



# **Business case**

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Community & UN SDG(s): Teenagers/Young Adults + SDG 15 Life on Land

Date: Oct 18, 2023

Proposed Project	As the Light Grows
Date Produced	Oct 18, 2023
Background	A short side-scrolling game meant to make the player think about the consequences of light pollution in the real world.  The player plays as a "shadow creature" that must avoid the light. As the levels progress, the area in which the levels take place gets more and more populated (village -> city) which will be a challenge for the player.  Each level will also depict one or a few of the real consequences light pollution has on animals, and upon completion of each level, there will be a short info graphic/slide explaining the situation that the player witnessed. (ex. Lights attracting bugs to where they shouldn't be)
Business Need/ Opportunity	This game is meant to promote awareness about light pollution and its effects on animals, as it is often overlooked.
Options	<ul> <li>Do nothing</li> <li>Perform the project using Godot for the game engine</li> <li>Perform the project using some other game engine (Unreal Engine, Unity)</li> </ul>

# **Cost-Benefit Analysis**

#### Do Nothing

Costs:		Benefits:
-	The game doesn't get made and light pollution	
	remains relatively not talked about	

## Perform the project using Godot for the game engine

Costs:		Benefits:
-	I'm no expert when it comes to using Godot, so some time will be lost to learning it	<ul> <li>I have already started to learn a bit about how to use Godot</li> <li>Godot has some good tutorials</li> <li>The game will provide a good educational tool for light pollution's effects on animals</li> <li>The game will promote conversations about light pollution</li> </ul>

## Perform the project using some other game engine (Unreal Engine, Unity)

<ul> <li>I don't really know much about how to use Unreal or Unity – lots of time loss, reduced quality</li> <li>Unity – lots of time loss, reduced quality</li> <li>Unreal Engine and Unity both have tutorials available</li> <li>The game will provide a good educational tool for light pollution's effects on animals</li> </ul>	Costs:		Benefits:
- The game will promote conversations about light	-	•	<ul> <li>The game will provide a good educational tool for light pollution's effects on animals</li> </ul>





	pollution	
Recommendation		
Perform the project using Godot for the game engine.		