INTRODUCTION

to the
National Information Display Laboratory

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Government Information Needs

... rapidly exploiting and
disseminating all critical information ...

- Rapidly changing roles and responsibilities
- Increasingly diverse users
- Increasing data types
The Center of Excellence Concept
...focusing the resources of Industry onto User's needs ...

Government Users
- Users & Developers of Technology
- Program Offices
- R&D Groups
- Core technologies, essential to success of program

Centers of Excellence
- Focus
- Leverage
- Standards
- Continuity
- User Support

Industry
- Commercial Manufacturers
- R&D Centers
- System Developers
- Universities

National Lab Business Strategy
...developing programs with overwhelming value ...

- Work with users to determine needs
- Begin "seed" program
- Seek partners with world leading capabilities
  - Government, Industry and Universities
- Develop programs that provide:
  - User satisfaction
  - Revolutionary Improvements
  - Path to commercialization
NIDL "Distributed" Laboratory

... combining resources of Government, Industry, and Academia ...

National Information Display Laboratory

Industry

Government

Universities

Partners and Users

- Government Partners and Users
  - Air Force
  - Navy OP 94
  - USGS
  - JNIDS
  - OSTP
  - NEL

- Industry & Academia Partners
  - Princeton University
  - MIT
  - Texas Tech
  - Planar
  - RCA/TCE
  - DTI -AVP/MegaScan
National Information Display Laboratory

... a Center of Excellence for Softcopy technology ...

Standards

... establishing industry display and imaging standards that represent the government's viewpoint ...

Measurement Procedures
Office Environment of the Late 1990’s

...the office will heavily exploit HDTV technology...

- High-Definition Display
- Computer Workstation
- High-Definition Laser Printer
- Mass Storage Optical Disc, VCR
- ISDN & LANs
- Other Image Media NTSC, PAL, HDTV DVI, FAX
- High-Definition Video Input
- 1 K to 1000 Mb/s
- 10-1000 Mb/s
- 10-150 Mb/s
- 10-500 Mb/s
- 10 Mb/s
Display Technologies
... large, uniform, high-resolution, bright displays ...

HDTV
... the key is extremely high-performance image compression ...

HDTV  NTSC
High-Resolution Video Workstations
... will have multiple video and graphics windows ...

Data Visualization
... presenting data to users in their visual language ...
Virtual Reality
... creating real-time, high-resolution, 3D synthetic environments ...

Collaborative Workplace

Communications
... reaching out to both the Government and Industry ...

- Government
  - IPWG
  - NASA
  - JNIDS
  - NEL
  - DNI
  - DARPA
- Industry
  - ORD
  - OSTP
  - FAA
  - IRDC
  - DCA staff
  - Navy Op 94
  - Int'l Display Conference Keynote
  - SID Plenary Presentation
  - SID Standards activities
  - SID Display Booth
  - JTEC
  - Many other individual companies
Conclusions

... a new model for Government/Industry collaboration ...

• NIDL is a Center of Excellence in Softcopy Technology

• Goal: develop bold new way to satisfy the needs of Government Users through both:
  - Aggressive User support
  - Advanced technology

• Focus key softcopy and display technology on the interface to Users, to make them much more productive

• NIDL is a "Distributed Laboratory" with world-leading partners

• For additional information, call NIDL at 609-951-0150