WICOMO AT RAYTHEON
CURRENT USE AND FUTURE PLANS

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RAYTHEON — A FORTUNE 100 COMPANY

- MULTIDIVISION ENVIRONMENT
- A MIX OF COMPUTERS
- A MIX OF APPLICATIONS
- A SW TOOL ENVIRONMENT
WICOMO USE HAS EVOLVED AT RAYTHEON

IN 1983

- REISSUE MANUAL
- CREATE REFERENCE CARD
- RELEASE UNDER UNIX 4.1
- ADD LOCAL TERMINAL TYPES

IN 1984

- MANAGEMENT SUPPORT
- RELEASE UNDER VMS
- USER FEEDBACK
WICOMO IS USED AT MANY LEVELS

- SECTION MANAGERS
- ADMINISTRATORS
- LEAD ENGINEERS
- PROJECT/GROUP LEADERS

USE CAN BE
- FORMAL
- INFORMAL
RAYTHEON HAS IDENTIFIED BENEFITS

- EASY TO USE
- INTUITIVE NATURE
- GOOD HELP FACILITY
- QUICK ESTIMATES
- INEXPENSIVE
- BASED ON PUBLISHED DATA
- WIDELY UNDERSTOOD
RAYTHEON HAS IDENTIFIED PROBLEMS

- DIFFERENT FROM TRADITIONAL APPROACH

- LACK OF CONFIDENCE IN DATA
  - DUE TO AGE
  - DUE TO COMPANY
  - DUE TO ENVIRONMENTS

- PURISTS vs PRAGMATISTS

- SCED ALGORITHM

- INHERITANCE PROBLEM

- GETTING REPORTS
RAYTHEON HAS A THREE-PART PLAN

- CONTROL OF VERSIONS
- COSMETIC CHANGES
- "RAYCOMO" CALIBRATION
CONTROL OF VERSIONS

- UNIX AND VMS
- SEPARATE COMMON CODE
- MODULARIZE
- CONFIGURATION CONTROL
- BASELINE(S) FOR UPDATES
COSMETIC CHANGES

- GROUP DRIVERS BY LEVEL
- INHERITANCE WARNING
- ASSIGN PEOPLE NOT $
- DISPLAY PRODUCTIVITY
- ADD ADAPTED CODE CAPABILITY
RAYCOMO CALIBRATION

- IDENTIFY PROJECTS
- COLLECT DATA
- ANALYZE DATA
- CONSTRUCT COST-DRIVERS
- MODIFY WICOMO
WICOMO WILL EVOLVE AT RAYTHEON

- ENHANCEMENTS
  - MAKE A GOOD TOOL BETTER

- UNIFORM COST ESTIMATION METHOD

- CONTINUOUS EVOLUTION
  - DATA COLLECTION
  - VALIDATION
  - PERIODIC UPDATES