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# FUI Prototype Activities

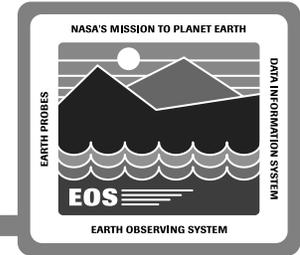
Jim Creegan

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24 August 1995

# FUI Old Prototyping Goals

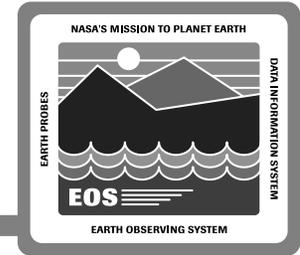
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- **Previous PRR's**
  - **Define functionality**
  - **Drive out Level 4 Requirements**
  - **Explore new UI techniques**
  - **Screen Concepts**

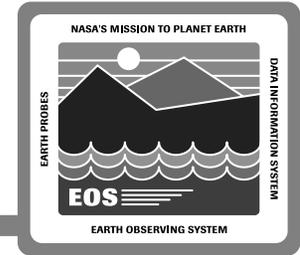
# FUI New Prototyping Goals

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- **Change in Philosophy**
  - **Common FOS Low Level Problems**
  - **COTS Evaluations**
  - **Prototyping to Forward Design**
  - **Screen Concepts**

# COTS Evaluations



- **Graph/Table Package**

- **Alternatives**

- XRT, ChartObject, GLG Widgets, IDL

- **Results: XRTGraph, XRTable, XRT3d**

- Work within an X drawing area

- Available across all platforms

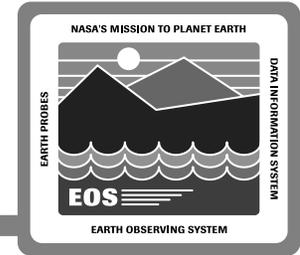
- Work as Motif Widgets

- Generate postscript output

- Real-Time Performance

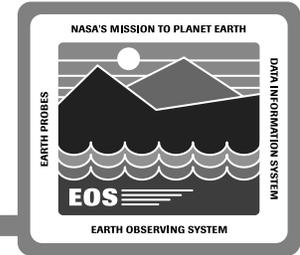
- Price

# COTS Evaluations (cont'd.)



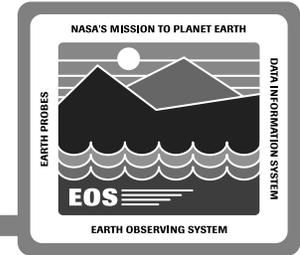
- **Help Tool/Document Reader**
  - **Alternatives**
    - NETSCAPE, MOSAIC, COTS Hypertext Products**
  - **Results: NETSCAPE or MOSAIC**
    - Selected HTML, prototyped with NETSCAPE**
    - Low-cost hypertext help (NETSCAPE-\$30, MOSAIC-free)**
    - Conversion from MSWord document - can handle LMC documents if delivered in ASCII, RTF or HTML format**
    - Developed API to help screen**

# Prototyping to Forward Design



- **Commanding**
  - **Syntax for command language**
  - **Conversion of C grammar to Lex/Yacc**
- **Telemetry Displays**
  - **Dynamic Pages: colors, fonts, graphics**
  - **Needed to understand color maps, platform independence, C++ wrapper around X**
- **Building Blocks**
  - **EcUtListBox is the basis for all listboxes**
  - **Four (4) flavors of text fields (string, int, float, time)**
  - **Investigated integration of code with Builder Xcessory**

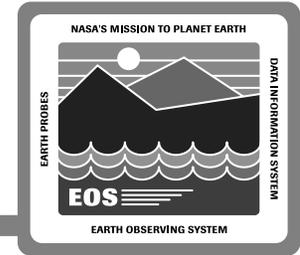
# Prototyping to Forward Design (cont'd.)



- **Display Builder Prototype**
  - **Defining alphanumerics, graphs, tables & graphics on the same window**
  - **Selection, drag/drop, resize & repositioning of objects**
  - **Learning how to wrap dynamic page display items in C++**
  - **Lessons learned folded back into dynamic page design (as well as display builder design)**

# Screen Concepts

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- **Load Manager Screen**
  - **“CMS One-Stop Shopping”**
  - **Provides access to:**
    - Load ingest**
    - Load catalog**
    - Load editors**
    - Load validation**
    - Load generation**
    - Load scheduling**