Class 14 - HIA Applications
Agenda

- Welcome back
- EIA
- HIA
- Updates from site visits
- Assignments and feedback
NEPA

• National Environmental Policy Act (NEPA) issued in 1973: “When we speak of the environment, basically, we are talking about the relationship between man and these physical and biological and social forces that impact upon him”

• Established by the President’s Council on Environmental Quality (CEQ)

• Any major federal, state, or local project that spends federal funding, is performed by federal government, or requires permits issued by a federal agency
NEPA’s EA Process

Image via the State of California/CalTrans. This image is in the public domain.
Human Health Impacts in EIA

- Eos 12898 (EJ) and 13045 (protection of children from environmental health and safety risks)

- Six mentions of health in NEPA
EO 12898 and 13045

• Environmental justice – directive to identify and address disproportionate and adverse human health or environmental effects
• Use public health data, involve public health agencies
• Consider health effects
NEPA process- how health gets in

- Substantive public concerns are addressed in the DEIS

- Definition of significance includes “the degree to which effects on the human environment are likely to be highly controversial”

- “Effects” includes ecological, aesthetic, historic, cultural, economic, social, or health, whether direct, indirect, or cumulative”
NEPA’s EA Process

- Notice of intent and scoping
- Draft EIS
  - Public comment
  - Explain purpose and need
  - Assess ‘no build scenario’
- Final EIS
- Record of Decision
  - Provisions are not binding
EIA experiences?
Social Impact Assessment

• 1970s
• Orientation, not methodology
• Has most frequently been wrapped into the EIA process
• Can be a standalone assessment
HIA minimum elements

- Three iterations, hundreds of public comments

Impact assessment

EIS SIA HIA ...

- Scoping
- Data collection
- Prediction (assessment)
- Recommendations to minimize harm and maximize benefits
- Look at overlapping focal areas
Other assessment types

- ESHIA – integrated assessment
- SEA – strategic environmental assessment
- HHRA – human health risk assessment
- OHRA – occupational health risk assessment
More things HIA is not

- Epidemiologic study
- Program evaluation
- Cost-benefit analysis
Do we need all of this?
Synergies

Proposed transportation project

EIA – how is the project expected to change levels of various air pollutants
HIA – how do changes in air pollutants affect health
Example: Healthy T for a Healthy Region

<table>
<thead>
<tr>
<th>Scenario</th>
<th>Cost Increase</th>
<th>Reduction in Health Cost</th>
<th>Proposed Fare Increase and Service Reduction Scenarios</th>
<th>Cost of Additional Time in Traffic</th>
<th>Cost of Additional Mortality and Hospitalizations due to Air Pollution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scenario One</td>
<td>$33.6 million</td>
<td>$116.5 million</td>
<td>43%</td>
<td>$137.5 million</td>
<td>$1.5 million</td>
</tr>
<tr>
<td>Scenario Two</td>
<td>$48.8 million</td>
<td>$116.5 million</td>
<td>35%</td>
<td>$186.0 million</td>
<td>$2.1 million</td>
</tr>
</tbody>
</table>

Please visit “A Healthy T for a Healthy Region” to view the entire report presentation.

*Courtesy of the Metropolitan Area Planning Council. Used with permission.*
Was this an HIA?
• Should this have been an HIA?
Pick a ‘model HIA’

• Critique by April 12
• www.hiasociety.org – SOPHIA webiste
• Site visits
• Assessment workshops
  ▫ Where are you stuck?
  ▫ What do you need help with?
  ▫ What is your analytic plan?