The Ridgeway Complex
The Problem
Student Safety

- Flickering Lights
- Burnt Out Bulbs
- High Vegetation
- Outdated Lighting and Wiring
- Unlit Parking Lots
- $$$$
Case Studies
University of Washington-Seattle

- Comprehensive analysis of campus lighting
  - Current conditions
  - Student input
  - Data analysis
  - Recommendations for future projects
Hawaii Pacific University Lighting Renovation

- Josh Pridge: (2012)
  - Lead Designer
- Improve the Lighting
  - Meant for sustainability and safety
- Timeline
  - 3-4 months
Data & Research
Student Survey

“I don’t change my route, but I can see why people would.”

“Many of the lights are dim or out. More lighting is desperately needed!!!”

“I take the same route no matter what.”

“The lighting is ok, but the high bushes make me feel unsafe.”
How much does lighting contribute to your feeling of safety?

- A great deal: 33.94%
- A lot: 30.91%
- A moderate amount: 25.45%
- A little: 7.96%
- None at all: 1.82%
Rank how safe you feel walking on the Ridge in the dark?

- Safe: 32.73%
- Somewhat safe: 19.39%
- Somewhat unsafe: 30.30%
- Unsafe: 16.97%
- No opinion:
Do you change your walking routes when it is dark?

- Every time: 32.12%
- Most of the time: 21.82%
- Sometimes: 9.09%
- Never: 36.97%
Lighting Considerations

- Sense of Comfort
- Highlight Connections and Destinations
- Long-term Plan for LED Replacement
- Avoid High Contrast
- Appropriate Scale
- Dark Sky Association
Recommendations & Conclusion
## Recommendations

### Short Term

<table>
<thead>
<tr>
<th>Recommendation/Goal</th>
<th>Cost</th>
<th>Benefit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Replace bulbs with LEDs $62.50</td>
<td>$2.50/bulb x 25 bulbs</td>
<td>Increase light intensity and create consistent lighting along path</td>
</tr>
<tr>
<td>Replace fixtures underneath dorms $300</td>
<td>$100/fixture x 3 fixtures</td>
<td>Old fixtures do not support LED bulbs, new fixtures will allow for consistency</td>
</tr>
<tr>
<td>Improve existing safety program</td>
<td></td>
<td>Provide information to students about safe travel practices</td>
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</tbody>
</table>

### Long Term

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<td>Contribute student data to Facilities project</td>
<td>Priceless $0</td>
<td>Provide a student voice to the conversation already being had by campus administration about lighting issues</td>
</tr>
</tbody>
</table>
Conclusion

The key to adequate lighting is thoughtful implementation!