



# Environmental Concerns

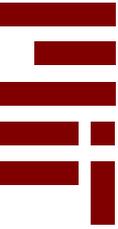
Urban Transportation Planning  
MIT Course 1.252j/11.540j  
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# Environmental Protection is Reactive

- 1956 Interstate Highway Program
- 1960 Two hearing process
- 1966 section 4(f)
- 1970 NEPA
- 1970 clean Air Act (1977, 1990, 2011)



# NEPA

1. Define the problem
2. Consider alternatives
3. Project consequences
4. Share information with public and receive feedback
  - "Draft" and "Final"
5. Choose action and mitigation
6. Citizen right of action
7. Agency manages process
8. Time, FONSI



# MEPA

- Separate environmental agency manages process
- No citizen access to court
- Who appoints administrator?
- ENF & Scope



# Transportation and Air Quality

1. Fuel consumption =  $\frac{\text{vehicles}}{\text{population}} * \text{population} * \frac{\text{VMT}}{\text{vehicle}} * \frac{\text{Fuel}}{\text{VMT}}$

1. Pollution = FN (energy consumed)
2. Fix the system; fix the vehicle
3. Air quality problem as
  - Lead
  - CO
  - HC, Nox
  - CO2
4. Fad, or long-term driver of policy?
  - Cancer; cigarettes; war & famine
5. Clean Air Act:
  - 1970
  - 1990
  - Conformity

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