EMS Example

ThinkTank

- Leader creates session and sets agenda
EMS Example
ThinkTank

- Leader manages session; e.g., sets permissions, can turn on/off anonymity
  - If “View Name Tags” is off when contribution is made, it remains anonymous, even to leader

EMS Example
ThinkTank

- Participants brainstorm ideas
EMS Example

ThinkTank

- Organize ideas into categories

EMS Example

ThinkTank

- Comment on an idea
EMS Example

ThinkTank

- Reorder ideas to prepare for voting
  - Simple vote or rate based on multiple criteria

- Vote
  - Low/med/high
  - Sliding scale
  - N-point scale
  - True-false
  - Point allocation from budget
EMS Example

ThinkTank

- View results
  - Chart

EMS Example

ThinkTank

- View results
  - Table
EMS Example

ThinkTank

- View results
  - 2×2 chart to compare criteria

EMS Example

ThinkTank

- View results
  - More tables
EMS Example
ThinkTank

- Collect action items
- Shared planning spreadsheet

EMS Example
ThinkTank

- Generate reports
Same time, same space

- **Single Display Groupware**
  - Support for multiple co-located users collaborating with a single display (but potentially separate input devices)
  - Need to avoid interference
    - Serial use: Single cursor (with “chalk passing”)
    - Parallel use: Multiple cursors
  - Use transparent widgets to minimize visual interference with other users (A. Zanella and S. Greenberg, *Proc. ECSW 2001*)

- **Tabletop displays**
  - Large
  - Horizontal
  - Users positioned *around* table
    - UI must support different orientations (e.g., rotate cursor)
  - Example: DiamondSpin tabletop toolkit
    - Documents constrained to face the nearest tabletop edge
    - C. Shen et al., Informing the design of direct-touch tabletops, *IEEE CG&A*, Sep/Oct 2006, 56–66
  - ACM Int. Conf. on Interactive Tabletops and Surfaces → ACM Interactive Surfaces and Spaces
    - http://iss2018.acm.org

For a history of multi-touch systems see
http://www.billbuxton.com/multitouchOverview.html

https://www.youtube.com/watch?v=6tCYcaZ-WU
Same time, same space

- Single Display Groupware supplemented with personal devices
  - Supporting collaborative search