



#### CLEARWORLD MRETROFLEX® : THE ON-GRID, OFF-GRID, SOLAR LED SOLUTION Optimal Design and Patented Retro-fit

All areas have an abundance of sunlight; solar lights are the best option to illuminate the streets, garden, parks and other public spaces.

Reduced dependence on conventional energy and less reliance on the national grid

Long-lasting and good-looking with CLEARWORLD'S sleek maintenance-free outer-casing design

Well-suited for commercial as well as domestic lighting applications

These lights do not pose any threat of accidents like live wires, electrocution, strangulation, and overheating

Flood and hurricane resistant

Tamper resistant

Dark sky compliant

Eliminate carbon footprint and contribute to a greener future



#### Components

LED Diode (Many Styles/ Lumens to choose from)

Nano Printed Lithium Battery, Longest lasting, smallest, and most heat and cold resilient technology available.

Patented Wrap around solar panel and design

Single or Dual LED head

Pole and pedestal heights available from 13'-30'

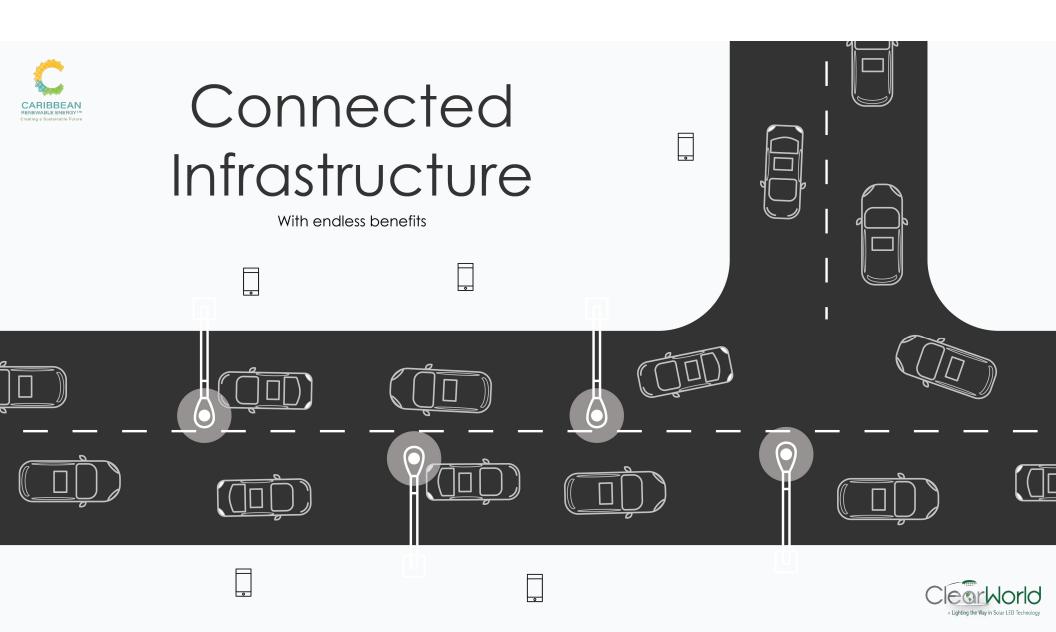


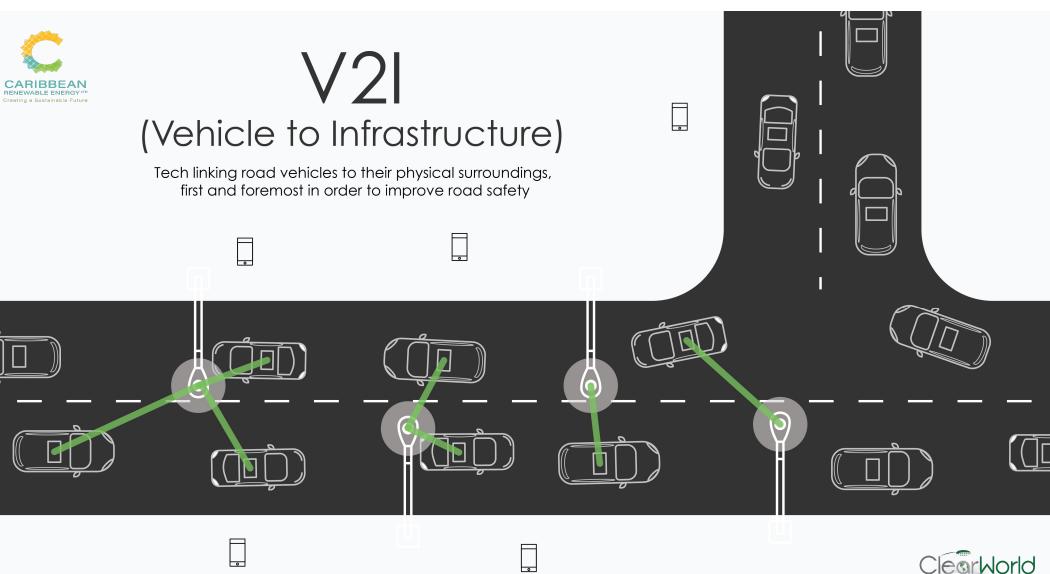
# GPS & 5G

#### IOT Enabled Streetlights as a Network Infrastructure

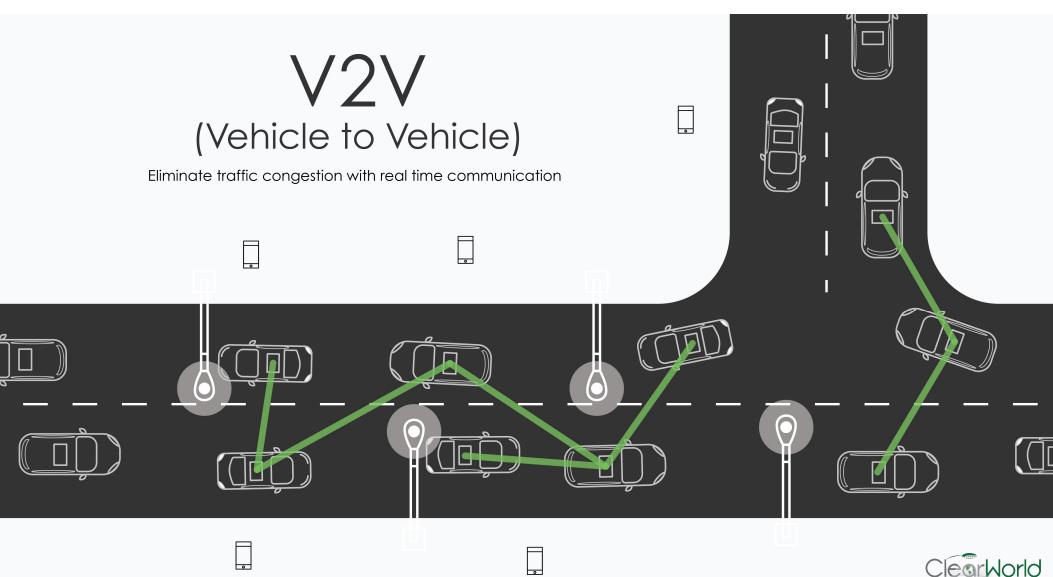
Municipal assets have value to network operators



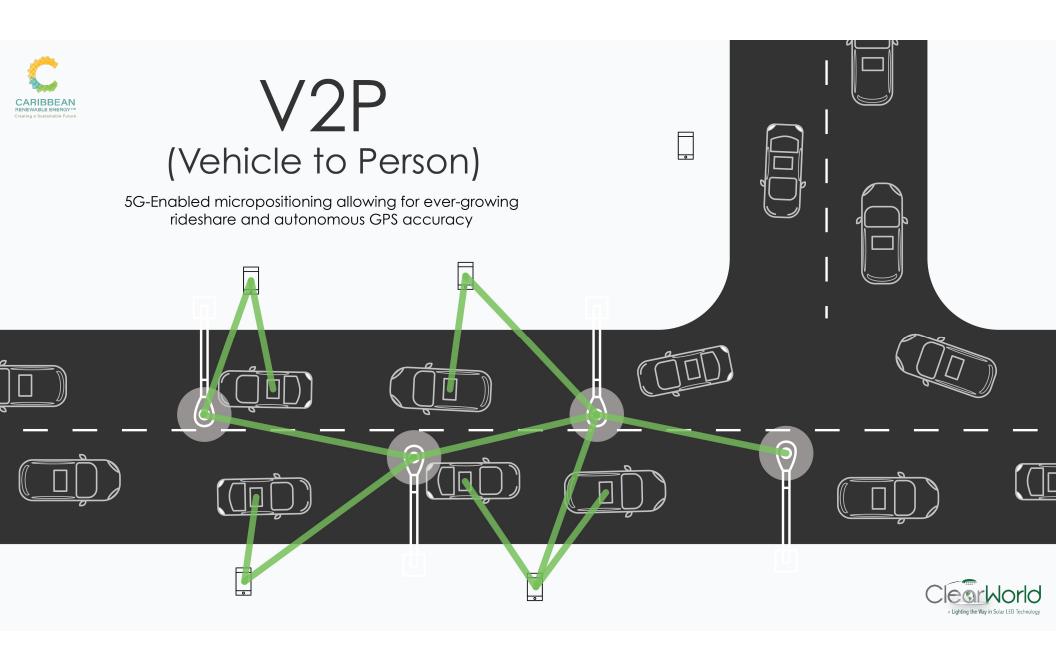




Lighting the Way in Solar LED Technology



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#### **Gun Shot Detection and Threat Analysis**

Discrete gun shot detection can minimize threat levels, protecting public and private assets

Flexible, scalable video analytics application for perimeter surveillance and protection

#### Pedestrian & Vehicle Counting Analytics – For Secure Operations

Automatic object detection and tracking False Alarm Filtering Efficient Live Monitoring Free easy-to-configure application, installable on fixed network camera and video encoders with support for Camera Application Platform

## STORAGE

Taking Advantage of the Hollow Streetlight Real Estate Remand response, load shifting, and reak shaving: at your fingertips

5G



## Rechargeable Lithium Ion Battery Pack Whether a Utility, Municipality, or even a Private Business, Be in Control of Your Demand STORE ENERGY FOR LATER USE Peak Demand Goal Battery Discharge Battery Charge Energy Usage

### Connecting Smart Energy to the Grid

With IOT enabled energy storage taking advantage of the unused hollow real estate inside our patented streetlights, you can take control of your energy

Our software tells the street light when to store the grid's off-peak energy and when to allocate power to the various loads that you would like to offset attached to your meter or the distributed grid infrastructure

Measure, analyze, and control through our secure cloud-based IOT connecting your smart energy to the grid through our OpenADR Alliance\* approved platform

\*OpenADR approval allows us to physically and legally talk through, and to, the utility's servers, for utility and municipality owned assets

"The <u>OpenADR Alliance</u> was formed in 2010 by industry stakeholders to build on the foundation of technical activities to support the development, testing, and deployment of commercial OpenADR and facilitates its acceleration and widespread adoption. This approach needs to engage service providers (such as electric utilities and systems operators) within the domain of the Smart Grid that publishes OpenADR signals, as well as the facilitates to participate in automated DR, DER management, dynamic pricing, and electricity grid reliability."





