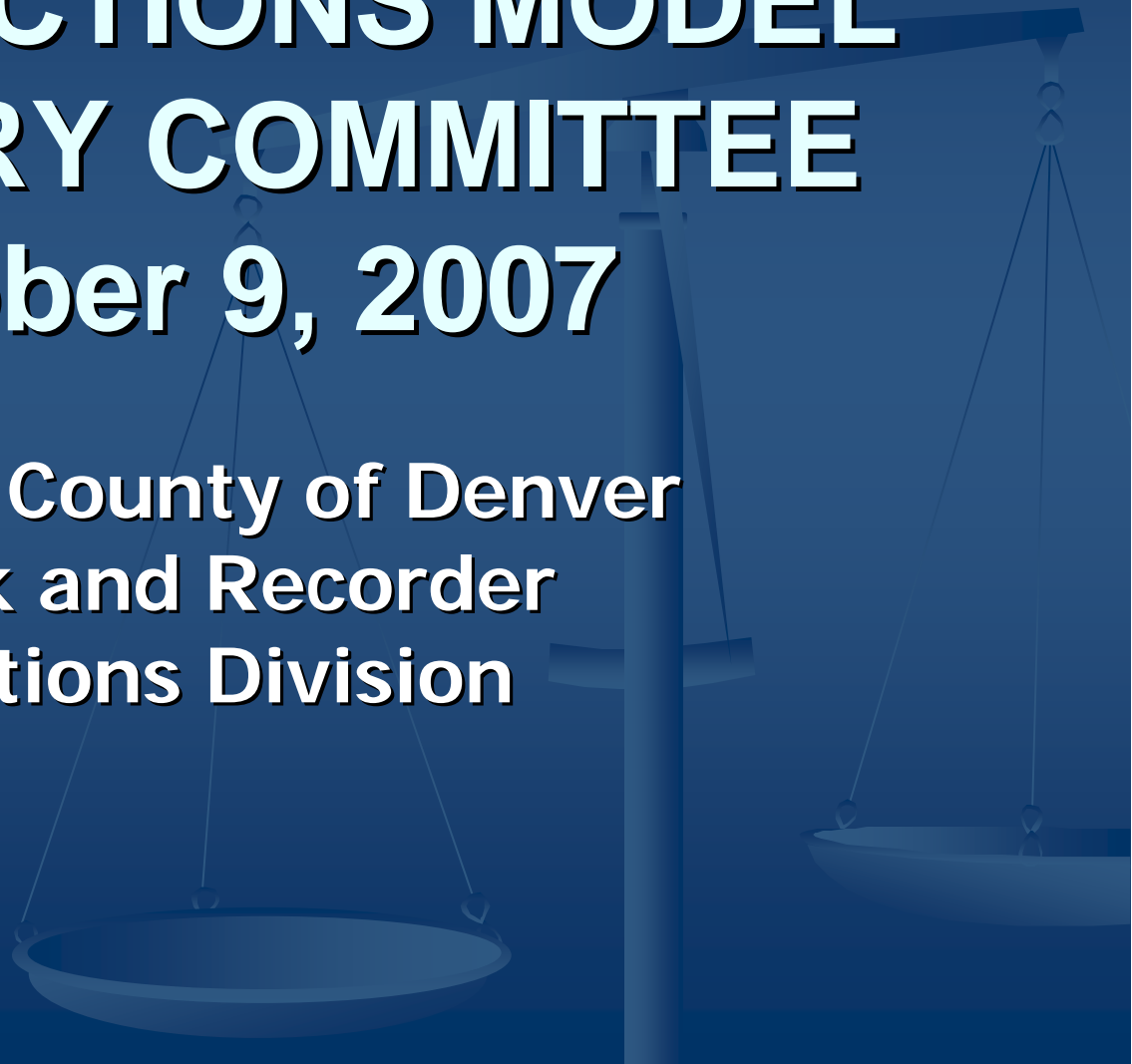


# **2008 ELECTIONS MODEL ADVISORY COMMITTEE**

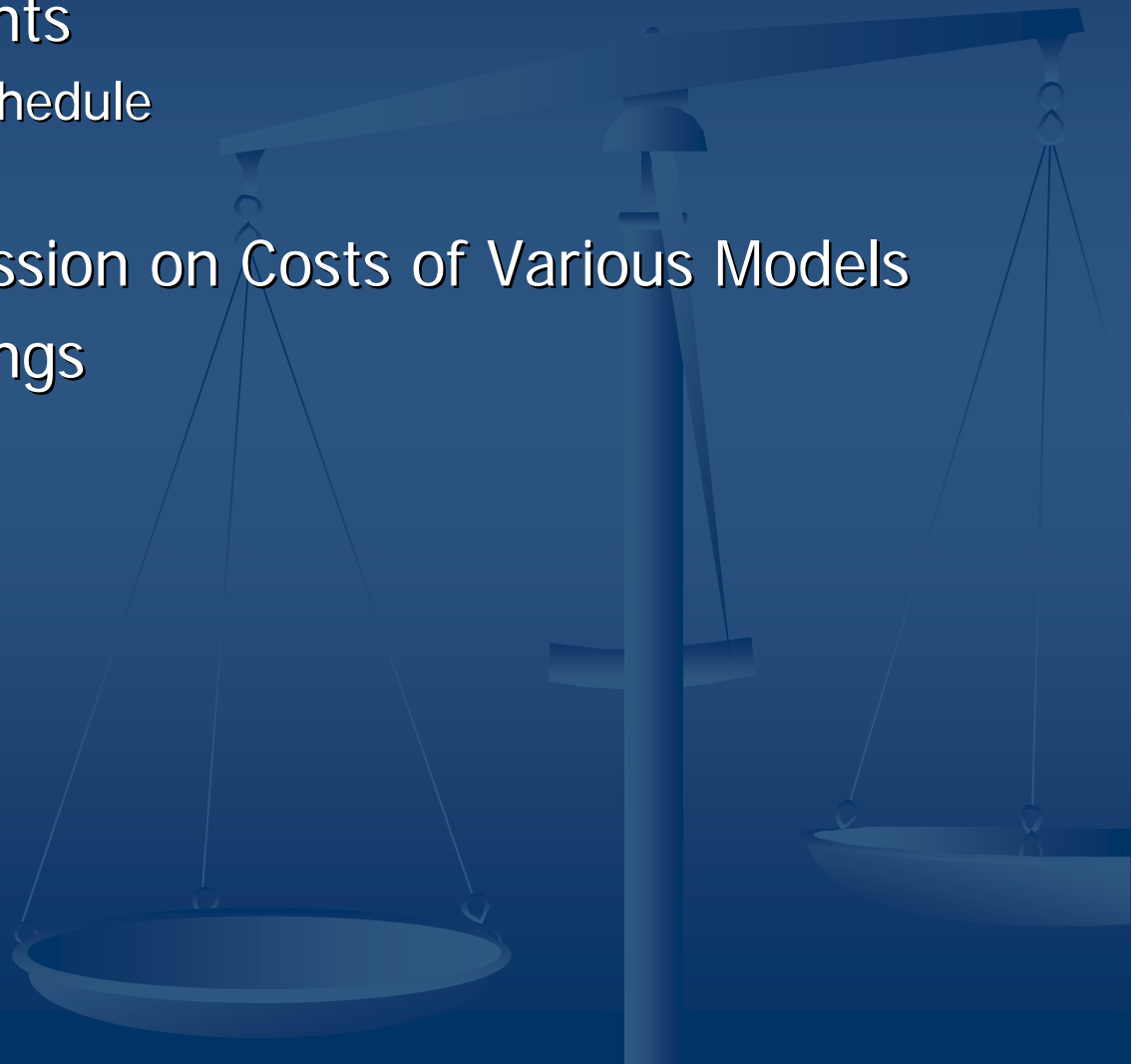
**October 9, 2007**

**City and County of Denver  
Clerk and Recorder  
Elections Division**



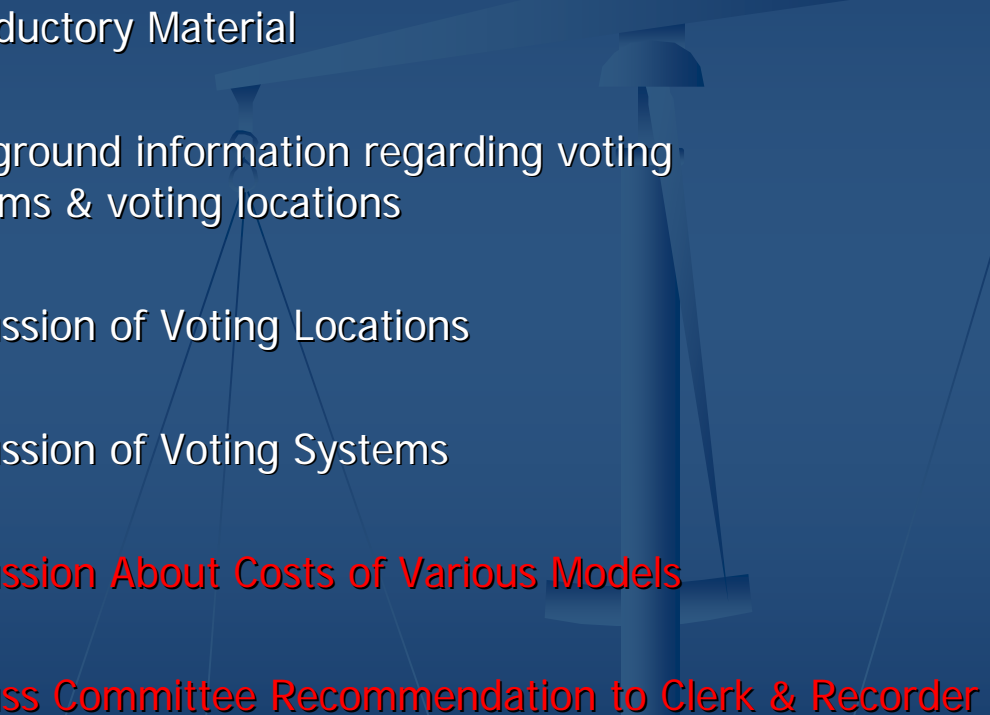
# Today's Agenda

- Introductory Comments
  - Review Committee Schedule
  - Review Ground Rules
- Presentation & Discussion on Costs of Various Models
- Discuss Future Meetings



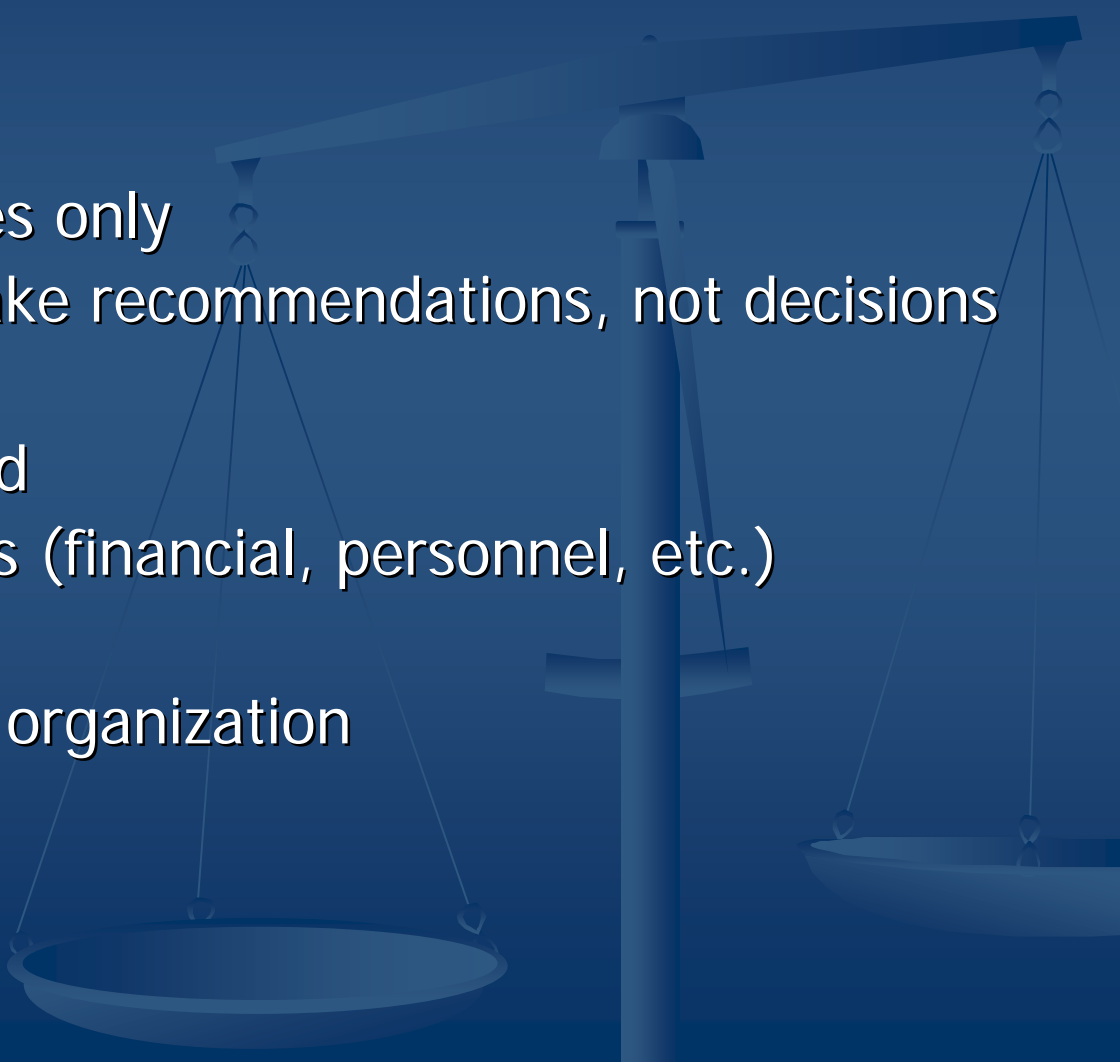
# Introductory Comments

## ■ Revised Schedule

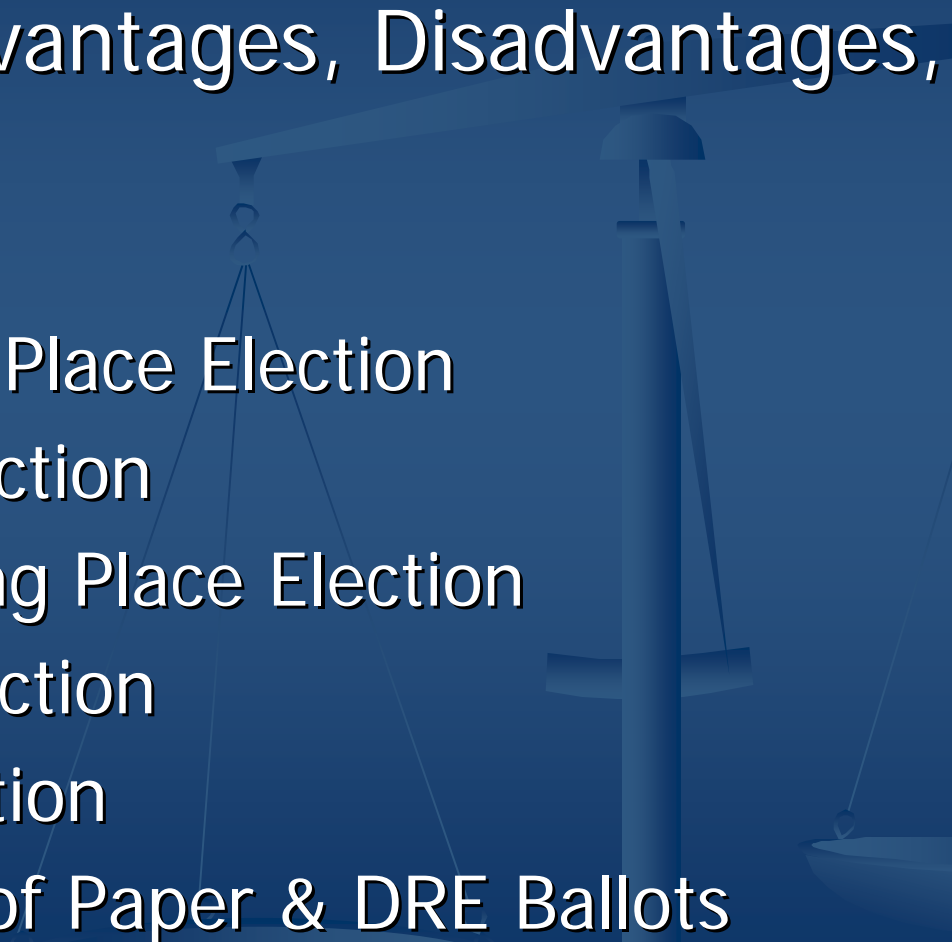
- September 11- Introductory Material
  - September 18- Background information regarding voting systems & voting locations
  - September 25- Discussion of Voting Locations
  - October 2- Discussion of Voting Systems
  - October 9- Discussion About Costs of Various Models
  - October 16- Discuss Committee Recommendation to Clerk & Recorder
- 

# Introductory Comments

- Ground Rules

- Focus on objectives only
  - Committee will make recommendations, not decisions
  - Focus on future
  - Keep an open mind
  - Consider all factors (financial, personnel, etc.)
  - Be brief & concise
  - Only one vote per organization
- 

# Voting Model

- Summary of Advantages, Disadvantages, & Unknowns of:
    - Precinct Polling Place Election
    - Vote Center Election
    - Combined Polling Place Election
    - Paper Ballot Election
    - DRE Ballot Election
    - Combined Use of Paper & DRE Ballots
- 

# Assumptions



- All costs listed are Estimates
- All costs are for 2 elections in 2008
- Statistics
  - 112,000 voters at the polls
  - 292 Precinct Polling Places
  - 75 Vote Centers
  - 175 Combined Polling Places
  - 1180 DREs: 240 Edge IIs, 940 Advantage

# Assumptions



- Basic operating costs include
  - Staffing, printing/postage, supplies, technology, site rental, etc.
  - It's important to note that these costs may fluctuate substantially depending on number of voting sites and numerous other factors.
- Costs NOT included in these cost comparisons
  - ADA accessibility improvements
  - Electronic pollbook
  - Existing & additional T1 line costs are not clear - \$5,000 to \$300,000 estimated

# Precinct Polling Place Election Models

## ■ Option 1 – Paper Ballots – Central Count

- 292 Precinct Polling Places
- Paper ballots at all PPs to serve all voters
- One Edge per PP for voters with disabilities
- Basic Operating Costs \$2,469,700
- Additional Edge Machine Cost \$260,000
- Central count scanners \$340,000
- Total Election Costs \$3,069,700
- **Additional Funds Needed \$0**
- **Comment – Delayed Results**

# Precinct Polling Place Election Models

- Option 2 – Paper Ballots – Precinct Count
  - 292 Precinct Polling Places
  - Paper ballots at all VCs to serve all voters
  - 1 Insight scanner per PP to count all paper ballots
  - One Edge per PP for voters with disabilities
  - Basic Operating Costs \$2,469,700
  - Additional Edge Machine Cost \$260,000
  - Central count & precinct scanners \$1,995,000
  - Total Election Costs \$4,724,700
  - **Additional Funds Needed \$1,624,700**
  - **Comment - Training Issues-2 pieces of equipment**

# Precinct Polling Place Election Models

- Option 3 – DREs – Edge & Advantages
  - 292 Precinct Polling Places
  - 5 Edge & Advantage DREs per PP to serve all voters
  - Basic Operating Costs \$1,977,100
  - Additional Edge Machine Cost \$1,400,000
  - Central count scanners \$170,000
  - Total Election Costs \$3,547,100
  - **Additional Funds Needed \$447,100**
  - **Comment - Advantage problems-precinct results & certification issues**

# Precinct Polling Place Election Models

- Option 4 – DREs – Edge machines only

- 292 Precinct Polling Places

- 5 Edge machines per PP to serve all voters

- Basic Operating Costs \$1,977,100

- Additional Edge Machine Cost \$6,100,000

- Central count scanners \$170,000

- Total Election Costs \$8,247,100

- **Additional Funds Needed \$5,147,100**

- **Comment – Capacity Issues**

# Precinct Polling Place Election Models

- Option 5 – Paper ballots & Edge DREs
  - 292 Precinct Polling Places
  - Paper ballots at all PP to serve all voters
  - 3 Edge machines per PP to serve all voters
  - Basic Operating Costs \$2,476,550
  - Additional Edge Machine Cost \$3,180,000
  - Central count scanners \$170,000
  - Total Election Costs \$5,826,550
  - **Additional Funds Needed \$2,726,550**
  - **Comment -Complexity of election administration**

# Vote Center Election Models

## ■ Option 6 – Paper Ballots – Central Count

- 75 Vote Centers
- Paper ballots at all VCs to serve all voters
- 3 Edge per VC for voters with disabilities
- Basic Operating Costs \$2,690,500
- Additional Edge Machine Cost \$0
- Central count scanners \$340,000
- Total Election Costs \$3,030,500
- **Additional Funds Needed \$0**
- **Comment – Not a viable option**

# Vote Center Election Models

## ■ Option 7 – Paper Ballots – Precinct Count

- 75 Vote Centers
- Paper ballots at all VCs to serve all voters
- 3 Edge per VC for voters with disabilities
- 1 Insight scanner per VC to count all paper ballots
- Basic Operating Costs \$2,690,500
- Additional Edge Machine Cost \$0
- Central count & precinct scanners \$638,750
- Total Election Costs \$3,329,250
- **Additional Funds Needed \$229,250**
- **Comment – Not a viable option**

# Vote Center Election Models

- Option 8 – DREs – Edge & Advantages
  - 75 Vote Centers
  - 20 Edge & Advantage DREs per VC to serve all voters
  - Basic Operating Costs \$2,813,100
  - Additional Edge Machine Cost \$1,600,000
  - Central count scanners \$170,000
  - Total Election Costs \$4,583,100
  - **Additional Funds Needed \$1,483,100**
  - **Comment - Advantage problems-precinct results & certification issues, T1 Costs, Capacity issues**

# Vote Center Election Models

- Option 9 – DREs – Edge machines only

- 75 Vote Centers

- 20 Edge DREs per VC to serve all voters

- Basic Operating Costs \$2,813,100

- Additional Edge Machine Cost \$6,300,000

- Central count scanners \$170,000

- Total Election Costs \$9,283,100

- **Additional Funds Needed \$6,183,100**

- **Comment - Capacity issues, T1 costs**

# Vote Center Election Models

- Option 10 – Paper ballots & Edge DREs
  - 75 Vote Centers
  - Paper ballots at all VCs to serve all voters
  - 9 Edge DREs per VC to serve all voters
  - Basic Operating Costs \$2,793,550
  - Additional Edge Machine Cost \$2,175,000
  - Central count scanners \$170,000
  - Total Election Costs \$5,138,550
  - **Additional Funds Needed \$2,038,550**
  - **Comment - Complexity of election administration, T1 costs, Capacity issues**

# Combined Polling Place Election Models

- Option 11 – Paper Ballots – Central Count
  - 175 Combined Polling Places
  - Paper ballots at all PPs to serve all voters
  - One\* Edge per PP for voters with disabilities
  - Basic Operating Costs \$2,527,300
  - Additional Edge Machine Cost \$0
  - Central count scanners \$340,000
  - Total Election Costs \$2,867,300
  - **Additional Funds Needed \$0**
  - **Comment – Delayed Results**

# Combined Polling Place Election Models

## ■ Option 12 – Paper Ballots – Precinct Count

- 175 Combined Polling Places
- Paper ballots at all PPs to serve all voters
- One\* Edge per PP for voters with disabilities
- 1 Insight scanner per PP to count all paper ballots
- Basic Operating Costs \$2,527,300
- Additional Edge Machine Cost \$0
- Central count & precinct scanners \$1,482,500
- Total Election Costs \$4,009,800
- **Additional Funds Needed \$909,800**
- **Potential delay at ballot box**

# Combined Polling Place Election Models

## ■ Option 13 – DREs – Edge & Advantages

- 175 Combined Polling Places
- 8 Edge & Advantage DREs per PP to serve all voters
- Basic Operating Costs \$2,255,750
- Additional Edge Machine Cost \$1,100,000
- Central count scanners \$170,000
- Total Election Costs \$3,525,750
- **Additional Funds Needed \$425,750**
- **Comment - Advantage problems-precinct results & certification issues**

# Combined Polling Place Election Models

- Option 14 – DREs – Edge machines only
  - 175 Combined Polling Places
  - 8 Edge DREs per PP to serve all voters
  - Basic Operating Costs \$2,255,750
  - Additional Edge Machine Cost \$5,800,000
  - Central count scanners \$170,00
  - Total Election Costs \$8,225,750
  - **Additional Funds Needed \$5,125,750**
  - **Comment – Capacity Issues**

# Combined Polling Place Election Models

- Option 15 – Paper ballots & Edge DREs
  - 175 Combined Polling Places
  - 4 Edge DREs per PP to serve all voters
  - Paper ballots at all PPs to serve all voters
  - Basic Operating Costs \$2,617,700
  - Additional Edge Machine Cost \$2,300,000
  - Central count scanners \$170,000
  - Total Election Costs \$5,087,700
  - **Additional Funds Needed \$1,987,700**
  - **Comment - Complexity of election administration**