The City of Council Bluffs Red Light Photo Enforcement Program
Is red light running a problem??
Red Light Running

- World Wide: 260,000 crashes per year
- Iowa: 2,300 crashes per year
- Council Bluffs: 45 crashes per year
  706 citations issued per year
Police Officers, Traffic Operations, and the Public recognize Red running as a problem
Contributing Causes of Red Light

- Inadequate Capacity
- Inappropriate Signal Timing
- Intersection Geometry
- Pedestrian Issues
- Intersection Speed
- Weather Impacts
- Seasonal Impacts
- Excessive Trucks
Contributing Causes of Red Light

- Aggressive Driver Behavior
Traditional Remedies to Red Light Running

- Engineering
- Education
- Enforcement
Engineering Solutions

- All red intervals
- Strobe lights in red lens
- Rumble strips on approach lanes
- Frequent evaluation of signal timing
- Dynamic advance warning signs
- Corridor-wide signal synchronization
- Alternate routes to reduce demand
Automated Enforcement is a blend of Engineering, Education & Enforcement Solutions
Technology

Camer → Photo → Processin Center → Citation → Offend

Review → City

Approval
Arguments Against Use

- Invasion of Privacy
- Real purpose is to generate revenues
- Will cause increase in accidents
Council Bluffs Vendor Selection

- 10 RFPs mailed
- 5 proposals received
- Reviewed by City Legal, Traffic, Police Engineering
- Redflex Selected
Ordinance

Violation:
- results in a civil fine of $65 to registered owner of vehicle
- NOT A MOVING VIOLATION
- Can first be appealed to City Attorney
- Can then be appealed in court by a trial before a judge
Contract Terms

- 5 years
- Up to 20 intersections
- Fee Structure
  - 0-3 citations per day 76.9% to vendor
  - 4-6 citations per day 61.5% to vendor
  - 7+ citations per day 46% to vendor
- City has option to go to Fixed Monthly Fee
  - $5170 per approach
Redflex furnishes, installs and maintains equipment
Redflex processes citations and collects fines
City provides Police review of violations
City provides power and internet
City handles reviews & prosecutions
Council Bluffs Intersection Selection

- **Red light** running caused collisions (top 17 intersection approaches)
- Video tape 4 hours at each
- Top 7 approaches received cameras (5 intersections)
Video Tape Summary

- 68 hours of videotape covering 17 approaches
- Counted left turn, through and right turn violations
- 36 left turn violations
- 162 through movement violations
- 131 right turn violations
- 329 Total
Video Tape Results

- Top 7 avg. per approach: 9.36 per hour
- Top 5 avg. per approach: 11.35 per hour
- Top 3 avg. per approach: 13.67 per hour
- Top 1 avg. per approach: 23.50 per hour
Scene A
Plate Zoom
Offender can view
12 second video
Of violation on line
<table>
<thead>
<tr>
<th>Customer Management Report (Council Bluffs) Redlight Incidents</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-May-2008 to 31-Aug-2008</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Total Vehicles</th>
<th>Jan</th>
<th>Feb</th>
<th>Mar</th>
<th>Apr</th>
<th>May</th>
<th>Jun</th>
<th>Jul</th>
<th>Aug</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>245</td>
<td>137</td>
<td>665</td>
<td>757</td>
<td>522</td>
<td>775</td>
<td>651</td>
<td>388</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Lost Day Available Factors</th>
<th>Confidentiality</th>
<th>Speed Limit</th>
<th>Speed Enforcement</th>
<th>Driver Error</th>
<th>Weather</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Metro</td>
<td>Traffic</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Public</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Private</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Frequency Factors</th>
<th>Incidents</th>
<th>Total Incidents</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Event</th>
<th>Incidents</th>
<th>Total Incidents</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Start Time Distribution</th>
<th>Jan</th>
<th>Feb</th>
<th>Mar</th>
<th>Apr</th>
<th>May</th>
<th>Jun</th>
<th>Jul</th>
<th>Aug</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>321</td>
<td>152</td>
<td>494</td>
<td>752</td>
<td>564</td>
<td>752</td>
<td>636</td>
<td>413</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Level of Expense</th>
<th>Jan</th>
<th>Feb</th>
<th>Mar</th>
<th>Apr</th>
<th>May</th>
<th>Jun</th>
<th>Jul</th>
<th>Aug</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>5</td>
<td>15</td>
<td>35</td>
<td>1</td>
<td>1</td>
<td>10</td>
<td>12</td>
<td>1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Notable For Proportion</th>
<th>Jan</th>
<th>Feb</th>
<th>Mar</th>
<th>Apr</th>
<th>May</th>
<th>Jun</th>
<th>Jul</th>
<th>Aug</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>241</td>
<td>195</td>
<td>494</td>
<td>752</td>
<td>564</td>
<td>752</td>
<td>636</td>
<td>413</td>
</tr>
<tr>
<td>Location</td>
<td>Value</td>
<td>Value 2</td>
<td>Value 3</td>
<td>Value 4</td>
<td>Value 5</td>
<td>Value 6</td>
<td>Value 7</td>
<td>Value 8</td>
</tr>
<tr>
<td>----------</td>
<td>-------</td>
<td>---------</td>
<td>---------</td>
<td>---------</td>
<td>---------</td>
<td>---------</td>
<td>---------</td>
<td>---------</td>
</tr>
<tr>
<td>Value 1</td>
<td>Value 2</td>
<td>Value 3</td>
<td>Value 4</td>
<td>Value 5</td>
<td>Value 6</td>
<td>Value 7</td>
<td>Value 8</td>
<td>Value 9</td>
</tr>
<tr>
<td>Value 11</td>
<td>Value 12</td>
<td>Value 13</td>
<td>Value 14</td>
<td>Value 15</td>
<td>Value 16</td>
<td>Value 17</td>
<td>Value 18</td>
<td>Value 19</td>
</tr>
<tr>
<td>Value 21</td>
<td>Value 22</td>
<td>Value 23</td>
<td>Value 24</td>
<td>Value 25</td>
<td>Value 26</td>
<td>Value 27</td>
<td>Value 28</td>
<td>Value 29</td>
</tr>
<tr>
<td>Value 31</td>
<td>Value 32</td>
<td>Value 33</td>
<td>Value 34</td>
<td>Value 35</td>
<td>Value 36</td>
<td>Value 37</td>
<td>Value 38</td>
<td>Value 39</td>
</tr>
</tbody>
</table>

**Note:** The table above represents data from a study or experiment. Each row and column likely indicates different variables or outcomes. The specific interpretation would depend on the context provided in the rest of the document.
FUTURE ??

Evaluation of Effectiveness by ISU/IDOT