

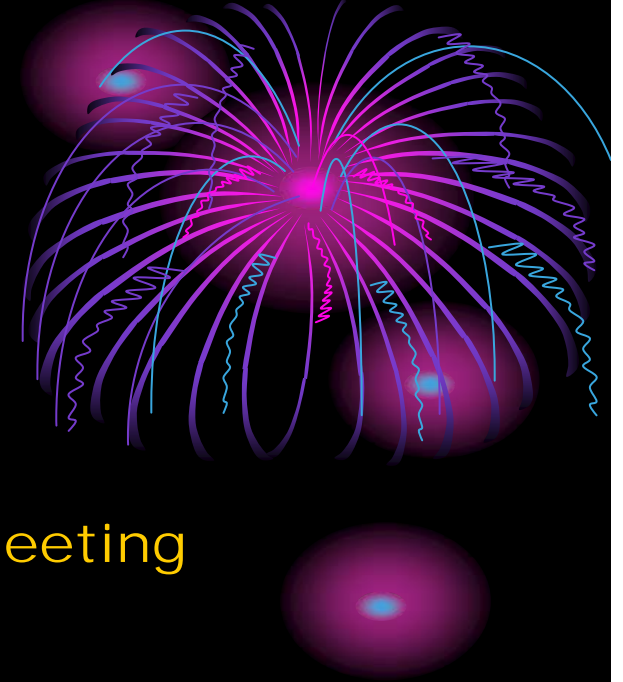


2008 ELECTIONS MODEL  
ADVISORY COMMITTEE  
October 2, 2007

City and County of Denver  
Clerk and Recorder  
Elections Division


# Today's Agenda

- **Introductory Comments**
  - Notes from September 25, 2007 Meeting
  - Review Committee Schedule
  - Review Ground Rules
- **Presentation & Discussion on Voting Systems**
- **Discuss Future Meetings**
- **Distribute Informational Packet for Next Week**



# Introductory Comments



- September 25<sup>th</sup> Meeting Notes – In packet
  - Committee 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 and Final Recommendations
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# Introductory Comments

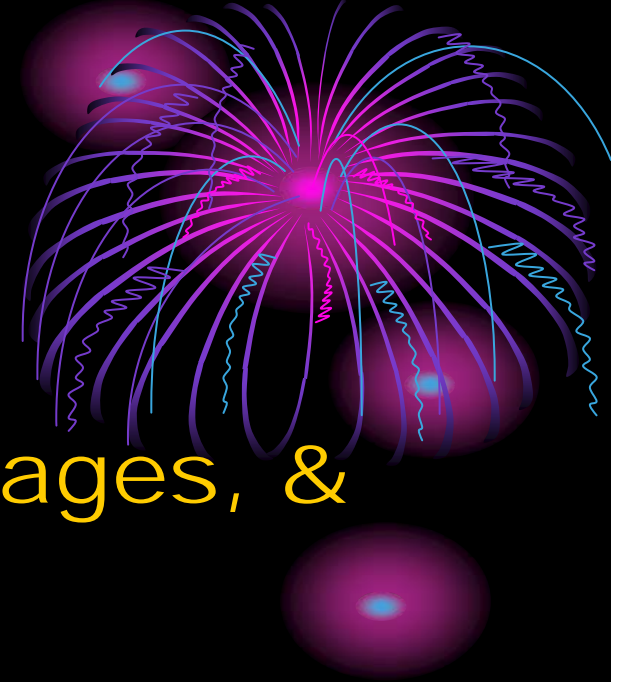


- Ground Rules

- 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

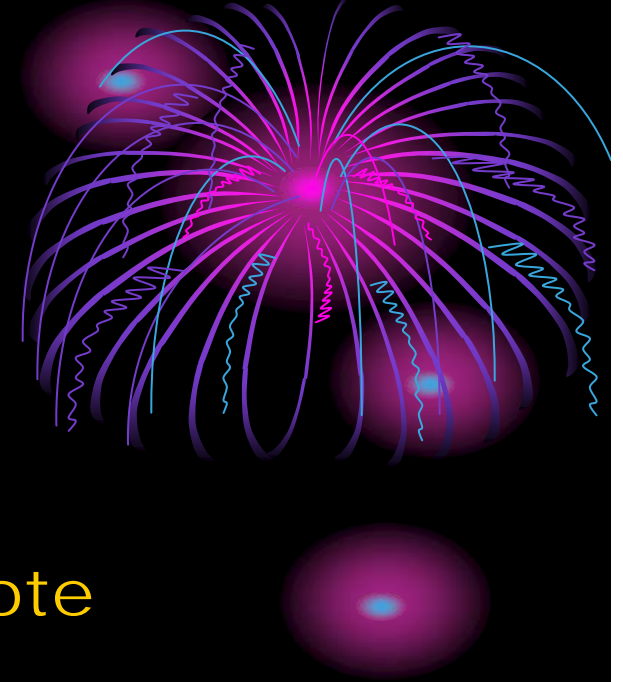
# Voting Systems

- Advantages, Disadvantages, & Unknowns of:
  - Paper Ballots
  - DRE Ballots
  - Combined Use of Paper & DRE Ballots



# Paper Ballots

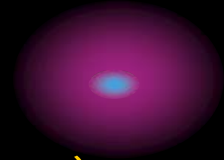
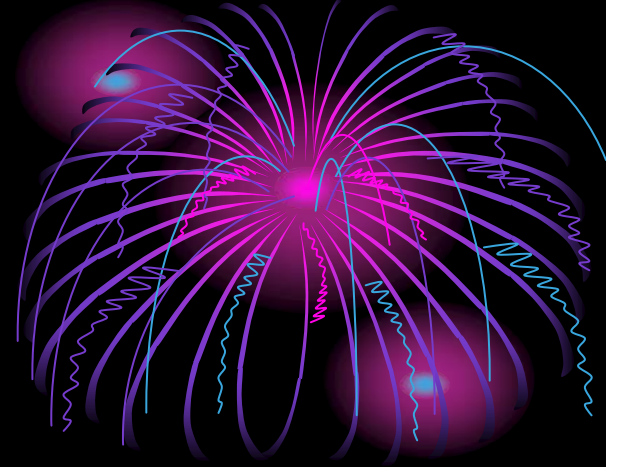
- Advantages
  - Permanent paper record of vote
  - Reliable audit trail
  - More easily recountable than VVPAT
  - Lower equipment costs
  - More capacity, less lines
  - Less training needed
  - Higher degree of trust by certain groups



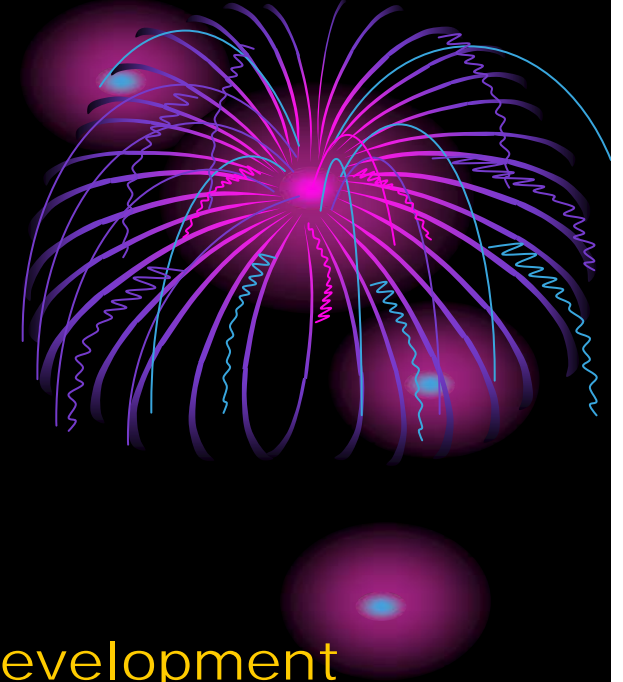
# Paper Ballots

- Disadvantages

- High paper costs and waste
- Potential high equipment costs
- New supply costs (ballot boxes, booths, etc)
- Higher labor costs because of ballot duplication
- No second chance voting
- Training issues with new equipment
- Not compatible with vote center model
- Later election results
  - Logistics of returning ballots
  - Compilation is slower, starts later



# Paper Ballots



- **Unknowns**

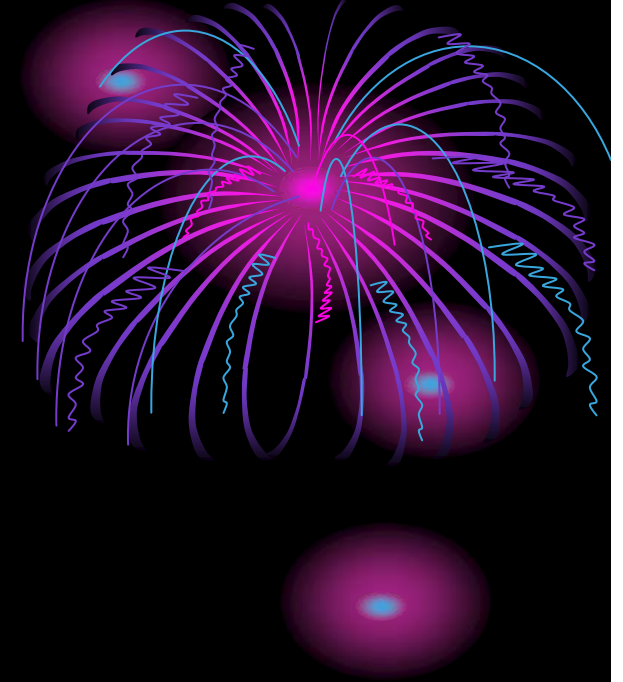
- **HAVA/ADA compliance**
  - New equipment needed/in development
  - Certification – if and when?
- **Central Count vs. precinct count**
  - Performance, speed of results
  - Training needs
  - Floor space needed for central count
  - Central count/second chance voting issue
- **Acceptance by voters**

# DRE Ballots

- Advantages
  - Successful history in Denver
    - No equipment problems
    - Voter familiarity
  - Environmentally friendly
  - Facilitates second chance voting
  - Results tabulated faster
  - Easier ADA/Low-vision voting
  - Auditable paper trail (on new machines)



# DRE Ballots



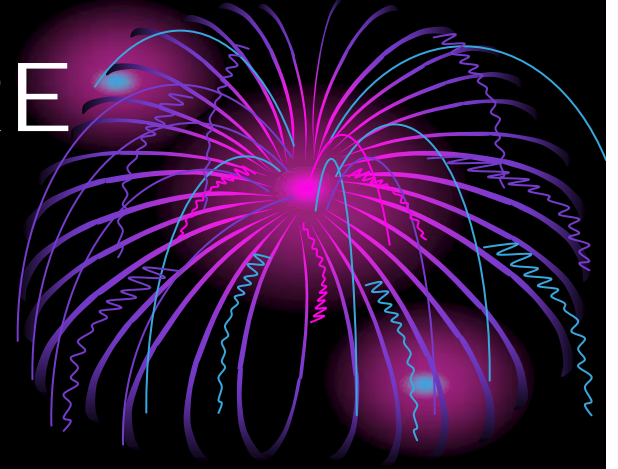
- Disadvantages
  - Less capacity / more lines
    - Slower voting (activation, VVPATs)
    - Fewer places to votes
  - More complex training
  - Mechanical/electrical point of failure
  - Perceived system vulnerability to fraud
  - Higher costs
    - Advantage DREs MUST be replaced 2010
    - Existing fleet inadequate for Presidential Election
    - Higher infrastructure requirements (electrical, etc)
    - High preparation / maintenance costs

# DRE Ballots

- Unknowns
  - SOS Certification
  - Uncertain federal legislation
  - Shortage of technically competent poll workers
  - Unknown lifespan of equipment
  - Support of vendors
  - Availability of funds to purchase new machines



# Combined Paper & DRE Ballots



- Advantages
  - Provides more options to voters
  - Has advantages of both paper ballots and DRE ballots

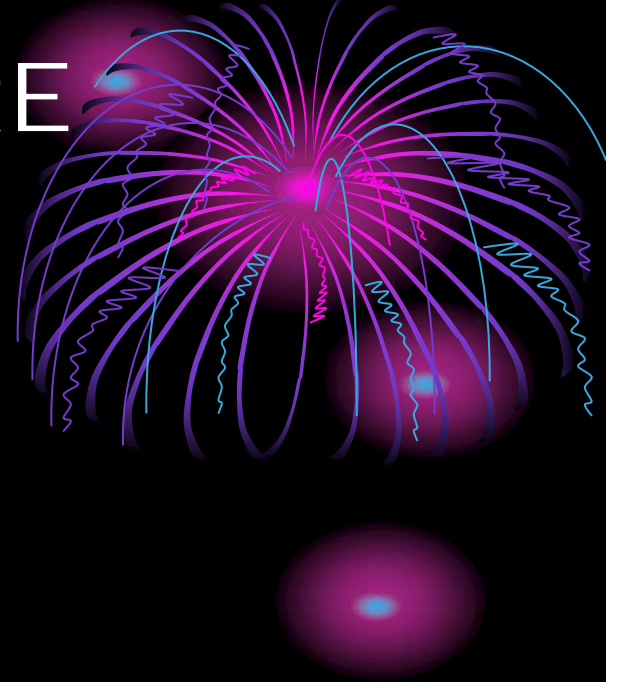
# Combined Paper & DRE Ballots



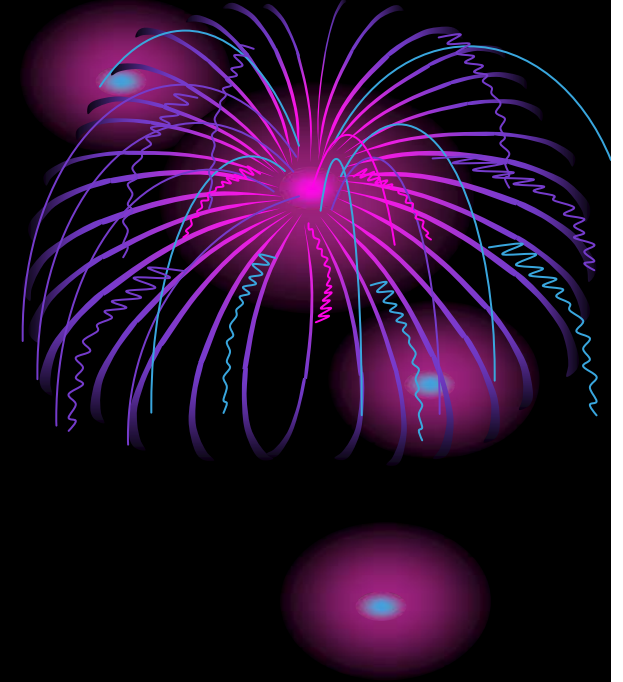
- Disadvantages
  - Higher costs because of running dual systems
  - Adds complexity to compiling results

# Combined Paper & DRE Ballots

- Unknowns
  - Same unknowns as with paper ballots and DRE ballots



# Future Meetings



- Proposed process
  - Prioritization of factors
  - Score advantages
  - Side by side comparisons, matrices
- Feedback from Committee
  - What information is still needed?
  - What form of report?

# Informational Packet



- Handouts
  - Onondaga County NY Cost Analysis on DREs vs. paper
  - LWV Infosheet on DREs/HAVA
  - Tylerpaper.com reader feedback on paper ballots
  - FCW.com Op-Ed on Touchscreens
  - Election Technology Council rebuttal
  - Sequoia Security Evaluation from "California Hack"
  - Sequoia rebuttal
  - Report on factors affecting voting in Latino and African American Communities
  - Link to MIT Study "Pathways to a Trusted Electronic Voting System"
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