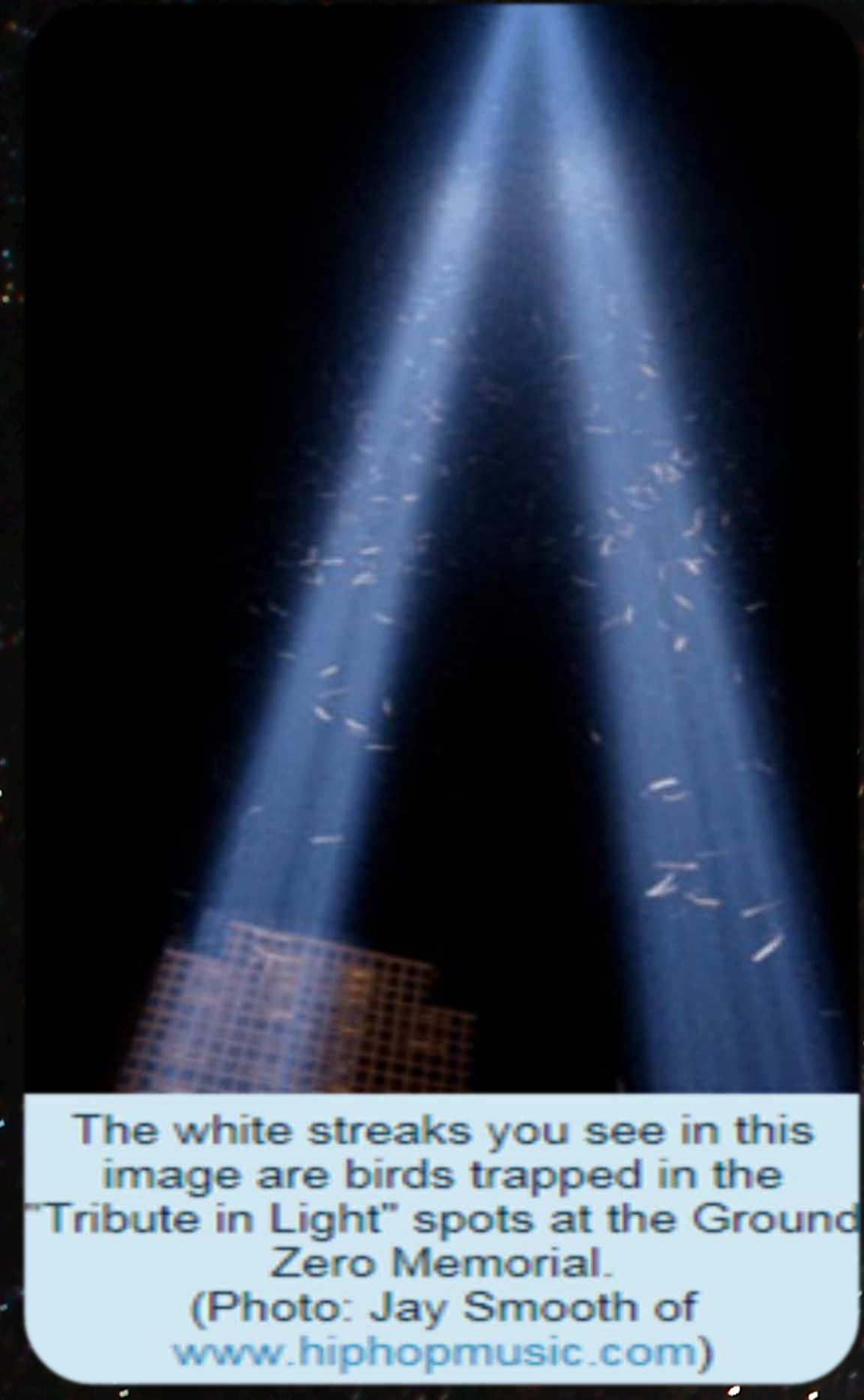


# WPI

# The Dark Night Project

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The white streaks you see in this image are birds trapped in the "Tribute in Light" spots at the Ground Zero Memorial. (Photo: Jay Smooth of www.hiphopmusic.com)

### The Problem, The Vision

Migratory bird deaths due to light pollution is a problem. Nocturnal migrators use the stars and the moon to navigate in the night and bright lights disorientate them. Light pollution also causes birds to become exhausted and fall to their deaths or collide with obstacles. Cost and energy expenditures and detrimental effects on the natural cycles of both plants and animals also result. We aim to combat light pollution by cancelling one of its largest sources: stadium lights.

### Methods/Process

- Research all of the impacts of light pollution
- Talk to facilities and athletics
- Determine lighting details
- Raise awareness
- Propose to WPI executives
- Extend to consortium

## \$23,515.73

Estimated money Saved per Year by Implementing Our Plan - More Savings Than a Semester of Tuition

## \$12.08

Cost to run the lights for 1 hour. (Based on 2014 data)

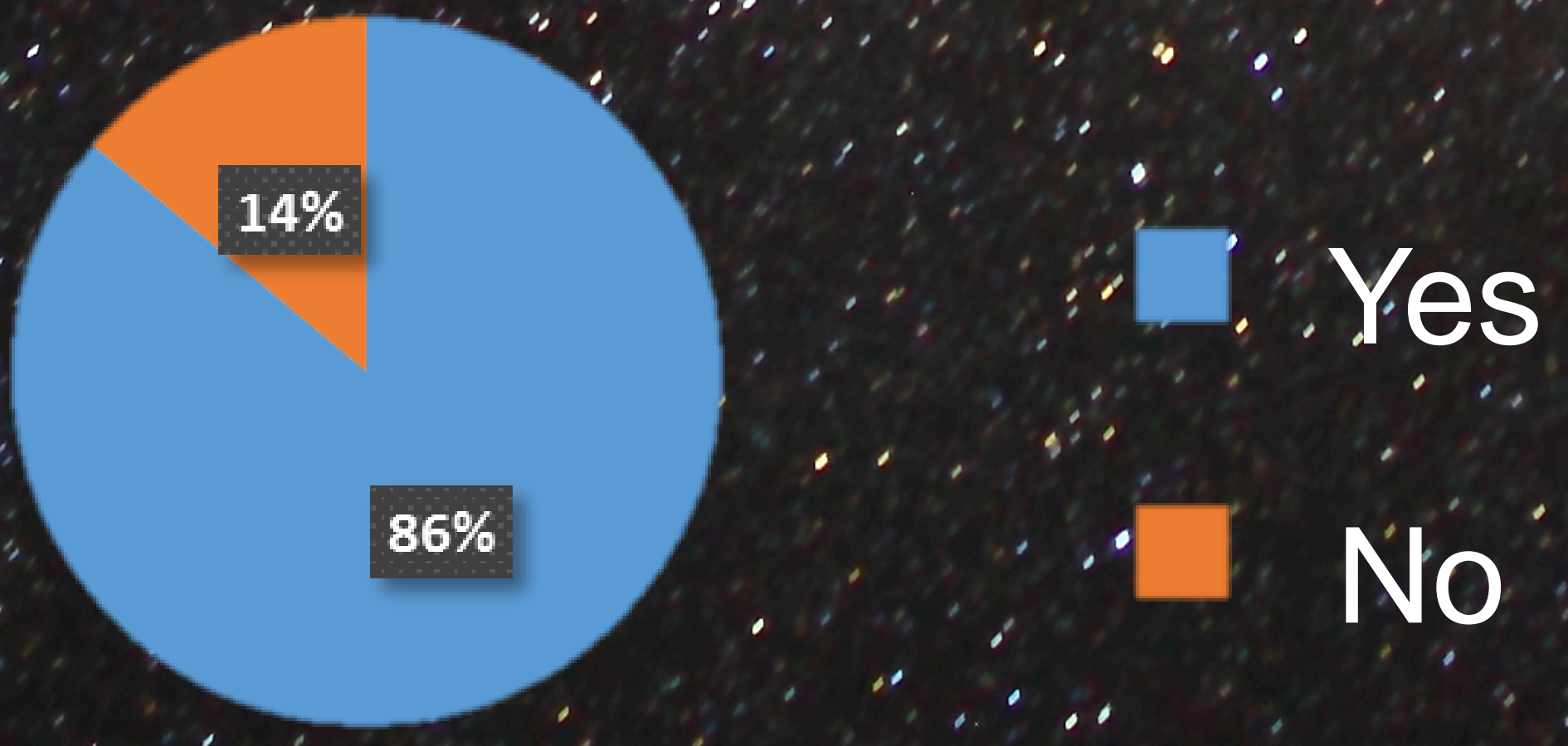
**“Perhaps the largest number, however, will perish from exhaustion as they circle around the lit towers, struggling to escape.”** — Kill the Lights, Save the Birds from Mass Audubon Newsletter 2009



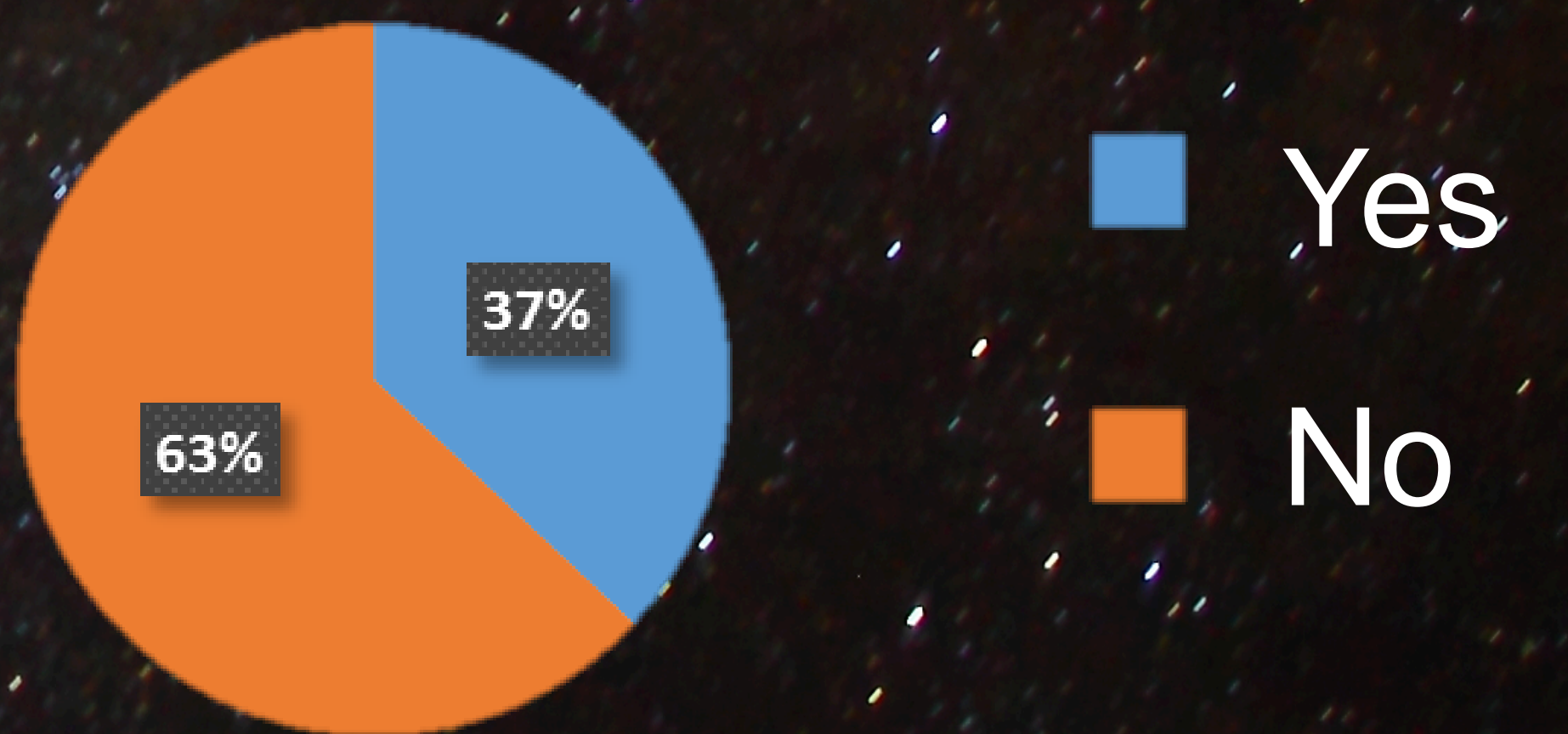
### Results

We have determined that an effort to reduced light pollution on the WPI campus is simple and beneficial to the school. Our plan is to turn off the stadium lights whenever not in use by using a sign up option and then extending this solution to the Worcester Consortium. This will combat the multiple problems created by light pollution.

### Would You Support Efforts To Turn The Athletic Field Lights Off While Not In Use?



### Has Unwanted Light from the Athletic Fields Ever Hindered Your Sleep?



### References & Acknowledgments

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