

# *Fire Control Systems*



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**BRASHEAR LP**



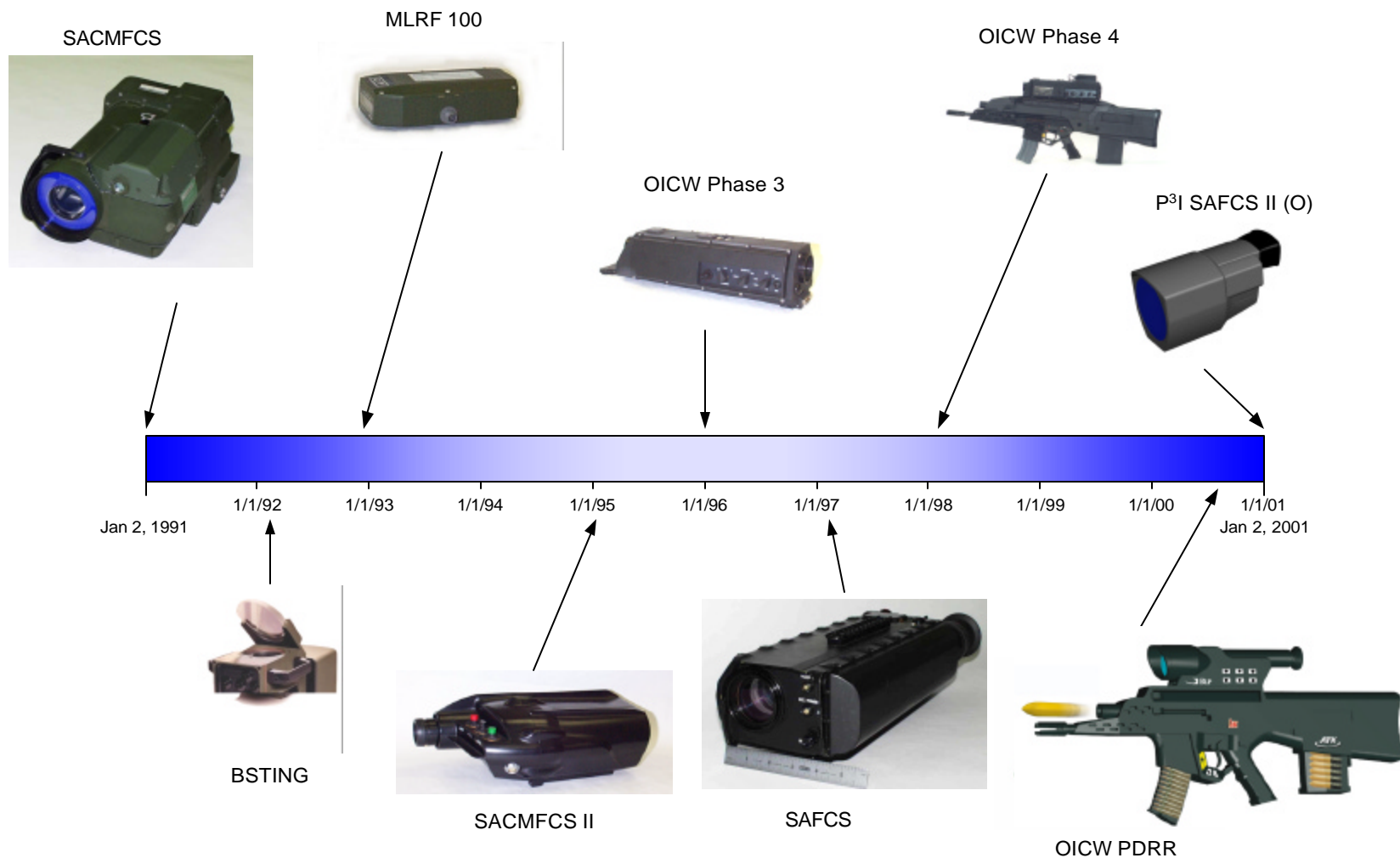
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- **Designing a fire control system that can withstand the military environment within size & weight constraints**
  - Soldier handling is significantly more severe than the weapon firing shock
- **Designing a sophisticated fire control system that provides simple, intuitive operation**
  - Soldiers are upgrading from standard weapon iron sights
- **Designing a reliable, cost effective fire control system**
  - Widespread deployment requires management of total ownership cost
- **Designing a fire control system that significantly improves soldiers effectiveness - lethality & survivability**

The Futuristic Digital Battlefield requires systems that provide full day/night operation with communications capabilities

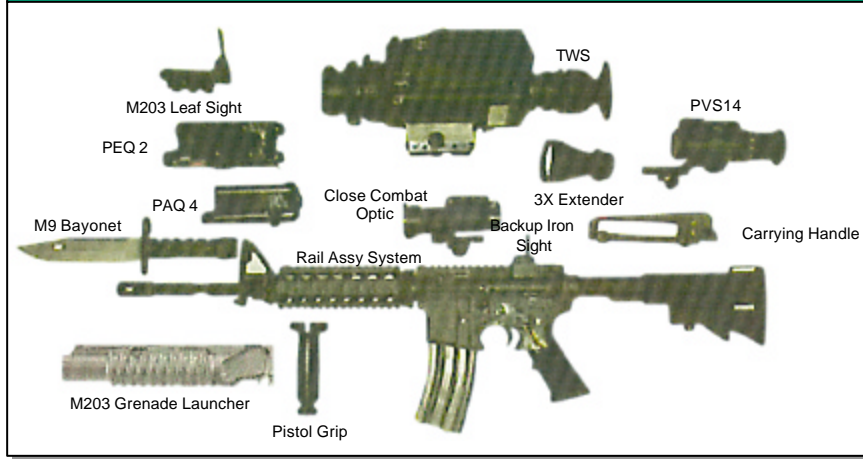
# Individual & Crew Served Fire Control Systems



# Maturing a Vision



## Modular Weapon System



## OICW



**Integrated System—Enhanced Capability  
– Simplified Logistics and Maintenance**

## Bursting Munitions

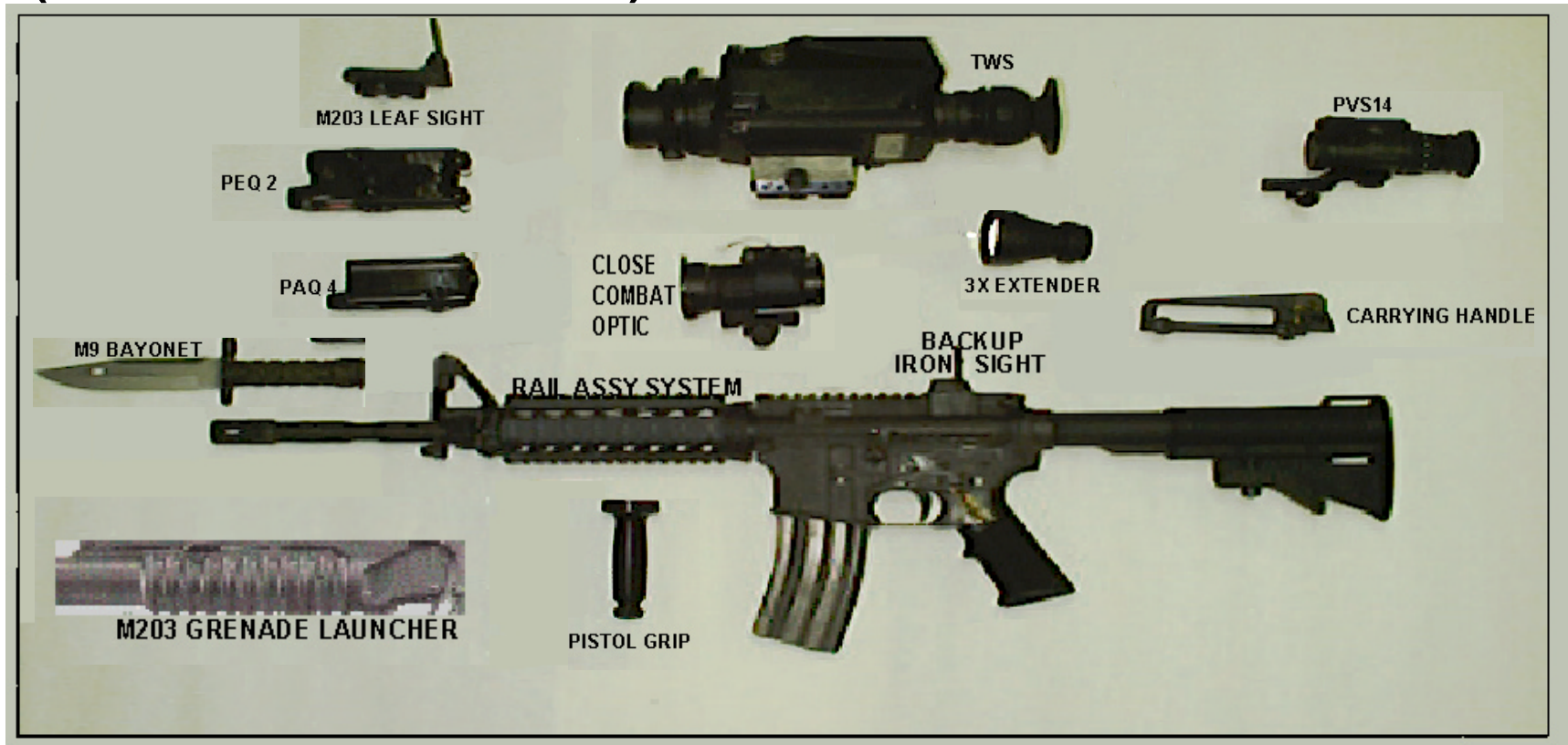


**Transforming Infantry Capability  
OICW Complements and Expands  
Today's Capabilities**

# Modular Weapon System - M4 Carbine



Total Weight: 28.0 lbs + TBD (LRF, Compass, Video, etc)  
(Uses 5 different batteries)



Difficult system operation with the large number of buttons,

# OICW - 20 mm Airburst & KE Capability



<14 lbs. & Goal 10 lbs.



Sub-Module
Laser Range Finder
Housing
Controls
Power Source
CPU
Ballistic Computer
Fuze Setter
Display
Video
Direct View Optics
Thermal
Tracker/Laser Steerer
CIDDS
Compass
Aimlight
Laser Illuminator
MILES
Embedded Training
Bore Sighting
Zero
LW ICD

# Conclusion



- **Perform system level functional module Value Assessment, QFD, & CAIV to determine the optimized functionality for the OICW System**
- **Established IPTs - FCS, Weapon, Ammo, Systems, Test, Synthetic Environment, Supportability, Training - Government/Contractor team jointly working to develop this futuristic weapon system**
- **Investigating emerging and future materials along with advanced manufacturing processes to minimize weight, power, and cost**