

# Using Planning Models to Support Operations

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## Traditional Planning Model

- Highway Travel Demand
  - From land use, trip generation/distribution, mode choice models
  - Averages: peak and off peak periods
- Route over a highway network
  - Link capacities and volume / delay functions

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## Planning for Emergencies

- Demand
  - Base demand highly time-of-day dependent
  - Demand may change, in response to
    - the weather forecast
    - the emergency
  - It is no longer an independent variable
- Supply (network capacity)
  - Highly time-of-day dependent
- Run scenarios to develop a playbook

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## Operations Management

- Using modeling to assist in real-time operations management

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