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Artillery

Fire Control System



What is a Fire Control System?

An artillery Fire Control System (FCS) plays a pivotal role in modern warfare, enhancing the efficiency and accuracy of artillery operations.

The FCS is a composite system of personnel, equipment, and procedures that assist artillery units in planning, coordinating, and executing artillery fire missions.



Without a Fire Control System...

**Targeting
Difficulties**

**Manual determination
and tracking of targets.**

**Fire
Miscalculations**

**Increased chance of errors
due to manual calculations.**

**Lower
Firing
Speed**

**Manual
firing processes.**

**Decreased
Efficiency**

**Manual corrections and
optimizations needed.**

**Higher
Personnel
Requirement**

**More personnel needed
due to lack of automation.**



With a Fire Control System...



Improved Targeting

Automated and more accurate targeting.

Automated Fire Calculations

Reduced errors and increased accuracy.

Increased Firing Speed

Faster engagement with targets.

Enhanced Efficiency

Improved overall operational efficiency.

Reduced Personnel Requirement

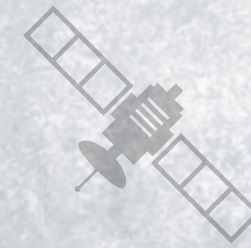
Less personnel needed due to automation.

Key Missions



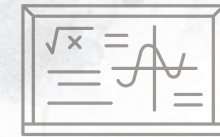
Target Acquisition

The FCS gathers data from various sources, such as forward observers unmanned aerial vehicles (UAVs), satellites, radars, or other intelligence sources to locate and track the target.



Fire Calculations

The FCS computes fire parameters such as elevation, azimuth, and firing speed considering multiple variables, including the location of the target, the position of the gun, atmospheric conditions (wind speed and direction, temperature, etc.), type of ammunition, and other factors.



Weapon Settings

Once calculations are complete, the FCS provides instructions to the operator regarding the necessary elevation and azimuth settings for the gun barrel.

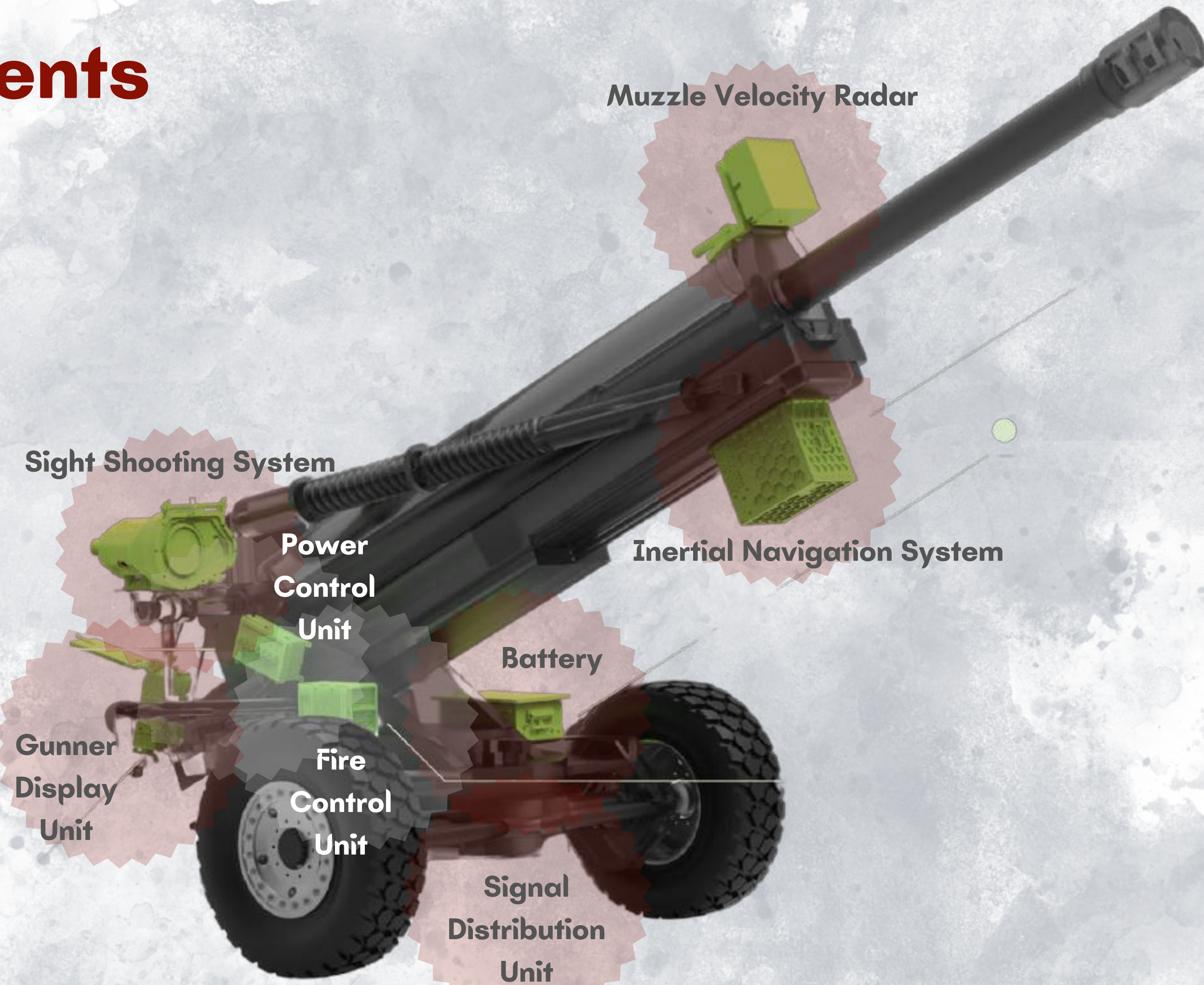


Tracking Firing Results and Correcting Settings

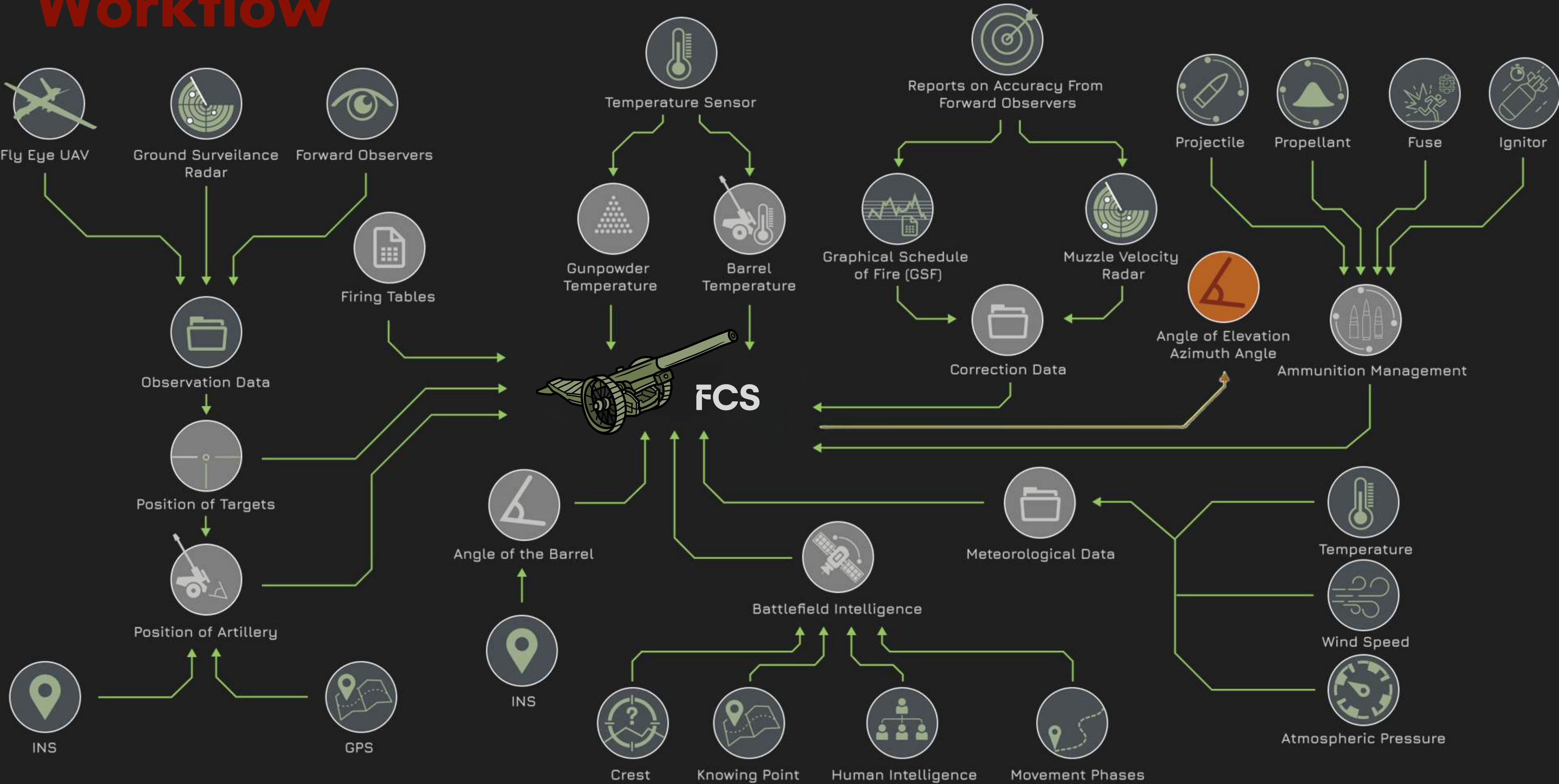
The FCS monitors post-firing target and corrects firing settings when necessary.



Components



Workflow





For a much stronger, faster and sharper artillery unit...