AGILE FORGE
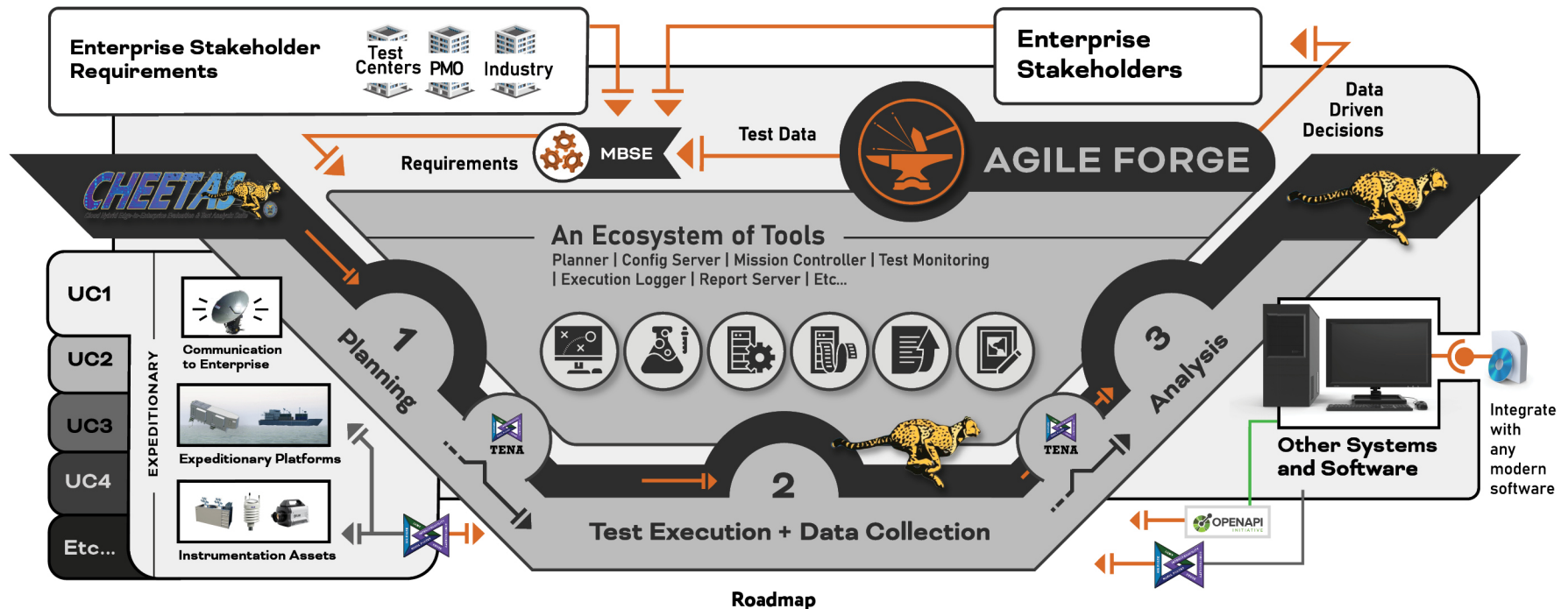
A modular, flexible, and extensible architecture to integrate the T&E lifecycle into a cohesive ecosystem

AGILE FORGE
DOMINATE THE EDGE

Enterprise Stakeholder Requirements

Test Centers | PMO | Industry

Enterprise Stakeholders

Data Driven Decisions

Requirements | MBSE | Test Data

AGILE FORGE

CHEETAS

An Ecosystem of Tools
Planner | Config Server | Mission Controller | Test Monitoring | Execution Logger | Report Server | Etc...

1 Planning

3 Analysis

EXPEDITIONARY

- UC1
- UC2
- UC3
- UC4
- Etc...

Communication to Enterprise

Expeditionary Platforms

Instrumentation Assets

TENA

TENA

2

Test Execution + Data Collection

OPENAPI INITIATIVE

Other Systems and Software

Integrate with any modern software

Roadmap

① Planning Capabilities

- Experimentation design
- Instrumentation configuration
- Geospatial visualization

② Test Execution + Data Collection Capabilities

- Centralized configuration tracking
- Command and Control (C2) with health and status monitoring of all test assets
- Execution logging for real-time and post-test capture
- Automated job triggering for data packaging

③ Analysis Capabilities

- Near real-time data analysis and anomaly detection
- Data package management
- Automated analysis pipelines
- Report creation and centralized reporting

Product Highlights

Agile Forge (AF) is a service architecture focused on **modular** tools, each dedicated to a specific capability. These tools are designed for seamless interoperability with other AF tools, expeditionary platforms, instrumentation assets, DoD architectures, and GOTS and COTS systems through **open** interfaces. The **system** enables you to select AF tools integrate them with other systems and software, such as Active Directory, CAC authentication and Power BI, for your **approach** in your ecosystem.

AF tools are deployed utilizing software containers to provide a **hardware and platform agnostic solution**. This focus on modularity and containerization enables AF to be deployed across **expeditionary, enterprise, and cloud networks**, ensuring users have a consistent ecosystem regardless of their location.

Each AF tool employs a **data-centric design** to allow **standardized data** to be passed throughout the system, providing **data traceability** from planning to analysis. These tools are engineered for **parallel data** ingestion, supporting both files and streaming data, and ensuring **data visibility** at the moment of capture - whether during planning, post-event, or post-test.

This approach results in increased data volume, enhanced communication of data, and early data availability, leading to more informed **data-driven decisions**. The system's interoperability allows for easy integration with existing **big data** repositories and analysis tools, facilitating comprehensive, **integrated analysis**.

The AF architecture, design, and deployment structure form a cohesive ecosystem for **lifecycle optimization**. Seamless integration and interoperability enable rapid data flows between tools, while consistent availability minimizes delays, shortens the learning curve, and accelerates staff onboarding. By bridging gaps between the phases of testing and evaluation, this connectivity effectively removes silos and enhances overall efficiency.

Contact GaN or RTC to discuss your needs and how Agile Forge can fit into your existing infrastructure and systems to help further your **digital transformation** and **modernization**.

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