



Commercial Imagery Plans

Presented by

Randy Ferryman

Chief, Commercial Imagery Management Office, NIMA
National Imagery and Mapping Agency

NIMA Business Opportunity Day

12 March 1998

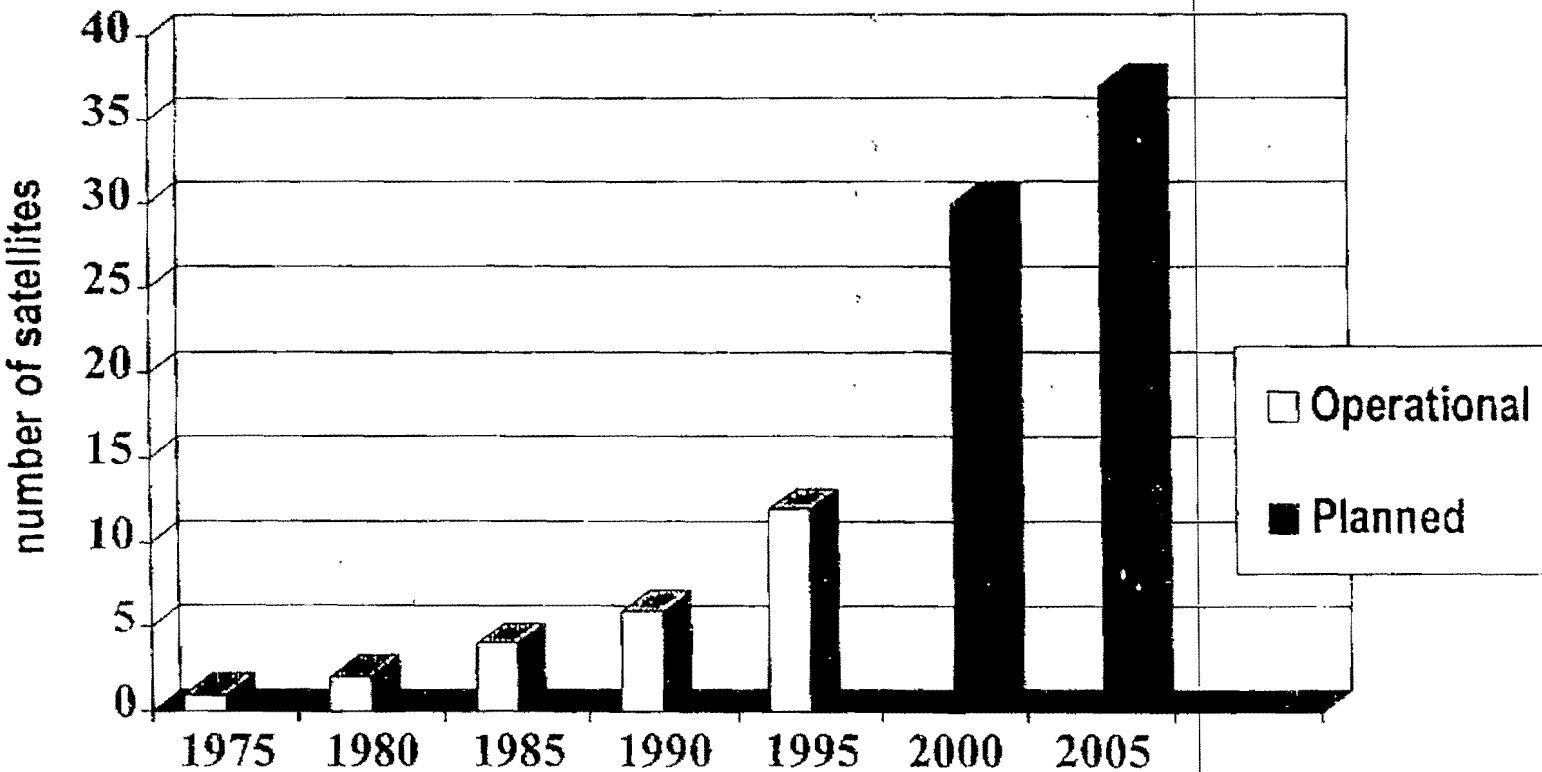



Current Environment

- Customers are discovering advantages of commercial imagery over classified systems
 - Unclassified
 - Large area coverage
 - Spectral capabilities
- Commercial providers will soon offer higher-resolution 1 meter resolution imagery
- US. civil agencies, DoD (\$3-4M), and Intelligence Community spending \$9-11 Million annually on commercial imagery



Commercial Remote Sensing Satellites – All Planned Systems





Thrust of NIMA Plan for Commercial Imagery

- **Reduce collection shortfalls, take advantage of unique attributes**
- **Improve access to imagery for NIMA customers and NIMA**
 - Use a “scaleability” strategy to increase procurements to meet demand
 - Gain timely access to multiple domestic and foreign sources using commercial solutions
- **NIMA planning a \$10M annual investment in commercial imagery from FY2000-2003**
 - To procure imagery for geospatial and intelligence production
 - To install USIGS and potentially vendor infrastructure enhancements
 - Pursue NIMA Business Plan to leverage commercial investments
 - Seek delivering imagery to the customer within 24 hours after imaging
- **Facilitate direct tasking by DoD and IC elements or be the image broker**
- **Support opportunities for direct imagery dissemination**
- **Facilitate imagery access for citizens by utilizing tools and**



NIMA Imagery Purchases

- **Striving to achieve purchase discounts for large procurements**
- **Most imagery for geospatial production**
 - Focus on imaging high competition collection areas with priority customer information needs
 - Nearly all geospatial production outsourced to vendors
 - Strategy to create DTED, CIB, FFD, DPPDB products at vendors
 - Imaging modes and production are cost drivers.
- **Imagery also slated for NIMA NPF, GPC and IPC**
 - Proof of concept against real operational issues
- **Imagery also designated for existing in-house production**
 - IA existing capabilities at Wash. Navy Yard and Langley
 - GI MPE/DCAFE systems capabilities

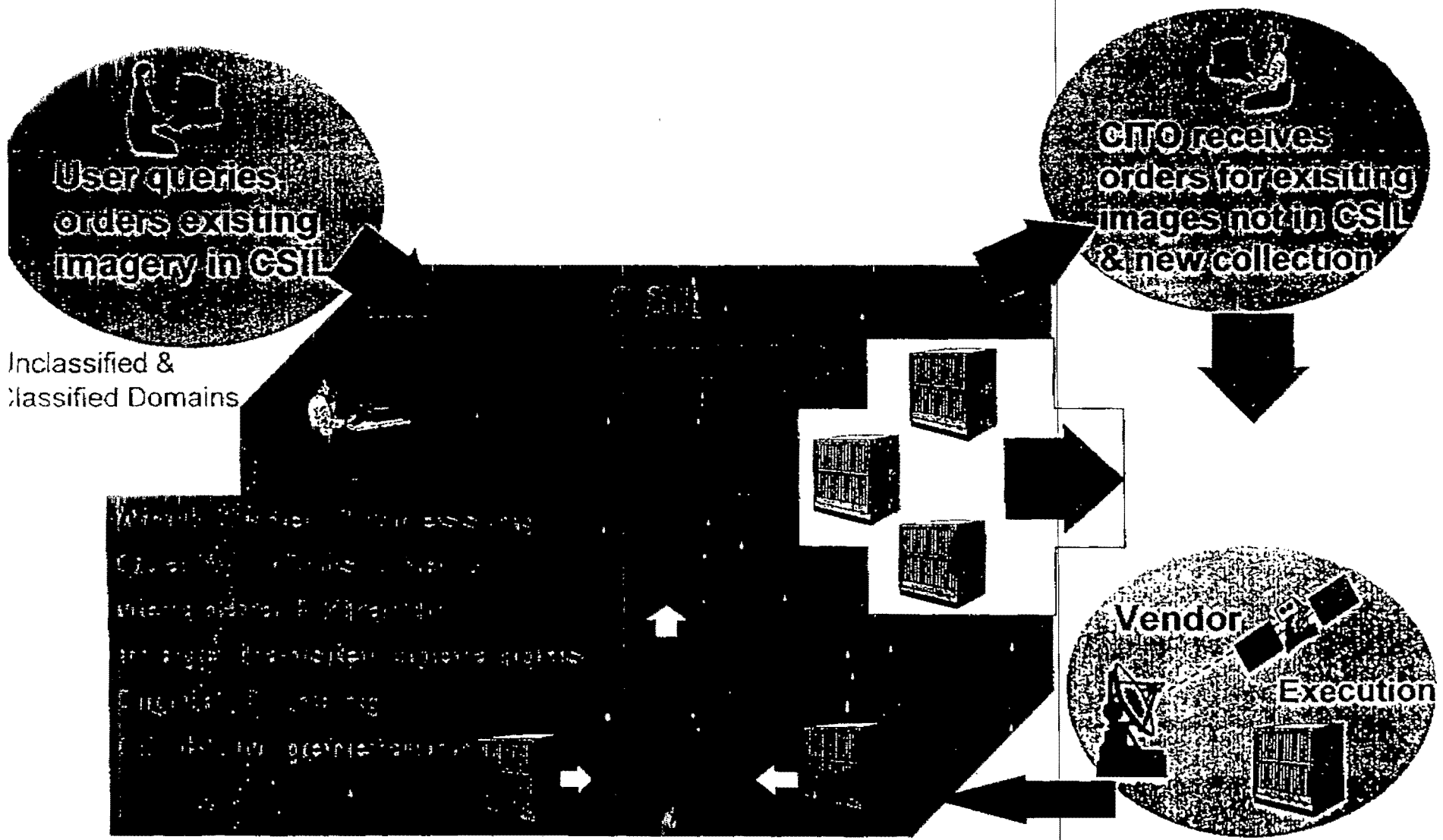


Commercial Imagery Architecture Baseline

- **Automates, expands tasking, querying, image browse capabilities**
 - “Hotlinks” to vendors, utilizes vendor INTERNET offerings
- **Enhances Commercial Satellite Imagery Library (CSIL) image transfer, ordering, dissemination capabilities**
 - Will integrate CSIL into USIGS architecture
- **Striving to use vendor libraries, tough challenge for classified users**
- **Establishes the electronic dissemination baseline**
 - Multiple paths for users to receive imagery
 - Vendors as they IOC are connected to USIGS
 - Both classified and unclassified channels available
 - DirecPC commercial broadcast funded for 30 sites
 - DISN ATM Services (DAS) and DDS utilized
- **NIMA sites and NIMA contract producer sites are connected**



Commercial Satellite Imagery Library (CSIL) Architecture



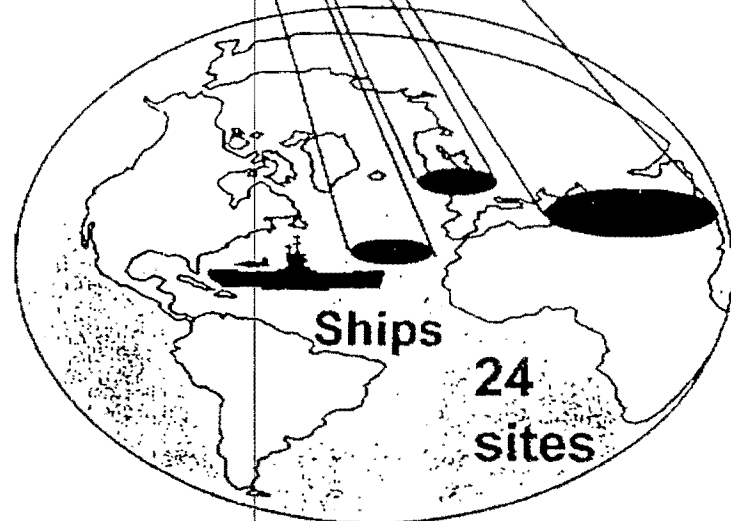


EUCOM JBS Commercial Imagery Dissemination Architecture

Satellite

Joint
Information
Mgt
Center (JIMC)
Pentagon

Joint Broadcast
System (JBS)
BC2A
Architecture



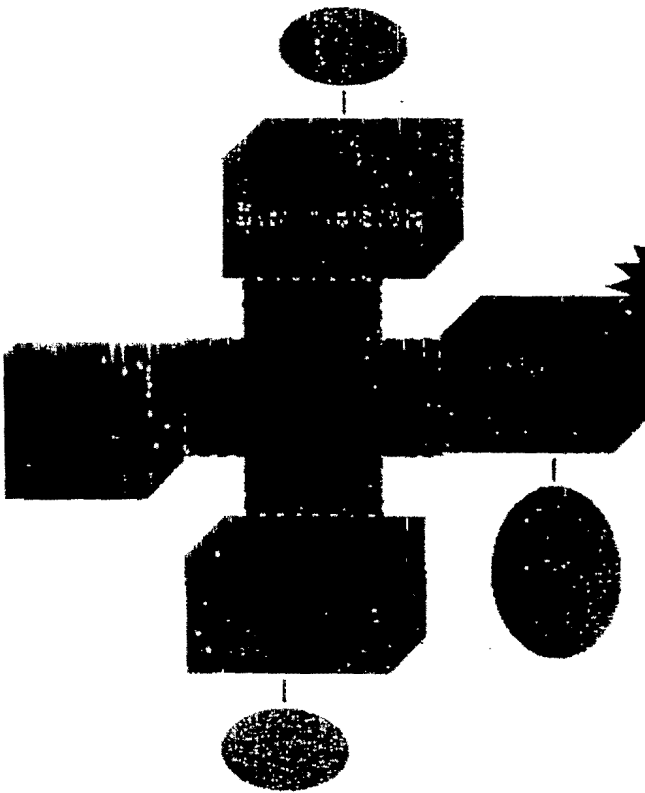
CSIL

Ships

24
sites

NIMA Production Support Architecture

NIMA Govt. Sites22

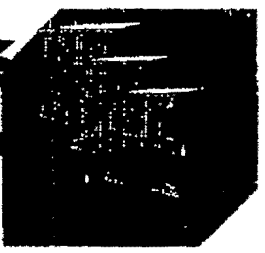


DirecPC



Unclas.
Broadcast

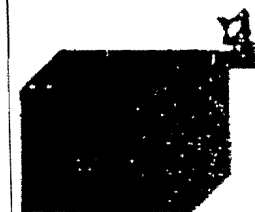
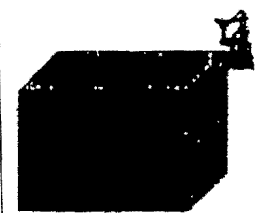
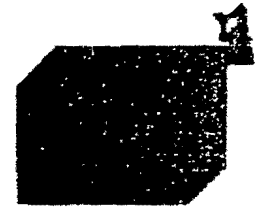
T-1 ↑



CSIL

T-3 ←

Contract Producer Sites



etc



Questions ???