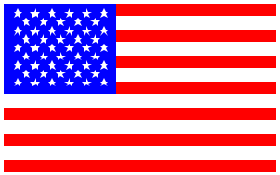


Fire Control Systems

Pete Plocki (Brashear LP)

BRASHEAR LP

ATK ALLIANT TECHSYSTEMS

OMEGA TRAINING GROUP, INC.

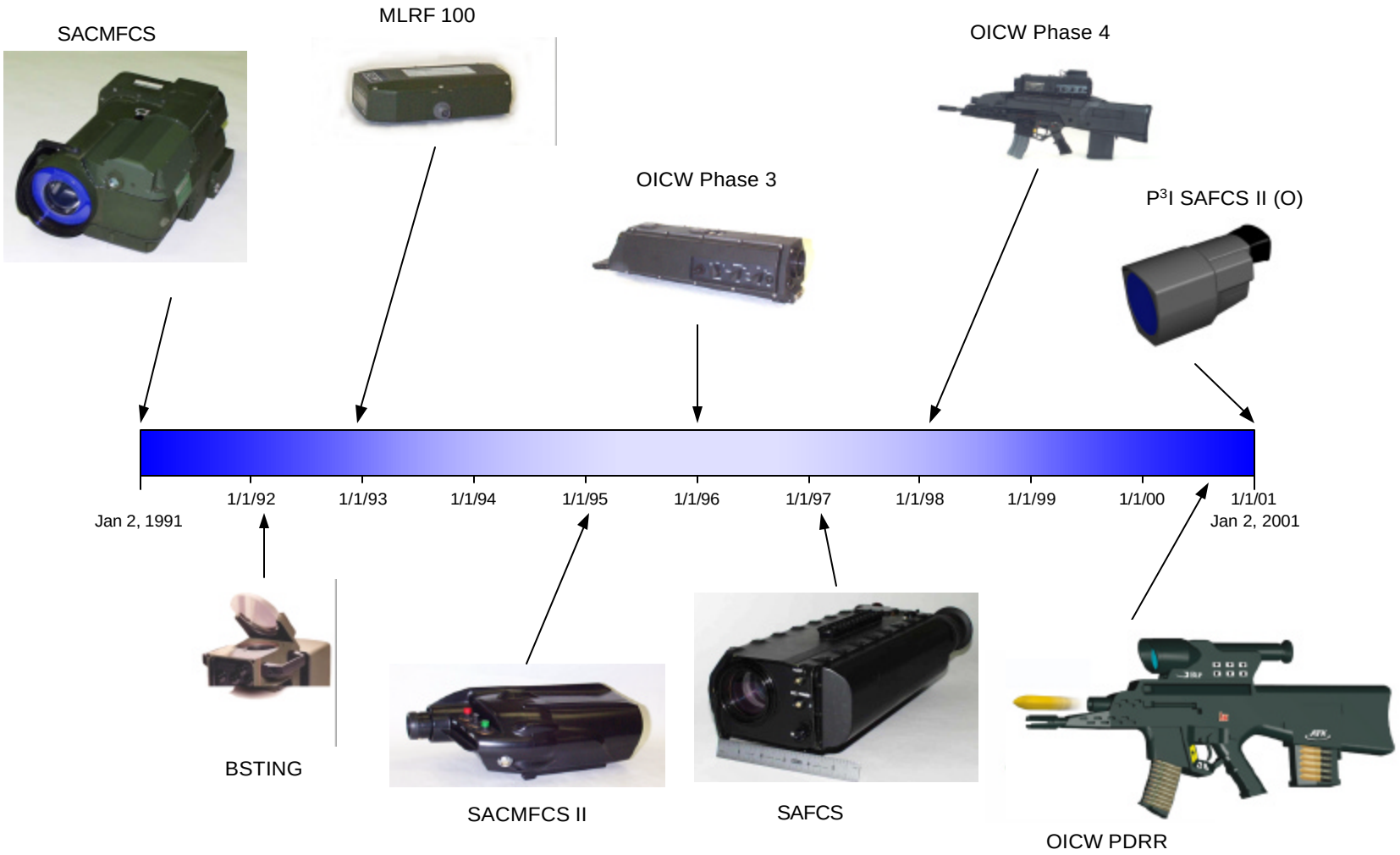
HK

FCS Challenges

- **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**

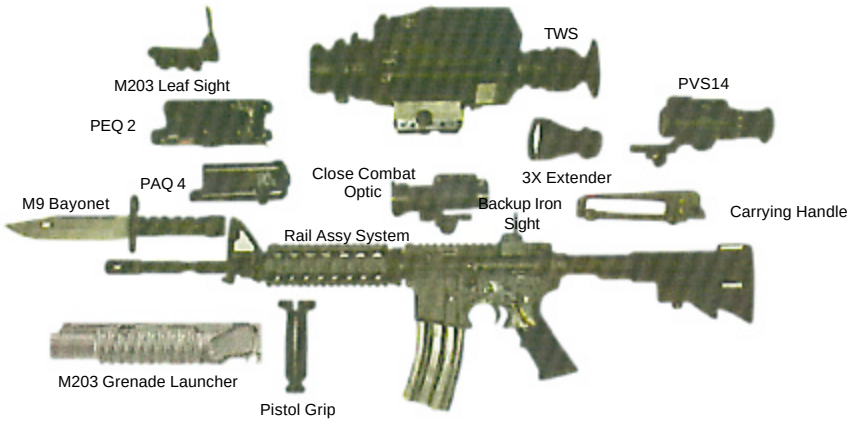
The Futuristic Digital Battlefield requires systems that provide full day/night operation with communications capabilities

Individual & Crew Served Fire Control Systems



Maturing a Vision

Modular Weapon System



OICW

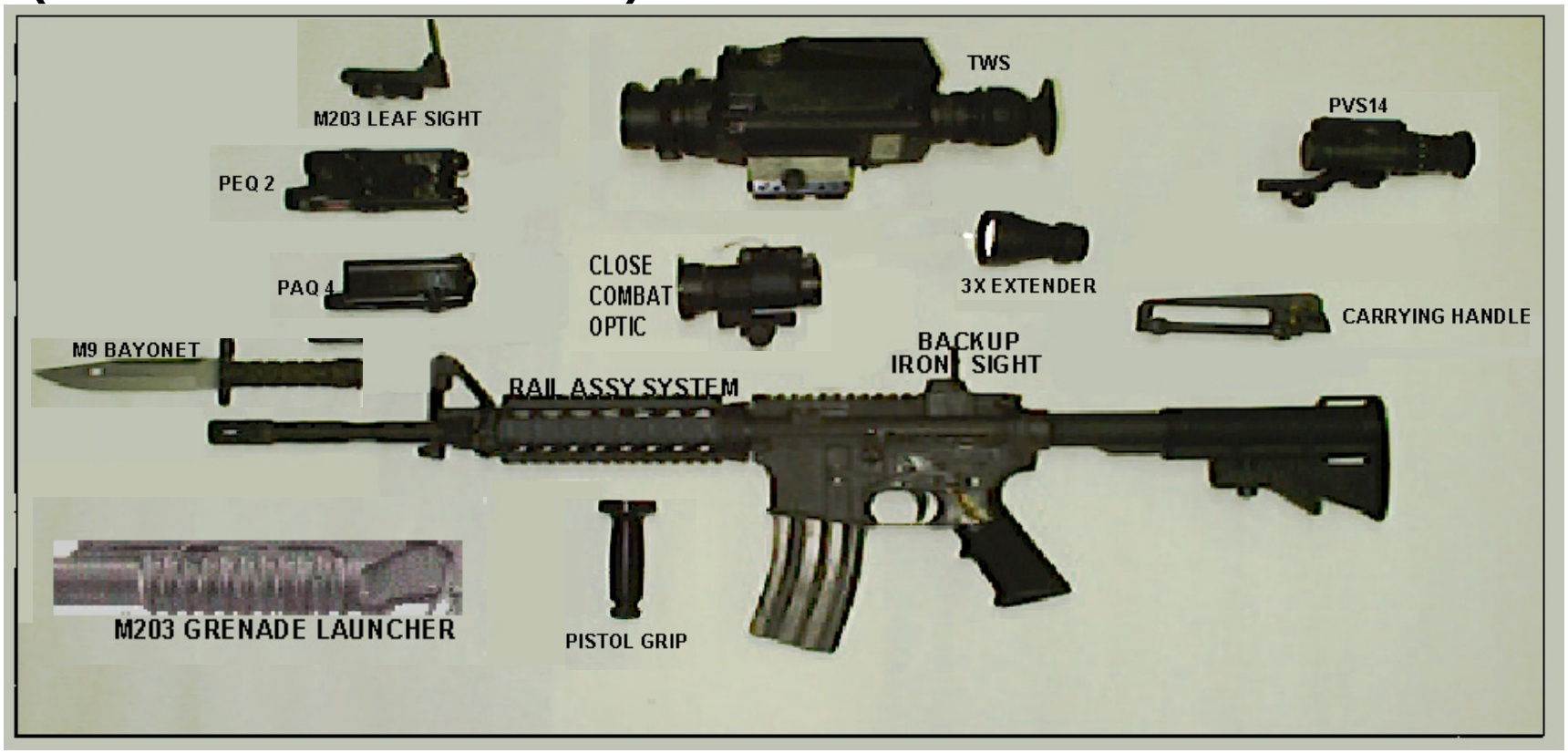
Integrated System—Enhanced Capability – Simplified Logistics and Maintenance

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**