

INTRODUCTION

to the

National Information Display Laboratory

Dr. Curtis R. Carlson Director, NIDL 526-85 175309 0-9

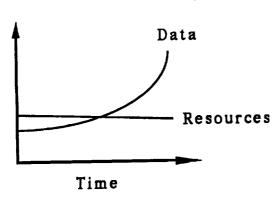
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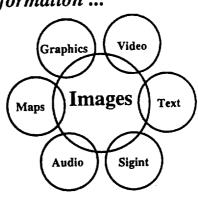
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Government Information Needs

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



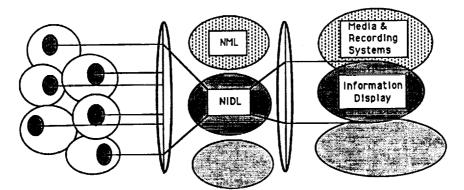


- Rapidly changing roles and responsibilities
- Increasingly diverse users
- Increasing data types



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

H3



National Lab Business Strategy

... developing programs with overwhelming value ...

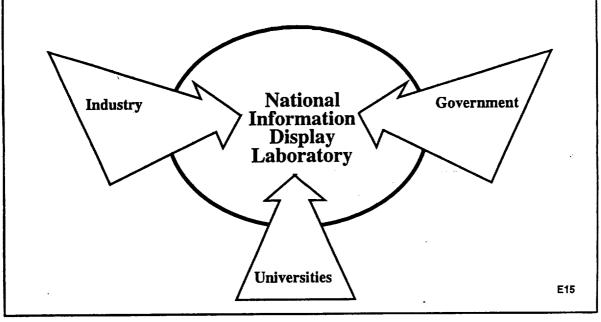
- · Work with users to determine needs
- · Begin "seed" program
- · Seek partners with world leading capabilities
 - Government, Industry and Universities
- Develop programs that provide:
 - User satisfaction
 - Revolutionary Improvements
 - Path to commercialization

H4



NIDL "Distributed" Laboratory

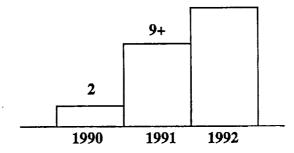
... combining resources of Government, Industry, and Academia ...

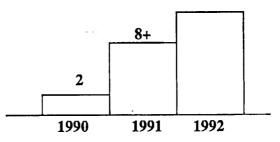


Partners and Users

NIDL

- 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

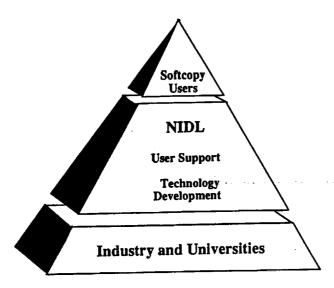






National Information Display Laboratory

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

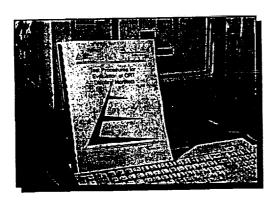


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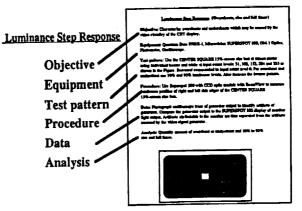
Standards



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



Measurement Procedures





NIDL Organization

NIDL
Dr. Curtis R. Carlson
Executive Director

Display Technology Dr. Arthur H. Firester Director

- Advanced Displays
- Display Modeling
- User Support

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Softcopy Tools & Technology Dr. Norman D. Winarsky

Director

- Image & Signal Processing
- Man-Machine Interface
- User Support

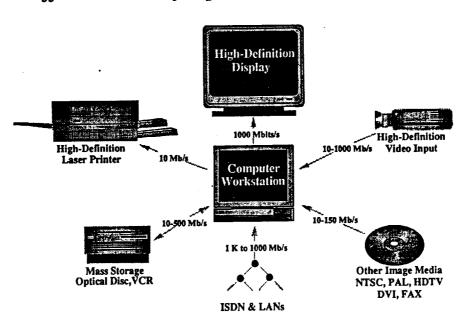
Partners and Associates Program

- Government Organizations
- Commercial Organizations
- Universities
- Research institutions

E18

Office Environment of the Late 1990's

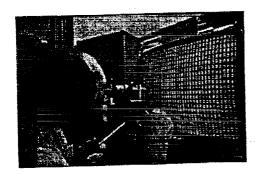
... the office will heavily exploit HDTV technology ...

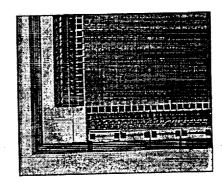




Display Technologies

... large, uniform, high-resolution, bright displays ...



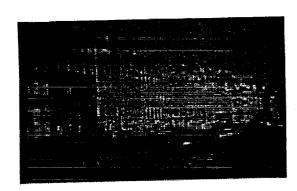


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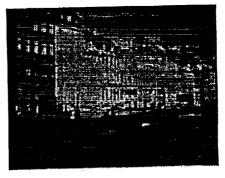


HDTV

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



HDTV

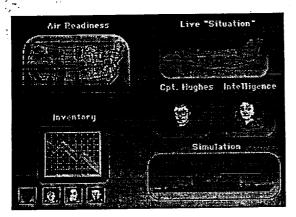


NTSC



High-Resolution Video Workstations

... will have multiple video and graphics windows ...



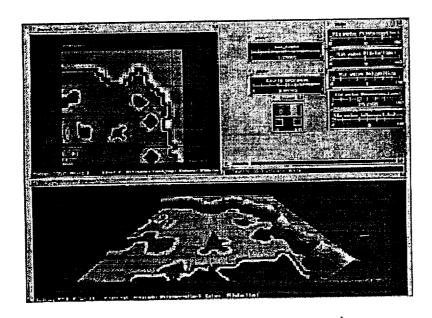


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Data Visualization

... presenting data to users in their visual language ...

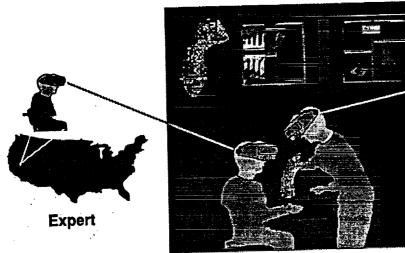




Virtual Reality

... creating real-time, high-resolution, 3D synthetic environments ...

Collaborative Workplace





E27



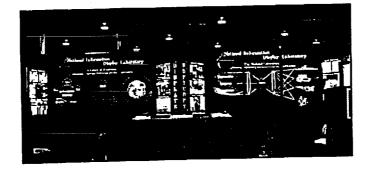


Communications

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

- Government
 - IPWG
 - NASA
 - **JNIDS**
 - NEL - DNI

 - DARPA
- ORD
- OSTP
- FAA
- IRDC
- DCA staff
- Navy Op 94
- Industry
 - Int'l. Display Conference Keynote
 - SID Plenary Presentation
 - SID Standards activities
 - SID Display Booth
 - ITEC
 - 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