

Designers Lighting Forum

Light Reach Network

A Solar Framework for Philanthropy in Lighting

Nathalie Rozot & Jenny Werbell

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Questions related to specific materials, methods, and services will be addressed at the conclusion of this presentation.

Light Reach Network: A Solar Framework for Philanthropy in Lighting

Learning Objectives

At the end of the this course, participants will be able to:

1. Understand what light poverty is and how and why its implications are relevant to lighting design.
2. Understand how humanitarian projects work: players, processes and products.
3. Understand design as activism in the lighting industry.
4. Understand what philanthropy, social engagement and corporate responsibility can look like in the lighting industry

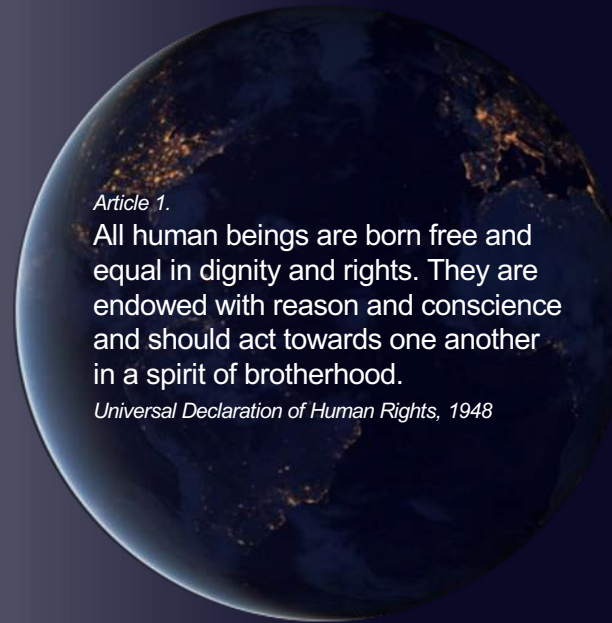
- **INTRODUCTION**
 1. **WHAT IS LIGHT POVERTY**
 2. **HUMANITARIAN DESIGN: PLAYERS, PRODUCTS & PROCESSES**
 3. **LIGHT REACH NETWORK: A SOLAR FRAMEWORK FOR PHILANTHROPY IN LIGHTING**
- **CONCLUSION**
- **Q&A**

2006 2007 2010 2011 2013 2015 2017 2018 2020 2021 2023

Co-evolution Cityscapes, Light
scapes
sce
PhoScope
Lighting Designers Without Borders
FROM THE RIGHT TO LIGHT TO THE RIGHT LIGHTS
LIGHT REACH network
Eklips @ Ayiti
WOMEN IN LIGHTING THE WIL AWARDS 2021
LIGHT FOR LEBANON
LUMEN 50 AWARDS 2018

- INTRODUCTION
- 1. WHAT IS LIGHT POVERTY**
- 2. HUMANITARIAN DESIGN: PLAYERS, PRODUCTS & PROCESSES**
- 3. LIGHT REACH NETWORK: A SOLAR FRAMEWORK FOR PHILANTHROPY IN LIGHTING**
- CONCLUSION
- Q&A

1. WHAT IS LIGHT POVERTY? Light is a right



Article 1.

All human beings are born free and equal in dignity and rights. They are endowed with reason and conscience and should act towards one another in a spirit of brotherhood.

Universal Declaration of Human Rights, 1948

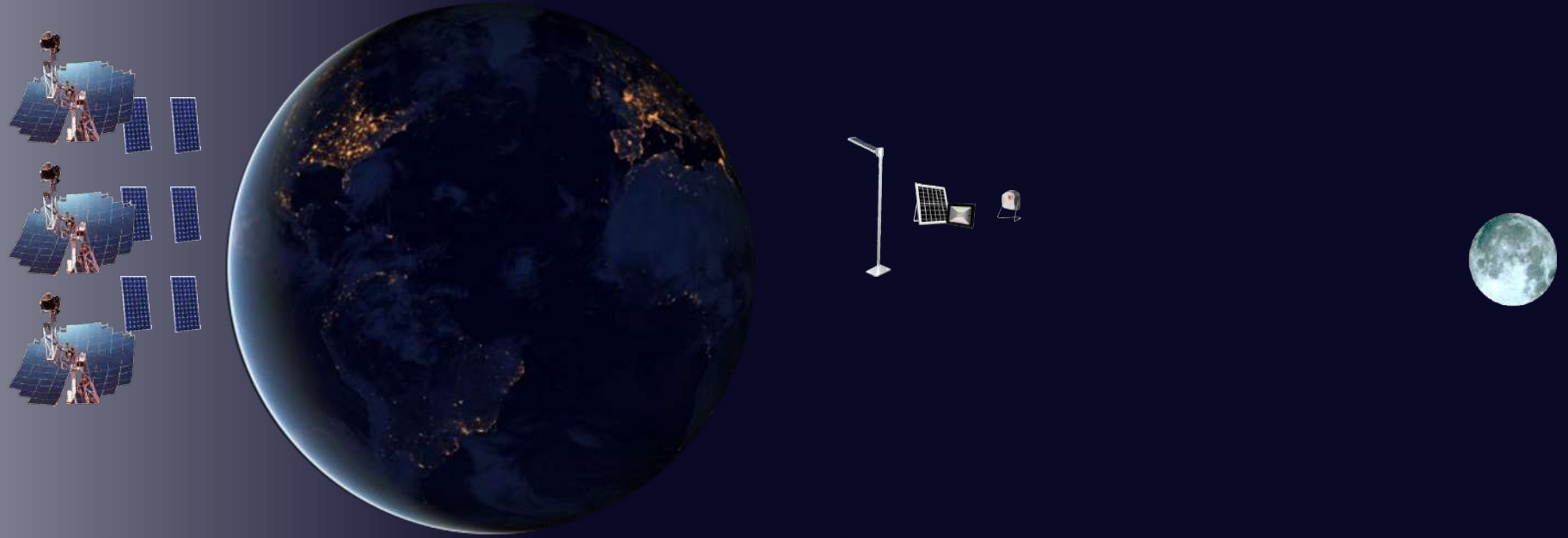


1. WHAT IS LIGHT POVERTY?

Lives in the dark matter



1. WHAT IS LIGHT POVERTY?
Light equity



electricity poverty

light equity

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2- HUMANITARIAN DESIGN: PLAYERS, PRODUCTS & PROCESSES

Due diligence

- **Lack of regulatory framework for private utilities:** Despite laws to the contrary, Haiti's Electricité d'Haiti (EDH) is often perceived as having exclusive legal authority to sell electricity. EarthSpark and other microgrid operators are in discussion with the Ministry of Public Works (MTPTC) and other stakeholders to clarify the framework. Our focus rests on a decree that gives municipalities the authority to provide electricity and/or delegate that authority to a third party.
- **Skilled linemen are not readily available:** EarthSpark contracted a Dominican company to install the distribution system. Our local grid technician has been trained for basic distribution system work, but for larger trouble shooting and work we are currently relying on the Dominican firm's linemen. This is not a feasible long-term solution, and s

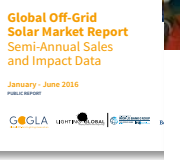
challenges such as job creation, energy access and urban mobility. Shell Foundation has partnered with several enterprises that are now delivering large-scale impact in countries across Africa, Asia and Latin America.

USAID is the lead U.S. government agency that works to end extreme global poverty and enable resilient, democratic societies to realize their potential. USAID extends help from the American people to achieve results for the poorest and most vulnerable around the world. Power Africa, a USAID initiative, works with African governments, the private sector, and other partners like the World Bank and African Development Bank to add more than 30,000 megawatts (MW) of cleaner, more efficient electricity generation capacity.

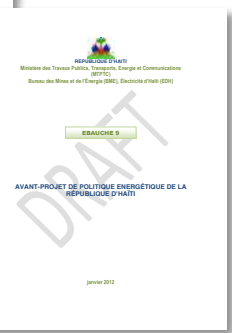


LIGHTING GLOBAL		AN INNOVATION OF WORLD BANK GROUP											
Catalyzing markets for modern off-grid energy		THE WORLD BANK IFC International Finance Corporation											
Product photo													
Product name	Blue 2 watt module	BlueStar 2021 Flood	Blue Star 2021 Flood	Blue Star 100	Lightbulb 100	Blue Star 100	Blue Star 100	Blue Star 100	Blue Star 100	Blue Star 100	Blue Star 100	Blue Star 100	Blue Star 100
Manufacturer	Light Reach (Haiti)	Light Reach (Haiti)	Light Reach (Haiti)	Light Reach (Haiti)	Light Reach (Haiti)	Light Reach (Haiti)	Light Reach (Haiti)	Light Reach (Haiti)	Light Reach (Haiti)	Light Reach (Haiti)	Light Reach (Haiti)	Light Reach (Haiti)	Light Reach (Haiti)
Internet address	www.lightreach.com	www.lightreach.com	www.lightreach.com	www.lightreach.com	www.lightreach.com	www.lightreach.com	www.lightreach.com	www.lightreach.com	www.lightreach.com	www.lightreach.com	www.lightreach.com	www.lightreach.com	www.lightreach.com
Weight (kg / lbs)	0.17 / 0.37	0.12 / 0.26	0.12 / 0.26	0.12 / 0.26	0.12 / 0.26	0.12 / 0.26	0.12 / 0.26	0.12 / 0.26	0.12 / 0.26	0.12 / 0.26	0.12 / 0.26	0.12 / 0.26	0.12 / 0.26
Light source	LED	LED	LED	LED	LED	LED	LED	LED	LED	LED	LED	LED	LED
Battery	None	None	None	None	None	None	None	None	None	None	None	None	None
Media	external	external	external	external	external	external	external	external	external	external	external	external	external
Additional utility	12 V input, battery charge port	12 V	12 V	12 V	12 V	12 V	12 V	12 V	12 V	12 V	12 V	12 V	12 V
Performance test													
Function	2	2	1	1	1	1	2	2	2	2	2	2	2
Mount orientation temp	4	2	1	1	1	1	2	1	4	4	2	4	2
Temp resistance	2	2	1	1	1	1	2	2	2	2	2	2	2
Electrical components	1	1	1	1	1	1	2	2	4	4	4	4	2
Switch components	1	1	1	1	1	1	1	1	1	1	1	1	1
Weather protection	4	4	2	2	2	2	4	4	4	4	4	4	4
Mount orientation media	1	1	1	1	1	1	1	1	1	1	1	1	1
Media resistance	1	1	1	1	1	1	1	1	1	1	1	1	1
Size tested	1	1	1	1	1	1	1	1	1	1	1	1	1
Performance evaluation	excellent	excellent	good	good	good	good	excellent	excellent	good	good	good	good	good
Notes													
Product photo													
Product name	Blue Star 100	Blue Star 100	Blue Star 100	Blue Star 100	Blue Star 100	Blue Star 100	Blue Star 100	Blue Star 100	Blue Star 100	Blue Star 100	Blue Star 100	Blue Star 100	Blue Star 100
Manufacturer	Light Reach (Haiti)	Light Reach (Haiti)	Light Reach (Haiti)	Light Reach (Haiti)	Light Reach (Haiti)	Light Reach (Haiti)	Light Reach (Haiti)	Light Reach (Haiti)	Light Reach (Haiti)	Light Reach (Haiti)	Light Reach (Haiti)	Light Reach (Haiti)	Light Reach (Haiti)
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Weight (kg / lbs)	0.12 / 0.26	0.12 / 0.26	0.12 / 0.26	0.12 / 0.26	0.12 / 0.26	0.12 / 0.26	0.12 / 0.26	0.12 / 0.26	0.12 / 0.26	0.12 / 0.26	0.12 / 0.26	0.12 / 0.26	0.12 / 0.26
Light source	LED	LED	LED	LED	LED	LED	LED	LED	LED	LED	LED	LED	LED
Battery	None	None	None	None	None	None	None	None	None	None	None	None	None
Media	external	external	external	external	external	external	external	external	external	external	external	external	external
Additional utility	12 V input, battery charge port	12 V	12 V	12 V	12 V	12 V	12 V	12 V	12 V	12 V	12 V	12 V	12 V
Performance test													
Function	2	2	1	1	1	1	2	2	2	2	2	2	2
Mount orientation temp	4	2	1	1	1	1	2	1	4	4	2	4	2
Temp resistance	2	2	1	1	1	1	2	2	2	2	2	2	2
Electrical components	1	1	1	1	1	1	2	2	4	4	4	4	2
Switch components	1	1	1	1	1	1	1	1	1	1	1	1	1
Weather protection	4	4	2	2	2	2	4	4	4	4	4	4	4
Mount orientation media	1	1	1	1	1	1	1	1	1	1	1	1	1
Media resistance	1	1	1	1	1	1	1	1	1	1	1	1	1
Size tested	1	1	1	1	1	1	1	1	1	1	1	1	1
Performance evaluation	excellent	excellent	good	good	good	good	excellent	excellent	good	good	good	good	good
Notes													

A kerosene lamp costs about 200 gourdes (\$5 USD) and then about 10 gourdes/evening (10 USD/evening) in kerosene. The NOKERO in comparison, therefore has a payback period of about 1 month! The battery of the NOKERO lightbulb will last 1-1.5 years before needed to be replaced (replacement cost: ~\$1), allowing the lightbulb to last for years. Moreover, the lightbulb is a much safer alternative to the kerosene lamp, as it does not produce fumes and lead to house fires which is a major issue of kerosene lamps.



What difference can a PicoPV system make? Early findings in small PicoSolar systems - an emerging best-practice energy technology for developing countries.



2- HUMANITARIAN DESIGN: PLAYERS, PRODUCTS & PROCESSES

Selecting, testing & adapting

iSSL +
All-in-One solar streetlight

6 months

iSSL Maxi Area
All-in-One solar streetlight

6 months

A2 Solar Lantern
Light range

PICO PLUS
A brighter study and task light with dual-charging

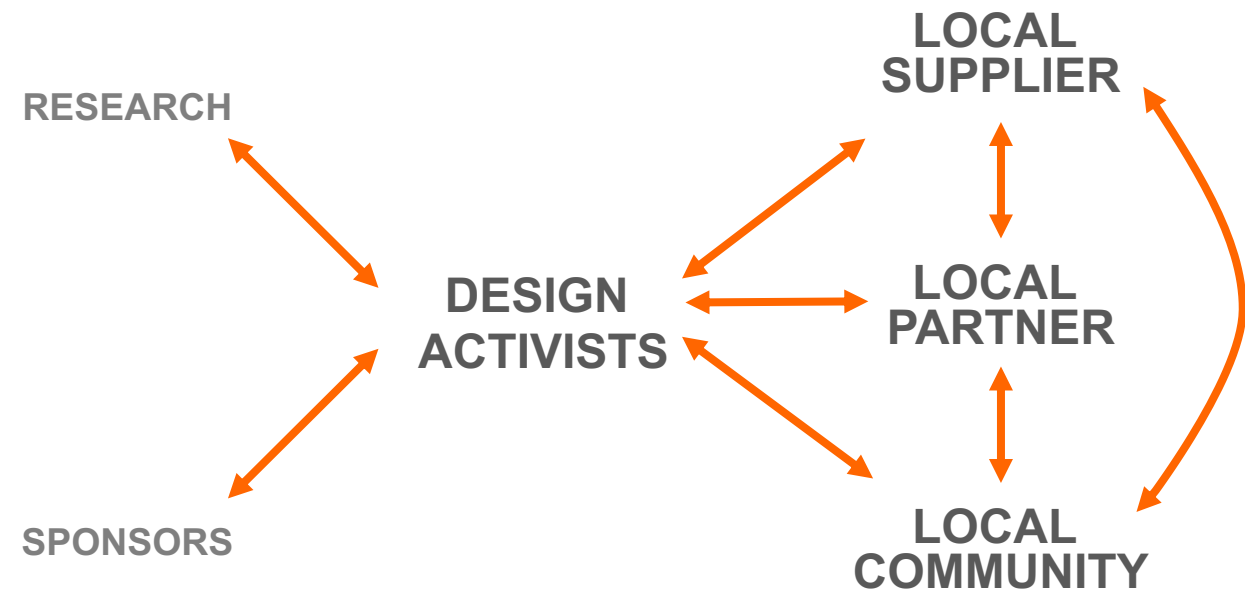
FEATURES

- 5X brighter than candles
- 72 hours of light on 1 day's charge
- 50 lumens of light
- Integrated solar panel
- 300mAh super capacitor
- 400mAh 3.3V battery
- 1.4AhWh (1000mAh) super capacitor
- USB for recharging



2- HUMANITARIAN DESIGN: PLAYERS, PRODUCTS & PROCESSES

Strategizing & structuring



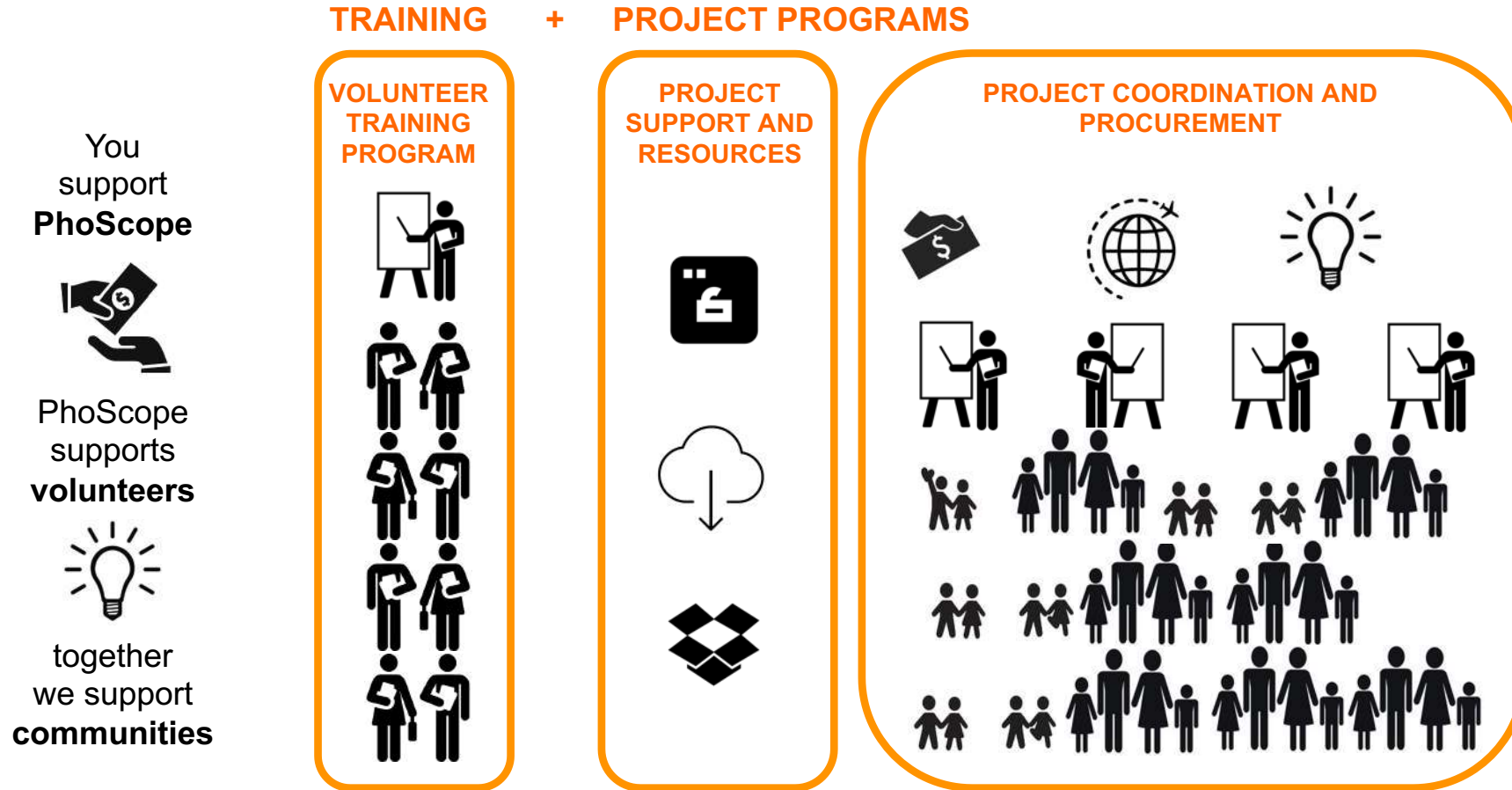
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What is Light Reach?



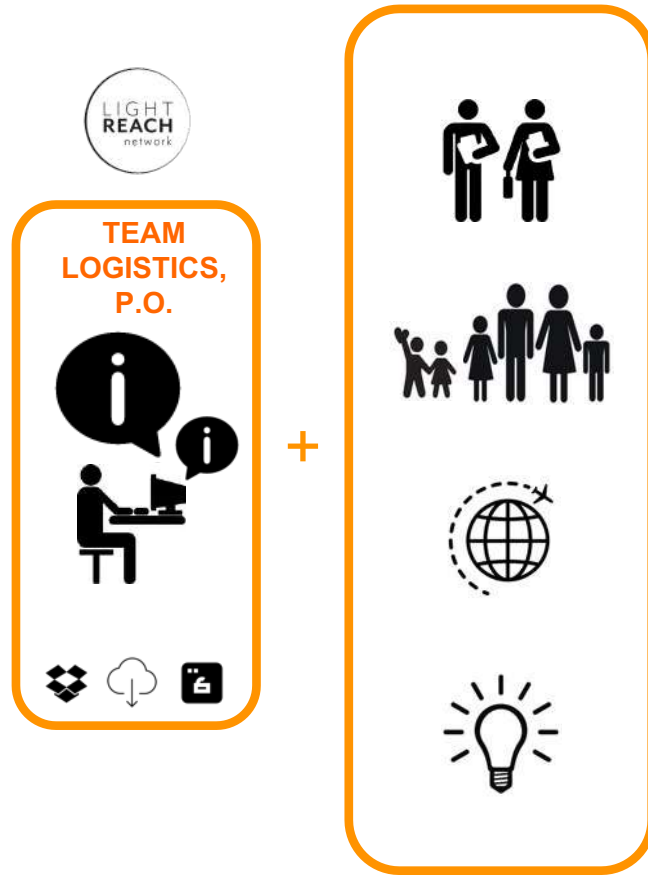
3 - LIGHT REACH NETWORK: A SOLAR FRAMEWORK FOR PHILANTHROPY IN LIGHTING

A system



3 - LIGHT REACH NETWORK: A SOLAR FRAMEWORK FOR PHILANTHROPY IN LIGHTING

A multi-project program template



PROGRAM _____ **PROJECT #** _____

PEOPLE

- 2 volunteers
- 1 community organization
- Community constituents

PROCESS

- 10 days over 3 months (~ 2-3 trips x ~3-5 days)
- 2+ educational and creative workshops with communities' kids + adults
- Participatory design, layout and installation with community

SOLAR LIGHTS

- ___ pole-mounted streetlights*
- ___ stationary lights*
- ___ portable lights*

* Note: quantities will vary per program



3 - LIGHT REACH NETWORK: A SOLAR FRAMEWORK FOR PHILANTHROPY IN LIGHTING

Volunteer training program

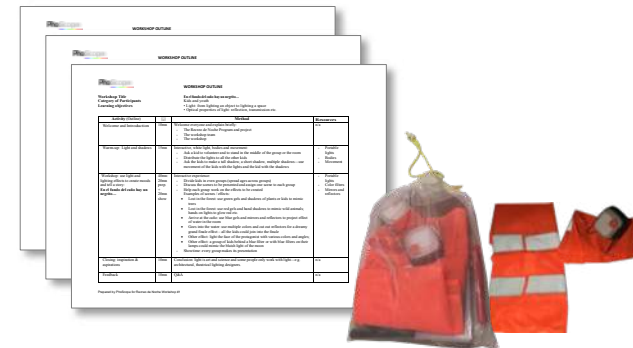


VOLUNTEER TRAINING PROGRAM



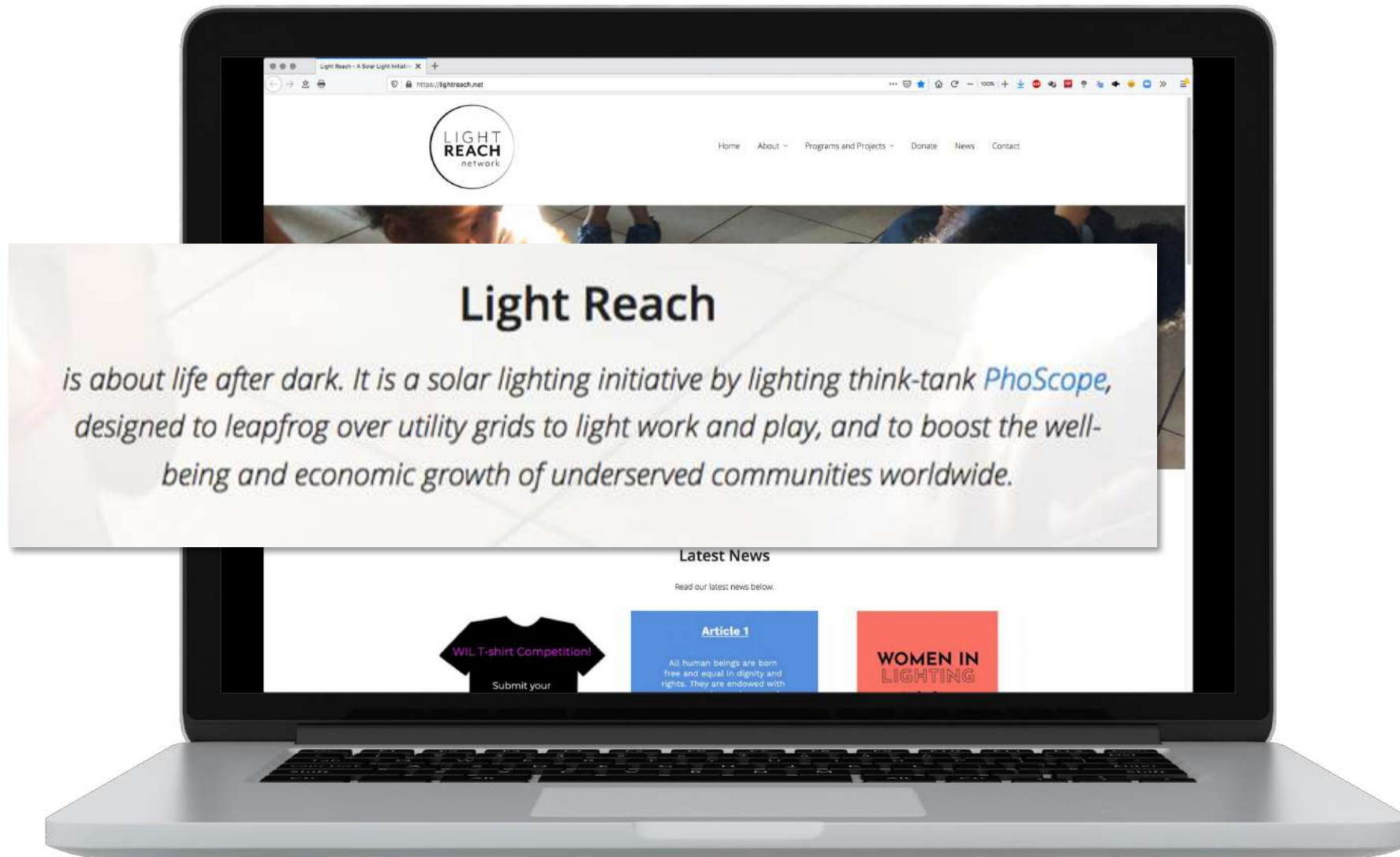
PHOSCOPE **EDUCATES** VOLUNTEERS IN JUST 2 SESSIONS:

- **Session 1:** PROJECT 1-2-3
- **Session 2:** LIGHTING WOKSHOPS 1-2-3
 - Project templates for each program
 - Handouts & guidelines
 - Workshop kits and outlines

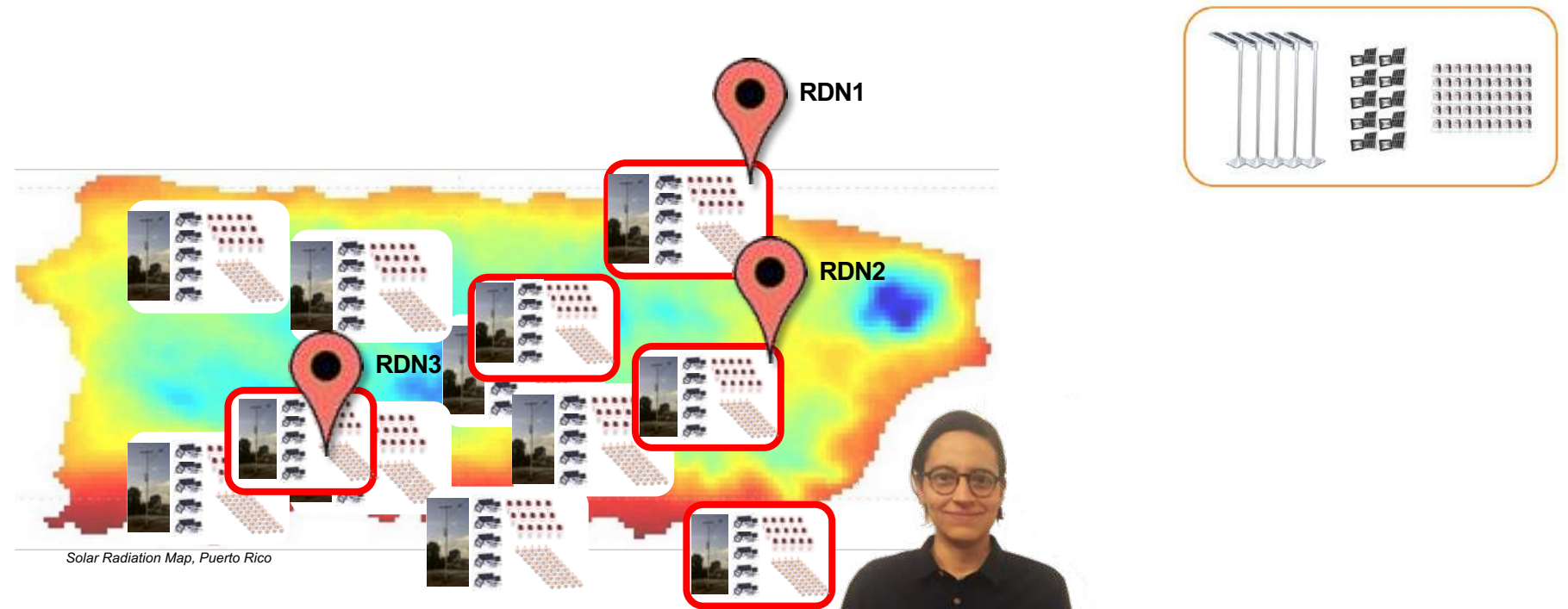


3 - LIGHT REACH NETWORK: A SOLAR FRAMEWORK FOR PHILANTHROPY IN LIGHTING

Social engagement at a global scale



3 - LIGHT REACH NETWORK: A SOLAR FRAMEWORK FOR PHILANTHROPY IN LIGHTING 2018 - : Recreo de Noche (RDN)



Solar Radiation Map, Puerto Rico



*Marien Velez,
Lighting designer,
Program Coordinator
for Recreo de Noche
(2018-9)*

3 LIGHT REACH NETWORK: A SOLAR FRAMEWORK FOR PHILANTHROPY IN LIGHTING

IMPACT Pilot Program

3 projects
6 volunteers
5 community workshops
137 donated solar fixtures



3 - LIGHT REACH NETWORK: A SOLAR FRAMEWORK FOR PHILANTHROPY IN LIGHTING 2020 - : Light For Lebanon (LFL)



*Manal Kahale,
Lighting Designer,
Partner for the
Light for Lebanon Program,
2020- present*

3 - LIGHT REACH NETWORK: A SOLAR FRAMEWORK FOR PHILANTHROPY IN LIGHTING

LFL0, LFL1, LFL3, LFL2, LFL4, LFL5, LFL6, LFL7, LFL8, LFL9, LFL10

EXPENSES	Quantity	Unit Cost	Cost	TOTAL
LIGHTING EQUIPMENT *				\$358,552
Portable lights	15,000	\$8	\$119,302	
Solar floodlights	1,500	\$80	\$119,250	
Solar Streetlights	150	\$800	\$119,999	
INSTALLATION COSTS **	1	10%	\$34,098	\$34,098
TOTAL LIGHTING AND ACCESSORIES				\$392,650
OPERATIONAL COSTS				
ADMINISTRATION FEE ***	1	10%	\$39,265	\$39,265
TEAM COMPENSATION ****				\$31,500
TOTAL OPERATIONAL COSTS				\$70,765
TOTAL EXPENSES				\$463,415
Contingency	1	3%	\$11,585	\$11,585
TOTAL PROGRAM				\$475,000

* Unit costs show average total costs based on several fixture types, and include optical and other accessories as well as shipping costs and customs and other fees

** Installation costs include mounting equipment and logistics

*** PhoScope administrates all of the program's accounts

**** Includes stipends for lead team and volunteers as well as fees and stipends for professional services

Light Reach Corporate Sponsorship Levels	DIAMOND \$250K 3 projects or more	STAR \$200K	PLATINUM \$100K 1 project	GOLD \$75K	SILVER \$50K	BRONZE \$25K	DONOR \$10K
ANNUAL BENEFITS							
Name on key communications	•	•	•	•	•	•	•
Logo displayed on Light Reach website	•	•	•	•	•	•	•
Logo displayed on all communications	•	•	•	•	•	•	•
Logo prominently displayed at public events	•	•	•	•	•	•	•
Logo included on social media posts and newsletters for program updates	•	•	•	•	•	•	•
Logo included in presentation materials	•	•	•	•	•	•	•
Prominent acknowledgement at public events	•	•	•	•	•	•	•
Opportunity to introduce public events	•	•	•	•	•	•	•
Exclusive opportunity to introduce public events	•	•	•	•	•	•	•
Individual acknowledgement on funded program dedicated social media post and newsletter	•	•	•	•	•	•	•

NOTES:
 - Benefits are for one full year after payment confirmation
 - Events include in-person and online
 - Social media platforms include Instagram, Facebook, LinkedIn (Reach: 2000 people)
 - Newsletter sent to Light Reach and Light for Lebanon lists (Reach: 2500 people)



Light Reach is a global multi-program solar lighting initiative by lighting think-tank PhoScope designed to leapfrog over utility grids to fight light poverty and use light to boost the social, cultural and economic well-being of underserved communities worldwide.

Light Reach Programs use a sustainable and educational project model to bring light for work and play for all ages, and share knowledge about light for practical and artistic applications indoors and outdoors.

Light is a right.
 Lives in the dark matter.
 Lighting is about life after dark.

@lightreachnet
<https://www.lightreach.net>
 info@lightreach.net



GROUND TEAM

Manal Kahale, Program Partner
 Elisabeth Boulos, Lawyer
 Volunteers

US TEAM

Light Reach Concept & Operations
 Nathalie Rozot, CEO, PhoScope
 Miina Matsuoka, CMO, PhoScope
 Jenny Werbel, Community Outreach

Fundraising Ambassadors

Tina Aghassian, US
 Maria Dsouza, UAE
 Courtney Mark, UAE
 Cherine Saroufim, UAE

LIGHT FOR LEBANON

@lightforleb

Why Light for Lebanon?

On August 4th, 2020 the largest non-nuclear explosion in history tore through Beirut and decimated entire neighborhoods, leaving over 250,000 residents in the dark.

Residents who cannot afford generators or oil have no light at home, and street conditions are unsafe.

What is Light for Lebanon?

In September 2020 Light Reach and Lebanese activist and lighting designer Manal Kahale partnered to launch the new program Light For Lebanon and bring solar-powered lighting to Beirut's homes and public spaces.

Latest News

CURRENT Covid19 Status: OPEN
 PAST Covid status: Full lockdown: 30 days
 Curfew: 85 days



Our team of volunteers first met with residents to assess their needs and surveying the night conditions. We also promptly partnered with several NGOs, including Beit el Baraka, Live Love Beirut, Al Chafaka and Nusaned, and we continue to meet new stakeholders on the ground to locate the people who need light.

After providing solar lights to heroic firefighters at Tarik el Jdidieh fire station of the Beirut Fire Brigade, we proceeded to use Ouarantina as a pilot area.

We have now successfully distributed thousands of portable lights to families and installed hundreds of security lights for building access, and we installed ten streetlights on Salah Labaki street with Live Love Beirut. We also completed an installation for the mobile playground "Participlay" prototype with Nusaned, and a temporary installation for a cultural event by Temporary Art Platform. We gave lights to the Dar Al Awlad Orphanage, and we are in the process of planning several urban and landscape lighting projects for the next few months in coordination as well as more product distribution with our partner NGOs. We are now raising funds for Phases 2 and 3.

Phase 1 GOAL: \$100,000
 Phase 2 GOAL: \$150,000
 Phase 3 GOAL: \$225,000
PROGRAM GOAL: \$475,000

June 1 2022

Funds raised: \$115,884
 Funds needed: \$250,000

We have now purchased
 solar lanterns 3,250
 solar floodlights 391
 solar streetlights 47
that will bring light to:
 families 2,500
 buildings 300
 streets 5
 parks 1
 playgrounds 1
 orphanages 1
 schools (pending)

Our Program Partners



Our Sponsors & Donors



Light Reach Network is a global charitable initiative created and operated by PhoScope, a 501(c)(3) not-for-profit organization registered in New York State. PhoScope 111 E 141st St - UPS 187 New York NY 10003 USA

3 - LIGHT REACH NETWORK: A SOLAR FRAMEWORK FOR PHILANTHROPY IN LIGHTING



- 1
Christmas boxes
 • Distribution
- 2
Gemayzeh
 • Distribution
- 3
Salah Labaki Road
 • Installation
- 4
Mar Mikhael
 • Distribution
- 5
Quarantina
 • Distribution
 • Installation
- 6
Fire Department
 • Distribution
 • Installation
- 7
Geitawi
 • Distribution
- 8
Laziza Park
 • Installation
- 9
Karm El Zeitoun
 • Distribution
 • Installation
- 10
Mobile Playground
 • Installation
- 11
Bourj Hammoud
 • Distribution
- 12
Beirut River
 • Installation
- 13
Ghulam Historic Building
 • Installation
- 14
Jesuite Community Park
 • Installation
- A
**BEYOND BEIRUT
Dar Al Awlad**
 • Distribution
 • Installation
- B
Forsa Schools (113)
 • Distribution
 • Installation



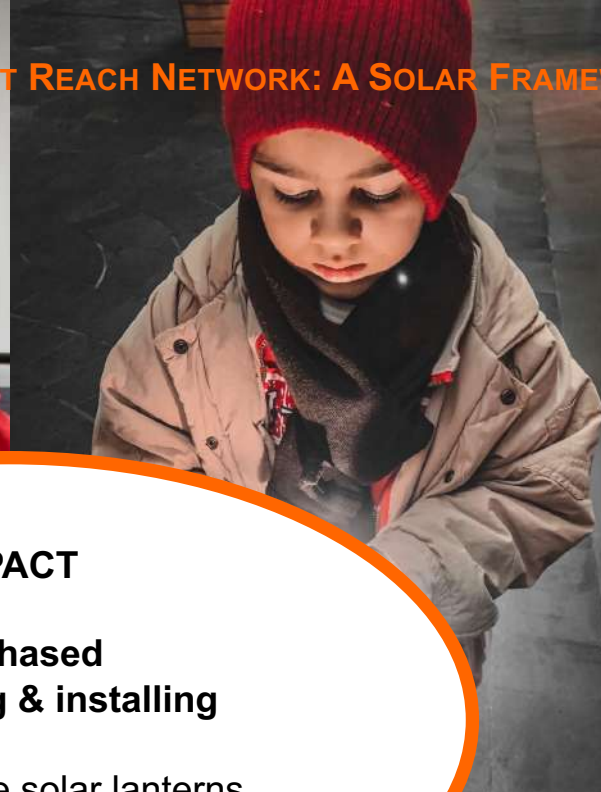
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3 - LIGHT REACH NETWORK: A SOLAR FRAMEWORK FOR PHILANTHROPY IN LIGHTING



• LFL



IMPACT

**Purchased
Distributing & installing**

**3,250 portable solar lanterns
391 solar floodlights
47 solar streetlights**

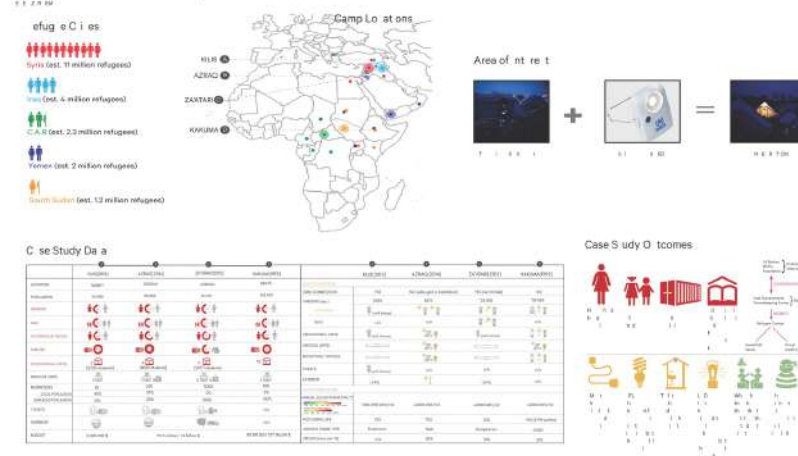


3 - LIGHT REACH NETWORK: A SOLAR FRAMEWORK FOR PHILANTHROPY IN LIGHTING

Next steps: new PROGRAMS?



IMPROVING LIGHT | IMPROVING LIFE IN REFUGEE CAMPS



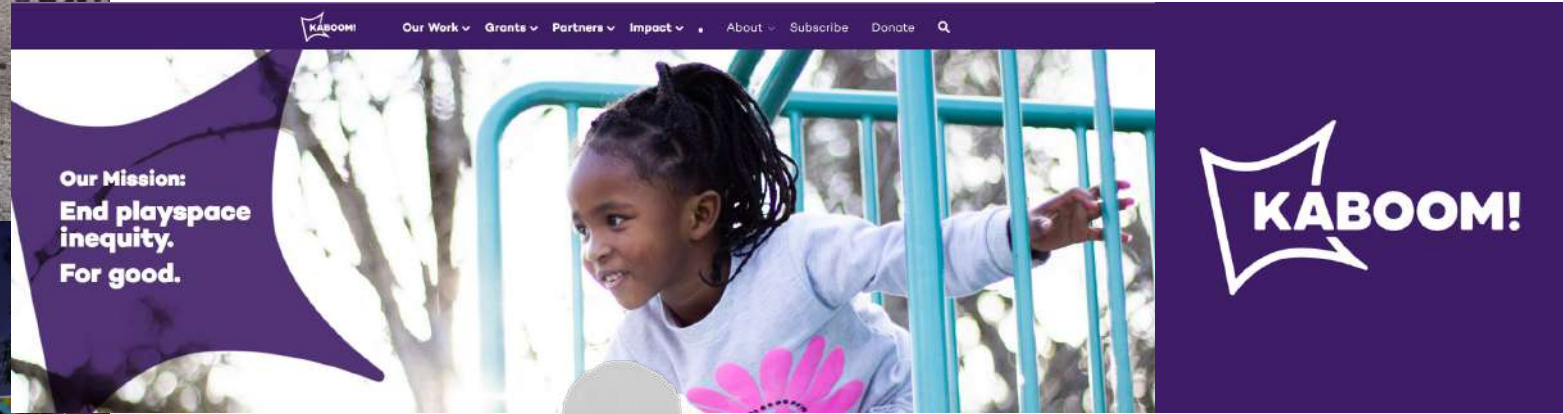
Ishtar is a 27 year old Syrian refugee who spent three years in Jordan's Camp Za'atari with her parents. She came to the United States in 2016.



Ece Ozerdem, Lighting Designer, Light for Turkey?

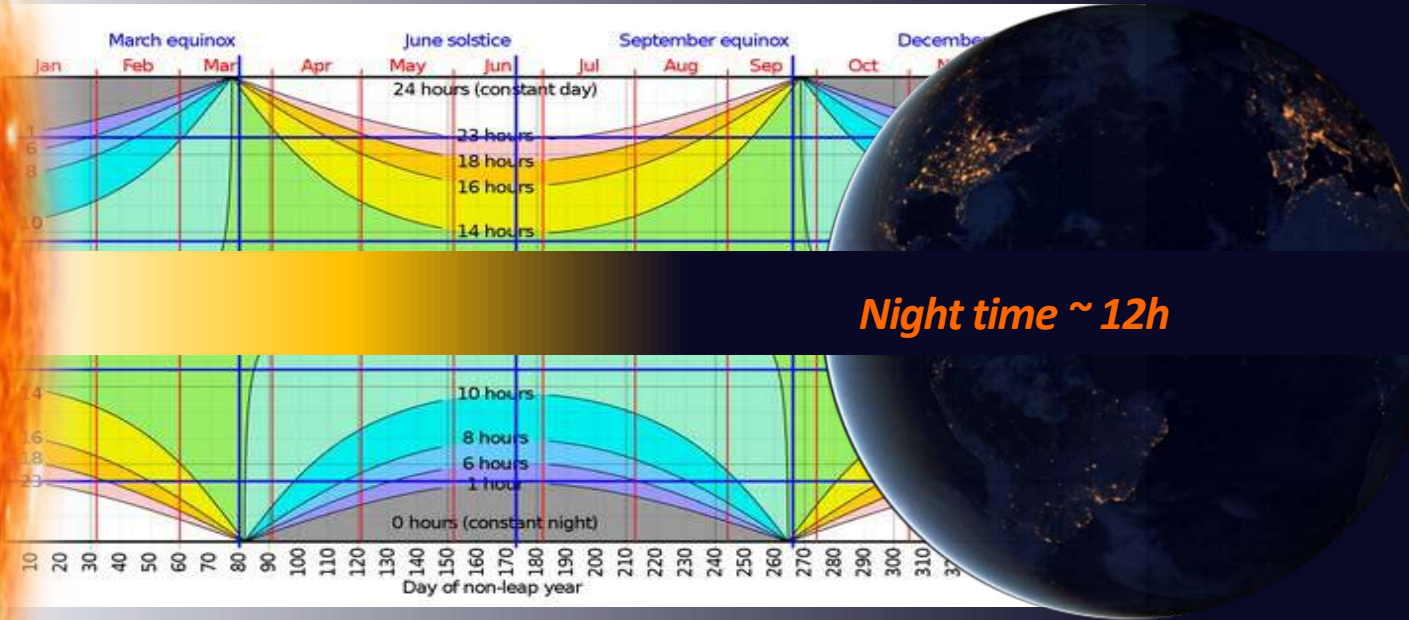
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Next steps: new PROGRAMS?



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Next steps: new PROGRAMS?

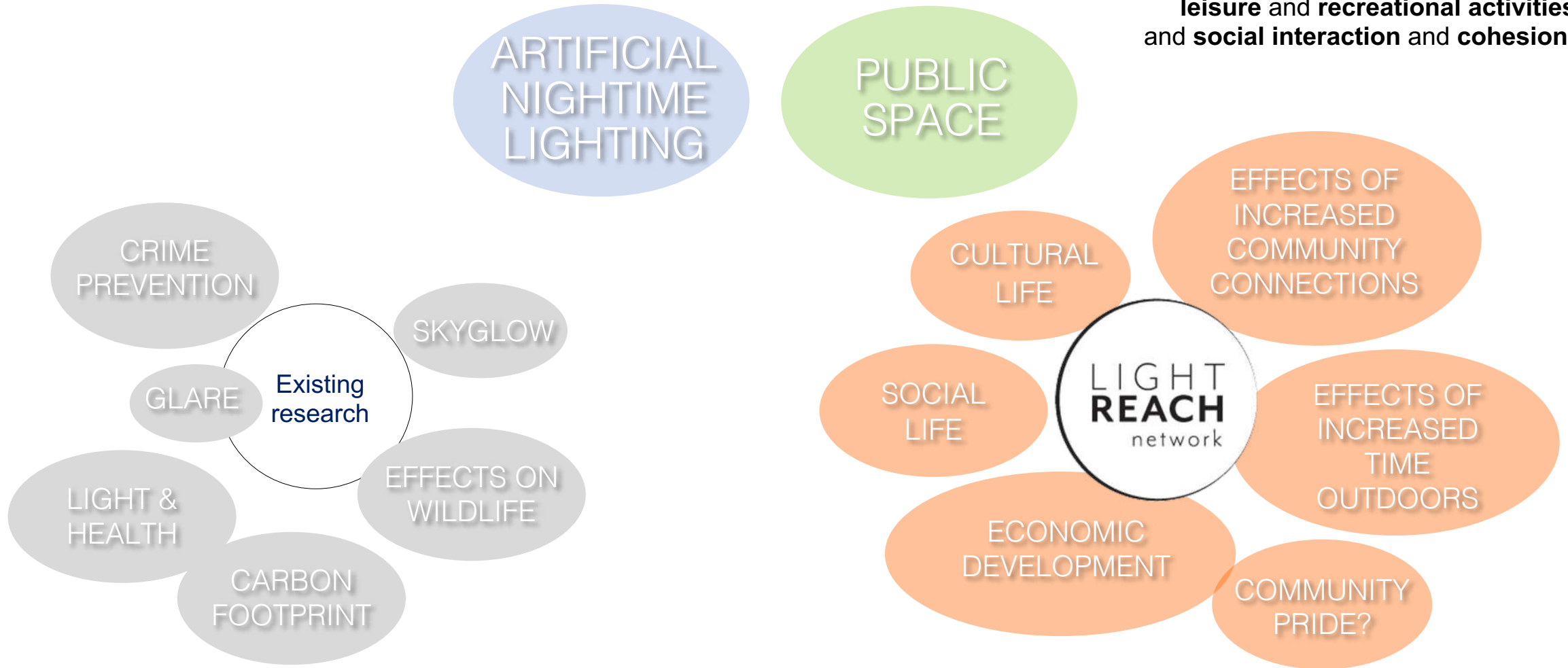


Night time ~ 12h



Next Steps: RESEARCH?

“(Artificial **nighttime lighting**) doubtless has **profound benefits** for human **wellbeing** in increasing **opportunities** for **economically productive activity**, **leisure** and **recreational activities**, and **social interaction** and **cohesion**.”





3 - LIGHT REACH NETWORK: A SOLAR FRAMEWORK FOR PHILANTHROPY IN LIGHTING

Next Steps: RESEARCH?

HOW DOES

LIGHTING

PUBLIC

SPACE

BENEFIT

COMMUNITIES?

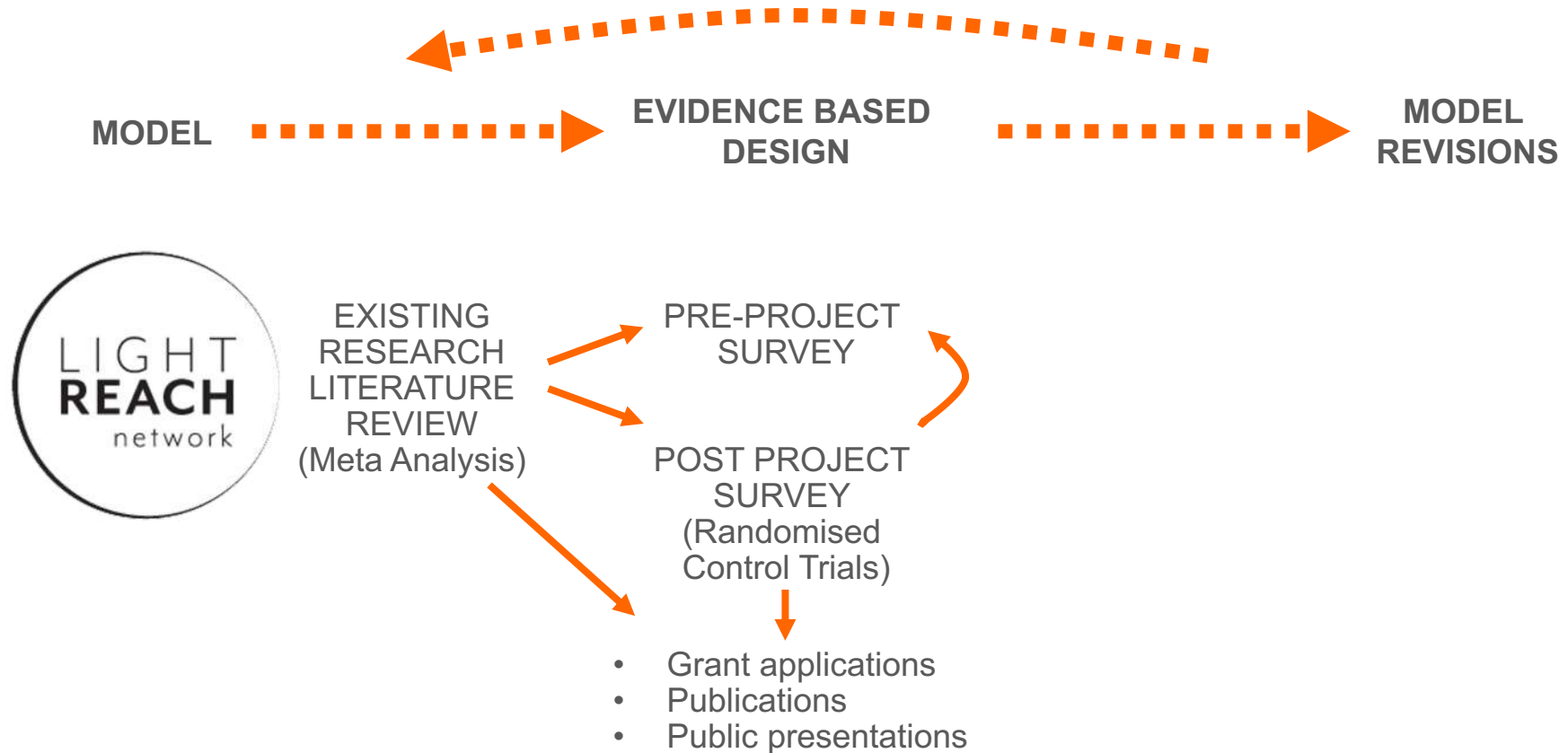
- Artistic** expression
- Capacity Building
- Civic Participation
- Community **Engagement**
- Community **Resilience**
- Cultural** Activities
- Displacement Prevention
- Economic **Opportunities**
- Entrepreneurism
- Mental **Health**
- Physical Health
- Physical** Activities
- Place Making**
- Play**
- Pride**
- Social Justice**
- Social** Life
- Solar Technologies
- STEM** Education
- Sustainable** Practices
- Well-being

Next Steps: RESEARCH?

“...However, whilst commonly asserted, robust empirical evidence demonstrating that this is actually the case, and under what circumstances, is largely wanting (Jakle 2001; Mills 2005; Koslofsky 2011)

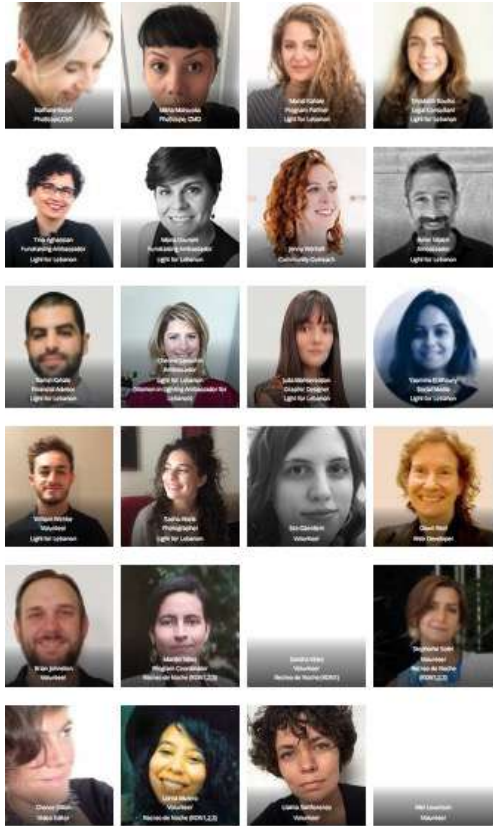
Clear opportunities to address this knowledge gap exist with ongoing schemes to introduce artificial nighttime lighting to communities in the developing world that have previously lacked such infrastructure”

Gaston, K., Gaston, S., Bennie, J., Hopkins, J. 2015. Benefits and costs of artificial nighttime lighting of the environment. Environmental Reviews 23(1):14-23. DOI:10.1139/er-2014-0041

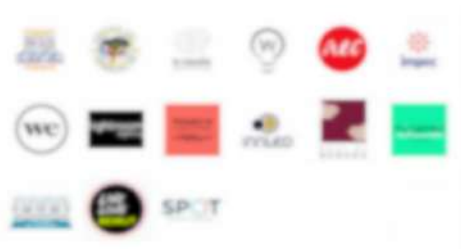


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Light Reach Network, a global team effort



Volunteers do the work,
partners facilitate it,



and funders make it possible.



How can you support?

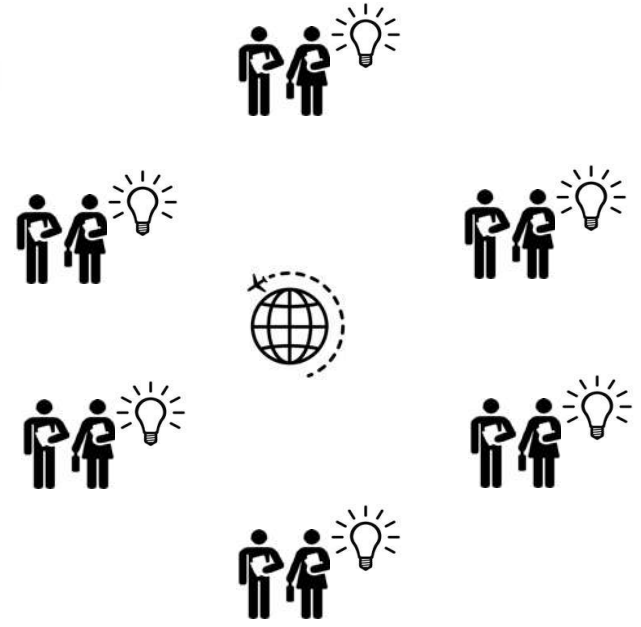
- Architecture for Humanity
- Architectural Outreach
- Architects Sans Frontiers (ASF)
- Build Abroad
- Builders Without Borders
- buildOn
- Building Trust International
- Caribbean Volunteer Expedition
- Design Corps
- Design that Matters
- Engineering For Change
- Engineering Good
- Engineers Without Borders
- Green Life Volunteer
- Fair Planet
- Grid Alternatives Habitat for Humanity
- Habitat for Humanity International
- Impact Design Hub
- Indigo Volunteers
- Inhabitat
- Long Way Home
- Moving Worlds
- Open Architecture Collaborations
- Public Architecture 1% Solutions
- Rebuilding Together
- Red Feather Development Group
- Renewable Energy Alliance
- Shelter For Life International
- Shelter Global
- Volunteer Forever

1,684 lighting design practices
~ 5,000 lighting suppliers



We need to

- scale-up social engagement in lighting
- procure light to those who need it
- empower by sharing knowledge of the art and science of light



How can you support?

IN-KIND CONTRIBUTIONS



Direct

- Participate in an existing project
- Propose, launch & lead a new program

If you are a PERSON

- a student
- an EP
- an employee
- in a design firm, a manufacturing company, a sales agency



Indirect



- Research
- Other professional services:
 - Marketing
 - Social media
 - Photography
 - Videography
 - Graphic design
 - Web design

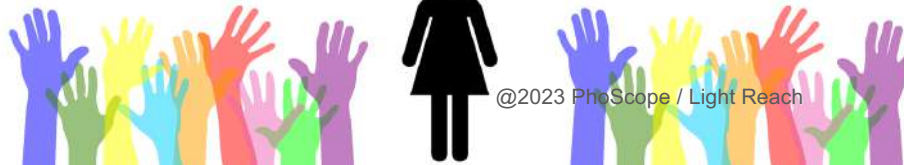
CASH CONTRIBUTIONS

Direct

- Donate \$ <https://lightreach.net/donate/>
- Non cash assets info@lightreach.net
 - Donor Funds (e.g. Fidelity, Schwab)
 - Legacy planning (bequests)
 - Miles

Indirect

- Fundraise, organize or host a fundraiser
- Become a fundraising ambassador
- Promote
 - Social network
 - Professional network
 - Personal network
- Ask for donations in lieu of gifts (e.g. birthday)
- ASK YOUR COMPANY TO HELP:
 - Inquire about their CSR
 - Ask them to sponsor
 - Ask them for matching grants etc.



How can you support?

IN-KIND CONTRIBUTIONS

Direct

- Adopt Social Corporate policies

Indirect

- Promote your support
 - Social network
 - Professional events

If you are a COMPANY

- a design firm
- a manufacturing company
- a sales agency
- a distributor



CASH CONTRIBUTIONS

Direct

- Become a sponsor <https://lightreach.net/donate/>
- Give non cash assets info@lightreach.net
 - Donor Funds (e.g. Fidelity, Schwab)
 - Legacy planning (bequests)
 - Miles
- Make donations in lieu of gifts (e.g. holiday baskets)
- Dedicate % of your sales or revenue
- Match your employee donations

Indirect

- Fundraise, organize or host a fundraiser
- Sponsor employees who volunteer
- Ask for donations in lieu of gifts (e.g. holiday baskets)



CONCLUSION

Light Reach Network, a growing initiative



LIGHT
REACH
network

This concludes The American Institute of Architects Continuing
Education Systems Course



SPONSORS

GOLD



SILVER



BRONZE



LIGHT REACH NETWORK
A SOLAR FRAMEWORK FOR PHILANTHROPY IN LIGHTING

Thank you!

DONORS



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