Feeder & Distribution Cable Size

- Each Feeder Segment Cable Size Determined From Segment Capacity
- If Max Size Cable < Pairs Required, Then 1 or More Max Size Cables Plus a Residual Cable Sized to Meet or Exceed Capacity
- Fiber Cable Table (# Strands)

  12, 18, 24, 36, 48, 60, 72, 96, 144, 288
- Copper Cable Table (# Pairs)

  (12 Dist. Only), 25, 50, 100, 200, 400, 600, 900, 1200, 1800, 2400, 3000, 3600, (4200 Feeder Only).

Cable Capacity for Shared Feeder Plant

- **Copper**
  - Sum of Lines Riding Feeder Segment/Segment Fill Factor
- **Fiber For DLC-L (4 Fibers Until Capacity Is Exceeded)**
  - 4 Fibers For Capacity Up to 2016 VG Paths
  - 4 Additional Fibers For Each Increment of 2016 VG Path
- **Fiber For DLC-S (4 Fibers Until Capacity Is Exceeded)**
  - 4 Fibers For Capacity Up to 672 VG Paths
  - 4 Additional Fibers For Each Increment of 672 VG Paths

Feeder Segment and Distribution Cable Costs

- Feeder Segment Cost = Segment Distance * Cable Cost Per Foot

- Distribution Cable Cost = Horizontal Distribution Plant Distance * Horizontal Distribution Leg Cost Per Foot * Number of Distribution Legs + Vertical Distribution Plant Distance * Vertical Distribution Leg Cost Per Foot * Number of Vertical Distribution Legs

Benchmark Cost Proxy Model 2

Circuit Equipment Costs

- Fixed Digital Subscriber Loop Carrier Electronics Remote Terminal Cost Per Line =

Fixed Terminal Cost

48 Line Terminal =	$ 38,688
120 Line Terminal =	$ 53,577
240 Line Terminal =	$ 84,976
672 Line Terminal =	$ 92,147
1334 Line Terminal =	$ 125,120
2016 Line Terminal =	$ 217,267

- Per line Cost: $92.81
- Per Line Costs Include Remote Terminal Line Cards, Shelves, Virtual Tributary Units

Benchmark Cost Proxy Model 2

Annual Costs/Expenses

- **Investment Related Includes...**

Return	Depreciation
Taxes	Plant Specific Expenses
	Plant Non-Specific Expenses

- **Calculated for 19 Investment Categories:**

  Cable and Wire, COE Switching, COE Circuit

- **Non-Plant Related Expense Factor**

Detailed Annual Charge Accounts

- Land
- Motor Vehicle
- Special Purpose Vehicle
- Garage Work
- Other Work
- Building
- Furniture
- Office Support
- G.P. Computers
- Switching
- Circuit/DLC
- Pole
- Aerial Copper
- Aerial Fiber
- Underground Copper
- Underground Fiber
- Buried Copper
- Buried Fiber
- Conduit

BCPM Expense Input Categories

- Network Support
- General Support
- COE Switching
- Operator Systems
- COE Transmission
- Information Orig/Term
- Cable & Wire Facilities
- Other Property Plant
- Network Operations
- Access
- Marketing
- Services
- Executive & Planning
- General and Administrative
- Uncollectibles

Benchmark Cost Proxy Model 2

BCPM Highlights:

Openness

All Calculations/Equations Visible for Inspection
All Inputs Easily Verified

Flexibility

User Inputs Easily Changed
Numerous Reporting Levels Available
-CBG, Exchange, CLLI, State

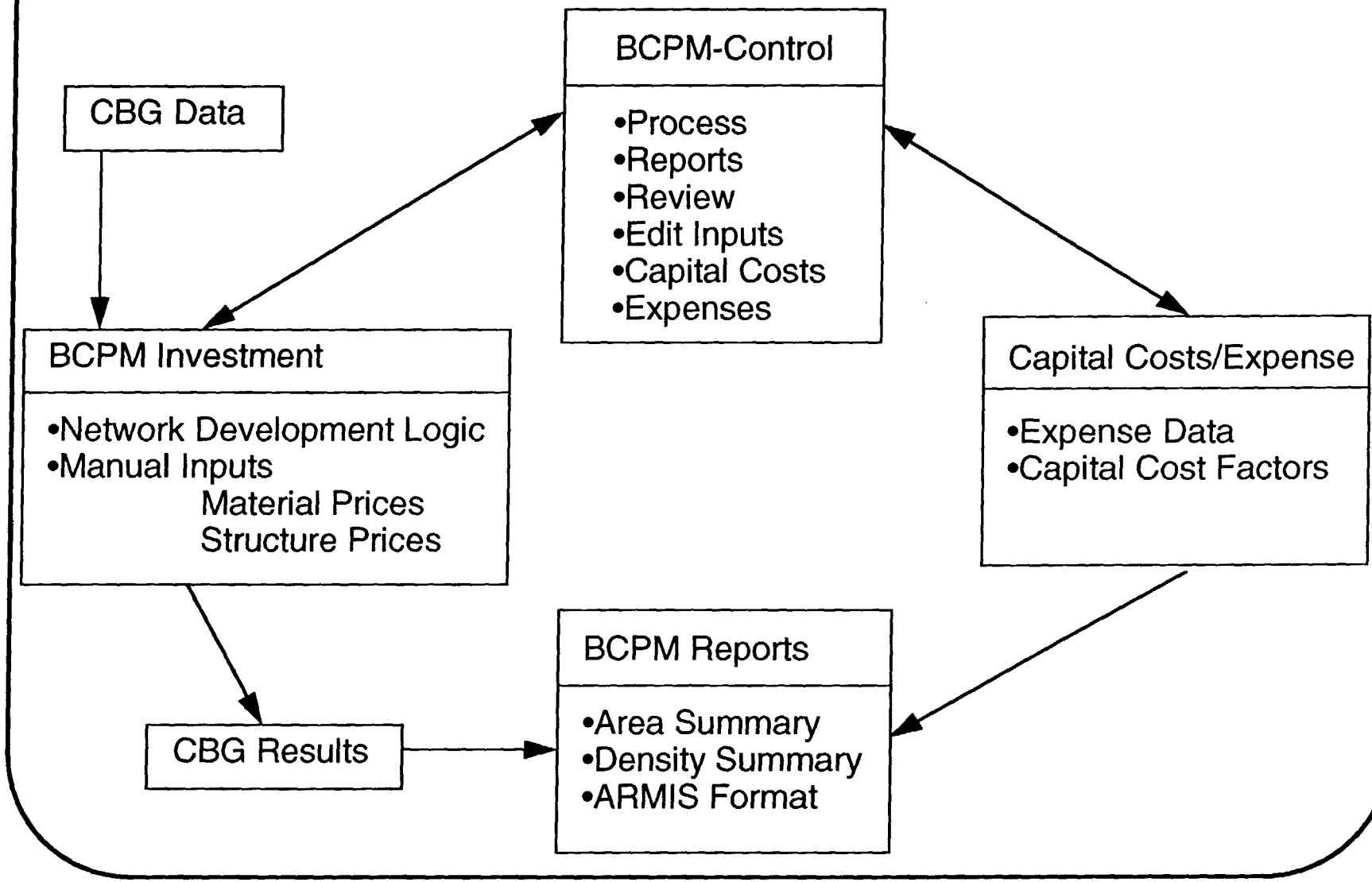
Ease of Use

Easily Accessed and Executed
Drop-Down Menus, New Screens

Hardware Requirements

24 MB RAM / 486 PC Machine Will Run Model

Benchmark Cost Proxy Model 2



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BCPM2
PLANNED ENHANCEMENTS

- More Accurate Algorithm for Locating Customers in Sparse Rural Areas
- Matching of Loop Counts and Lengths to Actuals at the Wire Center Level
- Improved Switch Curve, and Validation by Equipment Manufacturers
- Dynamic Interoffice Transport Algorithm
- Improved Ability to Model Unbundled Network Elements

Benchmark Cost Proxy Model 2

MODEL NOTES:

Benchmark Cost Proxy Model 2

MODEL NOTES: