

DE-LIGHT INITIATIVE

- Harshal Utekar (Project Manager)

Harsh Pratap Singh

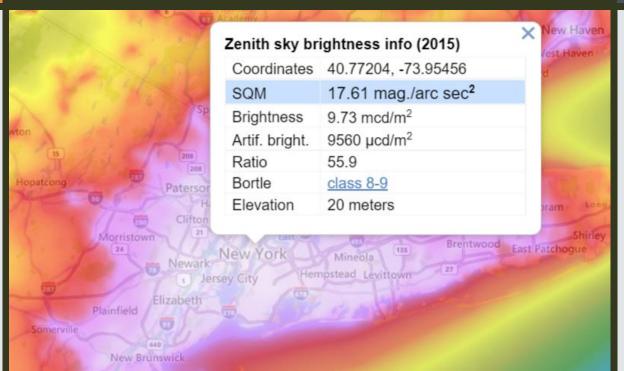
Devendra Gaud

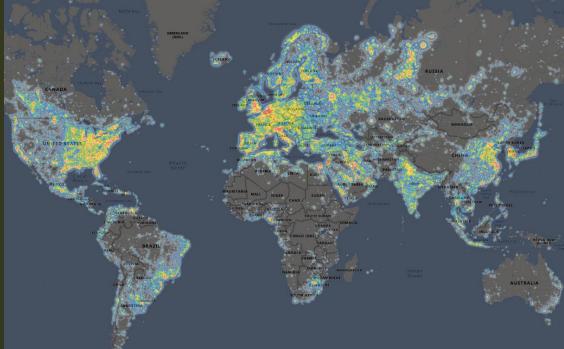
Pradnya Tipare

Bhagyashree Parkar

Yashasvi Sharma

WHY LIGHT POLLUTION?





Causes



Building exterior and interior lighting



Advertising



Commercial properties



Offices



Streetlights

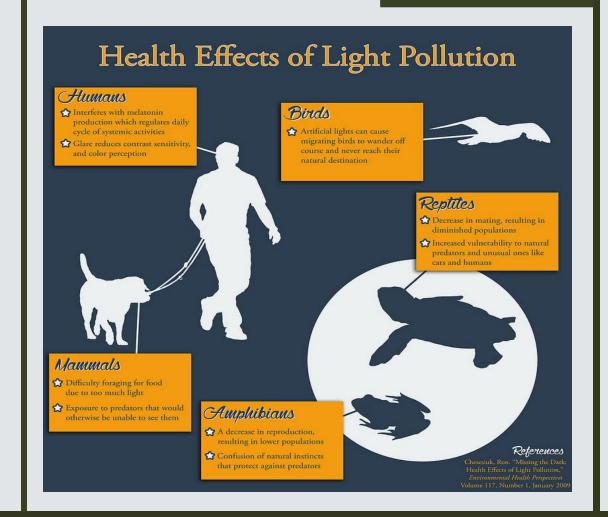


Illuminated sport venues

Light reflected back due to heavy clouds Upward reflected light Direct upward light Light trespas MY DEARING Direct glare Area to be lit

Components

Effects



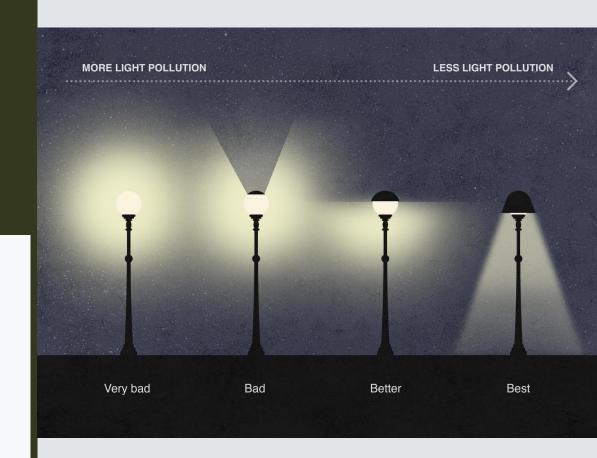
AIM AND OBJECTIVE

- Pitch project idea
- The goal for 1st year
- Minimize High-intensity lights
- Spread Awareness
- Laws and policies
- Lights fixtures(CRI)
- Reduce adverse Health effect
- Illuminating natural night sky



WAYS TO MINIMIZE LIGHT POLLUTION

- STREET-LIGHTS FIXTURE
- ECO-FRIENDLY LIGHTS
- REDUCE UNNECESSARY LIGHT USAGE
- ADVANCE NOTICE FOR THE CORPORATIONS
- PUBLIC AWARENESS



1. Spreading awareness through online and social campaigns



How?



2. Contacting supplier for E-light fixtures

1. PROJECT CHARTER

Project Title: De-Light Initiative

Start Date: 01/19/2022 Finish Date: 04/27/2022

Budget: \$5,670.00

Project Manager:

Name: Harshal Utekar

Responsibilities:

- 1. Monitor weekly progress
- 2. Time Management
- 3. Schedule Meetings
- 4. Coordinate project activities
- 5. Team motivation
- 6. Conflict resolution

Authority:

- 1. Change request approvals
- 2. Define budget for tasks
- 3. Allocate tasks to resources

Project Objectives:

- 1. To receive 100% funds from Angel Investors for non-profit.
- 2. To present non-profit idea in front of investors.
- Fixing the design fixtures of city lights by at least 10% after receiving funding by the 1st year.
- Targeting 20% skyscrapers, commercial, and corporate buildings to minimize the high intensity lights and encourage energy efficient LEDs/eco-friendly lights and lightresistant windows.
- Making the NYC people aware on the devastating effects of light pollution by holding campaigns and support advertisements.
- File and support for new light pollution control policies and currently withstanding laws/policies by collaborating with government entities.
- Evaluating light intensity of building fixtures based on Color Rendering Index(CRI) scale.
- 8. Reduce health effects on humans such as sleep disorders, breast cancer, eyesight.
- 9. To have an illuminating night sky rather than an artificial light night.

Deliverables:

- Deliver all 12 project management documents asked by Professor Leon Herszon.
- Presentation highlighting the goal and purpose of non-profit in-front of panel and professor.
- Promote the established and pursued policies by marketing and advertising to spread awareness and gain public support.
- Install model outdoor lighting in at least 5 NYC parks and encourage darksky programs to visitors
- Increase the energy efficiency grade of at least 20% buildings from D-grade to at least B-grade and boost the current B-grade efficiencies towards A-grade in NYC.
- Educate and promote lighting designers, manufacturers to manufacture lights with CRI of 85 or above.
- Establish guidelines with assistance of government for Turtle friendly light fixtures which
 point downward.

Success Criteria:

- . Receiving 70-100% of the funding for the non-profit.
- · Completing the project plan and documents
- Successfully presenting the project plan and presentation in front of investors and professor.

Risks:

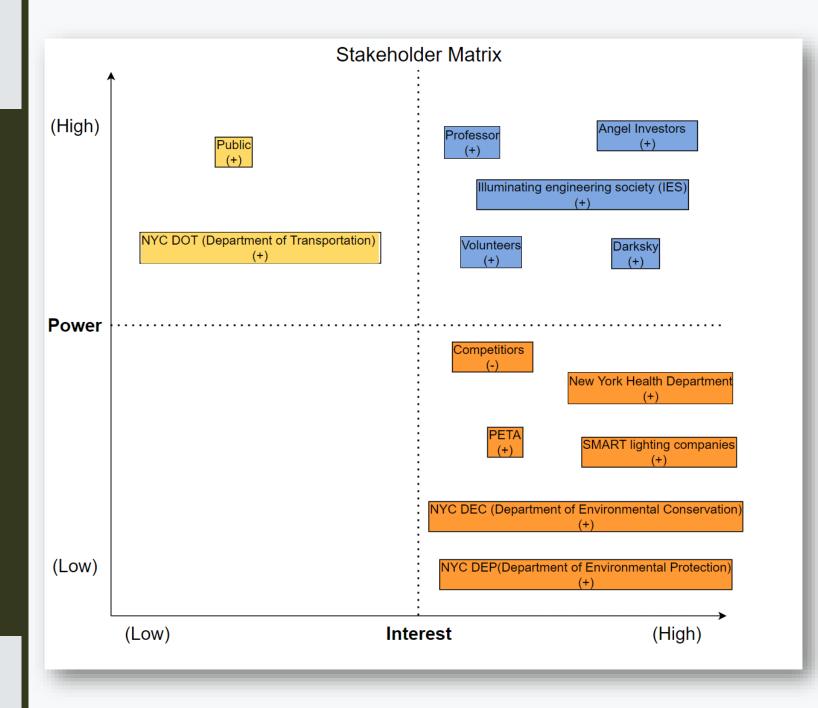
- Unable to secure funds
- Improper documentation
- · Insufficient research and factual data
- Scope creep

Sponsor's name and signature, date:

Mr. Joseph Vocaturo, 04/27/2022

Mr. Americo Pinto, 04/27/2022

2. STAKEHOLDER MATRIX



3. LIST OF REQUIREMENTS

A. DarkSky/IES

Obtaining Sky Quality Index, Classify Bortle-Scale, Policies, and Standards of Light Illumination

B. Volunteer

Carry out all the activities for the Non-Profit Organization

C. Angel Investors

Present 100% detailed project plan and obtain sponsorship from the Angel Investors to run the campaign

D. Public

Educate them about Light Pollution, its Impacts, and the importance of eco-friendly lights.

E. Eco-friendly Light supplier

Sell eco-friendly lights to the Public and provide samples to volunteers

F. NYC Dot/NYC Dec/ NYC Dep

Providing necessary legal information, insights and contribute to awareness campaigns.

G. PETA

Provide evidence-based information about the adverse effect of light pollution on animals, fishes and marine life.

H. New York Health Department

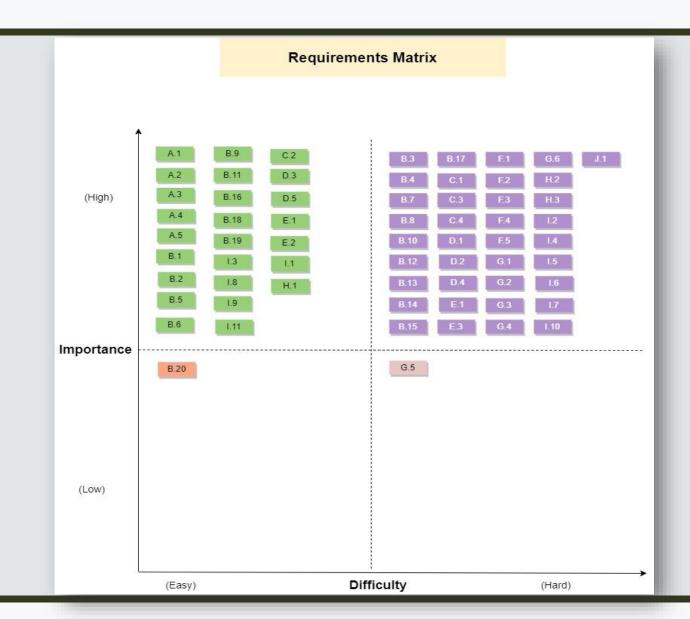
Provide evidence-based information about the adverse effects of light pollution on humans.

I. Professors

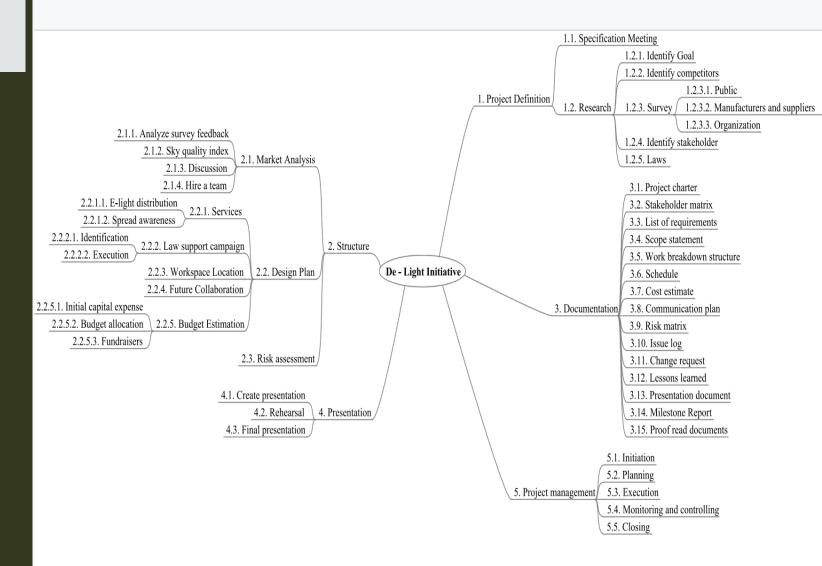
Create 13 Project Management documents. Create a presentation and present it on 27th April 2022.

J. Competitors

Future collaboration should be considered in order to get a bigger audience and reach goals.



5. WORK BREAKDOWN STRUCTURE



4. SCOPE STATEMENT

PRODUCT SCOPE

Scope of the Product:

A. DarkSky/IES

A.1. Sky quality index of the highly affected cities.

A thorough sky quality survey is essential to successfully applying to the International Dark-Sky Places Program. A synthetic index derived from the distribution of sky luminance values in the artificial sky glow mosaic. Dark Sky provides this value using the SKY Quality Meter, which ranges from 0 to 100, where 100 is a sky free of artificial sky glow.

A.2. Details for existing programs in those major cities.

Maintain a 100% detailed list regarding all the programs, campaigns, and other non-profit organizations in the major cities on which projects will be implemented; it should provide timelines for those programs.

PROJECT SCOPE

Scope of the Project:

1. Project Definition:

1.1. Specification Meeting

We began with group action and a team meeting will be called. The meetings will be scheduled over a period of time depending on the availability of the team. The team can discuss the research findings in the meeting and can provide their suggestions. The team members can also add new requirements or roadblocks that they think should be considered while working on the project. This may facilitate us in reducing the time needed to finish the project together with any issue or obstacles.

1.2. Research:

1.2.1. Identify Goal

We started with brainstorming or researching the requirements for the project. This includes the requirements for all the possible stakeholders. All the requirements were noted down before they

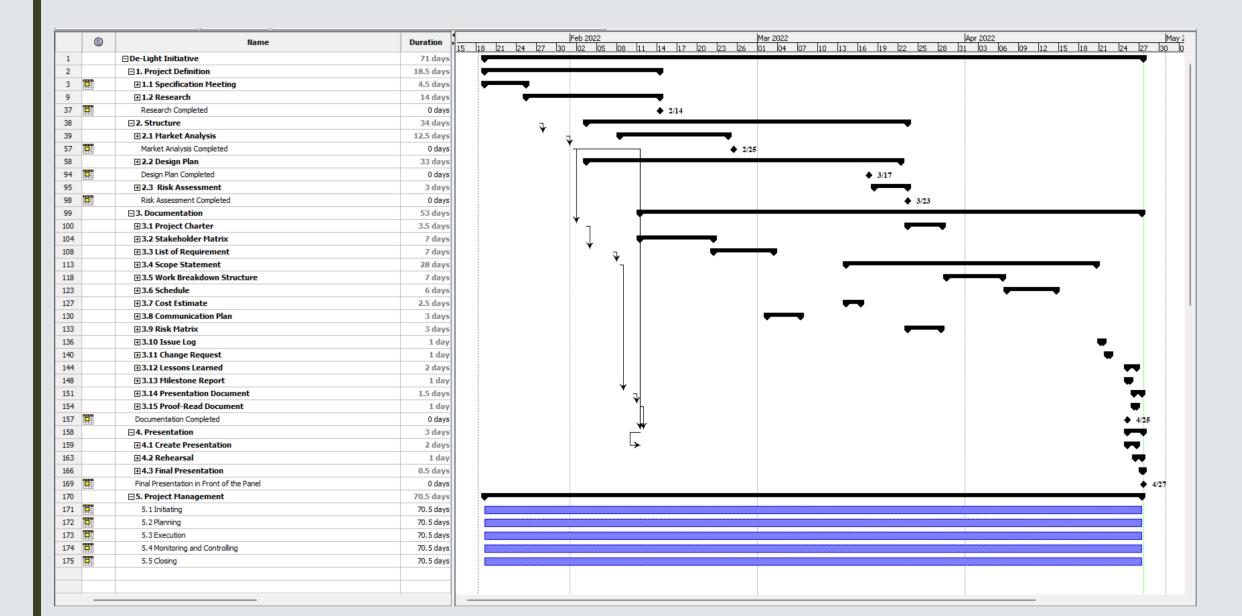
Project Assumptions:

- The project would be within budget.
- We would finish the project on time.
- We would secure at least 80% of the funding.
- We would receive at least 75% of grants and funds from multiple organized fundraisers.
- Our program would educate and make at least 50% of the NYC population aware about the impacts

Out of Scope:

- Creating light supplies that have CRI scale of 90 and above
- Providing healthcare assistance for light pollution related health effects.
- Expanding the target location beyond NYC.
- Compensation for volunteers on E-light supplies

6. SCHEDULE



Sr No.	WBS Item	# hours	# people	\$/h	Total Labor	Non-Labor	Total Cos
2.2.5.3	Fund Raiser	3	4	10	120	30	150
2.3	Risk Assessment	3	6	10	180	30	21
3	Documentation						
3.1	Project Charter	3	4	10	120	10	130
3.2	Stakeholder Matrix	4	6	10	240	40	28
3.3	List of Requirements	3	6	10	180	30	21
3.4	Scope Statement	8	2	10	160	20	18
3.5	Work Break Down Structure(WBS)	10	6	10	600	80	68
3.6	Schedule	8	2	10	160	20	18
3.7	Cost Estimate	3	5	10	150	0	150
3.8	Communication Plan	2	3	10	60	0	6
3.9	Risk Matrix	3	6	10	180	0	180
3.10	Issue Log	3	2	10	60	0	6
3.11	Change Request	3	2	10	60	10	7
3.12	Lessons Learned	3	6	10	180	30	21
3.13	Milestone Report	1	2	10	20	0	2
3.14	Presentation Document	1	6	10	60	10	7
3.15	Proof Read Documents	2	6	10	120	20	14
4	Presentation						
4.1	Create Presentation	3	2	10	60	0	6
4.2	Rehersal	2	6	10	120	30	15
4.3	Final Presentation	1	6	10	60	0	6
	Total Cost				4920	770	569

7. COST ESTIMATE

8. COMMUNICATION PLAN

Sr No.	Stakeholder	What	When	How	Who	Where
1	Darksky	Obtaining sky quality index from Darksky organization	Monthly During Market Research phase	Online/Email	Team Aces	Email, Zoom, Webex
		Details regarding eco-friendly lights, outdoor/indoor lights	Once During Survey phase	Online/Email	Team Aces	Email, Zoom, Webex
		Guidelines & Policies regarding Light Pollution	Once During Survey phase	Online/Email	Team Aces	Email, Zoom, Webex
2	Eco-friendly light suppliers	Discussing Potential Partnership	Monthly Post-Market Research phase	Online/Phone-call	Team Aces	Zoom, Webex, Office
		Contract Signing after getting funds	Once after Post-funding phase	In-person	Team Aces	Office
3	Professor	Status of the Project	Monthly from kick-off to closing	Online/In-person	Team Aces	Zoom, Email, Classroom
		Issues during project	Weekly till 22nd April 2022	Online/In-person	Team Aces	Zoom, Email, Classroom
		Feedback regarding project documentation	Bi-weekly till 27th April 2022	Online/In-person	Team Aces	Zoom, Email, Classroom
4	Public/Citizen	Interaction during survey	Daily During Public Survey phase	Online	Team Aces	Zoom, Email
		Awareness about Light Pollution and Eco-friendly light usage	Post-funding phase	Online/In-person	Team Aces	Zoom, Webex, Email, Campaign
5 Aı	Angel Investors	Presenting the Project Idea	On 27th April,2022	In-person/Online	Team Aces	Zoom, Classroom
3		Discussing Capital Investment	On 27th April,2022	In-person/Online	Team Aces	Zoom, Classroom
6	Competitiors	Survey feedback regarding Light Pollution and impacts	Once During Survey phase	Online	Team Aces	Zoom, Webex, Email
		Discussing future collaboration	Once during Design Plan	Online/In-person	Team Aces	Zoom, Webex, Office, Email
7	PETA (Animal Right Association)	Information on impacts of Light Pollution on Animals and Fishes	Once During Survey phase	Online	Team Aces	Zoom, Webex, Email
Q	NYC DOT (Department of Transportation)	Survey feedback regarding street light installation	Once During Survey phase	Online	Team Aces	Zoom, Webex, Email
8		Information about future outdoor e- lighting plans	Once During Market Research phase	Online	Team Aces	Zoom, Webex, Email

Risk List	Probability (1-5)	Impact (1-5)	Severity (P*I)	Action Plan	Contingency Plan	
Insufficient Research and Factual Data	2	4	8	Mitigate: Research thoroughly on the internet or contact the Government departments for legal documents.		
Poor Time Management	2	4	8	Mitigate: Establish clear goals and expectations with timelines	Re-design plan and schedule follow-up meetings	
Peer Competitors	3	4	12	Mitigate: Design & deliver the best project plan	 Collaborate with parent NGOs like Darksky Propose plan to other investors 	
Unanticipated requirement changes	2	3	6	Accept	Understand the requirement change, discuss among the team members to analyze the impact, then create a change request form that to be approved by the stakeholder	

9. RISK MATRIX

10. ISSUE LOG

Issue	How it could have been prevented?	How to address this issue?	
Cancelled planned meeting	Manage other work in regulation with planned	Hold virtual meeting whenever in-	
	meetings.	person meetings not feasible.	
		Reschedule meetings as per team's	
		availability.	
Scope creep	Work with stakeholders to clearly identify	Updating the stakeholders regularly in	
	requirements	regards with the progress of the	
	Set goals according to identified requirements	project	
Did not meet set Milestone deadlines	Frequent follow-up meetings	Discuss and review with the team and	
	Regular monitoring of deadlines by project	set realistic deadlines.	
	manager		
MS Project software configuration issue	Not applicable	Install alternate softwares such as	
		Project Libre	

11.ChangeRequest



Added Milestones in the Schedule.



Removed sub-levels from WBS.



Modify the Requirement matrix with code names.



Modify the Risk matrix probability and impact for identified issues.

Progress Group	Start Doing	Stop Doing	Continue Doing
Initiating	Establish roles and responsibilities within the project team.	Procrastination. Identify and filter stakeholders	Research with intent helps understand the process better.
	Conduct meetings on time. Brainstorm with team meetings to	ahead of the scope.	Respect everyone's opinions on the team.
	get better output. Set a target for each meeting.		Research and collaborate on tasks.
Planning	Set a realistic deadline for each task	Miss deadlines. Leave work incomplete	Regular team meetings to brainstorm ideas Follow-up about the progress with respective team members Create and set milestones
Executing	Assign team member responsibilities Maintain documentation for brainstormed activities	Expect to complete a document in one stretch Divide work unevenly	Follow WBS Keep stakeholders updated on progress Be mindful of change requests Proofread and verify content with the professor
Monitoring & Controlling	Ask for feedback from stakeholders	Operate outside the project scope	Regularly seek feedback from stakeholders
Closing	Verify that all requirements were met	Don't assume project completion	Officially closeout project with stakeholders

12. LESSONS LEARNED

- Support campaigns and marketing.
- Signing deals with the manufacturers and suppliers.
- Distribution of e-lights.
- Collaboration with Government Entities.
- Collaboration with competitors.
- Organizing Fundraisers

Future Scope:

THANK YOU!

Questions?

