Using Situational Crime Prevention to Prevent Human-Leopard Conflict

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Where to act to prevent illegal leopard killings?

- Ineffective guardianship
- Human-wildlife conflict
- Tolerance for leopard killing
- No informal guardians
- Additional guardianship
- Poaching
- Retaliatory killing
Environmental criminology & conservation

- Focus is on **reducing opportunities** for crime
- People are situated decision makers
- Changing situational context influences their decisions

- Analyze opportunity structure for a specific crime
  - Step-by-step crime commission process with facilitating conditions
- Analysis finds **pinch points** at which to apply prevention efforts
### Viollaz (2015): Findings

**Study:** “When human-leopard conflict turns deadly: A cross-country situational analysis

<table>
<thead>
<tr>
<th>H-LC acute when:</th>
<th>Majority of population affected</th>
<th>Increasing land-use &amp; resource competition</th>
<th>Lack of economic cushion</th>
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<tbody>
<tr>
<td>Tolerance for illegal leopard killings when:</td>
<td>Unrealistic expectations of costs from wildlife</td>
<td>Eco-tourism limited</td>
<td>Inconsistent enforcement of wildlife protection laws</td>
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<td></td>
<td>Corruption</td>
<td>Confusion over who responsible for prevention</td>
<td>Confusion over best practices</td>
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<td>History of failed initiatives</td>
<td>Antagonism between actors</td>
<td>Blame game or denial</td>
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<td>Road access limited</td>
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Diplomacy Lab (2014-15): Findings

- Evaluated existing responses to wildlife trafficking & illegal fishing
  - Participatory responses best meet local & conservation needs
  - Targeted use of technology cuts prevention costs
  - PR campaigns build public support for conservation
  - Transparent & accelerated prosecution deters future offenders

- Script analysis of wildlife trafficking process
  - Prosecuting financial crimes rather than wildlife crimes
Conceptualizing a response to illegal wildlife killings

- **Solutions should be:**
  - Multi-pronged & interdisciplinary
  - Self-sustaining
  - Led by local residents with outside input
  - Specific to location characteristics

- **Use combination of two frameworks to build H-LC toolkit:**
  - Participatory crime analysis
  - 25 techniques of situational crime prevention
## 25 Techniques of Situational Crime Prevention

<table>
<thead>
<tr>
<th>Increase effort</th>
<th>Increase risks</th>
<th>Reduce rewards</th>
<th>Reduce provocations</th>
<th>Remove excuses</th>
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</thead>
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<tr>
<td>Harden targets</td>
<td>Extend guardianship</td>
<td>Conceal targets</td>
<td>Reduce frustrations</td>
<td>Set rules</td>
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<td>Control access to facilities</td>
<td>Assist natural surveillance</td>
<td>Remove targets</td>
<td>Avoid disputes</td>
<td>Post instructions</td>
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<td>Screen exits</td>
<td>Reduce anonymity</td>
<td>Identify property</td>
<td>Reduce emotional arousal</td>
<td>Alert conscience</td>
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<td>Deflect offenders</td>
<td>Utilize place managers</td>
<td>Disrupt markets</td>
<td>Neutralize peer pressure</td>
<td>Assist compliance</td>
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<td>Control tools</td>
<td>Strengthen formal surveillance</td>
<td>Deny benefits</td>
<td>Discourage imitation</td>
<td>Control drugs &amp; alcohol</td>
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Increase the effort

- **Harden targets**
  - Bell collars
  - Donkeys

- **Control access to facilities**
  - Predator-proof corrals
  - Fence in villages

- **Deflect offenders**
  - Lion Lights
Increase the risks

- **Extend guardianship**
  - Encourage neighborhood “adoption” of local leopards

- **Assist natural surveillance**
  - Phone app that predicts likely predation locations

- **Utilize place managers**
  - Game-scouts to track leopard movements & guard livestock
  - Predation response team: create predation prevention plan

- **Strengthen formal surveillance**
  - Equip livestock with sensors that track herd movement & tell farmer
Reduce rewards

- **Deny benefits**
  - Livestock feed that makes animals taste/smell bad to predators

- **Disrupt markets**
  - Prosecute the financial crimes committed during wildlife trafficking
Reduce the provocations

- **Neutralize peer pressure**
  - Rather harness peer pressure: demand reduction campaigns
  - Develop label for products from “leopard-friendly” farms

- **Reduce frustrations**
  - Tick fever prevention efforts to reduce livestock mortality
  - Insurance schemes to lessen economic blow

- **Discourage imitation**
  - Randomly move livestock around to different grazing areas to prevent recurrence of predation
Remove the excuses

- **Post instructions**
  - Host workshops on how to live with/near leopards

- **Assist compliance – Adjust incentives**
  - Anonymous cell phone app to report illegal killings
  - Regular visits by wildlife officials to establish a relationship
  - Provide alternative benefits:
    - Bursaries
    - Revenue sharing from eco-tourism
Conclusions

- **Use combination of two frameworks to build H-LC toolkit:**
  - Participatory crime analysis
  - 25 techniques of situational crime prevention

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Thank-you

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