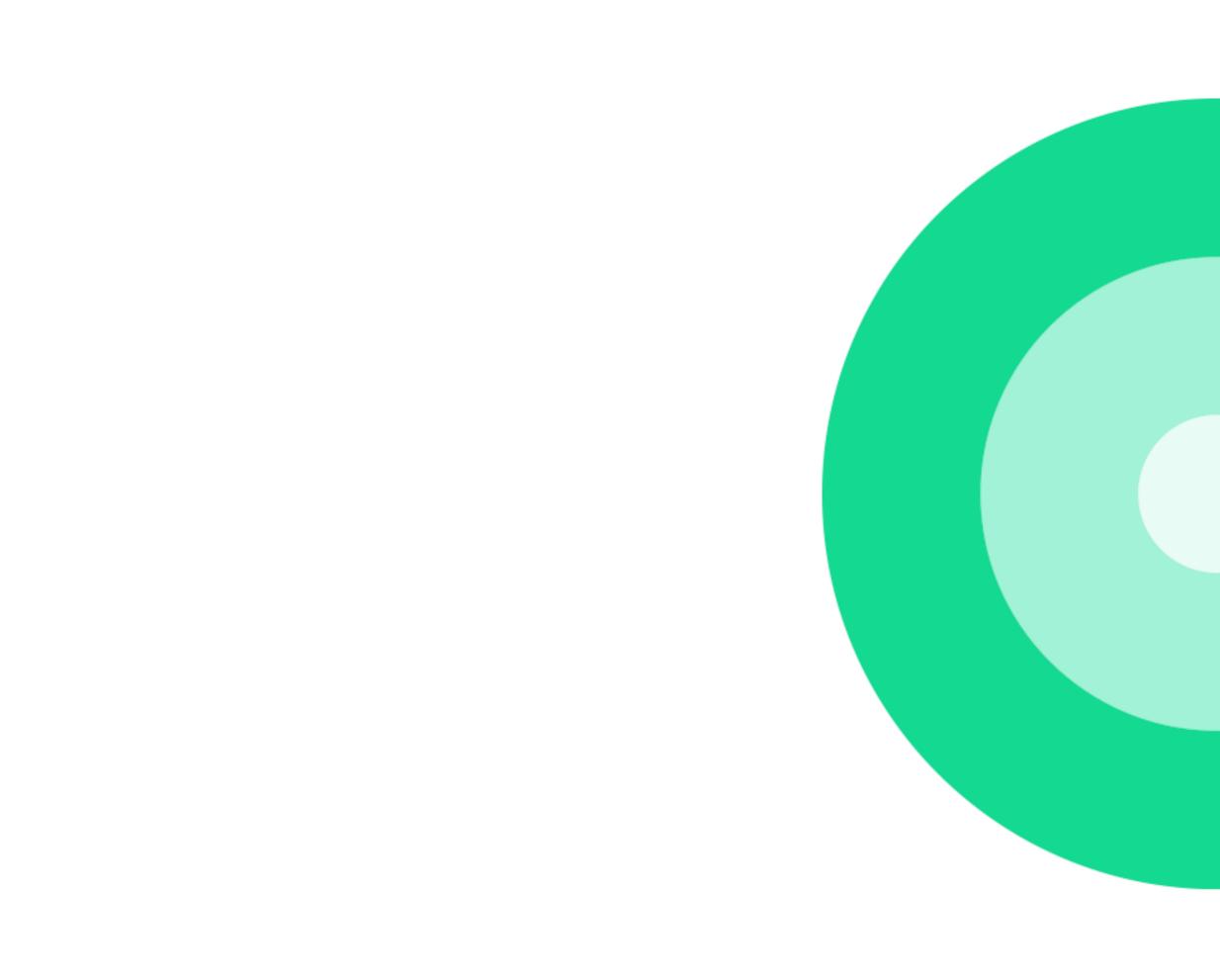
SILVAIR

INVESTOR PRESENTATION

December, 2018





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Silvair, innovative company providing IoT software in B2B model

US Company with Polish roots, **R&D** Center in Cracow

The world's first company offering firmware solutions for lighting based on Bluetooth mesh networking technology

Long – time international partners, i.e.: Murata, Fulham, McWong



Company listed on the Warsaw Stock Exchange since July 2018

SILVAIR

We redefine smart lighting experience in commercial spaces

TiL Award – Best Connected Lighting Solution in 2018





Our background

2011

— The company was founded and started developing proprietary radio solutions for home automation systems commercialized on the Polish market

2014

— The company was registered in the U.S. and started providing services for commercial spaces the world over

We made a strategic bet on Bluetooth® Smart and started contributing our core IP to the Bluetooth Special Interest Group (SIG)

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2017

Bluetooth mesh networking, adopted in July 2017, is the first low-power wireless technology designed for professional lighting applications

2018

Silvair debuted on the Warsaw Stock Exchange





Team



Rafał Han CEO, Co–Founder



Szymon Słupik CTO, Co–Founder



Michał Hobot VP of Product



Ray Pfeifer VP of Sales



Marek Wierzbicki CMO





Adam Gembala CFO, Co–Founder





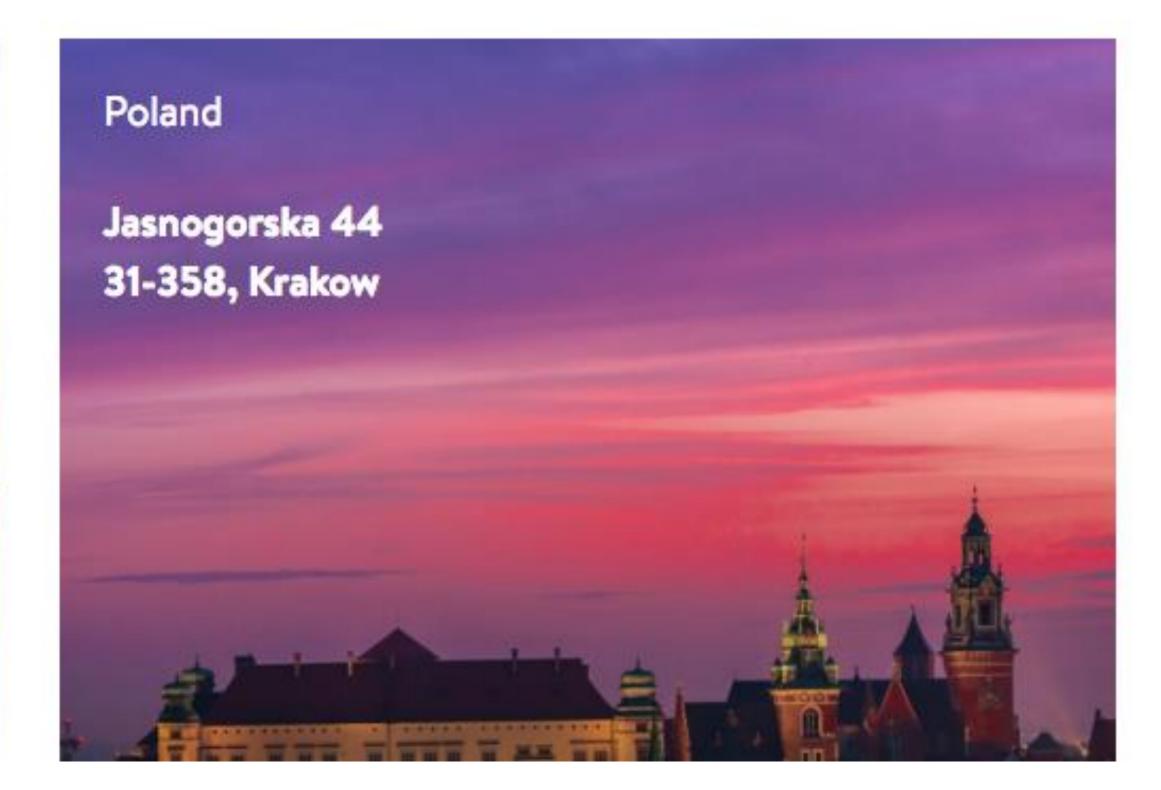




Locations



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Our goal

At Silvair, we're dedicated to improving building occupant experience.

We believe that holistic and harmonic buildings enable people to function better, and can make our living and working environments healthier, friendlier, more efficient and more inspiring.

- Sensors
- Maintenance
- IoT Services

SILVAIR









Data is the key

We deliver innovation that enables building owners and property managers to unlock the power of data that make businesses and buildings smarter and more sustainable than ever before.

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DATA / IoT



Internet not "things" but data...

What is Internet of Things? The concept, that describes the idea of everyday physical objects being connected to the internet and being able to directly or indirectly collect, process or exchange data, beyond standard devices.

of electronics for new product designs in IoT technology by 2020

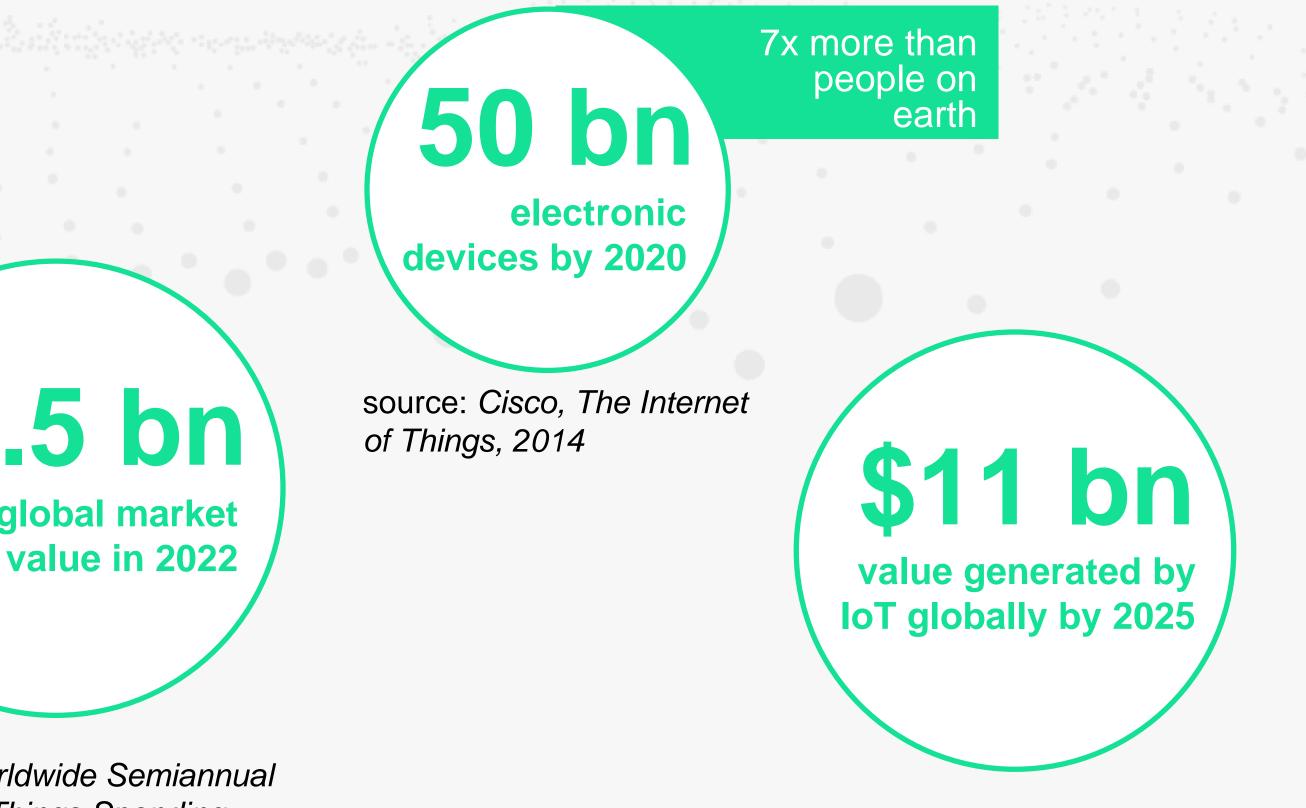
95%

source: Gartner Top Strategic Predictions for 2018 and Beyond, 2017

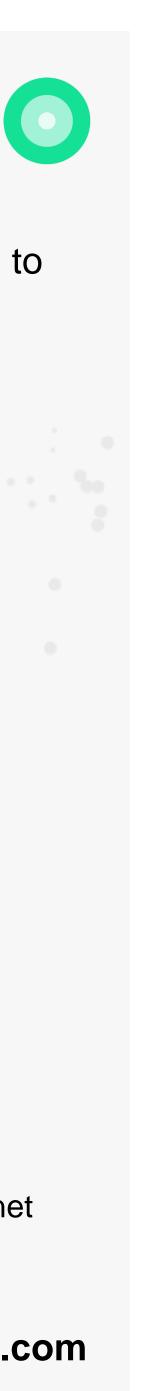
\$1.5 bn **IoT global market**

source: Worldwide Semiannual Internet of Things Spending Guide IDC

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source: Unlocking the potential of Internet of Things, McKinsey, 2015



Light is where it all begins

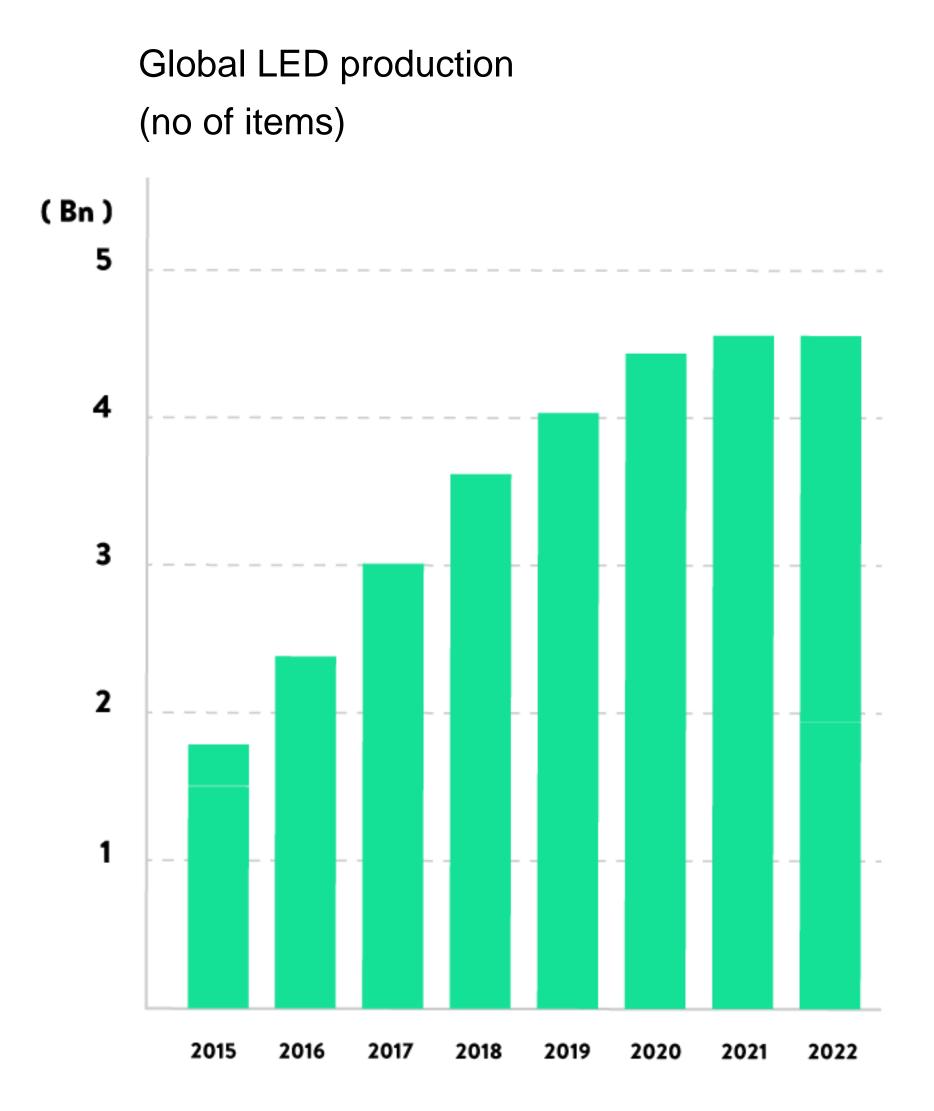
The connected lighting infrastructure becomes a backbone for multiple innovative and valuable services that drive efficiencies across all types of spaces. 121

12





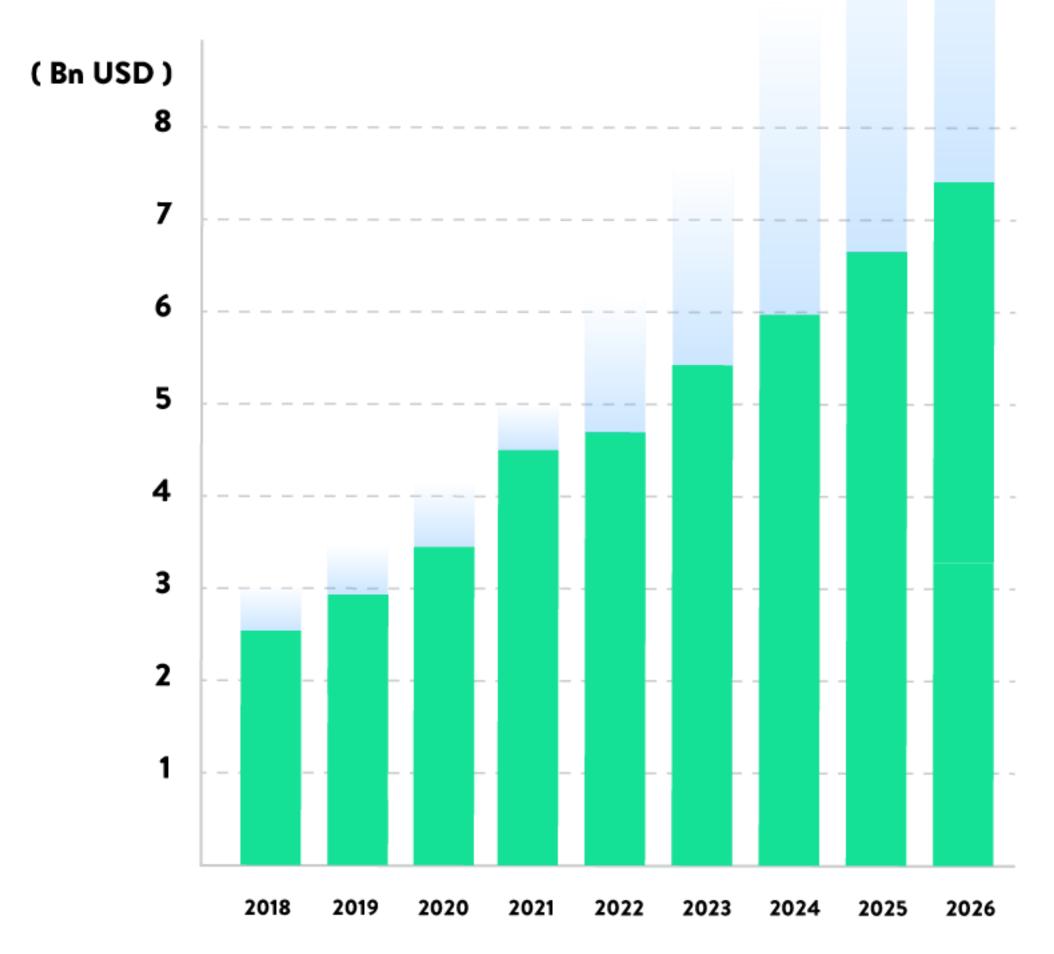
Global LED market growth forecast



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source: Lighting Market Analysis and Forecast 2016 (Strategies Unlimited) / Market Data Intelligent Lighting Controls (Navigant Research)

Global value of smart lighting control technology market in 2018 - 2026





Enormous space on the lighting control market for development

SecurityBrands.*

L7 legrand®

SLUTRON

enlighted

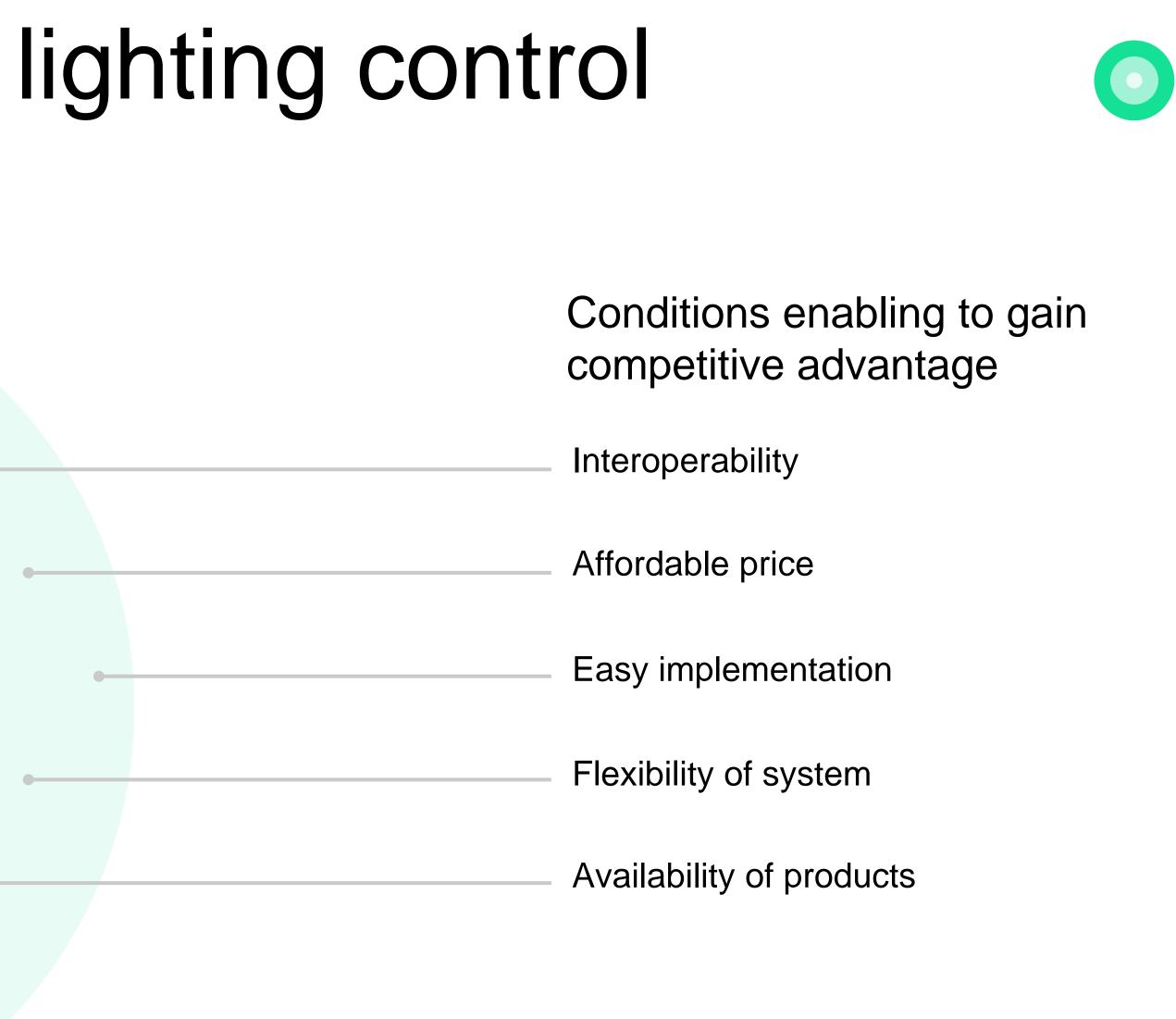
DaintreeNetworks

CASAMBI

CREE ≑



dynalite

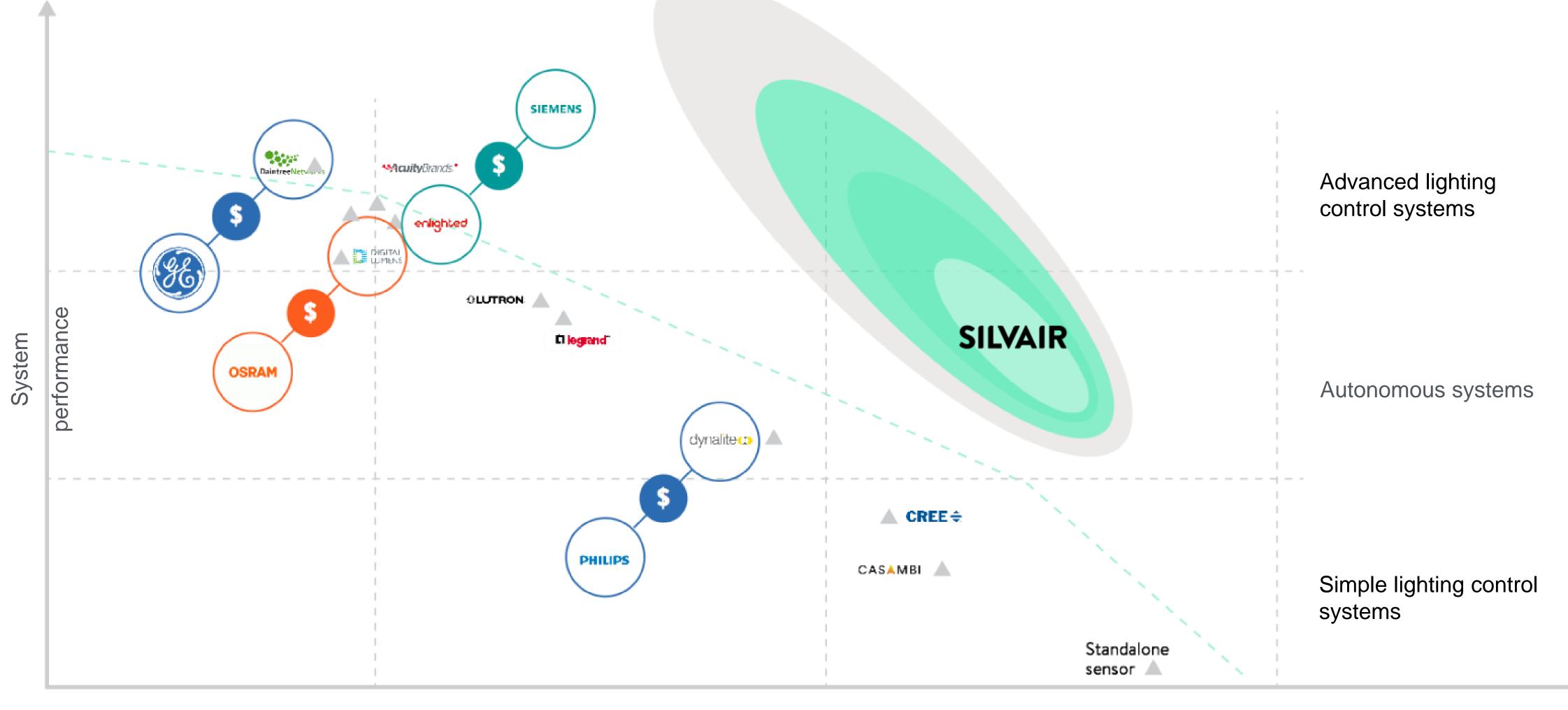




Advanced lighting control systems

Simple lighting control systems

Current status of lighting control technology market



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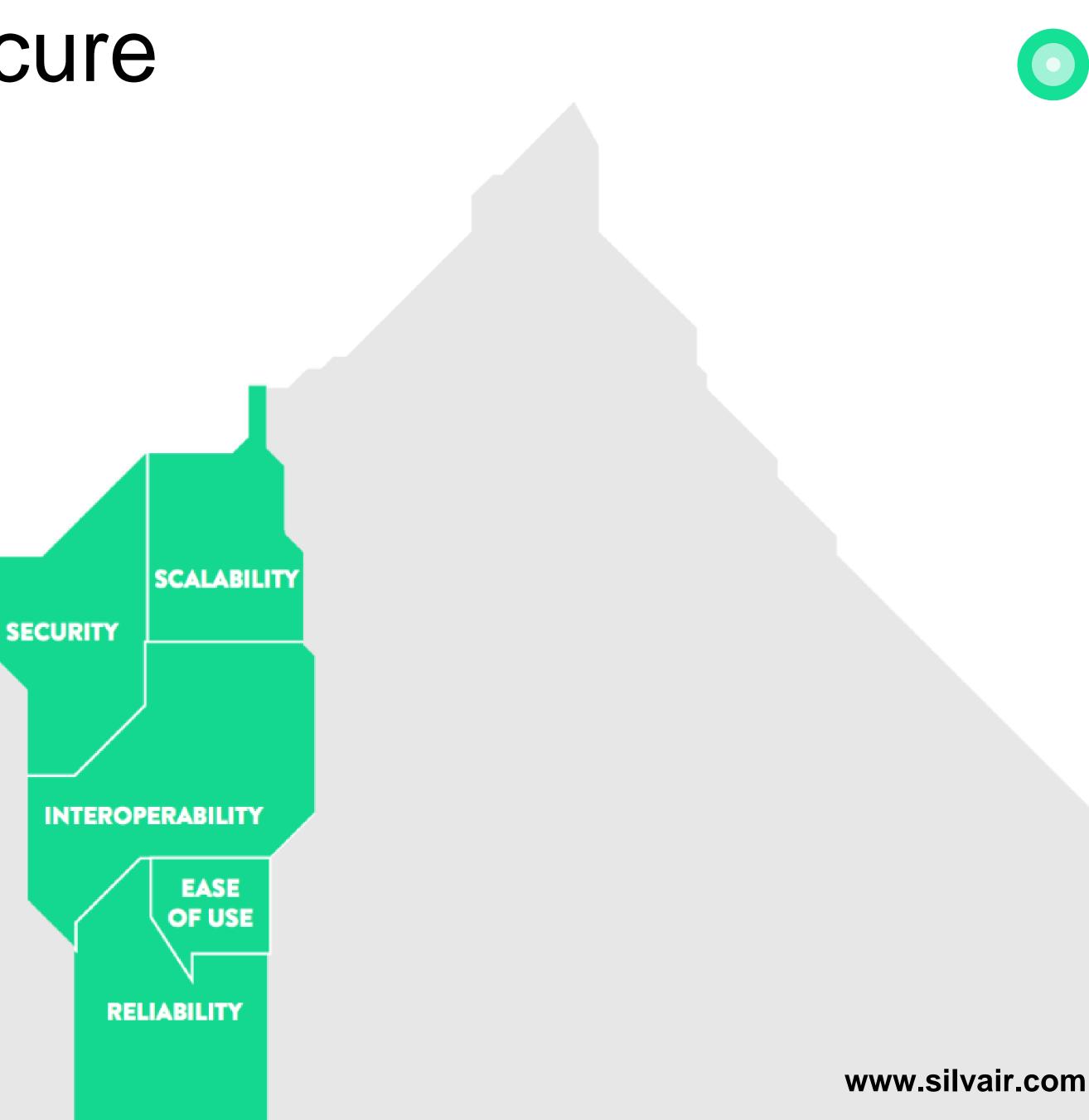
high

price



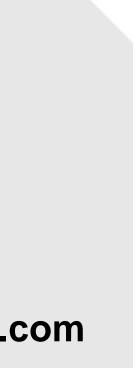
Bet on a strong and secure technology standard

At the core of Silvair's solution lies Bluetooth mesh a global wireless networking standard which expands the capabilities of the Bluetooth radio communication to serve many smart building applications and overcome the existing challenges.

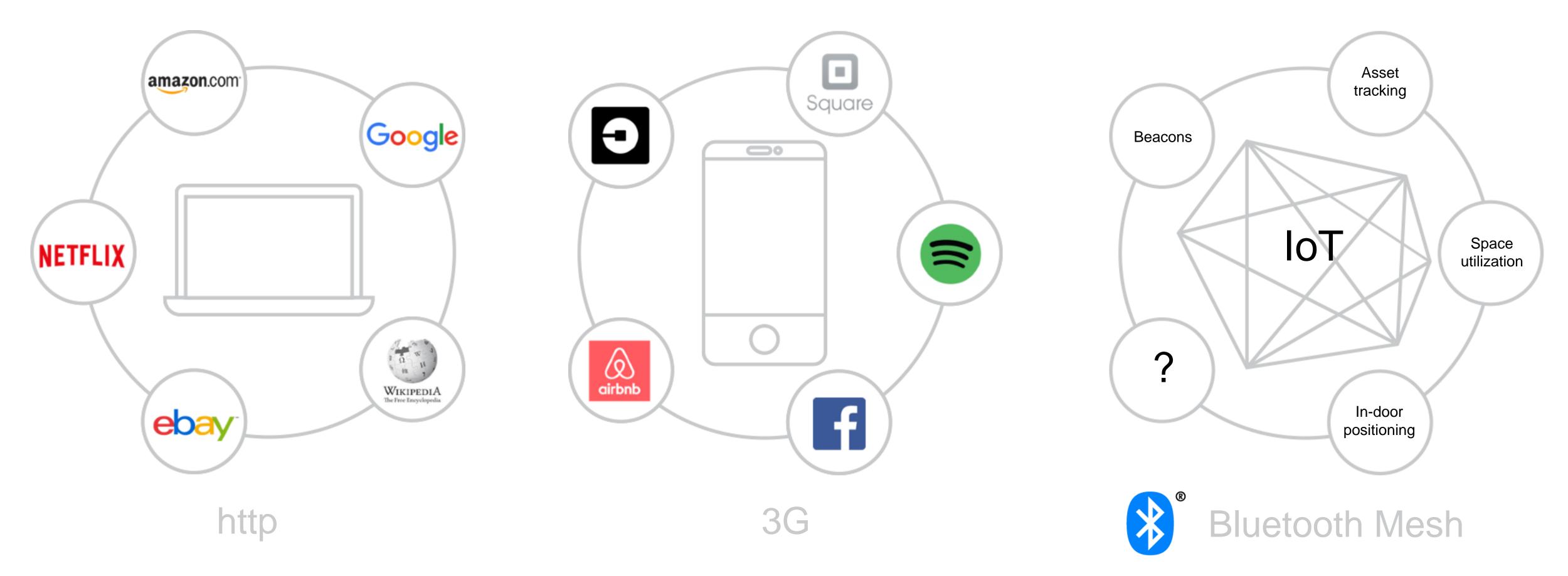








Revolutionary communication wireless solutions where standard is fundamental



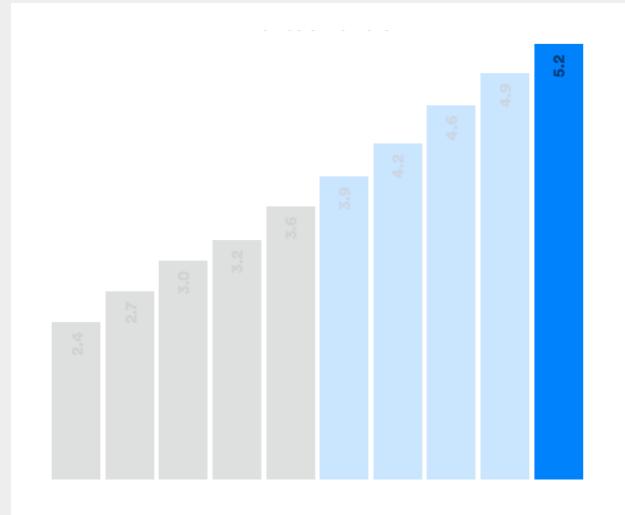
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Bluetooth – standard with a global reach



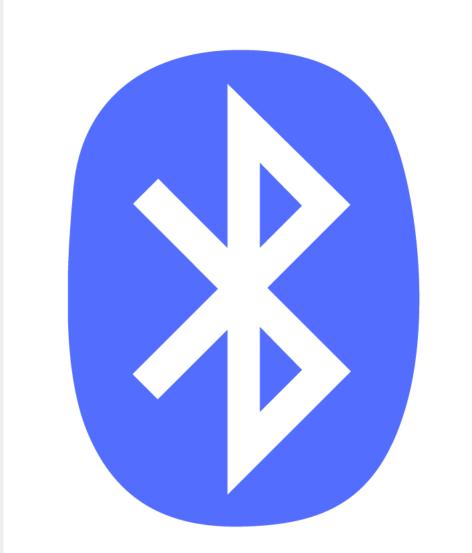




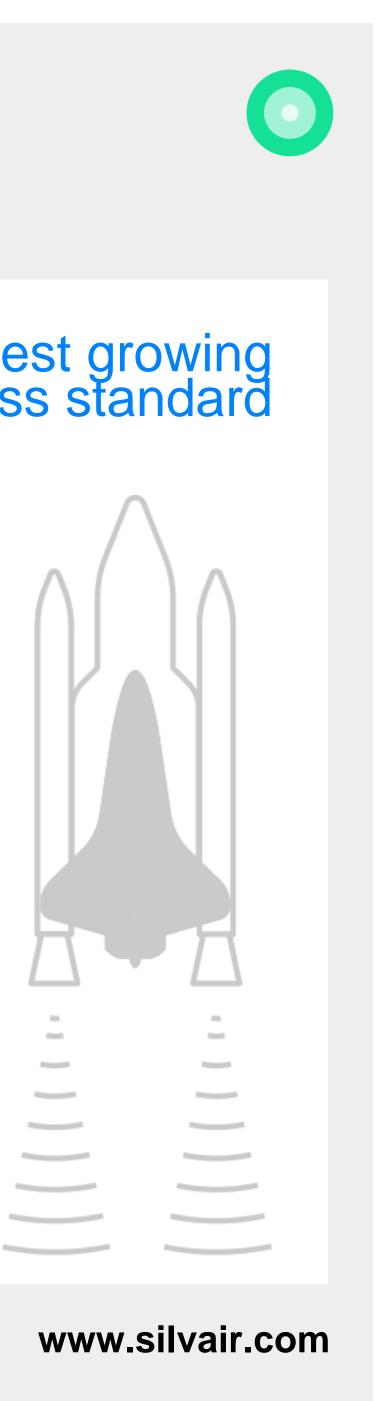
Bluetooth device shipments in 2022r.



source: Bluetooth Market Update 2018



the fastest growing wireless standard



Worldwide brand recognition

Why Bluetooth mesh?



the fastest low-power communication



scalability to thousands of devices



no single point of failure (no central device)





the most advanced encryption standards as well as the cutting-edge device authentication



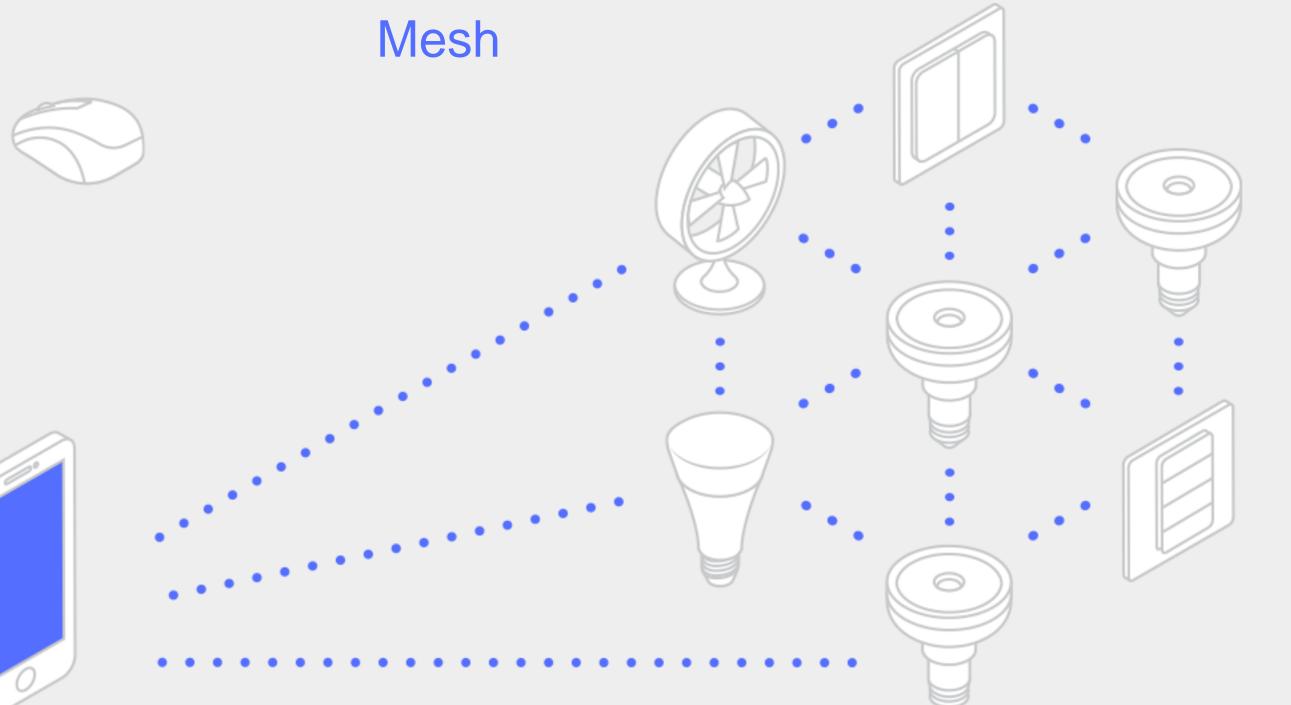
compatibility with an enormous installed base of devices (smartphones & tablets – both with Bluetooth 4.0 and Bluetooth 5)



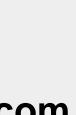
Bluetooth – reliable technology as a source of data with unusual potential

Point-to-point

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Bluetooth recognition and support

We've been actively involved in building the architecture for Bluetooth's standardized mesh networking capability.

For the past 3 years we've received many Member Awards from Bluetooth SIG (i.a. for outstanding technical contribution).

We are the world's first company offering firmware solutions for lighting that are officially qualified by the Bluetooth SIG.

We've been presenting our technology at special Bluetooth booths during the most important industry events (Barcelona, Bregenz, London, Santa Clara).

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Bluetooth

Bluetooth[®]

Presented to Mesh Working Group

Working Group of the Year



Bluetooth mesh is here

- Adopted in July 2017
- Supported by leading chipmakers
- first wave of devices on its way to the market
- Mesh Model Specification focused heavily on lighting applications
- Szymon Slupik CTO of Silvair, also a Chairman of the Bluetooth Mesh Working Group at Bluetooth SIG

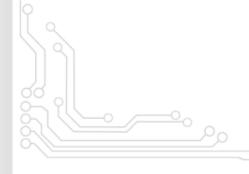


The Bluetoc

Silvair, Inc. Member Company

Qualified Design Name

Listing Date: 18 July 2017 Hardware Version Number



SILVAIR

QDL Bluetoo

Bluetooth Stack for Embedded Sy

Declaration ID: D036228 Qualified Design ID: 98880

Specification Name: 3.0

Project Type: Profile Subsystem Model Number: Mesh Core 549

This certificate acknowledges the the Bluetooth Qualification Process ε

QDL Bluetooth[®] qualified design listing

The Bluetooth SIG Hereby Recognizes

Silvair, Inc.

Member Company

Silvair Mesh Models Qualified Design Name Declaration ID: D036327 Qualified Design ID: 99282 Specification Name: N/A Project Type: Profile Subsystem Model Number: Mesh Model Core 550 Listing Date: 26 July 2017

Hardware Version Number: N/A

Assessment Date: 26 July 2017 Software Version Number: v2.x series

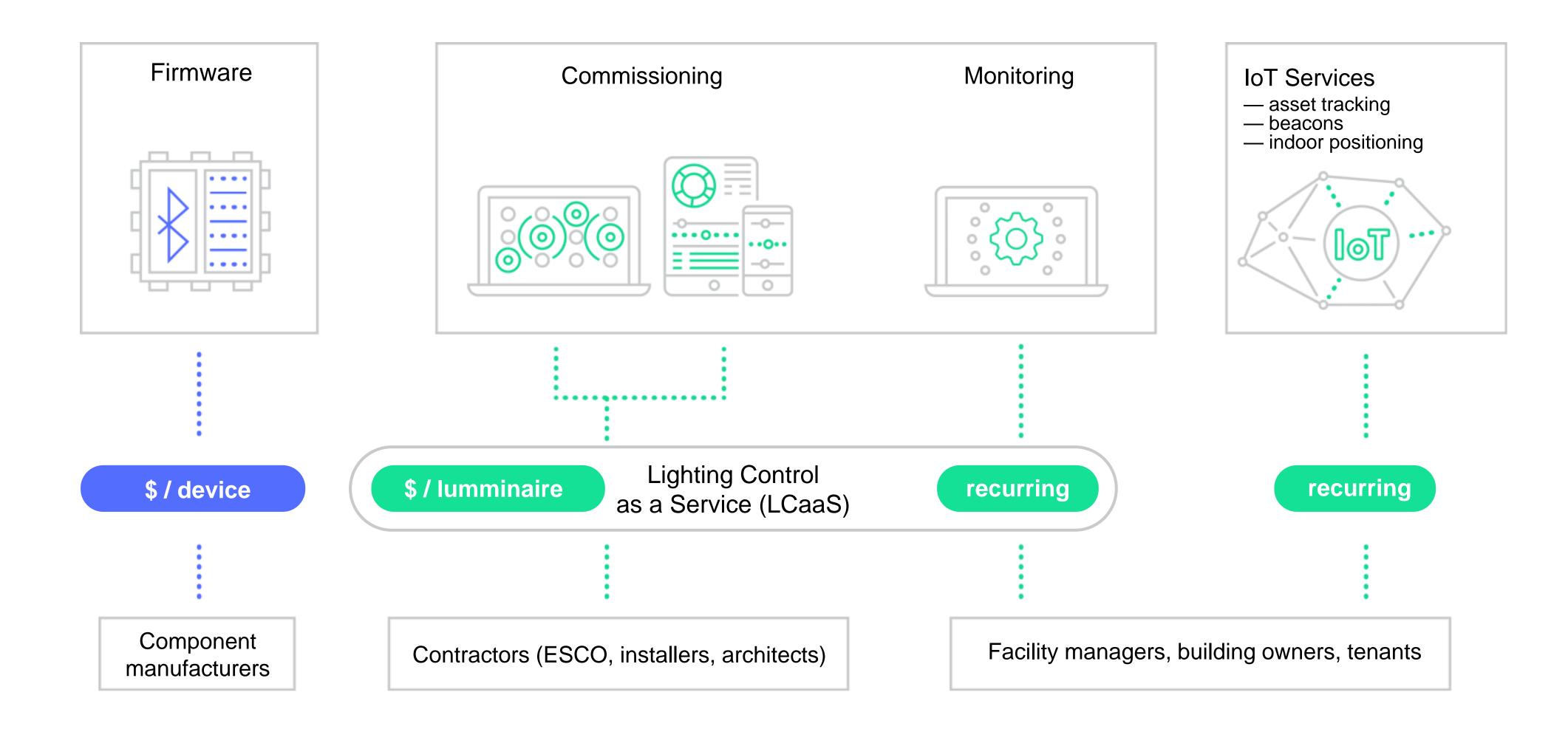
This certificate acknowledges the *Bluetooth*[®] Specifications declared by the member are achieved in accordance with the Bluetooth Qualification Process as specified within the Bluetooth Specifications and as required within the current PRD







Our offering - B2B software



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Silvair Firmware

Silvair Firmware allows to easily incorporate the Bluetooth mesh standard into the products so they could be used for creating large-scale wireless smart lighting networks.

Our Firmware is ready for plug-and-play integration with a variety of LED lighting and sensor products, including:

- sensors / multisensors
- LED drivers
- light engines
- dimming switches
- fixture controllers
- sensor-controllers

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Types of components









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Available components



DG LIGHT



0-10V Bluetooth controller

Wally driver

Draco5 LED driver with Bluetooth Mesh DG557 Bluetooth mesh to PWM DG558 Bluetooth mesh to DALI

DG559 Bluetooth mesh to 0-10V



Ceiling High Bay (Narrow) PIR Occupancy Detector & Photocell	IP66 Rated Ceiling High Bay PIR Occupancy Detector & Photocell	Micro Senso
Ceiling High Bay (Spot) PIR Occupancy Detector & Photocell	Passive PIR Occupancy Detector & Photocell Module	PIR O high b
Ceiling High Bay (Wide) PIR Occupancy Detector & Photocell	IP66 Rated Ceiling High Bay PIR Occupancy Detector & Photocell	Fixtur
IP66 Rated Ceiling High Bay (Narrow) PIR Occupancy Detector & Photocell		Fixtur Fixtur
IP66 Rated Ceiling High Bay (Spot) PIR Occupancy Detector & Photocel		Fixtur

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Murata's Fixture-Integrated Sensor Controller



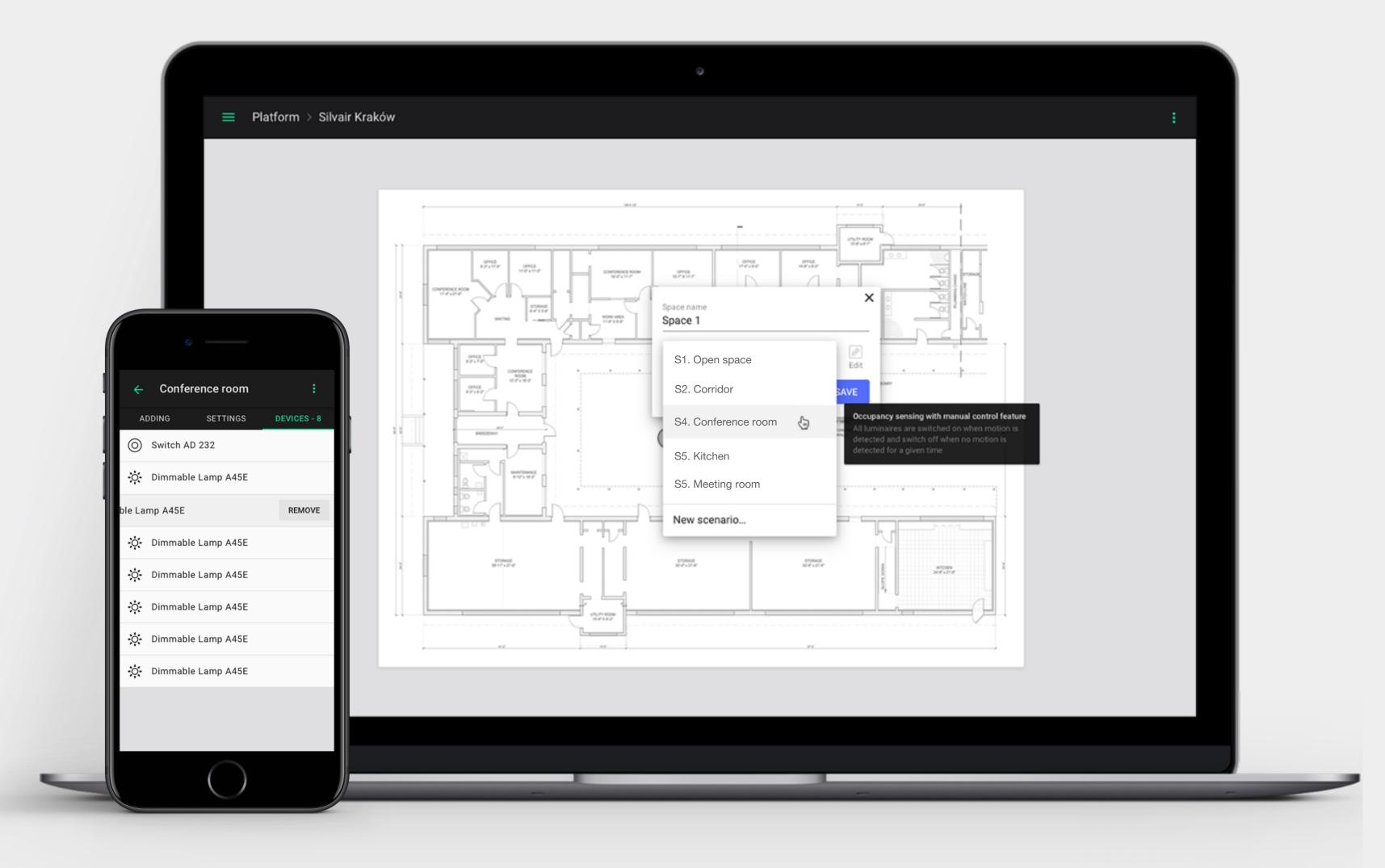
- rowave Occupancy Dimming sor
- Occupancy Dimming Sensor with bay lens
- re Controller EC Mesh 24VDC
- re Controller EC Mesh 48VDC
- re Controller Mesh 48VDC
- re Controller Mesh 24VDC







Silvair Commissioning

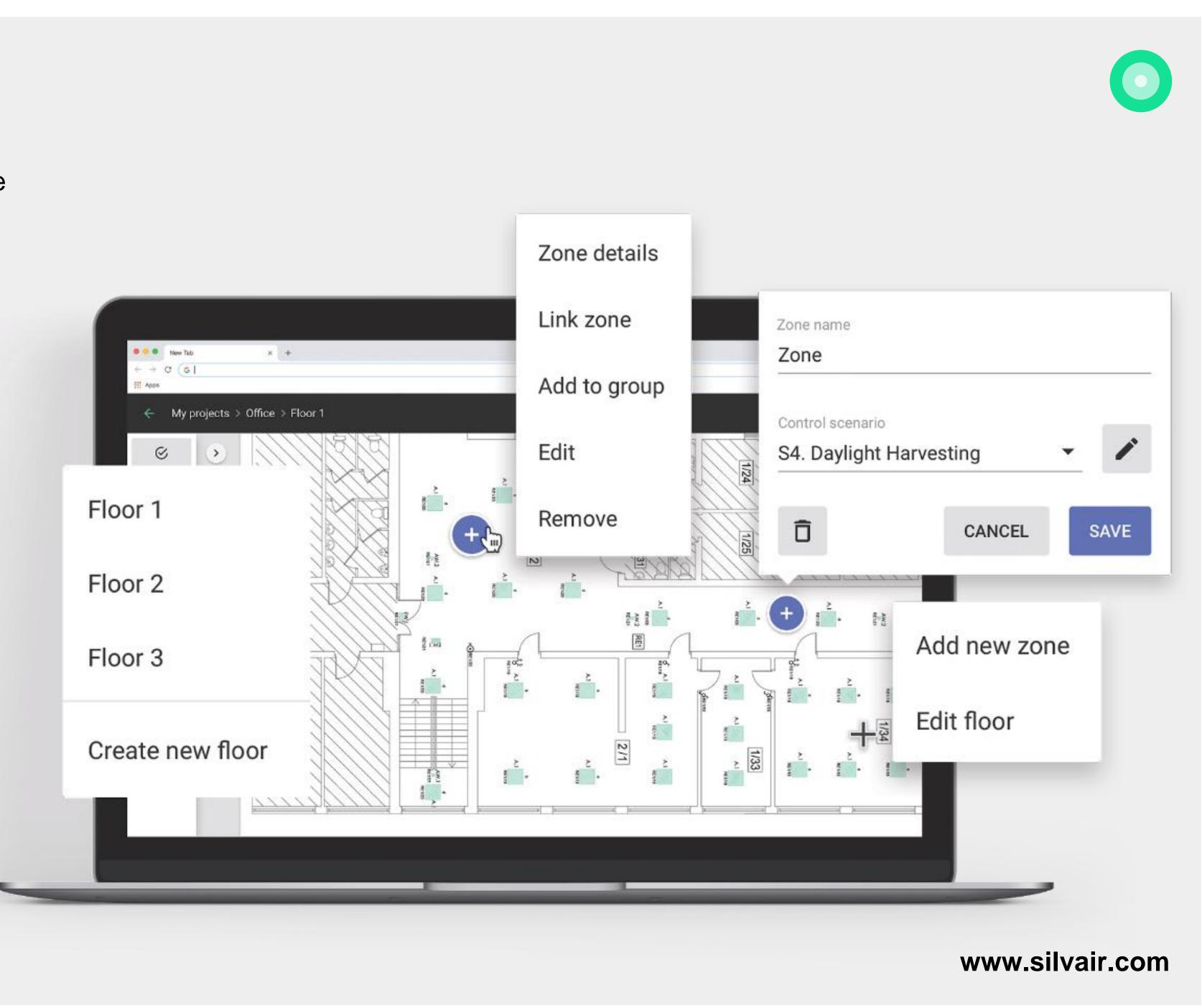


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Planning Stage

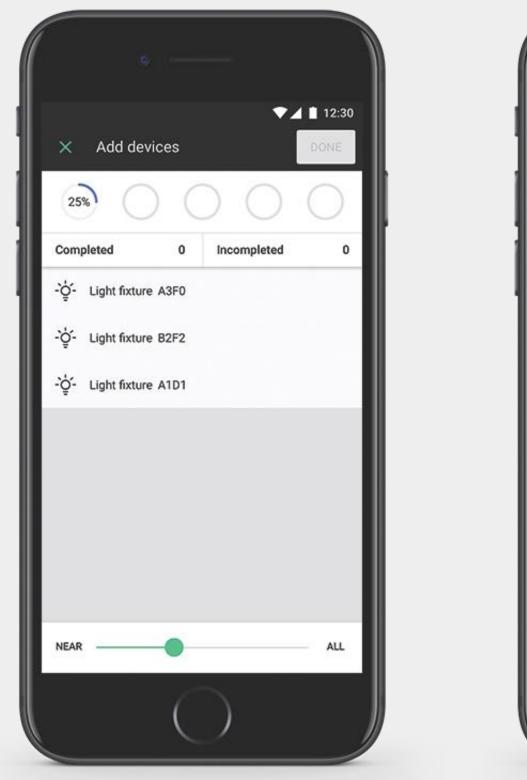
Remote preparation of a retrofit project with the use of a web app. Uploading floor plans, defining individual lighting zones and choosing lighting control scenarios

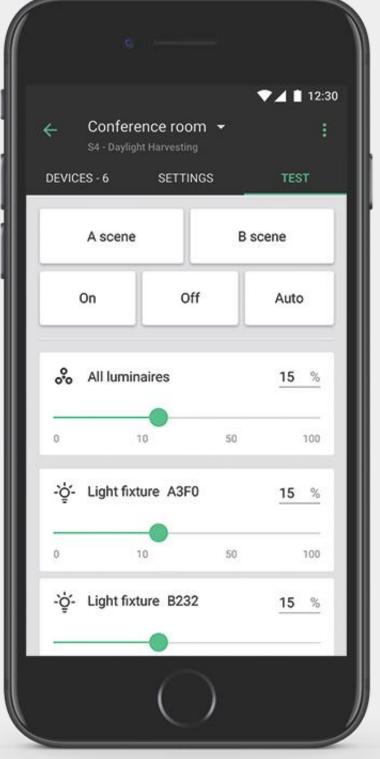


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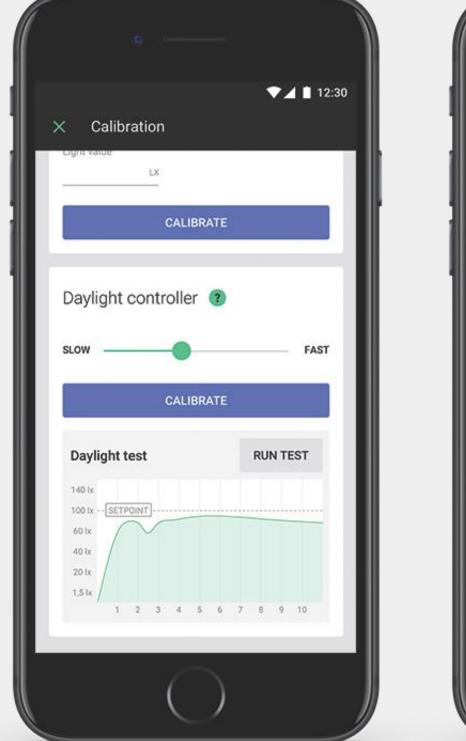
Implementation Stage

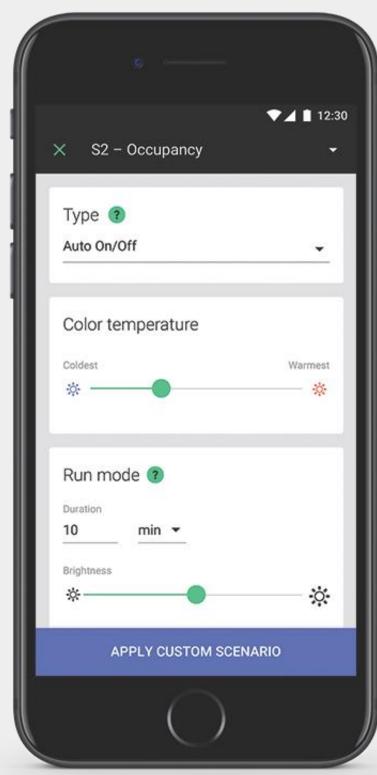
Adding lighting devices to the Bluetooth mesh network on-site with the use of an iOS app. Customization and calibration of lighting control parameters.











www.silvair.com



r.com

Current status

Suppliers of lighting systems







LumEfficient

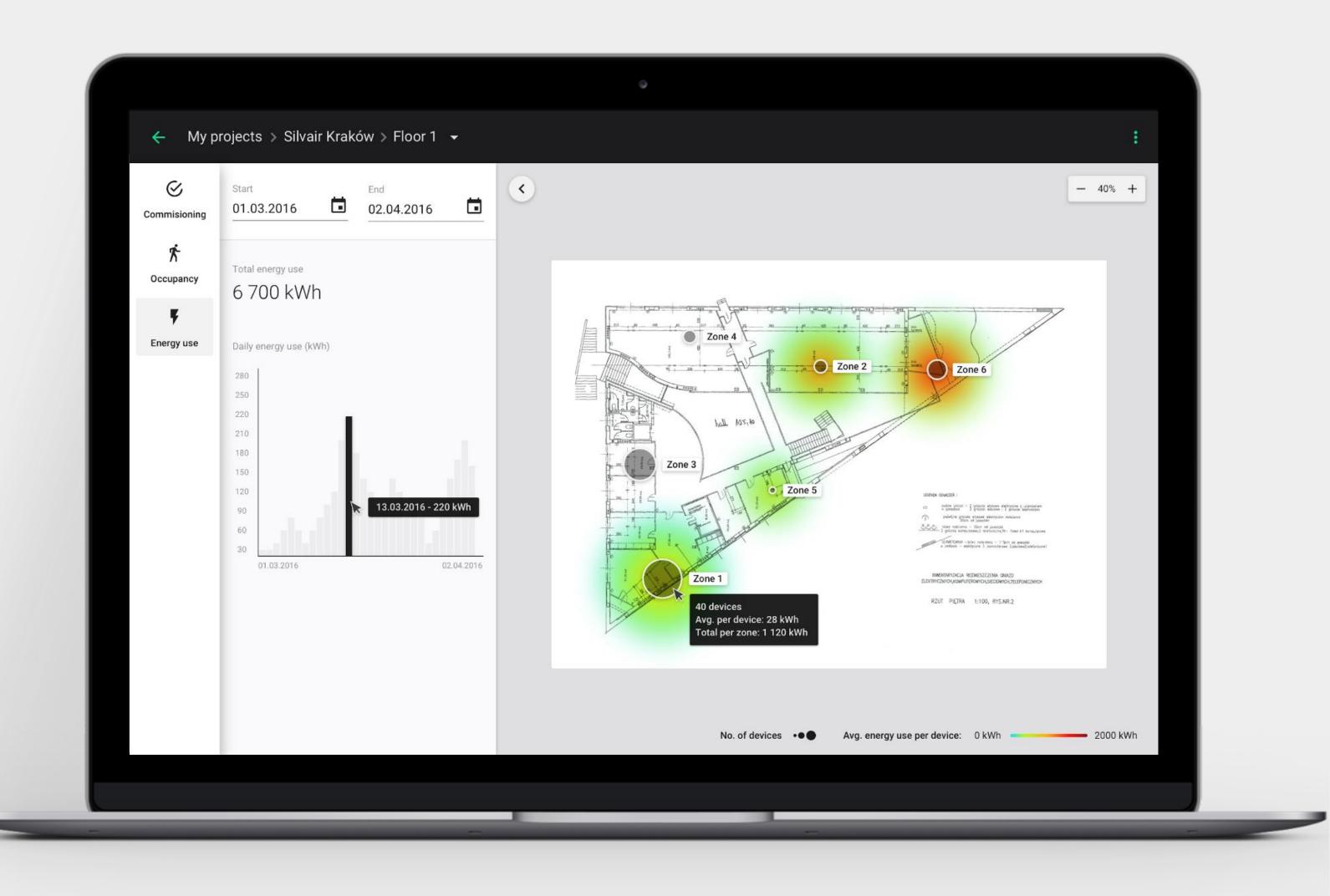
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ESCO – Energy Service Company



Silvair Monitoring

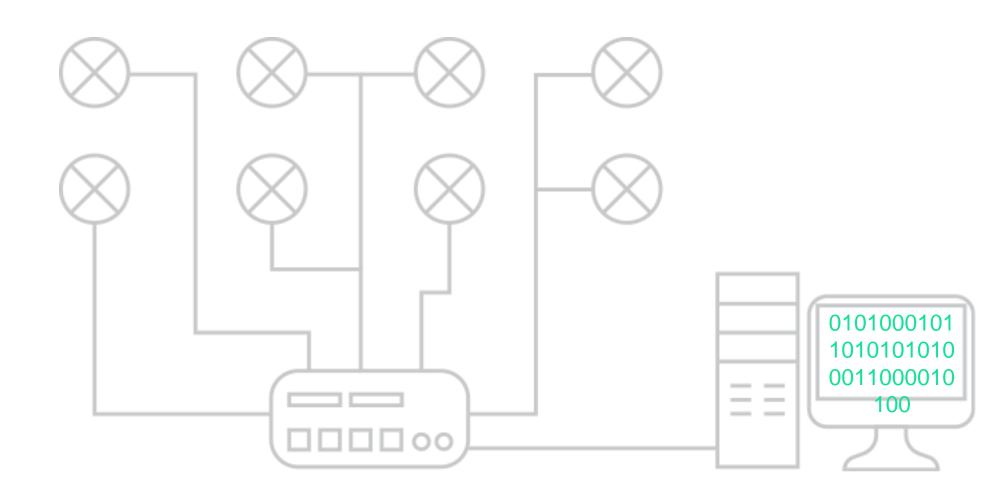


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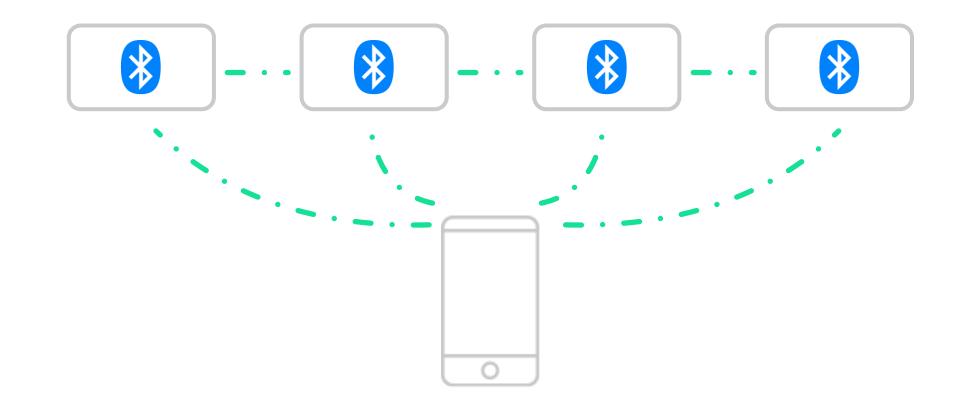
Global go-to-market strategy (1/3)

Current lighting control systems



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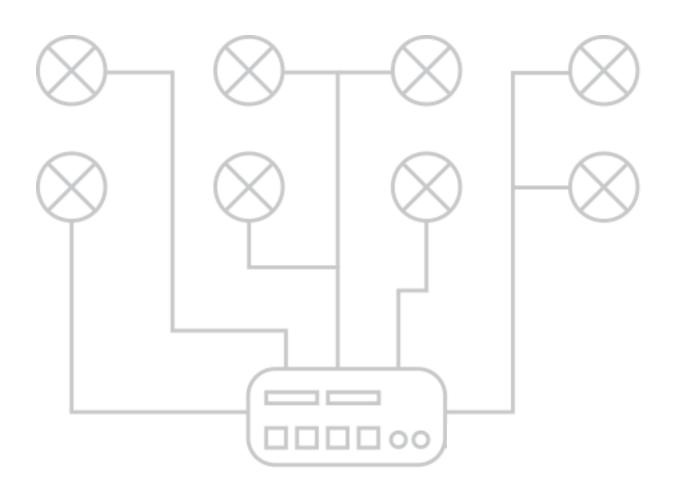
Lighting control system based on **Bluetooth Mesh standard**





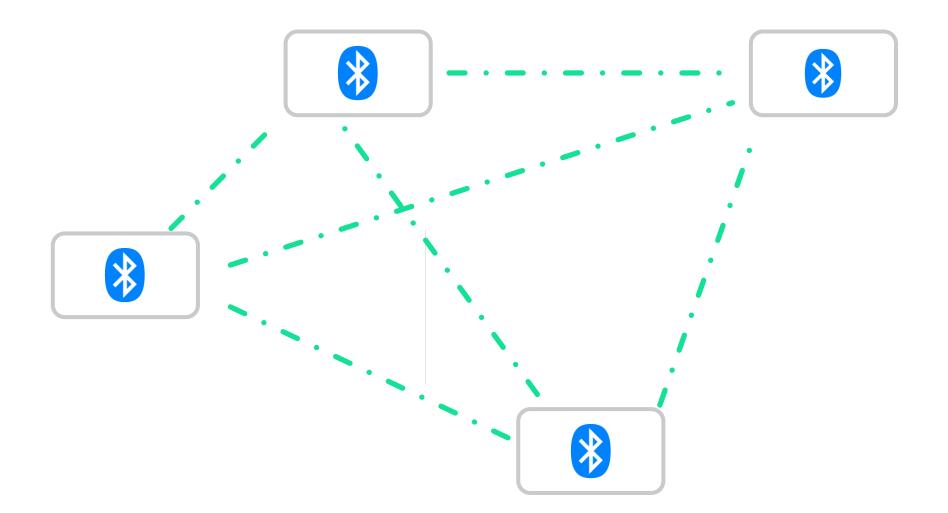
Global go-to-market strategy (2/3)

Current lighting control systems



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Lighting control system based on Bluetooth Mesh standard





Global go-to-market strategy (3/3)

Lighting control system based on Bluetooth Mesh standard

- no central devices)
- Lower cost of installation (easy & simple commissioning)
- network minitoring and devices)
- Additional density of points in network (more precise information from network)

Return on investment 5-7 years

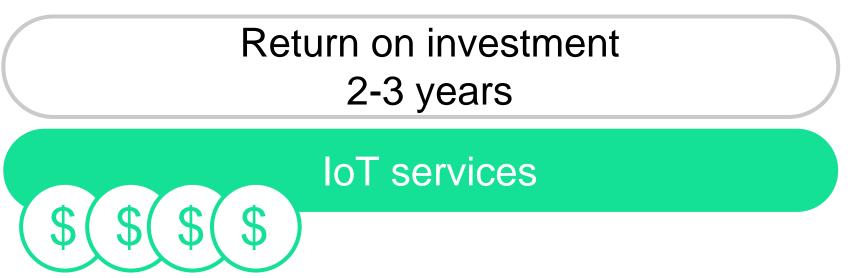
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LEDification

ESCO (Energy Service Companies)

• Lower cost of infrastructure (components, wiring,

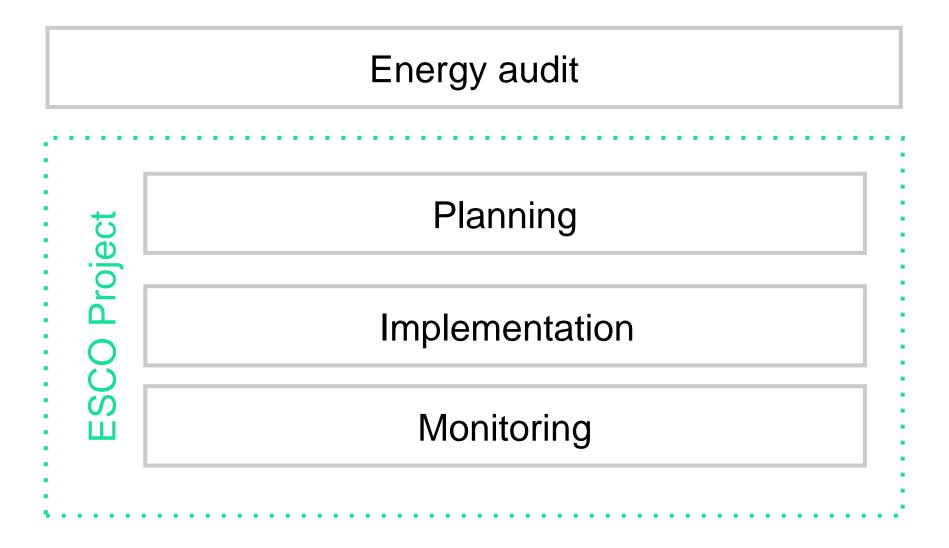
• Lower cost of network maintenance (remote



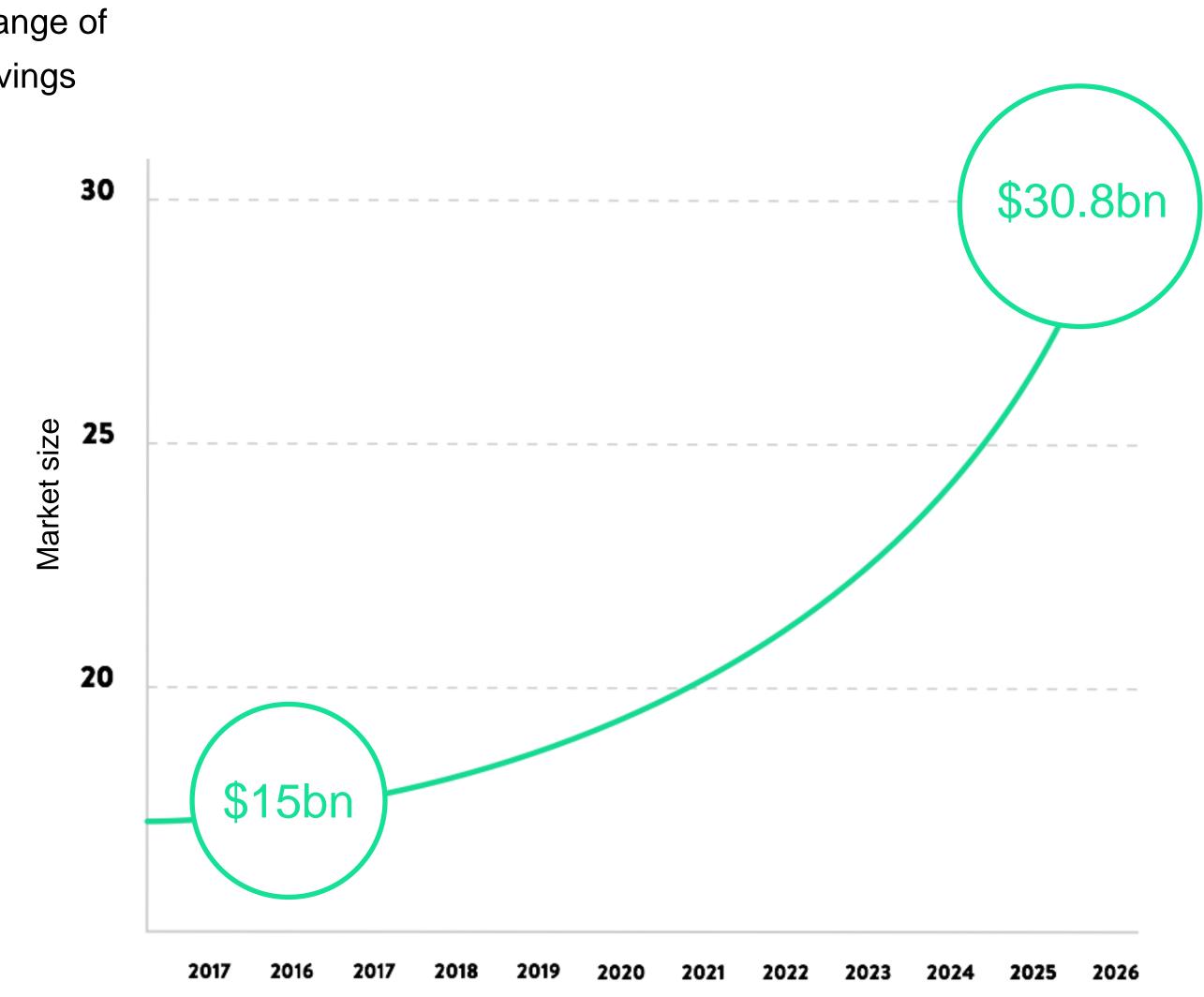


ESCO – role and potential

ESCO (Energy Service Company) is a company providing a broad range of energy solutions including designs and implementation of energy savings projects.

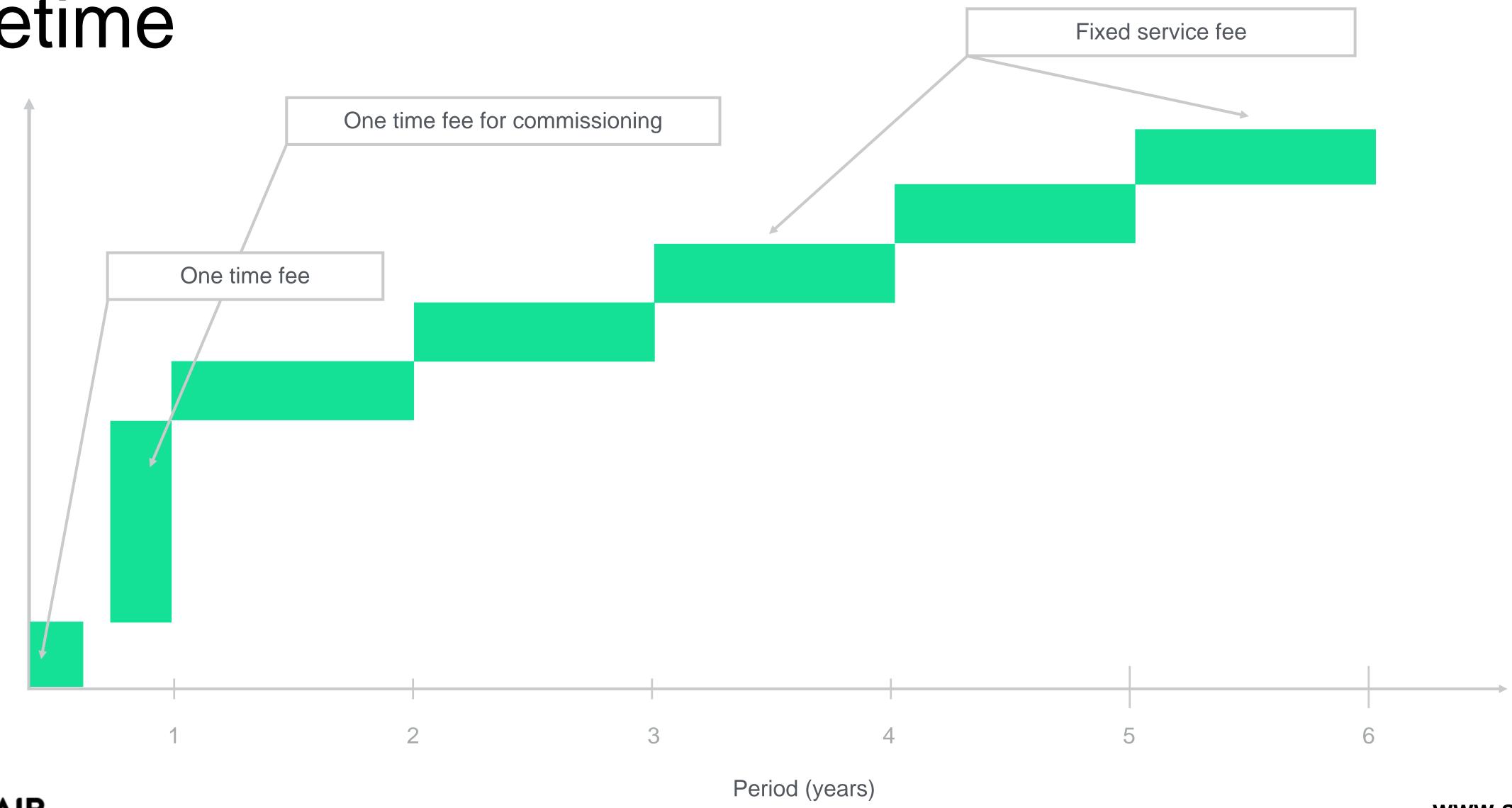


SILVAIR source: ESCO Market Overview – Navigant Research, 2017





Increase in the device value - IoT network lifetime Fixed service fee



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\$



Real-life implementations Cracow, Poland



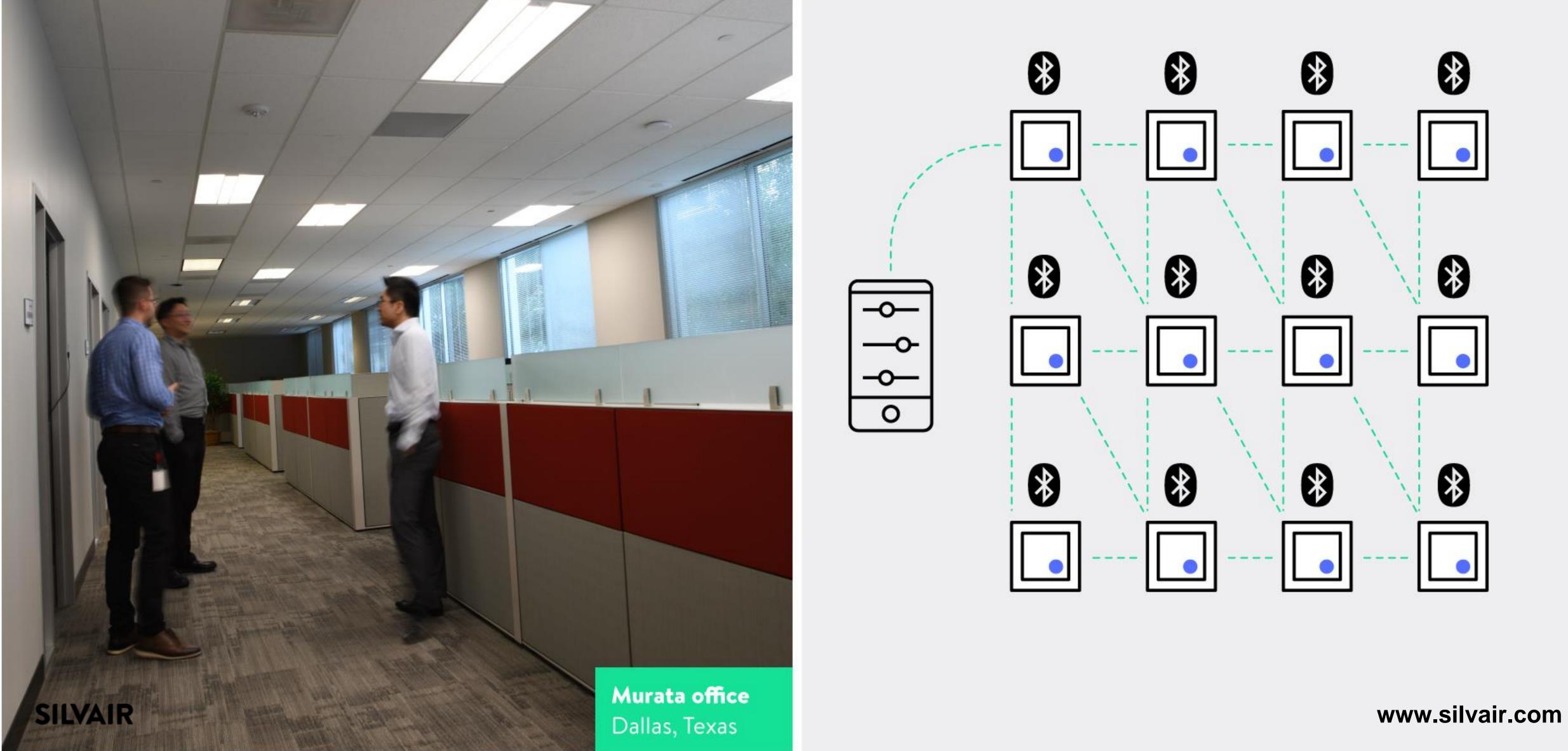
Real-life implementations Dallas, Texas

FIRE LAKE NU PARKING





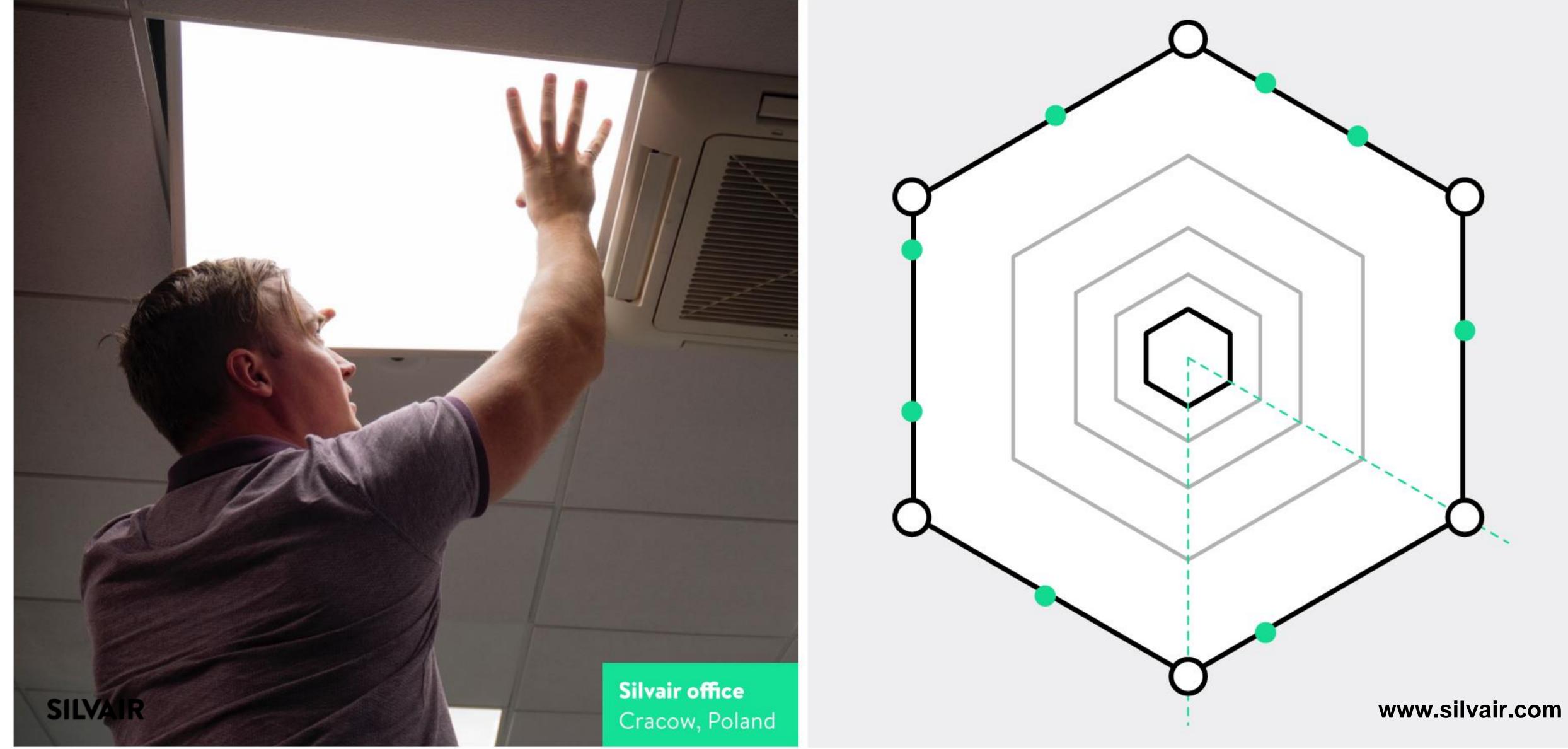
Reliability





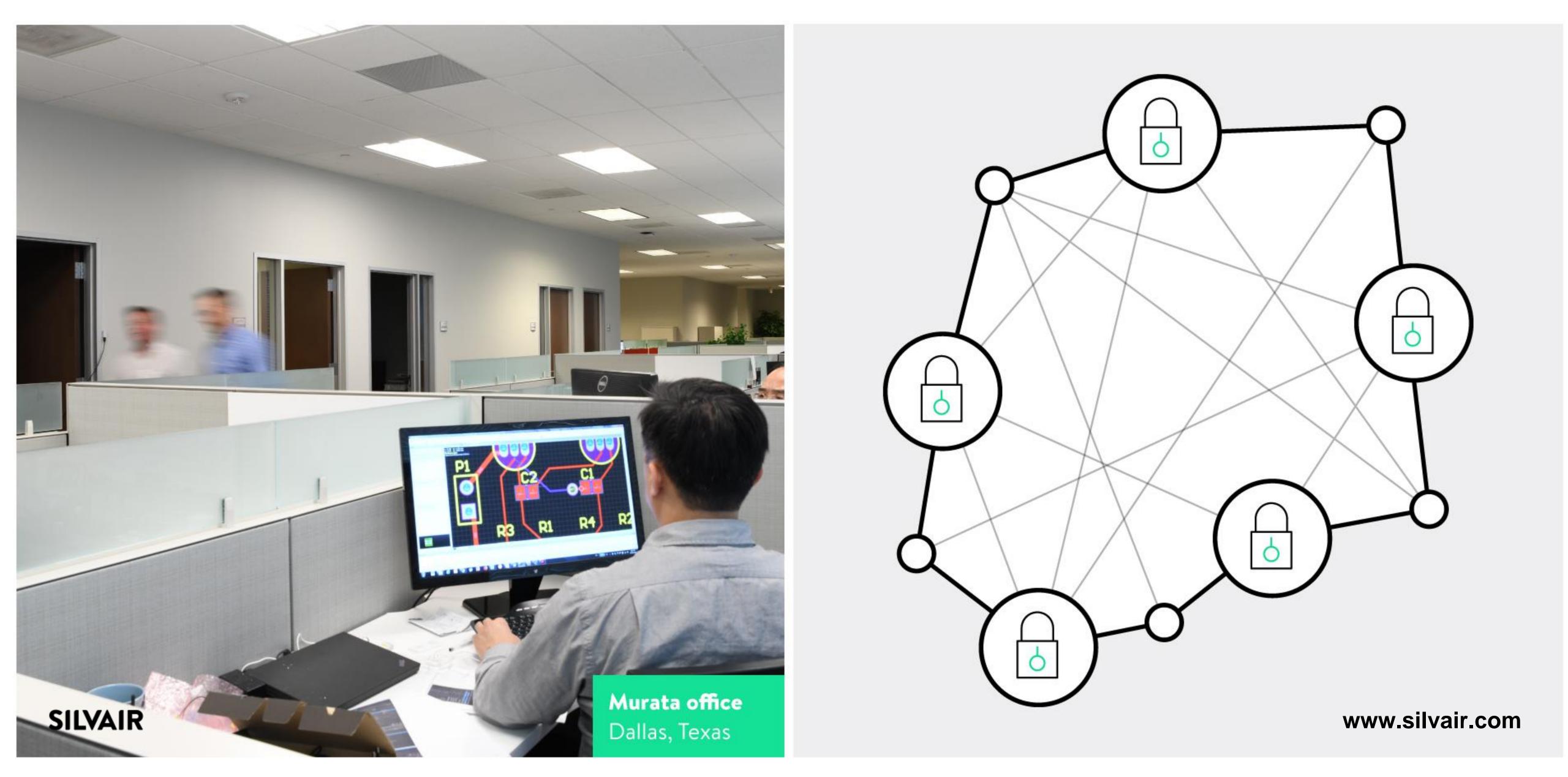


Scalability



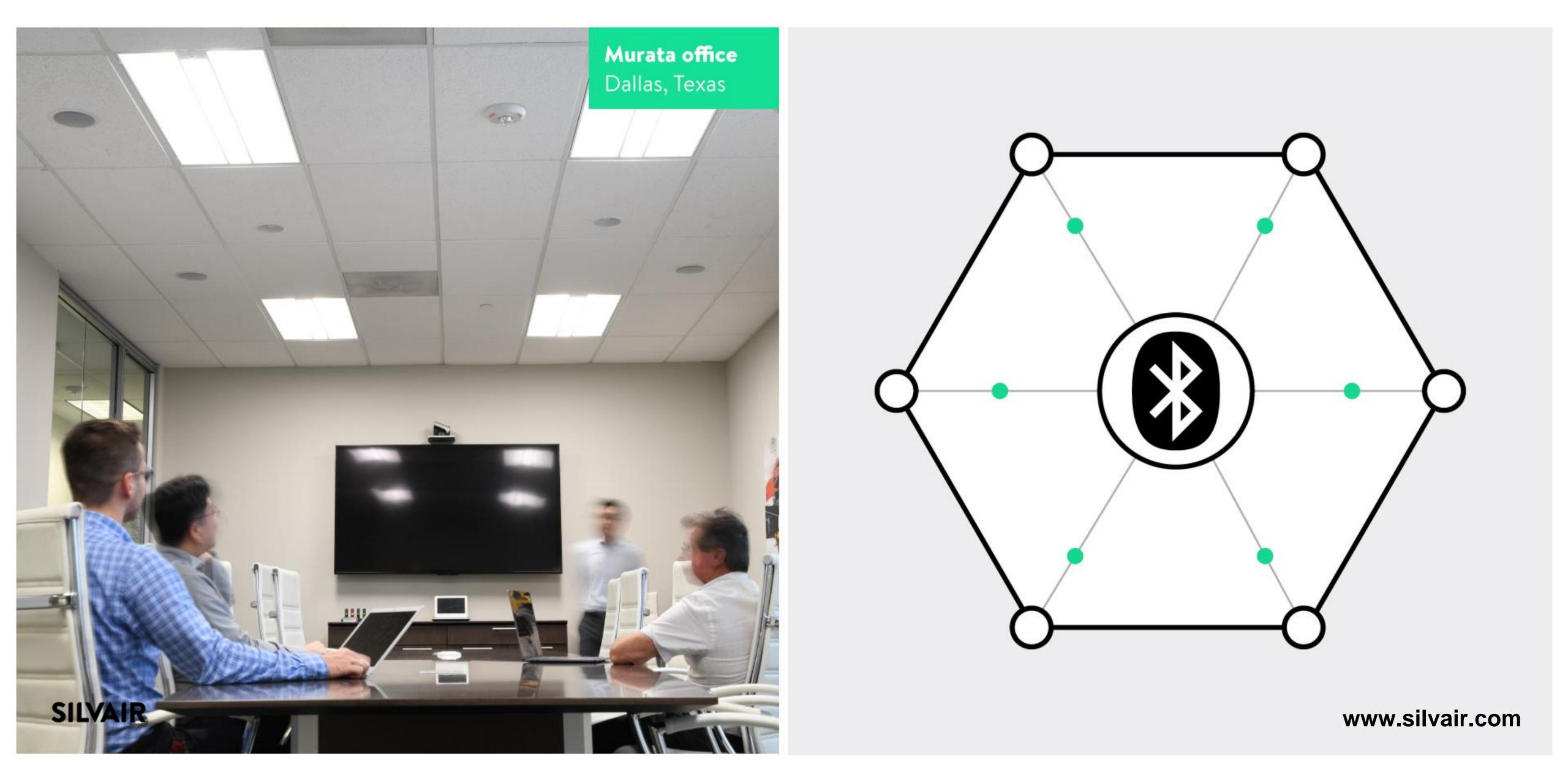


Security





Interoperability





Ease of use- simple and affordable commissioning

Network formation

- no IT expertise required
- no gateway needed
- no need to connect with the building's IT infrastructure

Device identification / mapping

- RSSI and precise proximity data
- better UX (commissioning app narrowing down the list of visible devices)
- instant mapping of devices on a floor plan

Logic configuration

- ICN simplifies and shortens the process, while solving the challenge of device addressing
- device replacement doesn't require network reconfiguration

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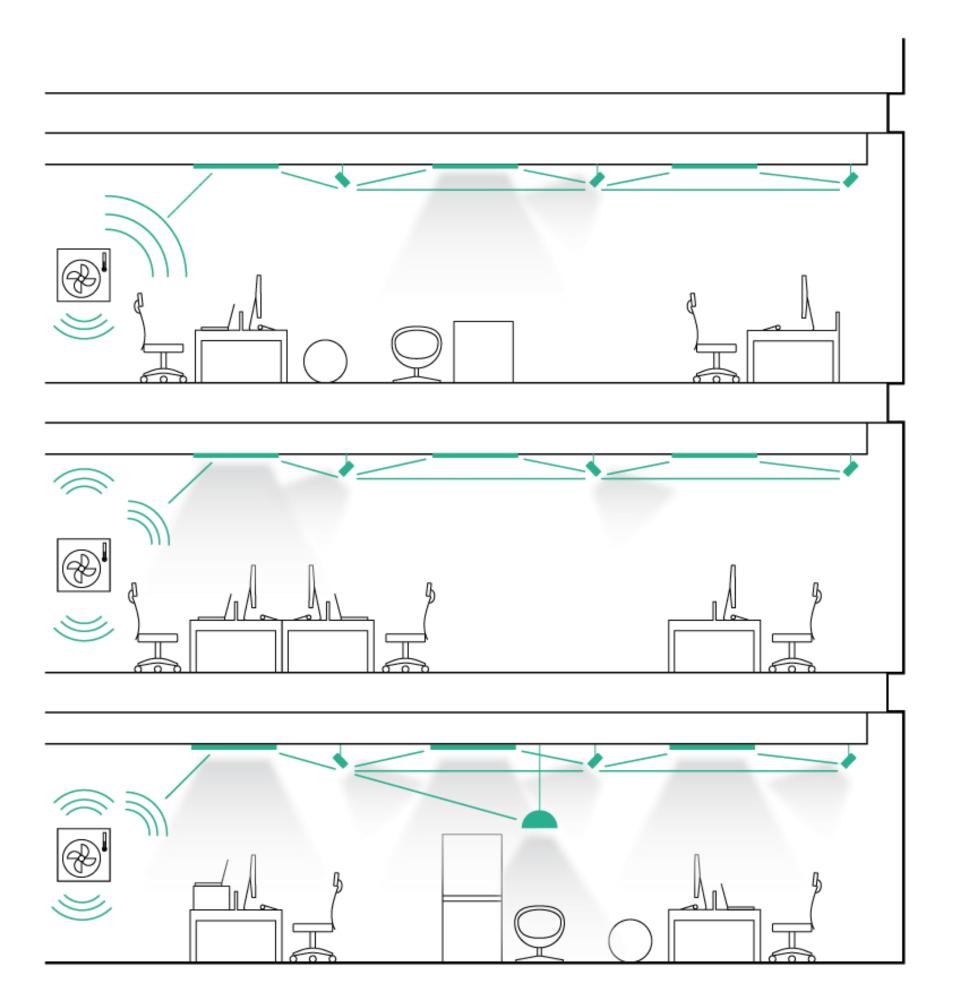


From smart lighting to smart building

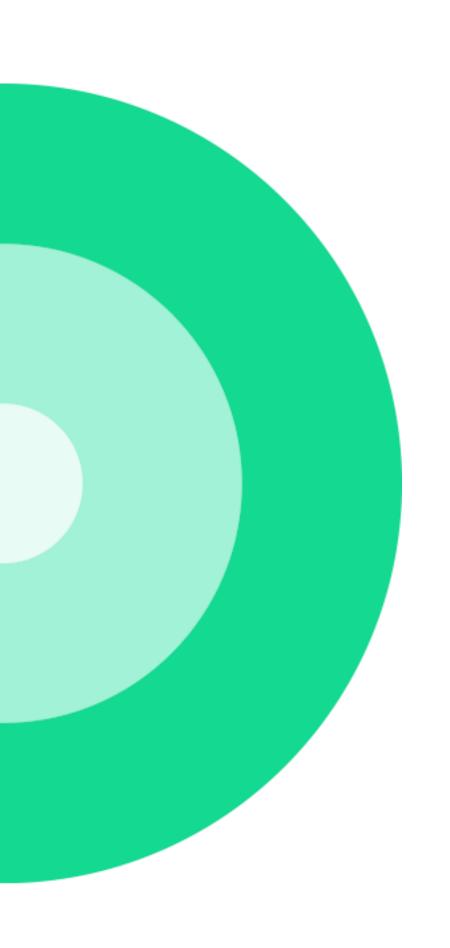
Key benefits

- improved quality of lighting ullet
- lower operating and maintenance costs ullet
- reduced energy consumption ullet
- facilitated compliance with energy codes
- enhanced well-being of occupants ullet
- new possibilities for optimizing workflow

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Thanks!





Silvair on the Warsaw Stock Exchange

Shareholder structure

Shareholders having above 5% of votes on GM	Number of shares	% of equity	Number of votes on GM	Percentage of votes on GM
Szymon Słupik	1,884,711	16.56%	3,529,871	21.82%
Rafał Han	1,296,441	11.39%	2,928,441	18.10%
Adam Gembala	1,018,760	8.95%	2,145,520	13.26%
VENTURE FIZ with other funds under management of the Trigon TFI	2,213,781	19.45%	2,213,781	13.70%
Other shareholders	4,966,727	43.64%	5,362,807	33.15%
TOTAL	11,380,420	100%	16,180,420	100%



Company data:

Company name: Silvair, Inc. Short name: SILVAIR-REGS Ticker: SVRS ISIN: USU827061099 Listed from: 07.2018 Number of shares: 11,380,420 Free float: 43.65% Sector: Software Indices: WIG-IT, WIG





Goals from the IPO sustained

Silvair, Inc. issued new shares in an initial public offering at the Warsaw Stock Exchange (WSE) raising PLN 20.1 million (approx. \$5.5 million) from institutional and private investors.

New funds are obtained for the further development of the Comapny's wireless lighting control solution in key areas:

- Spendings for Research & Development
- Marketing activities: focused on the US and Western Europe •
- Business acivities: financing distribution channels, activities directed on acquiring new partners and building sales department.

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Patents

Patents received in the USPTO*:

- "Peer-to-peer building automation system without knowledge being required of network topology"
- "System and method for administering licenses stored by a product unit, and administration of said unit in the field"
- "Automation and control system with Context awareness" •
- "Automation System Comprising a Monitoring Device and Methods Therefor"
- "System and method for administering licenses stored in an electronic module, and product unit comprising said module"
- "System, method and apparatus for resuplying fast moving consumable goods associated with appliances"

3 international patent applications at the National Stage in the EPO:

- "System And Method For Administering Licenses Stored In An Electronic Module, And Product Unit Comprising Said Module"
- "System And Method For Administering Licenses Stored By A Product Unit, And Administration Of Said Unit In The Field"
- "Automation System Comprising A Monitoring Device And Methods Therefor" •

*18 patent applications to the United States Patent and Trademark Office (USPTO)

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Our partners (1/4)



Fulham is a leading global supplier of of intelligent, socially-conscious sustainable commercial lighting components, sub-systems, and electronics for use in commercial general lighting, parking structure, signage, horticultural, UV and other applications. The company develops and manufactures a variety of award-winning LED and emergency products, as well as legacy products across multiple lighting platforms, and sells its lighting solutions worldwide through original equipment manufacturers (OEMs) and electrical equipment distribution channels.

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Murata is one of the global leaders in the design, manufacture and supply of advanced electronic components and modules used in various applications. Founded in 1944, the Japanese company has a globally known brand, more than 70 thousand employees and 50+ sales offices worldwide. Using its decades of RF and sensor engineering experience, Murata offers sensor/dimming units designed for commercial lighting fixtures.



Our partners (2/4) MCWONG

For more than 30 years, **McWong International** has combined the best of East and West in leading the design and manufacture of high-quality lighting control equipment and related electrical components. Through its respected PacWave[™] and Pacific product series, the company has demonstrated an unparalleled mix of innovation, quality and service to a strong and loyal customer base. With state-ofthe-art design and manufacturing facilities in both California USA and China, the company offers a comprehensive line of control components for OEMs as well as robust stand-alone solutions for contractors, ESCOs and facility managers seeking to implement energy-saving control solutions.

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Danlers (Chippenham, UK) is a family owned company with a rich heritage of designing and manufacturing innovative electronic controls. Having 20+ years of experience, its current goal is to develop next generation lighting products for the industry undergoing rapid change due to influx of LED lighting and digital technology.



Our partners (3/4)



Alphabet Lighting (LEDRAbrands) is an American manufacturer of innovative, commercial and architectural light fixtures and a brand of parent company LEDRAbrands. Bruck, Molto Luce and ALPHABET (formerly WILA USA), offer several categories of commercial, retail, hospitality and residential lighting products. LEDRAbrands continues to provide the latest in cutting-edge Bluetooth® control, Intelligent, Human Centric and Color Quality LED technology.

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Demand Lighting is one of the leading woman owned, US based manufacturer direct supplier of commercial LED lighting solutions in North America. Demand Lighting brings value by cutting out the middleman and selling directly to the end user bypassing the traditional lighting distribution channels. Their solution goes beyond manufacturing LED lights. The company guides customers from start to finish from analysis, product selection, installation, recycle and rebate capture.



Our partners (4/4)



Ledeshi, established in 1991, specializes in manufacturing LED luminaires with taler-made interated driver. With its sophisticated design from the Netherlands, we have received two times of IF design awards. Continuously innovation in respect of both reliability and ease of installation, it has been rewarded by the market.

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LumEfficient

LumEfficient, located in Nashville, began their business in 2010 selling LUXIM's Light Emitting Plasma (LEP). As LED technology continued to improve in efficiency and reliability, LumEfficient gradually began replacing their entire LUXIM brand of LEP luminaires with the Resilient brand of LED Tough Light luminaires. Although LumEfficient products are designed for heavy industrial use, most are sold in the general lighting market because of their competitive price points. LumEfficient has luminaires installed throughout the U.S, as well as India, Russia, Thailand, Germany and the UK.



Key Bluetooth Mesh competitive advantages

Requirements	Z-Wave	ZigBee	Thread	Wi-Fi	Bluetooth® Mesh
Mesh topology	\checkmark	\checkmark	\checkmark	×	\checkmark
Interoperability	\checkmark	×	?	×	\checkmark
Security	×	?	×	\checkmark	\checkmark
Scalability	×	×	×	\checkmark	\checkmark
Reliability	×	?	\checkmark	\checkmark	\checkmark
Location services	×	×	×	×	\checkmark
Wide range of products	\checkmark	\checkmark	×	\checkmark	\checkmark

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Knowledge sharing

We've been invited to share our knowledge about wireless communication and smart lighting during the most recognizable shows and conferences, such as:

- Department of Energy U.S. Conference
- **IES Annual Conference**
- Strategies in Light Europe and the USA
- Wireless Congress
- **Smart Building Conference**
- LightFair International
- **Bluetooth World**
- LED Professional Symposium and Expo

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Education

One of our main goals is to keep all industry stakeholders informed about the Bluetooth mesh technology and its relevance for lighting.

Apart from developing our own set of materials including e-book specials, detailed whitepapers, and series of blog posts, we partner with globally-known magazines and organizations to co-host exclusive webinars and events providing lighting industry professionals with specialized knowledge regarding lighting control systems.

Each or our webinars gathers more than 500 industry specialists and is supported by hundreds of downloads of our ebooks and whitepaper.



SILVAIR







Events

Over the past few years, we took part in some of the most important industry events to explain what the adoption of the Bluetooth mesh standard means for the lighting sector and how we envision the future of smart lighting.

Strategies in Light.

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