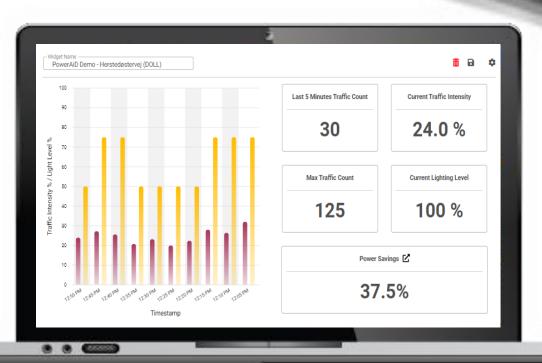
# DATA DRIVEN DYNAMIC DIMMING -as a Service



# PowerAiD<sup>TM</sup> For Smart Streetlights



Patent pending PowerAiD™
revolutionizes street lighting by
dynamically dimming based
on live traffic data, optimizing energy
savings while ensuring traffic safety.
Depending on location, traffic data
from one sensor can represent 50-200
streetlights.



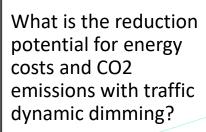
# Make your Smart Streetlights "Traffic Smart"?



Are your streetlights dimmed, when there is less traffic on the road?



When you dim your streetlights, how can you be sure that Lighting Levels are according to standards/guidelines?



Do you have a plan for more and better traffic data collection?

# PowerAiD<sup>TM</sup> – Quick Intro

#### What is it?

PowerAiD<sup>™</sup> is a service offering that provide dynamic/adaptive dimming capability to your smart streetlight network based on live traffic data.

#### Why is this cool?

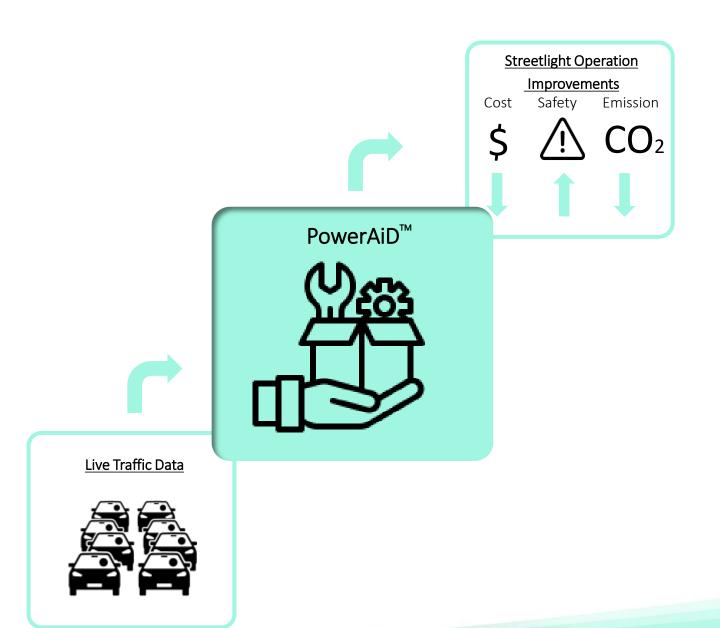
PowerAiD<sup>™</sup> create the optimal operational balance between energy reduction and traffic safety for LED Streetlights equipped with smart controls. In short, PowerAiD<sup>™</sup> makes it safe to save energy.

#### How is it working?

With PowerAiD™, live anonymous traffic data is constantly collected at strategic locations on the road network using Computer Vision Ai sensors. The collected traffic data is processed and applied to standards based or custom defined dimming schemes that correlate Traffic Intensity Levels with required Lighting Levels.

#### Where can I use it?

HIVE+ Traffic Sensors are installed in streetlight poles along large artery/main roads or intersections, where streetlight energy usage is high and traffic safety is essential. The dimming outputs are applied to relevant groups of streetlights. Depending on location, traffic data from one sensor can represent 50-200 streetlights.





A network of HIVE Traffic Sensors are installed in streetlight poles at strategic locations to provide live relevant traffic flow data on major artery roads and areas. Typically, one traffic sensor location, will represent 75-200 lighting points also known as a group Dimming Commands

**Felicity Connect/PowerAiD** 



The relative traffic intensity is constantly monitored live in Felicity Connect. When predefined traffic intensity thresholds are crossed, a predefined corresponding dimming level command is generated and sent to the Smart Lighting platform for the assigned group of streetlights.

Command Execution and Result Monitoring

**Your Smart City/Lighting Platform** 



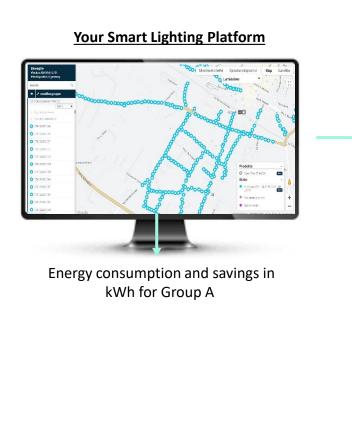
The received dimming up/down instructions are executed as they arrive from PowerAiD for the assigned streetlight groups.

The streetlight groups will now be dimmed up when there is traffic, and dimmed down when there is less traffic.



## PowerAiD<sup>™</sup> − Data flow

#### **Felicity Connect: PowerAiD Widget Hive Traffic Sensor** 30 **EFELICITY** 125 Power Savings 🗹 37.5% 1 car passed just now 1 car passed just now Assign streetlights: "Group A" 1 bus passed just now 1 truck passed just now 65 cars passed in the last 10 minutes 65 cars/10m is 45% of the Traffic Intensity Max



Groups, Dim Status

Set lighting level

for Group A to 75%

24.0 %

100 %

For traffic intensity < 50%, dim lighting for Group A by one Lighting Class (Ex: 25%)



"Group A" Streetlights



### PowerAiD<sup>TM</sup> benefits for you



(click on web formular)

We will reply with an estimation for your potential savings

