INTRODUCTION

to the
National Information Display Laboratory

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Director, NIDL

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 ...

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 ...
NIDL Organization

NIDL
Dr. Curtis R. Carlson
Executive Director

Display Technology
Dr. Arthur H. Flrester
Director
- Advanced Displays
- Display Modeling
- User Support

Softcopy Tools & Technology
Dr. Norman D. Winansky
Director
- Image & Signal Processing
- Man-Machine Interface
- User Support

Partners and Associates Program
- Government Organizations
- Commercial Organizations
- Universities
- Research Institutions

Office Environment of the Late 1990's
... the office will heavily exploit HDTV technology ...
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