Discover the power of POWERAID™

MADE IN
DENMARK

FELICITY
DRIVING SAFER ROADS

POWERAID™ is the future of street lighting; driving a smarter, safer and more sustainable tomorrow for all of us.

The power of Ai technology

POWERAID™ is a responsive, dynamic street lighting application. Using our unique, patented software,* it monitors real-time traffic data to determine where and when you can safely adjust street light luminosity levels to reduce energy consumption, lower carbon emissions and decrease power costs across your road network. It's Ai technology at its very best.

*Patent currently pending.

The power of innovation

Drive a future with less power consumption and lower CO_2 emissions.

Estimated power reduction when upgrading from HPS to LED streetlights.

50%

Estimated power reduction when upgrading existing network with LCU.

10%

Estimated power reduction when upgrading existing network to POWERAID™ controlled streetlights.

20%

Not all streetlights need to be operating at 100% luminosity all of the time.
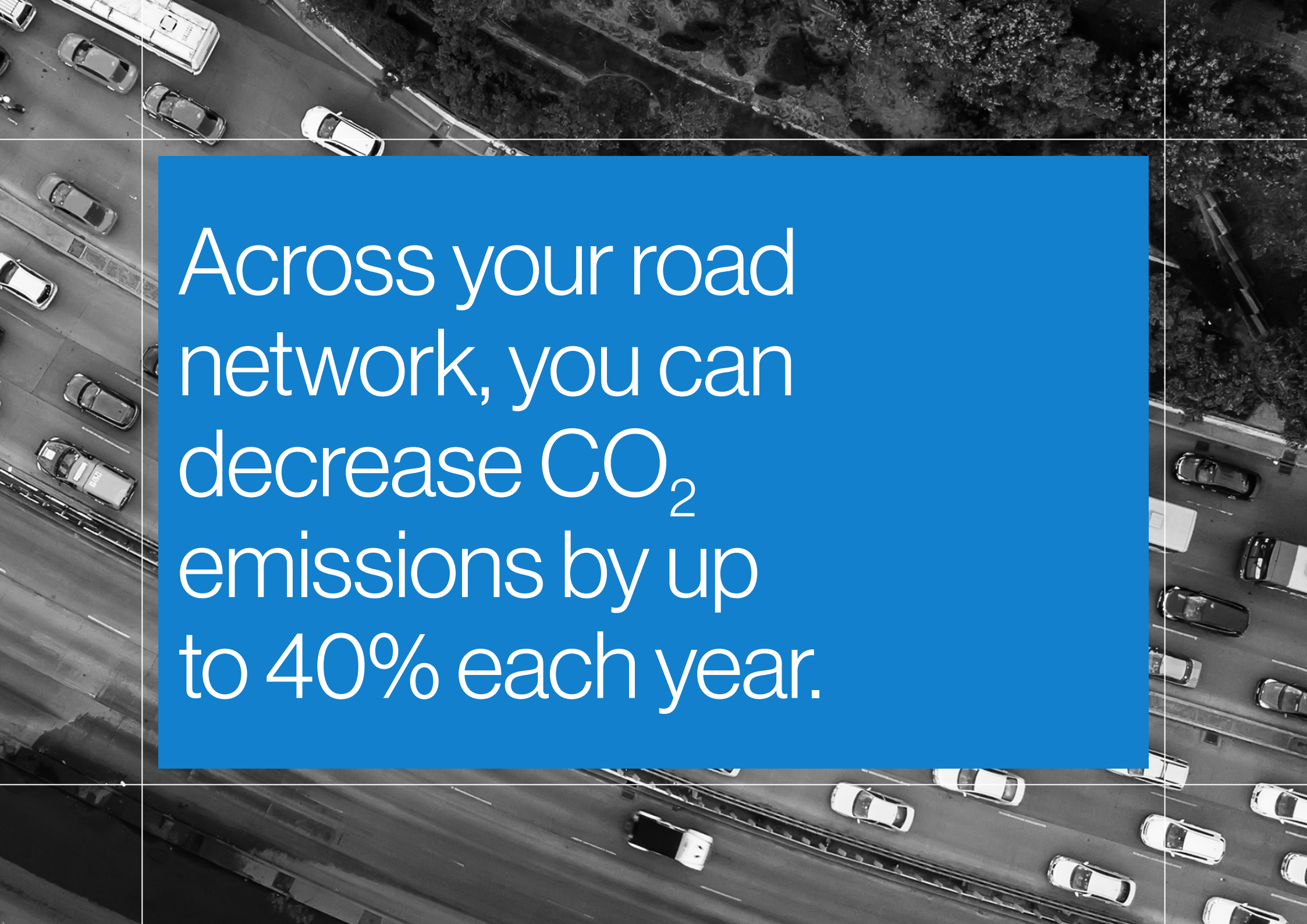
POWERAID™ knows when and where it's safe to lower light levels, and make energy savings, at multiple points across a lighting zone.

POWERAID™ safely adjusts street light luminosity levels according to traffic intensity, including all modes of transport from cars to trucks to pedestrians.

When lights are safely dimmed, you can reduce yearly energy consumption and lower energy costs by up to 40% along a main road.

With access to real-time traffic data 365 days of the year, you can identify more precise opportunities for improving road safety and traffic management.

Across your road network, you can decrease CO_2 emissions by up to 40% each year.

Knowledge is power

How does POWERAID™ work?

01

A smart grid of POWERAID™ units is installed on existing streetlights at strategic locations across your road network. These units:

+ Add a dynamic dimming feature to your streetlights without the need for any further work or investment

+ Capture real-time traffic data via our vision sensors. Typically, one traffic sensor represents 75-200 lighting connections.

02

Traffic intensity is monitored 24 hours a day using our Felicity Connect software. This data (GDPR compliant) is then processed and measured against regulatory standards or custom-defined dimming profiles.

03

When the pre-set traffic intensity thresholds are crossed for a particular zone, the corresponding lighting command (PowerUp or PowerDown) is triggered.

04

The lighting level is automatically adjusted for the assigned group of streetlights via the POWERAID™ unit. The streetlight groups are brightened when there is traffic and lowered when there is less traffic and it's safe to do so.

It's a dynamic street lighting application that moves with the traffic.

The power of simplicity

POWERAID™
can be applied
across your
entire streetlight
network,
wherever
Smart Lighting
is enabled.

No upfront costs or capital spend.

Affordable monthly subscription fee.

Ongoing energy savings can mean your subscription becomes cost-neutral.

Universal and system agnostic, it's easy to install across your existing infrastructure.

With POWERAID™ you can realise both cost-savings and sustainability targets. It's a program the whole city can get behind.

The power of POWERAID™

01 POWERAID™ uses patented technology to monitor multi-modal traffic in real-time.

02 POWERAID™ ensures lighting is always at its safest and most sustainable luminosity level.

03 POWERAID™ helps you reduce energy consumption, decrease CO_2 emissions, and lower power costs across your road network.

Felicity is the leading global brand for intelligent, safe and sustainable traffic networks. We have offices in Denmark, United Kingdom, Australia and New Zealand.

felicitysi.com

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