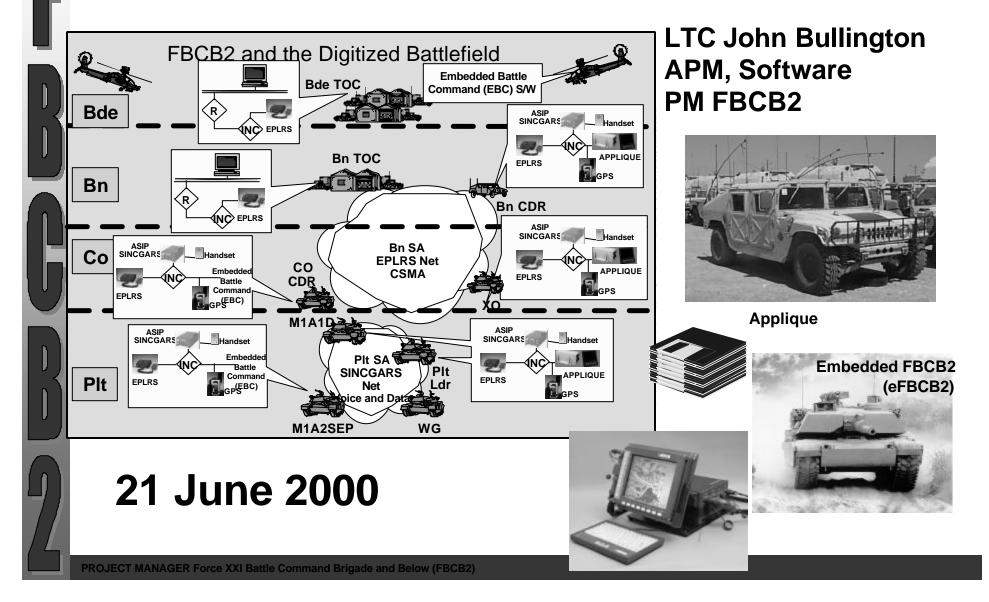


Firepower 2000 -Artillery Symposium

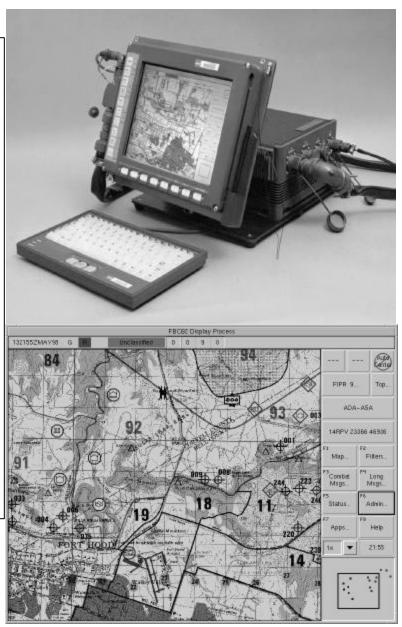


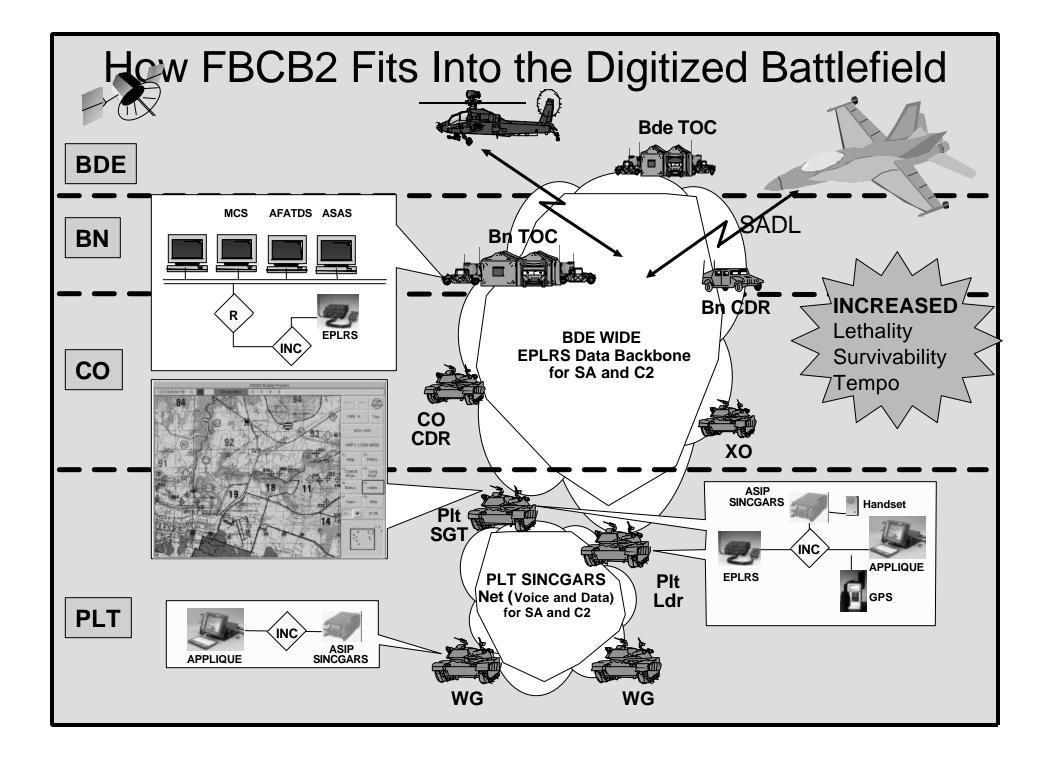


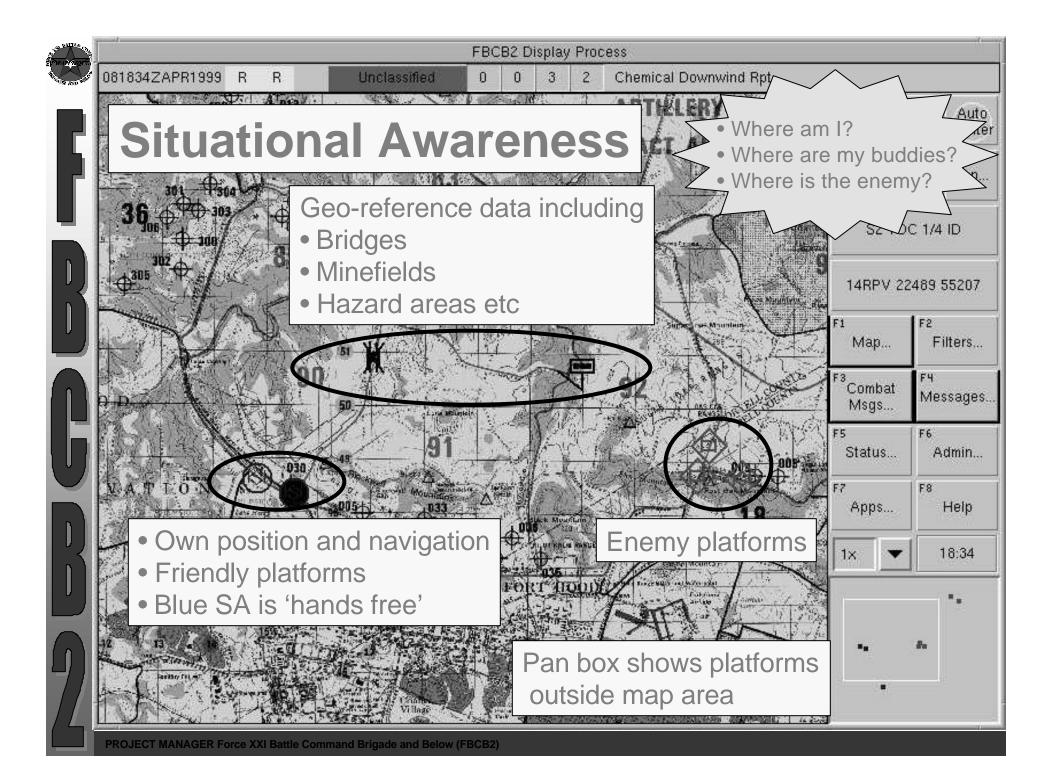
Force XXI Battle Command Brigade and Below (FBCB2)

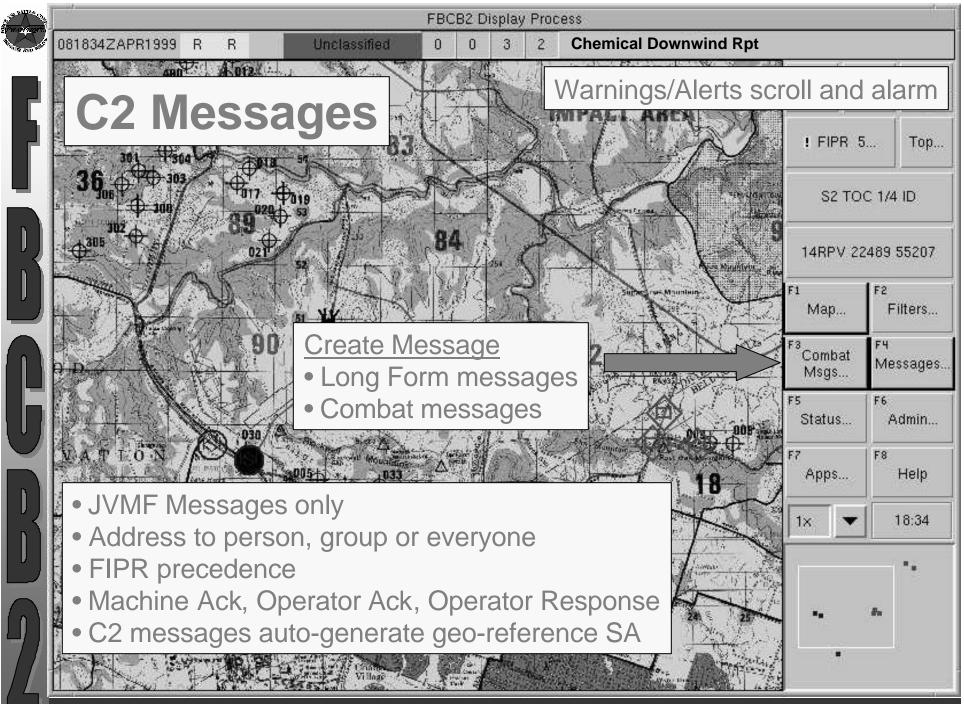
- The principal Digital Command and Control System for the Army at Brigade and Below
- Consists of Applique hardware, software and EBC software integrated into the various platforms at Brigade and below, as well as appropriate Division and Corps slices necessary to support Brigade operations
 - Interconnects platforms through a communications infrastructure called the Tactical Internet made up of existing EPLRS and SINCGARS radios to pass Situational Awareness (SA) data and Command and Control (C2) messages

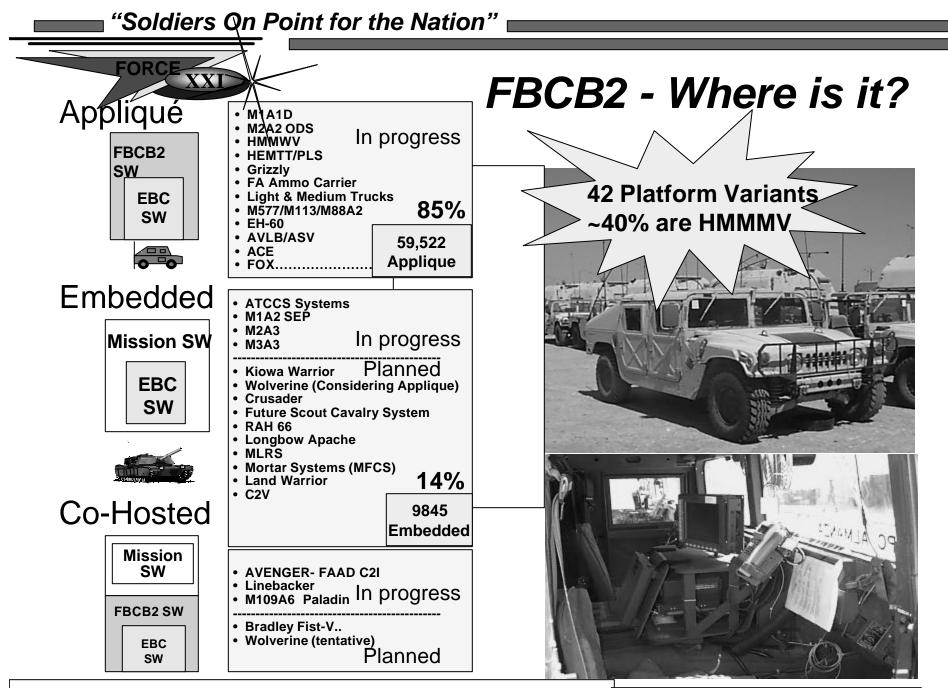
Situational Awareness is Life









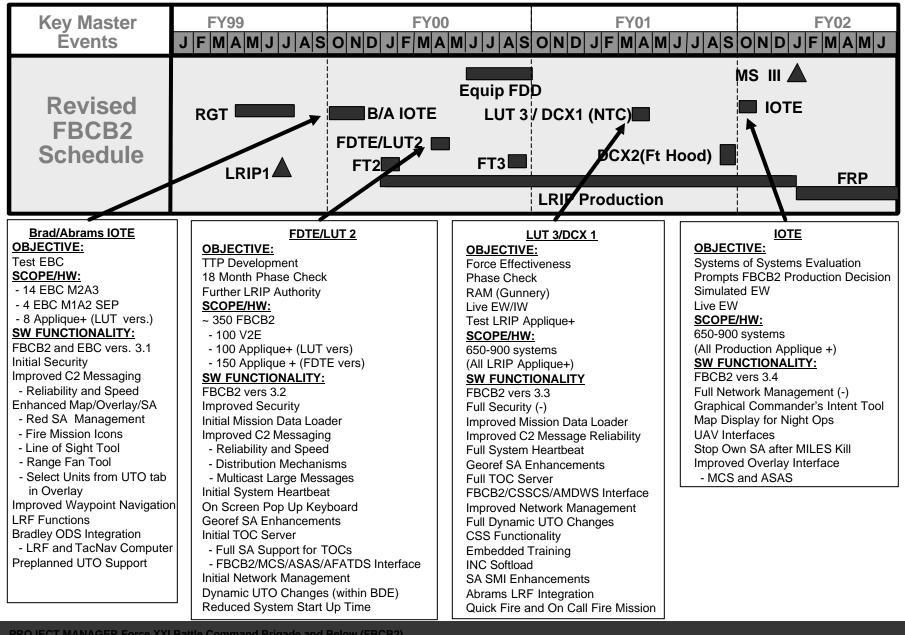


"The Army--Persuasive in Peace, Invincible in War"

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Test Objectives, Scope and Functionality

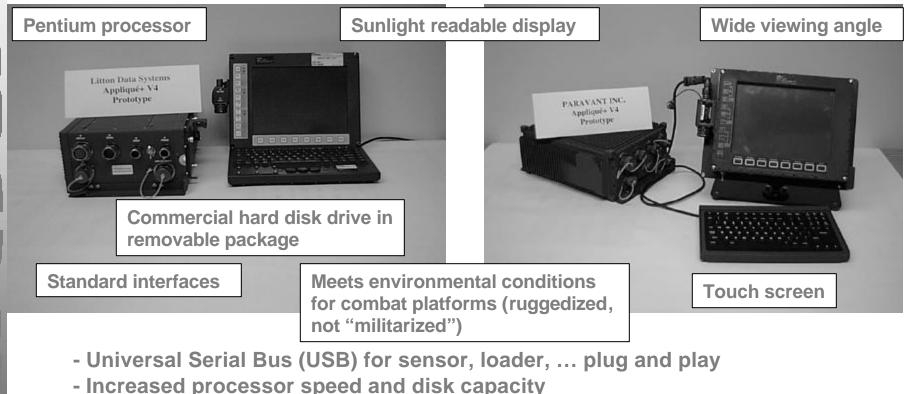


Hardware Evolution

ſ	TF XXI Mar 97	LUT I Aug 98	FDT&E/LUT II Apr 00	LUT 3/DCX1/IOTE FY01
B	V1 (Commercial) V2 (Ruggedized)	Current Hardware	Current Hardware	LRIP Hardware
	V3 (MIL SPEC)	V2 Enhanced (Ruggedized)	V2 Enhanced (Ruggedized)	Exterior Dimensions the Same Upgraded Technology and Design Inside Two manufacturers selected
b	Combination of COTS Ruggedized and Military Computers	Sunlight Readable Display Touch Screen	Same Box With Reliability and Design Improvements Fixed Power Supply design and other reliability problems	Same Footprint Improved Reliability Reduced Power/ Heat Increased processing performance HEMP protection Built in Test Designed for Tech Insertion
	Software Version Mar 97 PROJECT MANAGER Force XXI Bar	V2.1 Aug 98 ttle Command Brigade and Below (FBCB2)	V3.2 May 00	V3.3 Apr 01



LRIP Computers (Appliqué+ V4) Provided By Litton Data Systems and PARAVANT Inc.

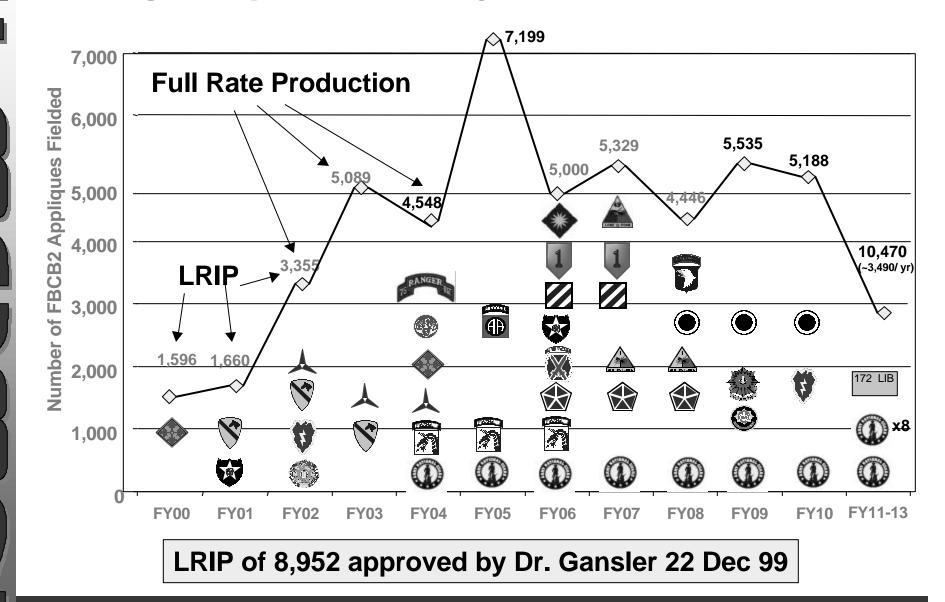


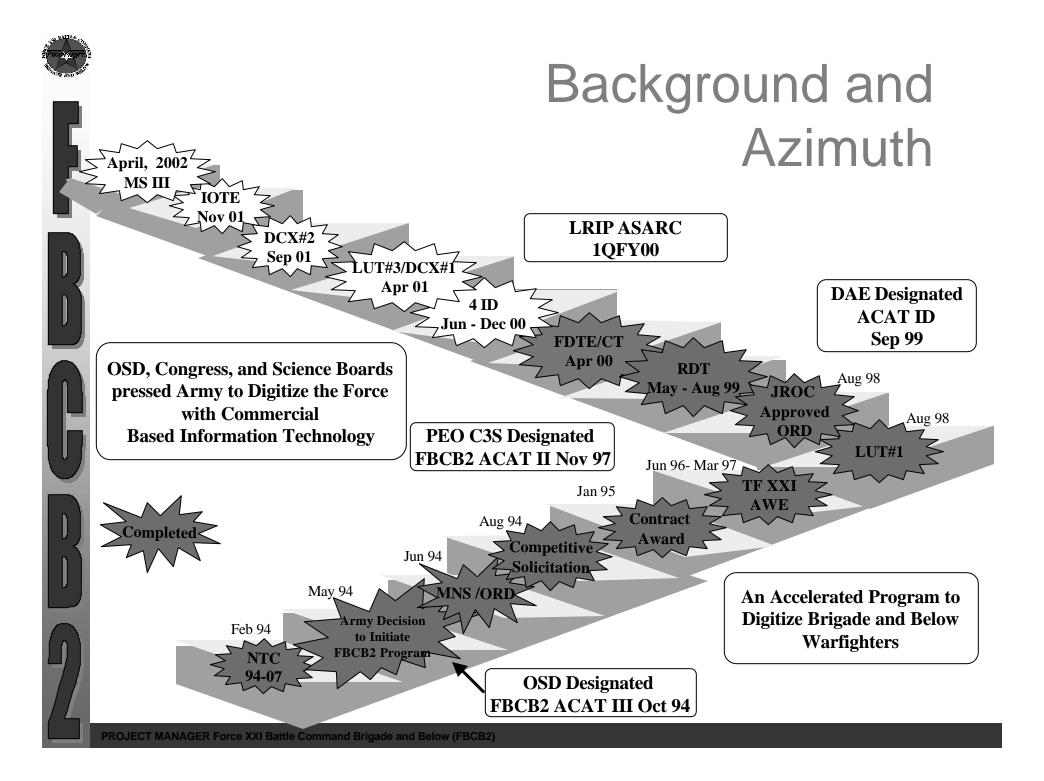
- Increased processor speed and dis
- Lower power chips
- LRU interchangeability = Processor's, display's, and keyboard's
- Identical form factor to protect IK investments

Both hardware & contract designed to facilitate technology insertion



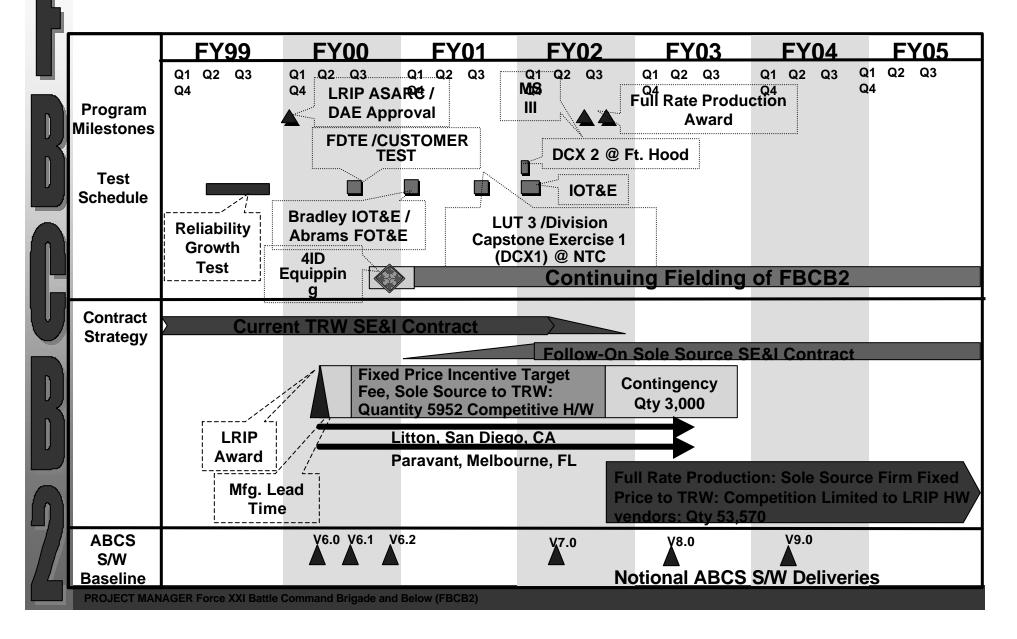
Production & Fielding Plan Army Acquisition Objective is 59,522

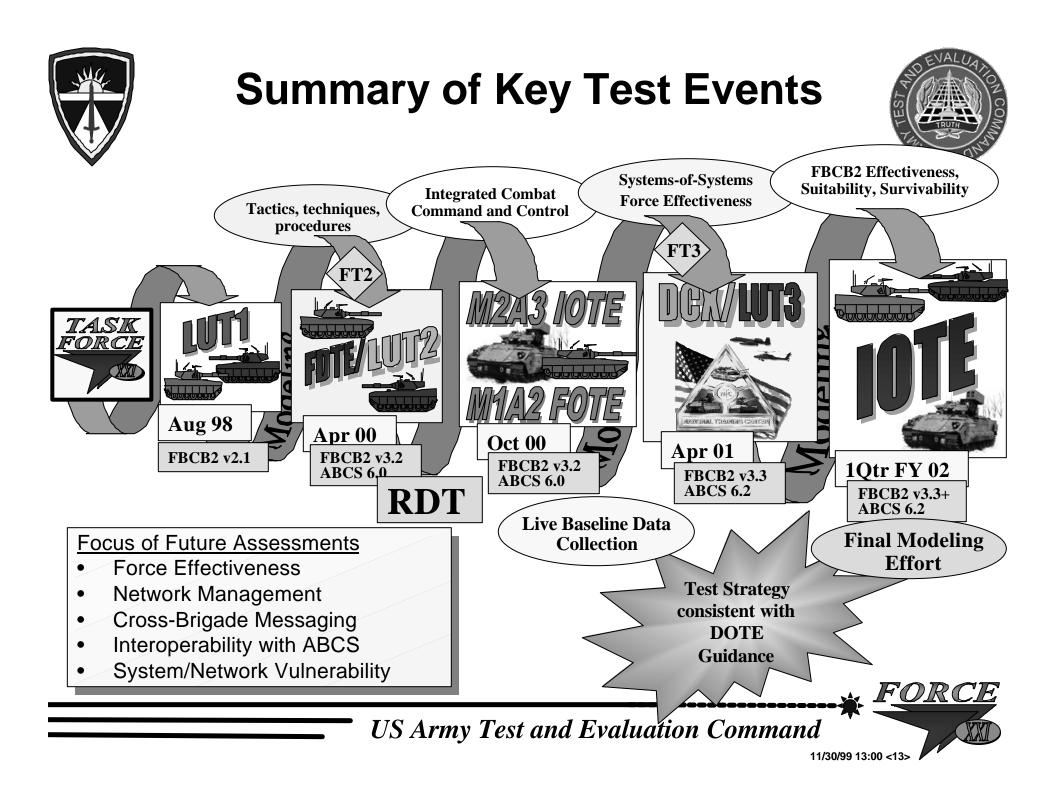






Program Schedule







FBCB2 and the Artillery Community



Crusader Embedded FBCB2 (eFBCB2) Card.



Paladin

FBCB2 V4 processor Integrated with onboard Fire Control Computer, sharing enhanced display.



AFATDS

Embedded Battle Command (TOC Server).

To be embedded for DCX.



B-FIST

No integration efforts planned.



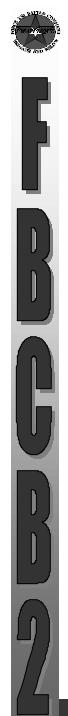
To be fielded to 4ID for FDD.

FIST-V

Integration of FBCB2 with Forward **Observer System**

(FOS) to eliminate Air Gap.

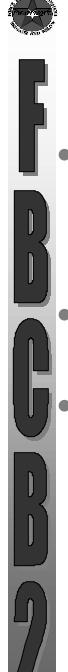
Demo in Nov 00. Fielding to 4ID for FDD.



Paladin Digitization With FBCB2 Software And Hardware

- TRW has contract to develop an Enhanced Display Unit (EDU) for Paladin to support FDD
 - Delivery order to start received in October 1999
- Applique+ V4 will be used for the processor
 - New console and display being developed
- Standard FBCB2 Version 3.3 software will be used for FDD
 - Small software tailoring to be completed to support interaction with Fire Control computer

Paladin's approach exploits FBCB2 standards and investment; it also greatly facilitates synchronization of technology insertion.



Paladin EDS Overview

- Objective: add FBCB2, integrated with existing Fire Control
 - Replace obsolescent FC Display/Keypad
 - Mission-critical design
- Customer: USA, PM FBCB2 & PM Paladin
 - Schedule: Nov '99 Dec '00
- TRW Role: Prime Contractor, turnkey responsibility
 - Modify Fire Control & FBCB2 software
 - Develop new Fire Control Keypad
 - Design, integrate, install, test, train



