CMAP
Research & Analysis
Work Program

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History:
Data as a Planning Tool

- “Great Society” – Quantitative Revolution in the social sciences
- Steady advances in computer power, storage capacity and programming
- Amazing advances in Geographic Information Systems.
- Slow progress in advanced planning methods
History: Planning Data in northeastern Illinois

- **CATS**
  - Travel surveys
  - Network databases
  - Scenario modeling

- **NIPC**
  - Census repository
  - Household and job forecasts
  - Land use inventory
CMAP Research and Analysis Work Program

- Data:
  - Collection
  - Exchange
  - Dissemination
  - Analysis
  - Evaluation
  - Modeling
Collection, Exchange, Dissemination

- Geographic Data
- Demographic Data
- Economic Data
- Transportation Data
Regional Information

- **Land Use**
  - 2000, 2005...

- **Capital Infrastructure**
  - Highway, Rail, Water, Sewer

- **Environmental**
  - Air, Water, Open Space

- **Administrative/Political**
  - Global, US, MSA, Illinois, County, Municipal
Demographic Data

- Census
  - Decennial Count
  - Journey to Work
  - Special Counts
  - American Community Survey

- Travel Survey
  - 2007 Household Travel Inventory
Economic Development

- Regional Scale
  - Commercial Development
- Community Development
  - Full Circle
  - Internet Mapping Service
Transportation Data

- Highway and Rail Facility Inventories
- Capital Programs
Analysis, Evaluation, Modeling

- Local impact analyses
- Developments of Regional Importance
- Regional scenario evaluations
- Simulation modeling
- Sensitivity modeling
Local Impact Analyses

- Traffic Projections
- Facility Planning Areas
- Evacuation Planning

Chicago Metropolitan Agency for Planning
Developments of Regional Importance

- Bigger than a breadbox?
- “System-wide” effects
- Require special legislation
- Have long-term fiscal implications
Regional Scenario Evaluations

- Economic growth
- Transportation performance
- Air quality
- Water supply
Simulation

- Population Synthesis
- Transportation Microsimulation
- Land Use Development
Sensitivity Modeling

- Policy influences on regional development patterns
- Economic development incentives
- Transportation pricing