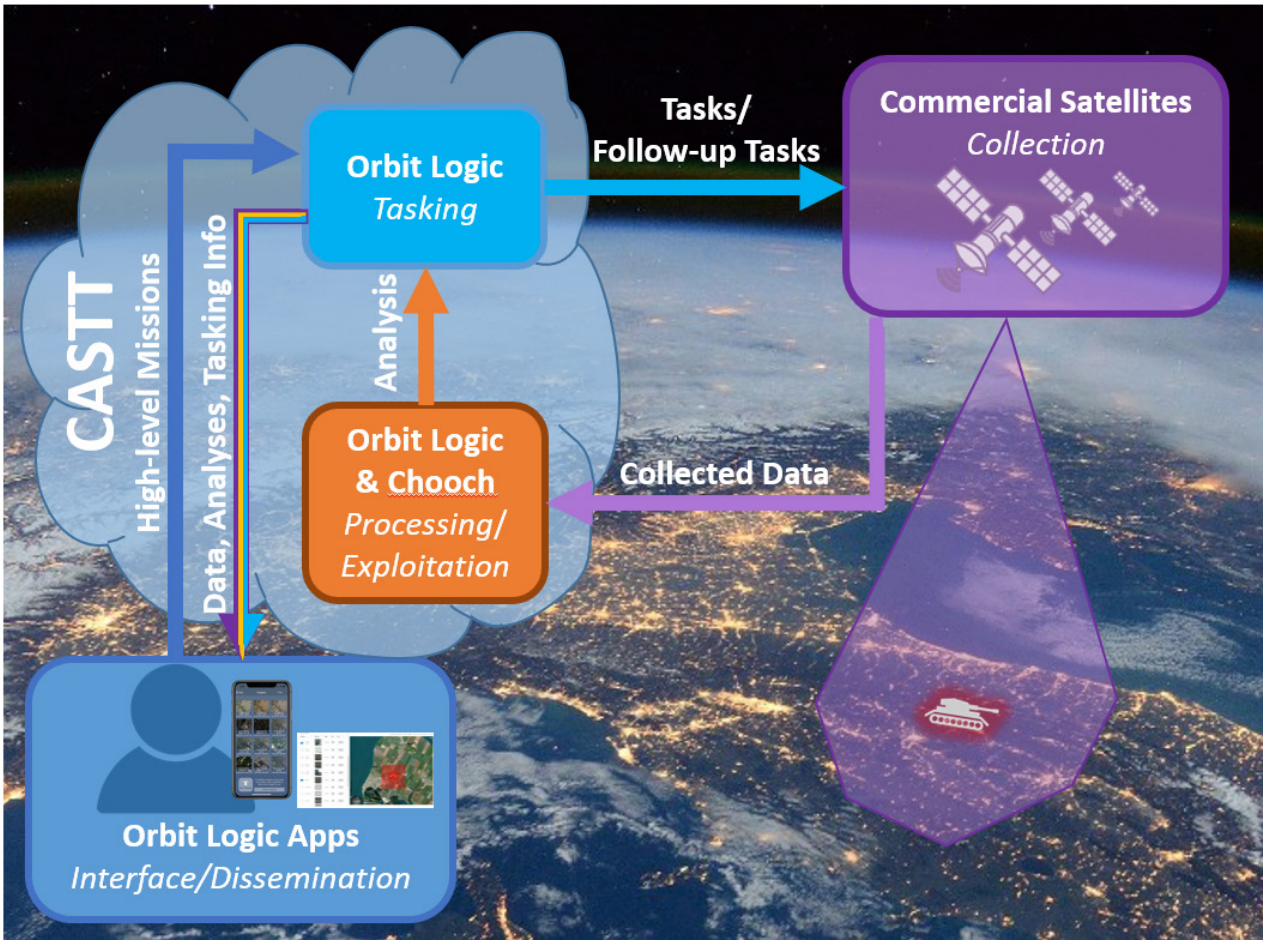
Cloud-based Automated Satellite Tactical TCPED

The **Cloud-based Automated Satellite Tactical Tasking, Collection, Processing, Exploitation and Dissemination (TCPED) (CASTT)** system connects intelligent automated software to commercial satellites for closed-loop data gathering and analytics, providing data and finished intelligence directly to end users.

Based on **high-level user-specified missions** – such as pattern of life monitoring or multi-vehicle tracking – **CASTT continuously and autonomously tasks satellites for data collection, analyzes the resulting data, and then issues follow-up collection tasks** to the satellites based on the analyses while **disseminating data and analyses directly to end users** via mobile and web apps. In contrast, the current manually intensive satellite imagery intelligence process is time consuming, laborious, and slow. CASTT automation and optimization results in **more timely information, better use of highly constrained resources, and better intelligence.**

CASTT integrates Orbit Logic's mature satellite tasking, optimized collection planning, and data dissemination software with Chooch automatic target recognition on tactical timelines. Its cloud-based architecture provides wide, secure access and scalability to add/expand automated analysis algorithms and commercial satellite interfaces. Orbit Logic leverages existing contracts with commercial satellite operators for archive imagery and satellite tasking sales to provide the CASTT system capabilities.

Beyond initial applications for the USAF, CASTT is applicable for disaster response, ecological monitoring, agricultural operations, and more.



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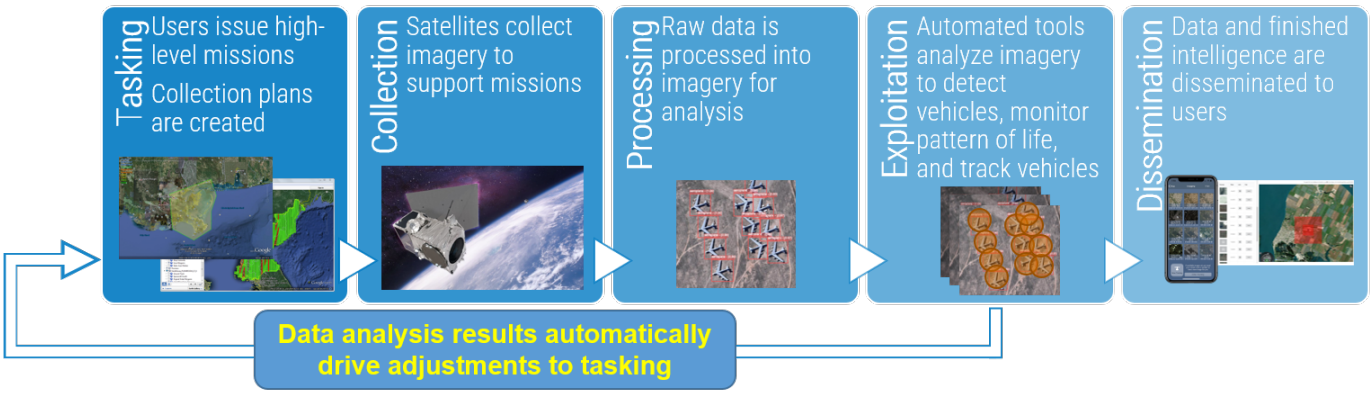

Dynamically Reactive GEOINT

CASTT is an intelligent and dynamically reactive system that **shortens the timeline between events and data collection** and **rapidly disseminates data and finished intelligence** directly to users.

- **Accelerates** Observe-Orient-Decide-Act (OODA) Loop
- Facilitates **adaptation and extension** via **modular and flexible** architecture

CASTT implements a reactive closed-loop cloud-based TCPED pipeline on tactical timelines wherein **high level goals drive automated planning to produce actionable intelligence** based on algorithmically derived analyses.

- CASTT has **API plug-in points for algorithms** performing automated target detection, tracking, image processing, or other analyses
- Standardized APIs enable the use of algorithms developed by **multiple providers**

"Through the proliferation of satellites populating Low Earth Orbit (LEO), it will soon be possible to perform certain time-critical sensing missions from space. We are excited to work with experienced partners like Orbit Logic and Chooch towards harnessing the tremendous amount of data generated by space-based sensors and making it available in near real-time to Air Force decision makers."

- Dr. Andre Van Rynbach, AFRL // RY

About Orbit Logic

Orbit Logic specializes in mission planning and scheduling solutions for aerospace and geospatial intelligence. Orbit Logic's operationally proven COTS products create better plans faster with fewer resources for all mission phases. Orbit Logic services are available to configure, customize, and integrate Orbit Logic's mobile, web-based, desktop, and flight software applications to provide turn-key operational solutions that leverage the latest available technologies to meet customer goals and exceed their expectations.

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About Chooch

Chooch has engineered a leading AI Vision platform that instantly detects specific visuals, objects, and actions in videos and images, especially critical anomalies, immediately comprehending their significance and launching preprogrammed responses – all in a fraction of the time it takes the human eye to notice an issue. Chooch services multiple industries – manufacturing, public sector, retail, telco, healthcare and many more across fortune 500 companies with leading partner including Microsoft, Deloitte, Nvidia, EY and HPE.

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