



Shuffle

Living together in a challenging world

Schröder 



See

Interact

Save

Move

Secure

Enjoy

Guide

Listen

Charge

Inform

Care

Measure



Shuffle

Light + Controls



WLAN



CCTV



Loudspeaker



EV Charger



Connecting people to their social environments

MORE EFFICIENT. SMARTER. INTERACTIVE.
CONNECTED. THE DIGITAL REVOLUTION IS HERE TO
SERVE PEOPLE IN A MORE AND MORE CHALLENGING
WORLD. THE SHUFFLE IS MUCH MORE THAN A
LIGHTING COLUMN. IT CONNECTS PEOPLE TO THEIR
ENVIRONMENT. ALWAYS.

This modern interface creates added value for outdoor living spaces. With integrated features such as loudspeakers, CCTV, WLAN, EV chargers and visual guidance, the Shuffle goes far beyond professional lighting. It creates the best conditions to make people truly feel at home in public areas.

The safety, comfort and the sense of well-being provided by the Shuffle invites people to enjoy public areas both by day and by night. By creating better living spaces, the Shuffle encourages social interactions.

Thanks to a smart design, the Shuffle is an affordable, complete solution that requires very low maintenance. Providing multiple requirements in a single column minimises the material needed in spaces and lowers the carbon footprint of an installation.



Looking ahead

- › 2/3 OF THE WORLD'S POPULATION WILL SOON LIVE IN CITIES
- › LIFE EXPECTANCY KEEPS INCREASING AND THE POPULATION IS AGING
- › PEOPLE WANT MORE LIVING SPACES THAT THEY CAN AFFORD
- › COMMUTERS SPEND MORE AND MORE TIME TRAVELLING TO AND FROM WORK, CALLING FOR AN EVOLUTION IN TRANSPORT

The rise of the city

THE EVOLUTION HAS ALREADY STARTED AND THE COMING DECADES WILL BRING FURTHER PROFOUND CHANGES TO LIVING SPACES. THE SPATIAL DISTRIBUTION AND INCREASING SIZE OF THE GLOBAL POPULATION IS RESULTING IN A RAPIDLY GROWING URBANISATION.

The challenge of offering a sense of safety and well-being to more and more citizens while taking into account financial and environmental factors is huge. Cities and managers of privately-owned spaces will have to become smarter to ensure that these benefits are available to all.

Urban living is commonly associated with high levels of literacy and education, better health, greater access to services, social interactions and enhanced opportunities for cultural and political participation. But an unplanned or an inadequately managed urban population growth can threaten the whole equilibrium and lead to pollution, health issues, poverty, criminality and energy supply problems.

If they want to successfully evolve, cities will have to manage the three pillars of sustainable development: economic growth, social development and environmental protection.

Smart Cities are not a trend; they are necessary.

41
MEGACITIES

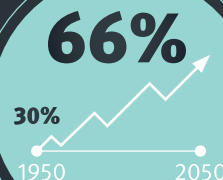


WILL HAVE **MORE THAN 10 MILLION INHABITANTS** BY 2030

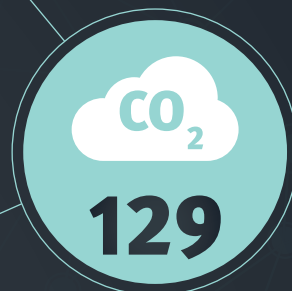
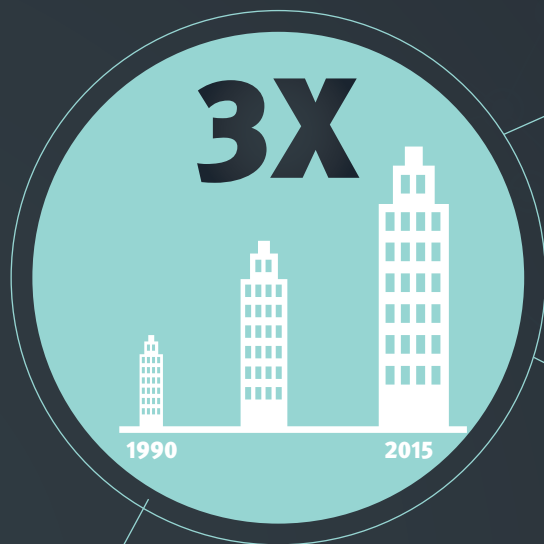


3.9
BILLION

PEOPLE ALREADY
LIVE IN CITIES



OF THE WORLD'S
POPULATION **WILL
BE LIVING IN URBAN
AREAS BY 2050**
(30% IN 1950)



Source: World Urbanization Prospects (United Nations)

Tomorrow is today



MIGRATION

THE ARRIVAL OF **NEW POPULATIONS** IS THE MAIN DRIVER OF URBANISATION, MUCH MORE THAN BIRTHS



AIR

INHALING AIR POLLUTION **TAKES AWAY AT LEAST 1-2 YEARS** OF A TYPICAL HUMAN LIFE



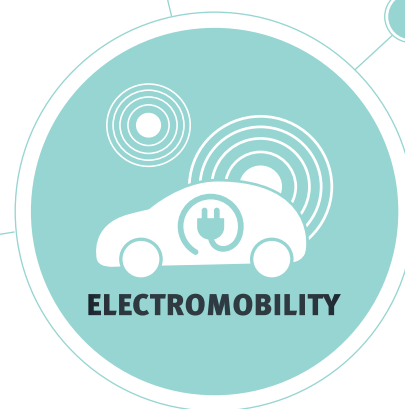
€161 BILLION

THIS IS THE **COST OF DEATHS CAUSED BY INVISIBLE POLLUTION** IN THE EU. IN USA, 50,000 PEOPLE DIE EVERY YEAR DUE TO AIR POLLUTION



BENEFITS

URBAN AREAS SCORE BETTER ON SOCIAL AND ECONOMIC INDICATORS SUCH AS **EDUCATION AND CHILD HEALTH**



ELECTROMOBILITY

WILL REPRESENT **20 MILLION OF EMISSION FREE VEHICLES** ON THE WORLD'S ROAD BY 2020



CRIME

THE NUMBER OF CRIMES IN A CITY IS SUPER-LINEAR WITH THE SIZE OF THE CITY. **WHEN THE POPULATION SIZE INCREASES BY 100%, THE INCIDENCE OF CRIME MAY INCREASE BY 120%**



STAY

62% OF PEOPLE SPEND MORE TIME IN PUBLIC AREAS WHEN THEY CAN USE THEIR TABLETS AND LAPTOPS VIA WIFI. SURROUNDINGS SHOPS AND FACILITIES REPORT 50% OF CUSTOMERS SPEND MORE MONEY TOO



EMERGENCY

IN USA, MORE THAN **1,000 LIVES ARE LOST EACH YEAR** IN THE BIGGEST CITIES **DUE TO LATE ARRIVAL OF THE EMERGENCY SERVICES**



NETWORK

ACCORDING TO THE BUSINESS CONSULTANCY FIRM GARTNER, APPROXIMATELY **26 BILLION NETWORKED DEVICES WILL BE LINKED TOGETHER IN THE INTERNET OF THINGS BY 2020**



SERVICES

A SURVEY IN THE UK (2020: WHAT DO PEOPLE WANT, NEED AND EXPECT FROM PUBLIC SERVICES) HAS SHOWN THAT **79% OF THE PUBLIC IS IN FAVOUR OF INCREASING OR EXTENDING SERVICES**

Sources: SciDev.Net, conserve-energy-future.com, West Virginia University, USA Today, smallbiztrends.com, Ipsos MORI, Gartner

Providing more with less

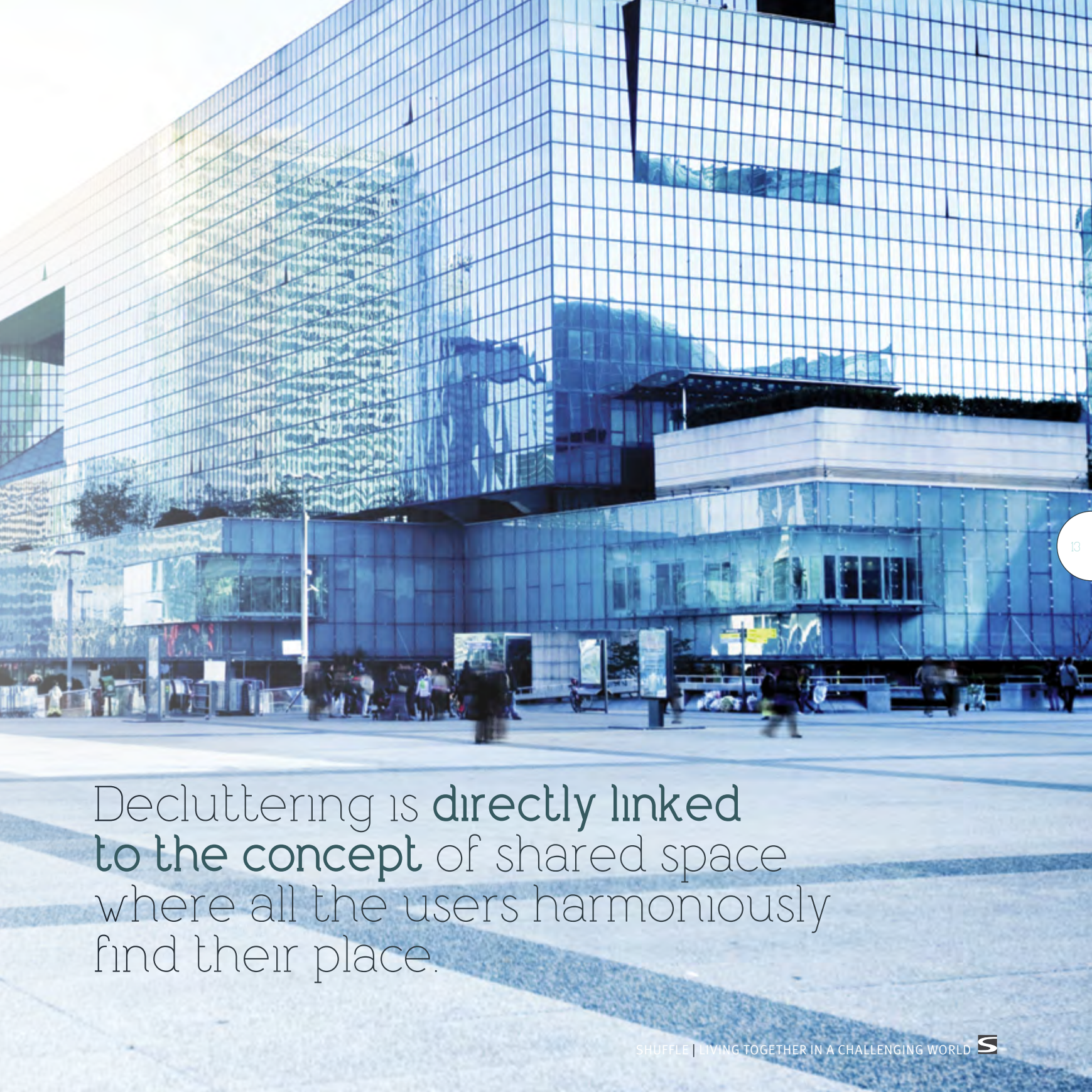
LESS MATERIALS IN THE LANDSCAPE AND BETTER INTEGRATED FEATURES. DECLUTTERING IS THE WAY TO RE-IMAGINE LIVING SPACES TO HELP REVITALISE THEM.

To remain as relevant and as important to communities and businesses as they have been in the past, public and private areas have to be re-designed to create a sense of place and to direct the movement.

Apart from the obvious aesthetic benefits of reducing the amount of intrusive street furniture, decluttering squares and streets makes them safer and more convivial. It provides a more open environment for people to share whilst enjoying a real sense of space and freedom.

Decluttering is directly linked to the concept of “shared space”, to facilitate participation in public life by as many individuals as possible. The quality of these shared spaces is a vital part of the user experience. The true sense of a place comes from how it makes the people who use it feel about themselves, and about their ability to engage with each other in the ways that they feel most comfortable. It has a direct and positive impact on local activities and businesses.





Decluttering is **directly linked**
to the concept of shared space
where all the users harmoniously
find their place.

WHY?

Added value

› **REINFORCING SAFETY FOR EVERYONE**

Studies have demonstrated that the proliferation of signs, barriers and urban furniture is not the right answer to ensure safety for every kind of user. A clear and clever design is much more efficient.

› **GIVING PEOPLE OWNERSHIP**

An open space allows people to use it with versatility and to share it better. If people use an area, they will pay more respect to this environment. This process can revitalise a whole district. People do not like to feel “suffocated”.

› **PRESERVING ARCHITECTURAL HERITAGE**

Avoiding additional supports and brackets for equipment such as cameras or loudspeakers is key to highlight the architecture and what creates the city’s identity. In this case, urban furniture has to be as neutral as possible to blend into the basic character of the place.

› **IT’S ALL ABOUT QUALITY**

When a space is decluttered, more attention is paid to choosing durable, vandal resistant and low maintenance solutions. The purpose and architectural quality are two major factors that justify the chosen options.

› **ENHANCING SOCIAL INTERACTIONS**

A well-designed street is one that respects the different needs of the people who use it. A street is almost by definition a stage or backdrop for social interaction. It should not prevent the activity it is intended to host.

› **REVITALISING TRADE**

Thinking of streets as places, rather than just passages for traffic, opens the door to exciting new designs that can help create places that people want to use and are proud of. Better designed streets create more social interaction and support local trade.



BENDIGO (AU)

The city centre has been redeveloped with a focus on public realm improvements to enhance pedestrian spaces.

SAVANNAH (US)

This American city has accommodated pedestrian and vehicular traffic throughout a network of zones, each with a central square. The configuration of the squares restrains vehicular traffic to low speeds.

BRIGHTON (UK)

By transforming a main road into a fully shared space, the city of Brighton reduced motorised traffic by 93% while increasing pedestrian traffic by 62% and cycling by 22%.

AUCKLAND (NZ)

The award-winning shared spaces programme of the city of Auckland aims to create the world's most liveable city. The City Centre Masterplan has transformed and revitalised the town and city centres into pedestrian-friendly destinations where people can shop, sit, relax, linger, dine and spend time.

DRACHTEN (NL)

In the Netherlands, this pioneer town noticed a yearly reduction in the number of accidents from 36 to 2.

The neutral affinity for tubeitecture

CYLINDER-SHAPED BUILDINGS AND STRUCTURES BRING A TOUCH OF HARMONY AND CHARM TO ARCHITECTURE. PEOPLE LIKE OBLONG FORMS. AS DEMONSTRATED IN A RECENT STUDY, CURVED SHAPES ARE APPRECIATED WORLDWIDE.

16 A curvy aesthetic design appears less aggressive and tends to integrate better than polygonal shapes using straight lines and clear angles. The cylindrical shape has always fascinated architects and designers. But this attraction is not limited to these experts.

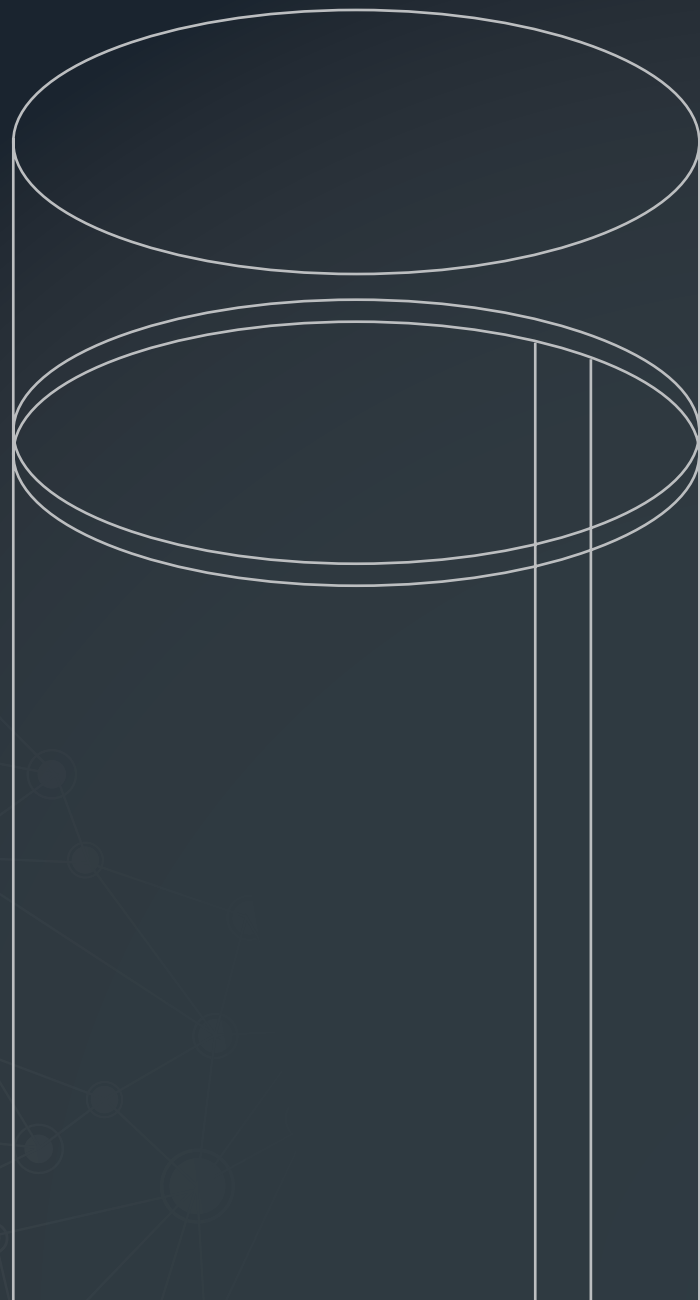
Recent research by a team from the University of Toronto led by the psychologist Oshin Vartanian and working in collaboration with designers in Europe has proven that this affection for curves is not a matter of personal taste.

The researchers captured the brain activity that occurred when the study participants looked at pictures. People looking at curved designs had

significantly more activity in a brain area called the anterior cingulate cortex - which reflects emotional involvement - compared to people who were observing linear shapes.

This recent study confirms the conclusions of Moshe Bar from the Harvard Medical School who discovered that people associate sharp objects with danger or threat whereas curved ones are seen as attractive and harmless.

If you want people to engage in an environment with confidence and positivity, a tube design is definitely a major consideration.



BMW BUILDING, MUNICH



TAJ MAHAL, INDIA



PANTHEON, ROME



PETRONAS TOWERS, KUALA LUMPUR



CARDO MAXIMUS, JORDAN



TORRE AGBAR, BARCELONA



MARINA CITY TWIN TOWERS, CHICAGO





Shuffle your world

REDESIGNING. REORGANISING. IMPROVING.
COMBINING. DO THEM ALL AT ONCE WITH THE
SHUFFLE, A NEW INTEGRATED CONCEPT WITH
UNLIMITED OPPORTUNITIES TO ENHANCE THE
QUALITY OF LIFE IN SOCIETY.

Information, identity, safety, communication, entertainment, health and mobility. Just imagine that you can fulfil and monitor all the societal needs in public and privately-owned areas with the same system. No need to multiply the devices each time you identify a need for your environment. All your different features can be gathered together in one complete network. Not cast in bronze, but with versatility and prepared for future evolutions.

The Shuffle is the absolute platform for managers of living spaces. It is our most human solution to date.

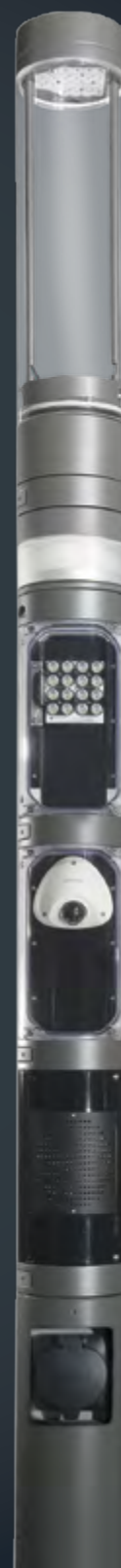
Do not limit
your challenges,
challenge your limits



5 star modularity

ONE MAIN POLE, ONE TO FIVE MODULES WITH
EVENTUALLY A SPACER BETWEEN TWO OF THEM.
A MULTITUDE OF COMBINATIONS TO SERVE
PEOPLE IN PUBLIC AREAS.
























WITH EASY FIXATIONS, ROTATABLE MODULES
AND PLUG-IN CONNECTIONS, THE SHUFFLE IS A
VERY HANDY AND FLEXIBLE TOOL. CHOOSE YOUR
COMBINATION, ATTACH THE MODULES, PLUG THE
CONNECTORS AND THE SHUFFLE IS READY TO
ENHANCE YOUR ENVIRONMENT.



Max 6,800mm

Min 2,500mm

| |
|---|
| 5 |
| 4 |
| 3 |
| 2 |
| 1 |
| P |

| |  360° LIGHTING  |  WLAN W/WO LIGHTING  |  WLAN ONLY  |  owlet CONTROLLER (LUCO OR PHOTOCCELL)* |  owlet MOTION DETECTION SENSOR |  LIGHTING: REFLECTOR  |  LIGHTING: LENSOFLEX®2  |  LIGHTING: SPOT  |  CCTV  |  LOUDSPEAKER  |  EV CHARGER  |  LIGHT RING  |  SPACER (ONE PER SHUFFLE) |
|--|--|---|--|--|---|--|--|---|---|--|---|---|--|
| | Ø 193mm Height 816mm | Ø 193mm Height 816mm | Ø 193mm Height 380mm (excluding antennas) | | | Ø 193mm Height 380mm | Ø 193mm Height 380mm | Ø 193mm Height 380mm | Ø 193mm Height 380mm | Ø 193mm Height 380mm | Ø 193mm Embedded in the pole (base section) | Ø 193mm Height 190mm | Ø 193mm Height 760mm/ 1140mm/ 1520mm |
| | ✓ | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ | ✓ | ✓ | ✓ | ✗ | ✓ | ✗ |
| | ✗ | ✗ | ✗ | ✗ | ✗ | ✓ | ✓ | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| | ✗ | ✗ | ✗ | ✗ | ✗ | ✓ | ✓ | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| | ✗ | ✗ | ✗ | ✗ | ✗ | ✓ | ✓ | ✓ | ✓ | ✓ | ✗ | ✗ | ✓ |
| | ✗ | ✗ | ✗ | ✗ | ✗ | ✓ | ✓ | ✓ | ✓ | ✓ | ✗ | ✗ | ✗ |
| | ✗ | ✗ | ✗ | ✗ | ✓ | ✗ | ✗ | ✗ | ✗ | ✗ | ✓ | ✗ | ✗ |

✓ Available ✗ Not available

* Only inside a lighting module

Lighting



360° LensoFlex®2

Street lighting / Ambiance lighting / Pedestrian crossing lighting

- › Lumen package range: from 2,400 to 4,200lm*
- › Back-light control (optional)
- › Neutral or warm white LEDs

owlet

Controls

For autonomous or interoperable networks (managing, monitoring, controlling and metering) with or without detection scenarios (PIR sensor)

One controller can command all the lighting modules of a Shuffle and propose different scenarios per module. Controllers are able to communicate together in a local or remote network.



180° LensoFlex®2

Street lighting

- › Lumen package range: from 2,500 to 4,000lm*
- › Back-light control (optional)
- › Neutral or warm white LEDs



180° reflector

Down: Street lighting / Ambiance lighting / Area lighting
Up: Architectural lighting

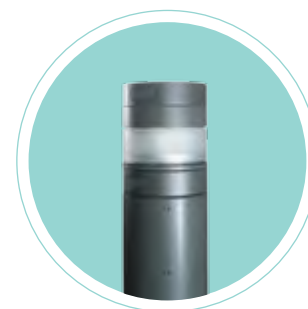
- › Lumen package range: from 3,200 to 5,700lm*
- › Neutral or warm white LEDs



Spot

Up/down (on-site adjustment): Architectural lighting

- › Lumen package range: from 1,600 to 2,100lm*
- › On-site inclination angle settings: -10/+40°
- › Neutral or warm white LEDs



Light ring

Signage / beautification (identity) / creation of ambiance

- › ON / OFF / Flashing mode

* Typical luminaire output @ tq 25°C - neutral white (4,000K) LEDs

Beyond lighting



WLAN

Professional and secure wireless network

- › Available in a 360° lighting module or in a dedicated module
- › Mesh network
- › 2 versions: short range (30 to 50m) or wide range (up to 150m)
- › Dividable bandwidth: e.g. to assign a dedicated part to city operators and a restricted bandwidth for the general public



CCTV

Professional camera network

- › HD 1920 x 1080 / angular field of view: H: 103.1° / V: 53.9° / D: 124.5°
- › Image optimisation (back-light, contrasts, night vision, high luminosity)
- › Privacy layers
- › ONVIF communication standard
- › Event triggering: motion detection, video analytics, tampering...
- › Data optimisation: selected and/or delayed transmission, on-site recording (SD memory slot)
- › On-site tilting settings: +45°/-45°



Loudspeaker

Professional sound system

- › 100V public address system
- › Frequency range: 100 – 18,000Hz
- › Perfect sound - 20W power output
- › Weatherproof / adapted to indoor and outdoor applications



EV charger

Professional charging station

- › AC charging
- › Sockets for all continents
- › Lock recognition
- › Magnetic safety during charging
- › Theft/vandalism protection

Plug and play philosophy

DESIGNED TO
OFFER VERSATILE
COMBINATIONS AND AN
EASY INSTALLATION,
THE SHUFFLE IS A
VERY HANDY SYSTEM
FOR INSTALLATION
CONTRACTORS.

Taking advantage of a unique energy supply grid to deploy multiple services, the Shuffle gathers all features together in one single pole.

All the modules are delivered pre-wired. Quick connectors and a fool-proof mounting system guarantee a very easy and quick on-site installation.

The cabling - whether it concerns the power supply, internet connexion, sound or another integrated option - arrives in a dedicated box at the bottom of the pole.

Access to the fuses, mains and dedicated connections can be gained by opening a door.

This smart design means that the modules do not need to be opened and speeds up the installation process.





ON-SITE ADJUSTMENT

The inclination angle for the spot module can be adjusted on-site with a range of 50°: from +10° to -40° for downlighting and from -10° to +40° for uplighting.



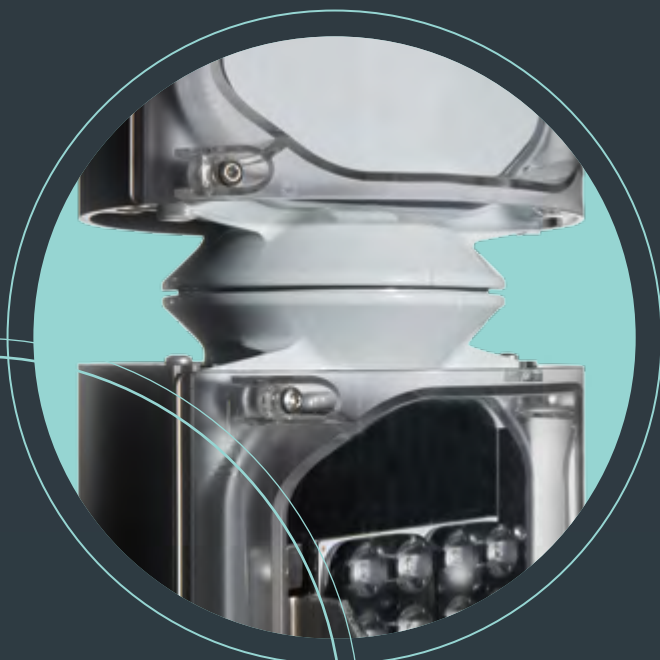
CAMERA ANGLE ADJUSTMENT

To ensure that the camera covers the required area, the position can be fine-tuned on-site while the camera is filming. It is thus possible to see the image live and to be certain that the chosen angle provides the necessary coverage. The angle can be adjusted from -45° (down) to 45° (up).



QUICK CONNECTORS

The Shuffle modules are delivered pre-wired and equipped with quick connectors to gather the different power supplies (e.g. the WLAN is powered 24h a day and the lighting modules only at night) and control features.



EASY MOUNTING SYSTEM

The flare male and female parts of the modules are designed to smoothly overlap. They encompass gaskets. Two clamps lock them together to ensure the perfect tightness of each module and to join the modules in a single column. The rotatable modules can be oriented in the desired direction before the final lock. Dedicated embellishment parts hide the screws once the modules are locked, providing a smooth finish for the whole column.







See and
be seen

Enjoy

Lighting

ALL THE LIGHT REQUIREMENTS IN ONE COLUMN

- › **Road, street, square**
- › **Ambiance**
- › **Pedestrian crossing**
- › **Architectural**
- › **Accent**

The Shuffle combines state-of-the art LED lighting technology and a wide range of photometries (from intensive to extensive, symmetrical and asymmetrical, with or without a back light control system) adapted to various applications such as roads, streets, squares, pedestrian crossings, footpaths and architectural lighting.

This exceptional flexibility is possible thanks to the use of three types of photometric engines developed by Schröder – LensoFlex®2, reflectors and collimators (spot) – and multiple driving currents to meet the requirements of diverse applications. The light ring is a multi-purpose tool to reinforce identity, to guide people and to create ambiance.

The high efficiency of the Shuffle can be further extended with numerous control options such as smart drivers, sensors and remote management.



WLAN

“ALWAYS ON” LIFESTYLE

- › **2 versions: urban scale and campus scale**
- › **High broadband speed (up to 600 Mbps)**
- › **Possibility to split the bandwidth for dedicated services**

Providing reliable public Wi-Fi to meet consumer and urban demands is key to creating more enjoyable experiences for both tourists and residents. Today, people are not just accessing data more often, they are accessing more of it, and the “always on” lifestyle requires a constant Wi-Fi coverage to keep up with people wherever they go. Public spaces equipped with Wi-Fi are perceived as more fun, more convenient and business friendly.

The Shuffle offers two wireless internet solutions. The campus scale solution works like an extension of an existing network in a limited area (short range). It is particularly suited to shopping centres, business complexes or residential campus.

The urban scale solution (wide range; up to 150m) creates a new mesh network allowing numerous users to be connected at the same time. The bandwidth can be customised to dedicate a part of it for the exclusive use of the public services. The remaining bandwidth can be offered for free or through a paying system.

The wireless internet modules of the Shuffle can create networks for numerous applications from public hotspots to managing mobile workforces including smart grid, automation, public safety systems and services, CCTV and intelligent mobility.

Stay connected on the move. Stay connected wherever you are.

connect



share



feel
safe

relax

CCTV

KEEPING AN EYE OPEN

- › **Optimised images (HD, contrast management, night vision)**
- › **Optimised data management (adjustable image quality, selected/delayed transmission, on-site storage)**
- › **ONVIF communication standard**
- › **Event triggering**

Freedom of mind. It comes from a feeling of safety and well-being. Combined with quality lighting, CCTV cameras are one of the most efficient tools to reduce crime and increase public safety. As illustrated in a 2013 New York Times/CBS Poll, people are asking for them. No less than 78% of the participants support the use of surveillance cameras.

The Shuffle integrates a superior compact CCTV camera with perfect night vision efficiency, high brightness compensation, temperature variation resistance and advanced event detections in an IP 66 / IK 09 module.

Motion, face detection and video analysis can trigger the camera to restrict the amount of transmitted data to relevant information.

The question of personal privacy is taken into account thanks to masking one or several of the 32 zones of the camera image.





Loudspeaker

SOUND SYSTEM

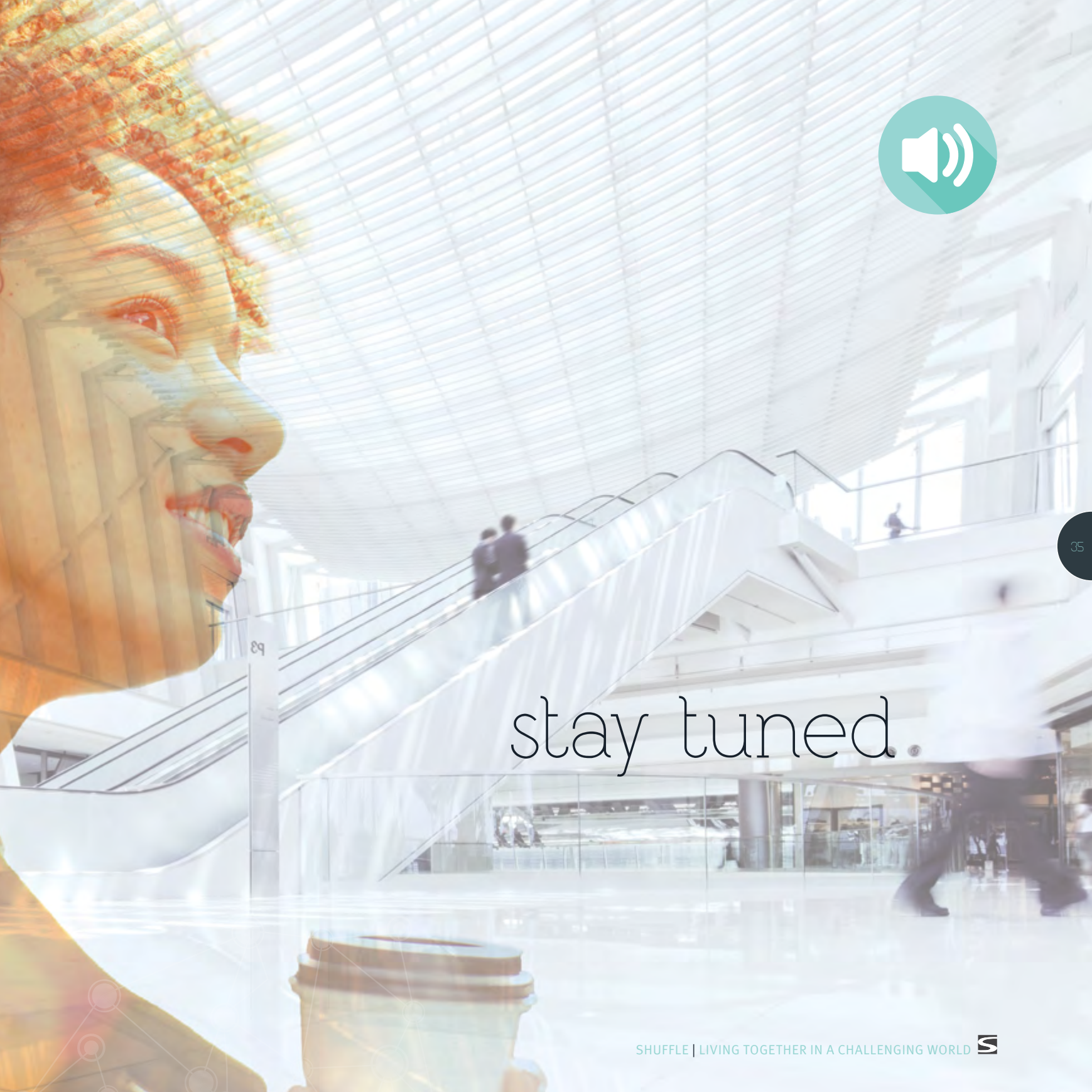
- › **Public address system**
- › **Perfect sound**
- › **Weatherproof**
- › **Adapted to indoor and outdoor applications**

Music soothes the soul. Creating a nice and relaxing atmosphere puts people in the perfect mood to enjoy spending time in an environment. Independent MusicWorks research has proven the benefits music can offer in both public and private spaces. For instance, 90% of the participants replied that they are more likely to recommend a place that plays music, 78% say music makes a place more sociable and 80% agree that music is important in creating the ideal atmosphere.

The Shuffle offers an integrated sound system dedicated to open spaces. Based on a public address system, it perfectly suits large environments. The sound can be broadcast in a specific direction to enhance the atmosphere. The sound system can also be used for advertisements and public service announcements.



be
informed



stay tuned.





recharge

stay mobile



EV charger

A BREATH OF FRESH AIR

- › **AC charging station**
- › **Plugs and sockets for all continents**
- › **Lock recognition / incorporated magnetic safety**

Suburban commuters, travelling by car, are a leading source of vehicular carbon emissions. Cities have started to ban the worst polluting vehicles. But at the same time, they need to promote alternative means of transport including electric vehicles. Up to now, electric vehicles only represent a fraction of the market share but their annual sales are steadily increasing and the technology keeps evolving. The cost of batteries is coming down faster than expected, meaning more and more people are now considering buying an electric car in the near future.

Incentives like dedicated city car parks (whether free or paying) and charging points will reinforce this virtuous circle. Taking advantage of the existing electrical grid, the Shuffle includes an advanced AC charging station to offer an integrated solution for E-Mobility. With more charging points available, mobility will become greener and the air in the city purer.

Light ring

EYE-CATCHING AND PERFORMING LANDMARK

- › **Identity**
- › **Signage (on/off or flashing mode)**
- › **White, blue, green or red**

A touch of colour creates identity and a vivid ambience. But the light ring embedded in the Shuffle is not only about aesthetics. It is a useful tool to inform and manage people in public and private spaces. In flashing mode, it can guide a crowd in the right direction in an emergency situation.

The switch from red to green can indicate to drivers of approaching electric vehicles that an EV charging point has just become free. A light ring flashing in a wide open space can direct the emergency services faster to the place where an accident has occurred. Your imagination is the only limit to how the light ring can be used.

beautify

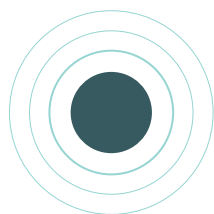


be guided
and informed

Light-on-demand

THANKS TO THE OWLET CONTROL SOLUTIONS, AVAILABLE AS OPTIONS IN THE SHUFFLE, PROVIDING INCREASED SAFETY AND A SENSE OF WELL-BEING FOR PEOPLE CAN BE ACHIEVED WITH MINIMISED ENERGY AND MAINTENANCE COSTS.

OWLET OFFERS 3 TYPES OF CONTROL SOLUTIONS, FROM BASIC TO ADVANCED.

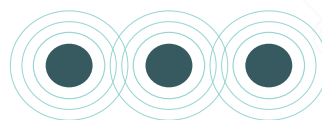


STAND-ALONE SOLUTIONS

EACH LUMINAIRE IS FITTED WITH A CONTROL UNIT AND CAN BE MANAGED INDEPENDENTLY.

Owlet stand-alone solutions encompass:

- › intelligent drivers with features such as an astronomical clock for a constant adaptation of the dimming profile, constant light output (CLO) to eliminate overlighting and scheduled dimming with multi-level programmes;
- › integrated photocells to switch the luminaire on or off following the level of natural light;
- › motion detection sensors that provide interactive dimming.



AUTONOMOUS NETWORK

The Autonomous Network Dimming system enables luminaires to communicate together in a wireless network to provide dynamic profile dimming. This system can be enhanced with motion detection sensors. When movement is detected, the detection scenario supplants the dimming scenario to provide safety and comfort for users. The sensors can be centralised or decentralised. Each luminaire is fitted with a control unit and can be managed independently.



INTEROPERABLE NETWORK

The Schröder Owlet Nightshift is a remote control system for monitoring, metering and managing a lighting network. It is a unique combination of state-of-the-art technology and an easy-to-use web interface to control each luminaire at all times from anywhere in the world. Thanks to bi-directional communication, the operating status, energy consumption and possible failures can be monitored.





Case study





Large squares

OFFERING A PLEASANT
AND SECURE
ENVIRONMENT WITH
MODERN FACILITIES

For this large square (about 10,000m²), the Shuffle provides the ultimate safety, comfort, well-being and ambiance in an elegant way.

The high-quality lighting and the modern features offered to residents and visitors make this environment a natural meeting place where people like to spend time together.

The multi-functional scheme encourages social interactions and makes people proud of their city.

CONNECTED FOR FREE



Residents or employees of the surrounding areas continue their leisure or working activities on the square thanks to free Wi-Fi access to the internet. As soon as the weather conditions allow it, they enjoy taking a breath of fresh air and meeting some friends in the square while keeping an eye on their mails.

Visitors and travellers can use the hotspot to discover what the city has to offer during their visit.

People are delighted by the pleasant atmosphere so they take photos and selfies to publish on their social media pages or tag themselves with localisation applications, freely promoting the city and boosting its identity all over the world.



SOUND ATMOSPHERE



A local radio broadcasts live on the square. The mix of music - with dedicated slots for local artists - and local news constitute the majority of the programme. The sound system is also used to broadcast public service announcements and dedicated music for special events, such as the popular weekly yoga class that attracts a lot of people to the square on Sunday morning.



SAFE ENVIRONMENT

As pleasant as it can be, a public area can easily turn into a hazardous or dangerous place if the right actions are not taken to preserve it from harmful people. A CCTV network on the square can dissuade crime and help security services manage unexpected incidents thanks to event triggering features.

Vulnerable people such as women and children feel more confident to spend time on the square and take full advantage of it.



CIVIC PRIDE



The square becomes an iconic landscape in the city. The services offered to people make it a very popular spot for residents and visitors. Its identity is enhanced by the blue light ring incorporated into each Shuffle installed on the four sides of the square. This blue was chosen as it is the emblematic colour of the city.

Citizens are proud to say that they live near this square. They like it and are particularly careful to preserve it from any damage.





LIGHTING NETWORK

A combination of various photometric solutions has been implemented to light the square. On each border, the 360° LensoFlex®2 modules were chosen with an extensive light distribution while the three internal rows of Shuffle are equipped with three reflector modules each.

Around the statue, four Shuffle were equipped with a spot module directed at this impressive piece of art.

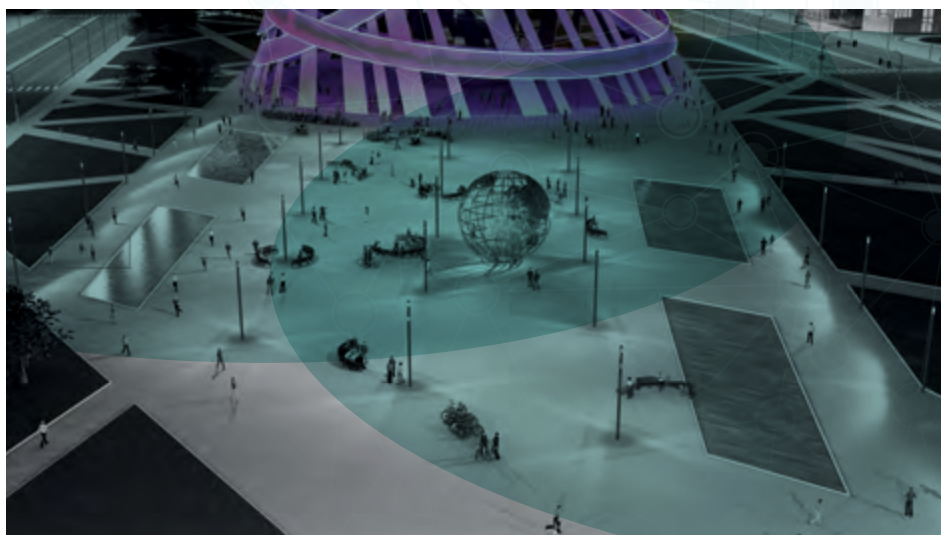
With the exception of the spot modules, all the modules are dimmed late at night thanks to a LuCo controller integrated into each Shuffle.



WLAN NETWORK

Thanks to the wide range of broadband (up to 150m), only two WLAN modules were needed to cover the entire square and provide a free and fast internet connection to a large number of users. The WLAN modules were integrated into the 360° modules of the two most remote Shuffles.

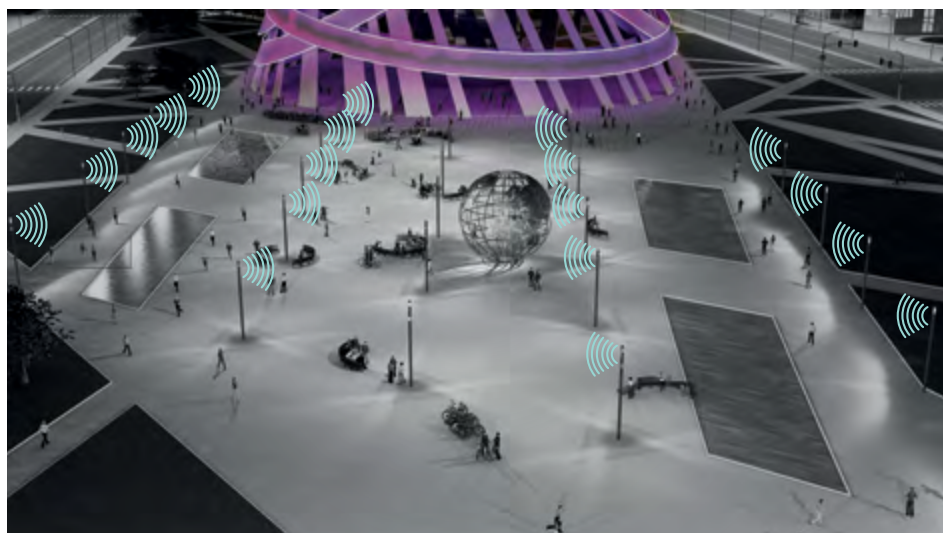
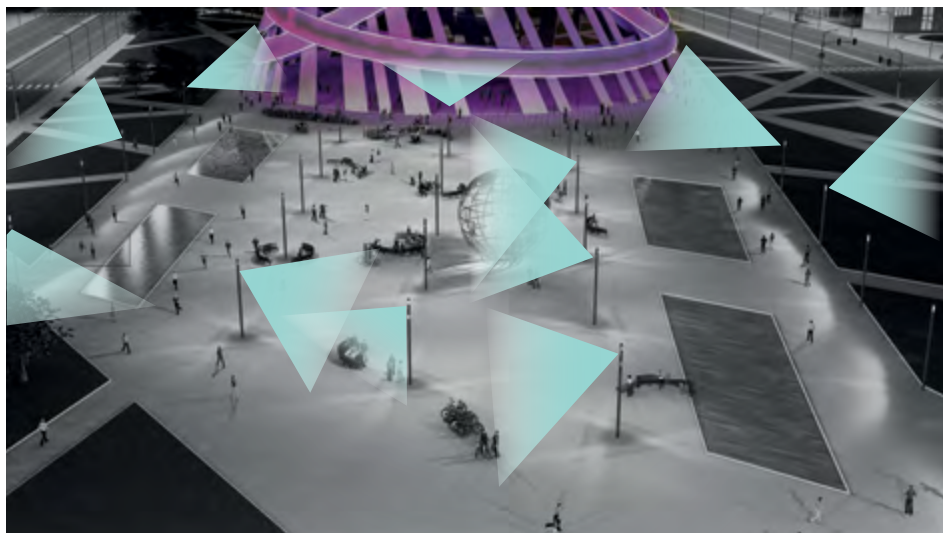
The overlap area around the statue ensures that the only place where the two modules are not in sight of each other is perfectly covered as well.



CCTV NETWORK



With 12 CCTV cameras integrated into the Shuffle columns, all the entrances and critical areas are covered by the surveillance system. Security managers can observe the square and if necessary, use the digital zoom to see precisely what is happening. Thus they are able to take the required steps to prevent any trouble and inappropriate behaviour.



SOUND NETWORK



Twenty loudspeakers directed towards the centre of the square provide perfect sound for the area without disturbing the neighbourhood.



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