

WEBsked:

Web-Based Scheduling to Improve Resource Utilization and Contingency Planning

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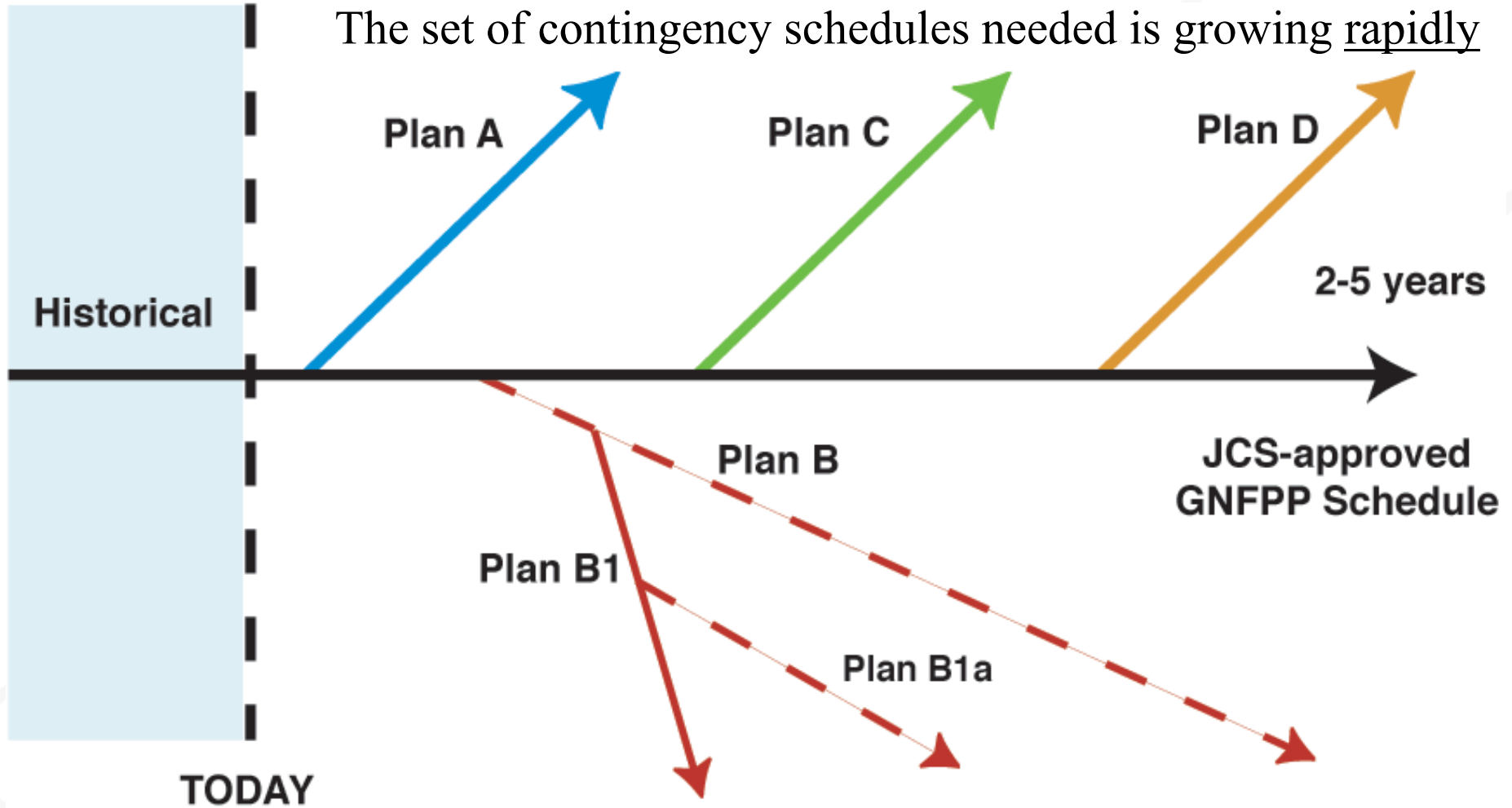
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2004 Command and Control Research and Technology Symposium

- Year 2001: Scheduling of Navy's 932 Units of interest being done with
 - Legacy Message Systems
 - HTML
 - Various COTS spreadsheets
 - **PAPER and PENCIL!**
- **No common integrated picture**
 - Information scattered among dozens of Commands and Websites
- **No collaboration for planning**
- **No consistent way of knowing when plans change**

The Contingency Planning Problem



06/17/2004

SECDEF requirement for “Surge Capability” will change Navy scheduling as we know it

- Entirely web browser-based system for scheduling and planning the movement of major maritime assets, such as ships, squadrons, and other embarkable Units
- Part of the Global Command and Control System-Maritime (GCCS-M) Program of Record
- Sponsored by PEO C4I & Space PMW-157
- The Navy Standard Operational Scheduling System
- Multiple servers clustered over SIPRNET
- First Deployed in June 2002

Features

- Visual Scheduling
- Automated Workflow
- Email Notification
- Common Schedule Picture
- Ad Hoc Reporting
- Planning Decision Aids
- Fuel Planning and Estimating
- Support for Large Sets of Contingency Plans
- Force Planning and Allocation
- Mission Needs Brokering (Services)

Schedules Maintained

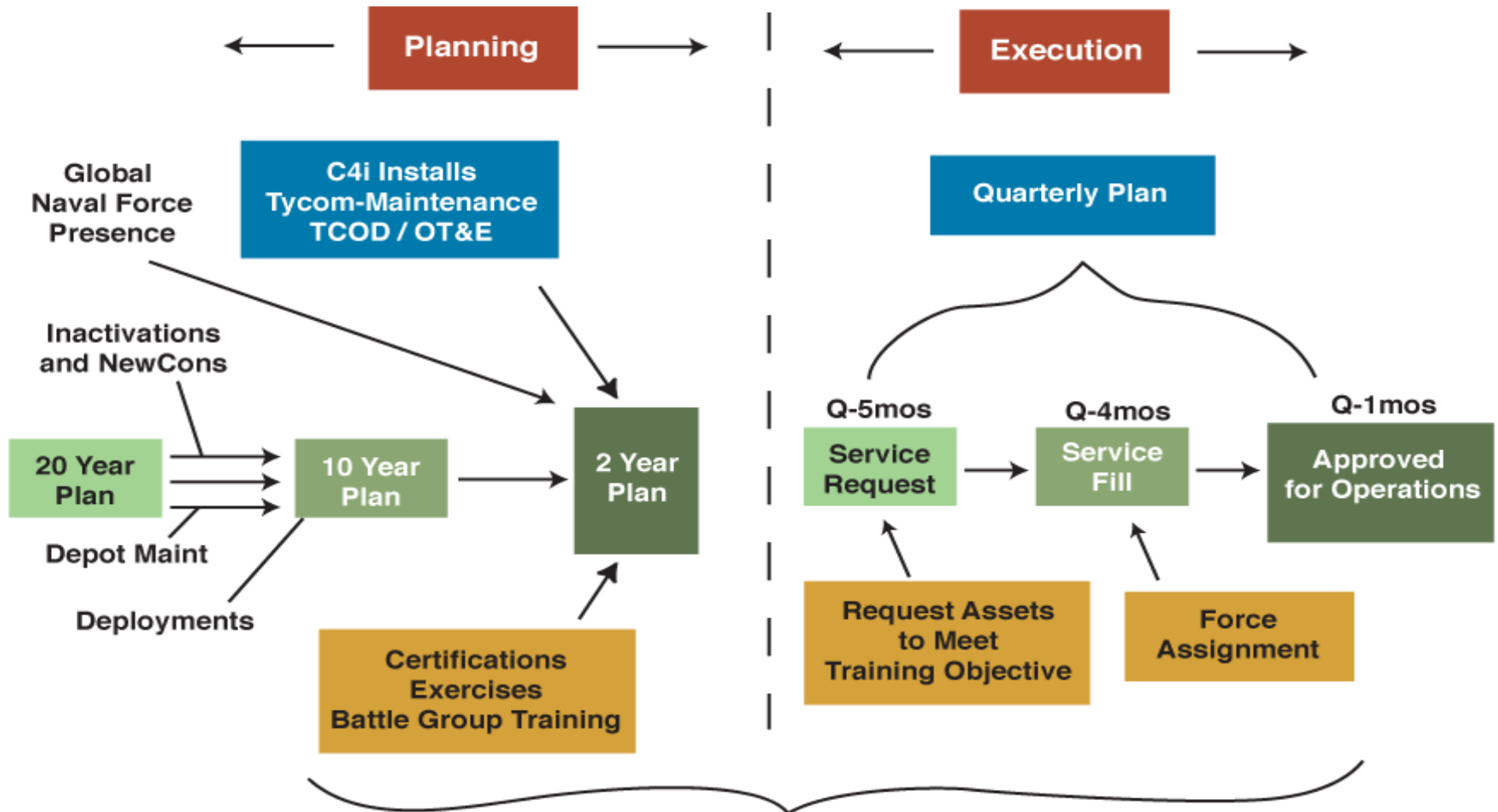
- Global Naval Force Presence Schedules
- Deployment Schedules
- Contingency Planning
- Modernization Schedules
- Exercise Schedules
- Transit Schedules
- Services Schedules
- Mid Range Battle Group Training Cycle Schedules (import)
- Operational Schedules
- Historical schedules (last 10yrs of operational schedules)

The screenshot shows the WebSked application running in Microsoft Internet Explorer. The browser address bar displays the URL: <http://websked.c4i.cf.navy.smil.mil>. The application interface includes a navigation menu with options like NEWS, SCHEDULING, REFERENCE DATA, GROUPS, REPORTS, ALLOCATIONS, SERVICES, and HELP. Below the menu, there are buttons for Profile, Logout, Approved, Proposals, Support, and XSOA Calculator. A central section displays the current view: * DEMO (CINCLANTFLT) from 04/01/2004 to 06/30/2004. This section includes buttons for Legend, Text View, Refresh, Validate, Preferences, Delete, and Fuel Burn. The main timeline display is organized by month: Apr-2004, May-2004, and Jun-2004. Each month has a grid of days with status indicators (T, F, S, S, M, T, W, T, F, S). Two operations are detailed:

- ENTERPRISE** (CINCPACFLT (N00070))
 - UPK : NORFOLK VA : CARC XSI COMPTUE XSIT
 - UPK : NORFOLK VA : CARC IPT : XSIT ITA : XSI JTFEX : POM : C
 - ASGN : : CTF 029
 - NOTE : : NPMTT :
 - All Services: DTE : D
 - All Services: U
- LEYTE GULF** (CINCLANTFLT (N00060))
 - UPK : NORFOLK VA : TST XSI COMPTUE XSIT
 - FMAV : NORFOLK VA : JTFEX : XSIT VST XSI JTFEX : POM :
 - ASGN : : CTF 029
 - BASIC : BOSTON TY OPEVAL : SOUTH C4I : NORFOLK VA : C NPMTT :
 - NOTE : : BGIT : S
 - All Services: D DLQ :

WebSked Consolidates Force Allocation, Modernization, Exercise, Training, and Services into the Operational Schedule

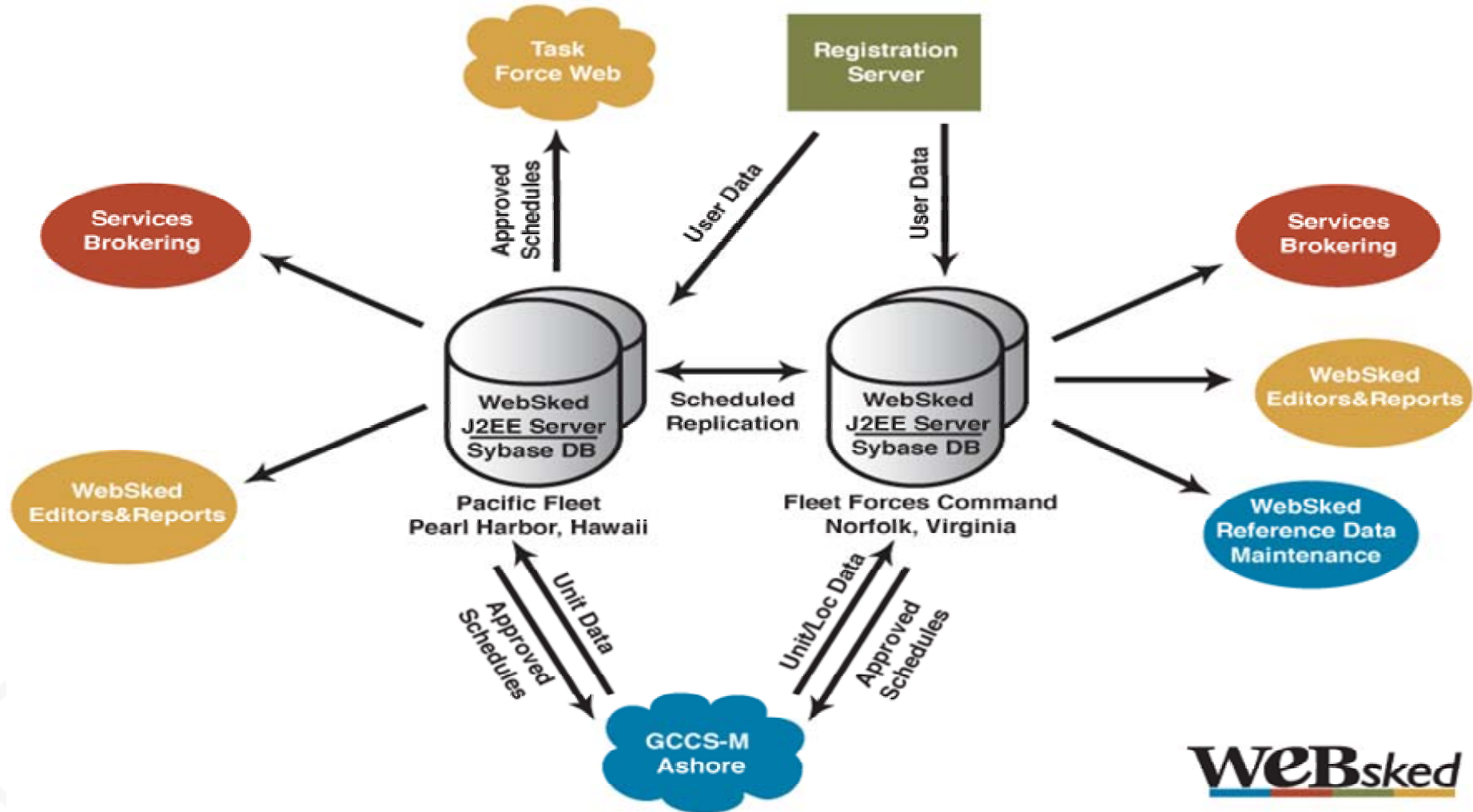
The Navy Schedule Planning and Execution Process



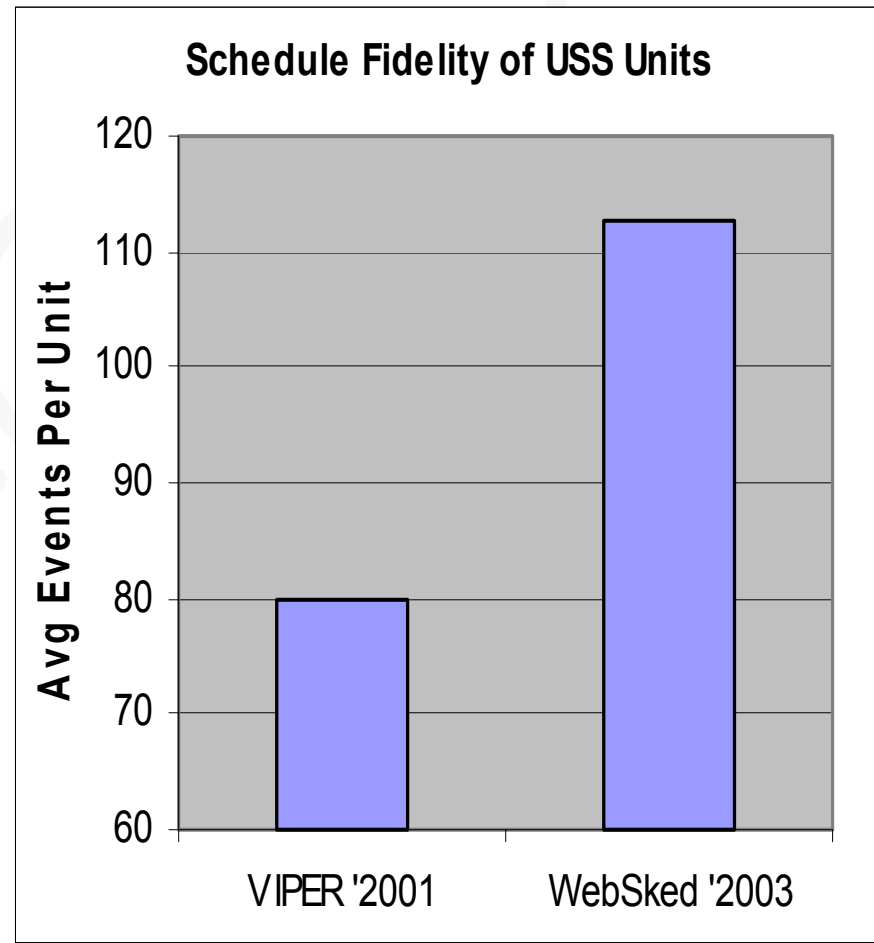
WEBsked SERVICES

Matching Warfighter Mission Needs to
Employment Assets Worldwide

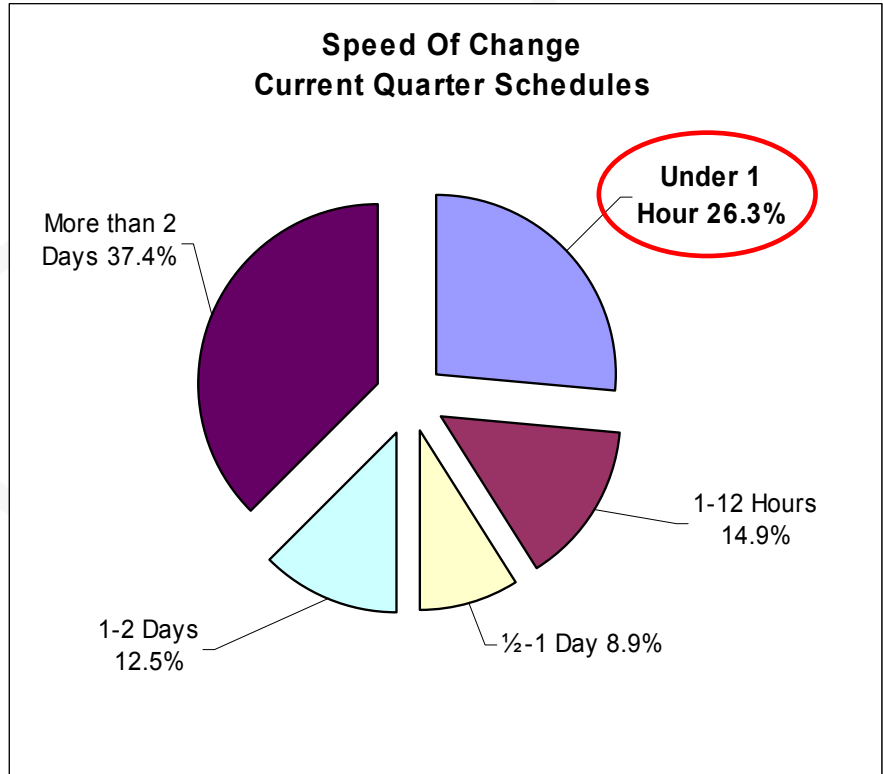
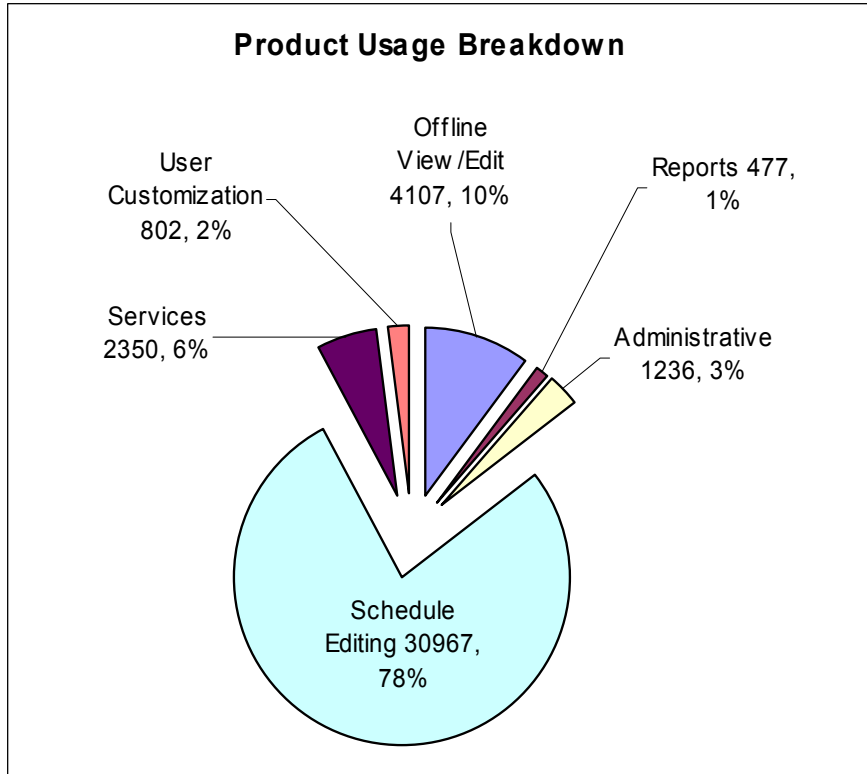




Registered User Logins	10,853
Total Registered Users	1,045
Total Active Users	517
Total Units in System	449
Active Units	325
Modified Events	40,896
Total Updates	67,364
Max Transactions/Day	2,837
Avg Transactions/Wkday	1,228
# of Schedules Approved	2,910
Avg Reviews/Schedule	3
Avg Unit Schedule Chgs	9
1-Unit Proposals	91%



WebSked Usage, Approval Speed and Predicted Growth by 2005

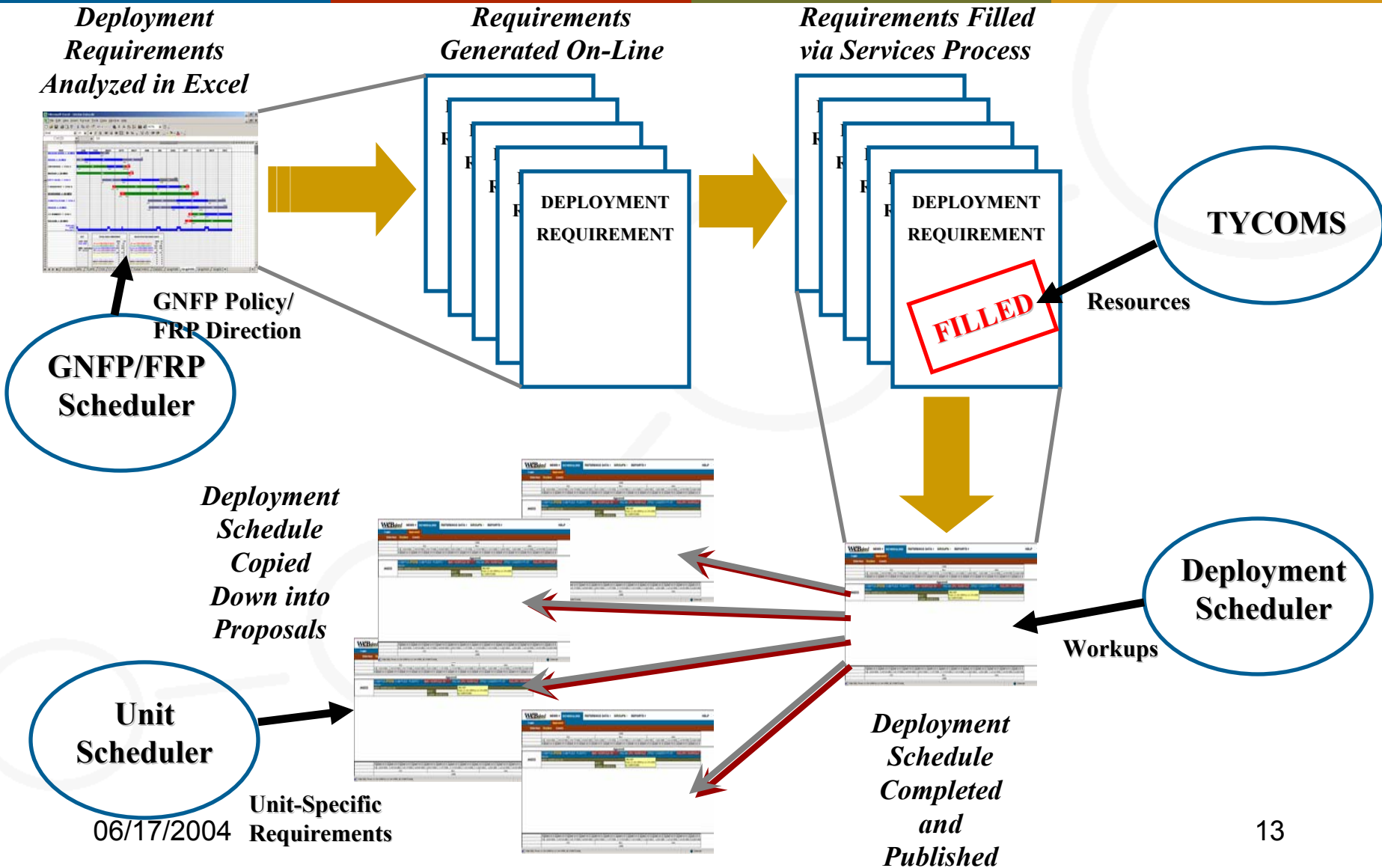


<u>Load Item</u>	<u>Current</u>	<u>2005</u>
Active Users	517	1,268
Active Units	382	937
Transactions/Day (Avg)	1,228	4,517
Transactions/Day (Peak)	2,837	10,438

1999	JAN	FEB	MAR	APR	MAY	JUN	JUL
BELEAU WOOD / 31 MEU	54		21				
			2/24			6/5	
BOXER / 13 MEU	15	90			46		
	1/20			4/20			
ENTERPRISE / CVW 3		70	36	6	11		
	1/3		3/14	4/1 4/25	5/6		
NASSAU / 24 MEU		122			10		
					5/13		
					5/3		
KITTY HAWK / CVW 5			47	90			
		3/2		4/18			7/17
T ROOSEVELT / CVW 8				3	97		
			3/26	4/3			7/9
KEARSARGE / 26 MEU				11	150		
				4/14	4/25		
CONSTELLATION / 13 MEU							69
PELELIU / 13 MEU							53
J F KENNEDY / 26 MEU							
BATAAN / 26 MEU							

KEY	TOTAL DATS UNDERWAY		ADJUSTED PRESENCE DATS			
	ARG	CV	ARG	CV		
LANE SHIP						
PAC SHIP						
ARG - underway						
CV - normal						
	JFcum PRESENCE DATS:	50	38	JFcum PRESENCE DATS:	50	38
	Execum PRESENCE DATS:	373	212	Execum PRESENCE DATS:	365	206
	Centcum PRESENCE DATS:	208	398	Centcum PRESENCE DATS:	173	365
	WPcum PRESENCE DATS:	0	0	WPcum PRESENCE DATS:	0	0
	EPcum PRESENCE DATS:	205	241	EPcum PRESENCE DATS:	205	173
	Moist PRESENCE DATS:	0	0	Moist PRESENCE DATS:	0	0
	Training PRESENCE DATS:	0	0	Training PRESENCE DATS:	0	0
	Fallow PRESENCE DATS:	0	0	Fallow PRESENCE DATS:	0	0
	INACT PRESENCE DATS:	0	0	INACT PRESENCE DATS:	0	0
	AFSB PRESENCE DATS:	0	0	AFSB PRESENCE DATS:	0	0

Shortening the Time to Fleet Response Plan with WebSked



- Successfully fielded on Classified networks with low logistics footprint
 - Server upgradeable, uses existing Afloat COTS s/w
- Navy business process for scheduling improved
 - Reduced schedule change latency time
 - Increased schedule fidelity
- Increased Navy mobility capability
 - Supports optimization of resource usage
 - Reduces decision cycle time
- Shared awareness of Navy schedule picture
 - All schedules available in one place in near-realtime

- Approved Maritime Schedules (Available to ANYONE on the SIPRNET)
 - PACFLT WebSked Server: <http://cpfsked1.cpf.navy.smil.mil>
 - LANTFLT WebSked Server: <http://websked.c4i.clf.navy.smil.mil>
- WebSked User Help
 - <http://websked.spawar.navy.smil.mil>
 - WebSkedHelp@spawar.navy.mil
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