

bGrid®

the smart building network that enables every smart application

powered by **Deerns**


Deerns: European leader in engineering consultancy for technical systems

The most sustainable and smartest buildings

Deerns

Mechanical, electrical,
automation, building
physics and energy
engineering solutions

22 global offices,
650 + experts and
engineers, patented
technologies

100 projects
With BREEAM
and LEED

Smart Building
EcoSystem
Partners:
Evalan, MAPIQ,
OVG , WinVision,
CGI, ...

Member of
The Green Grid,
National Green
Building Councils,
EGBC

Projects: €12,500,000,000
Revenue: € 75,000,000
(2015)

We help you catch a
coffee and your airplane.

We make a difference
for the purpose of your
building

bGrid

the smart building network that
enables every smart application





Fast changing use and users requires flexibility

Fast developing technology enables & initiates change



I forgot my security card!

I can't find my Stuff!

I can't find my colleague!

This place needs to be cleaned

Does this really need to be cleaned?

Are my people Happy?

Are my people Healthy

How much Real estate do I really need?

Internet of too many Things

Are flexible work places really that efficient?

I can't work In this heat

I can't find a Conference room

> 30 minutes of searching for free workspace

Sustainable Building Maybe

Sustainable Usage No

I can't park my car!



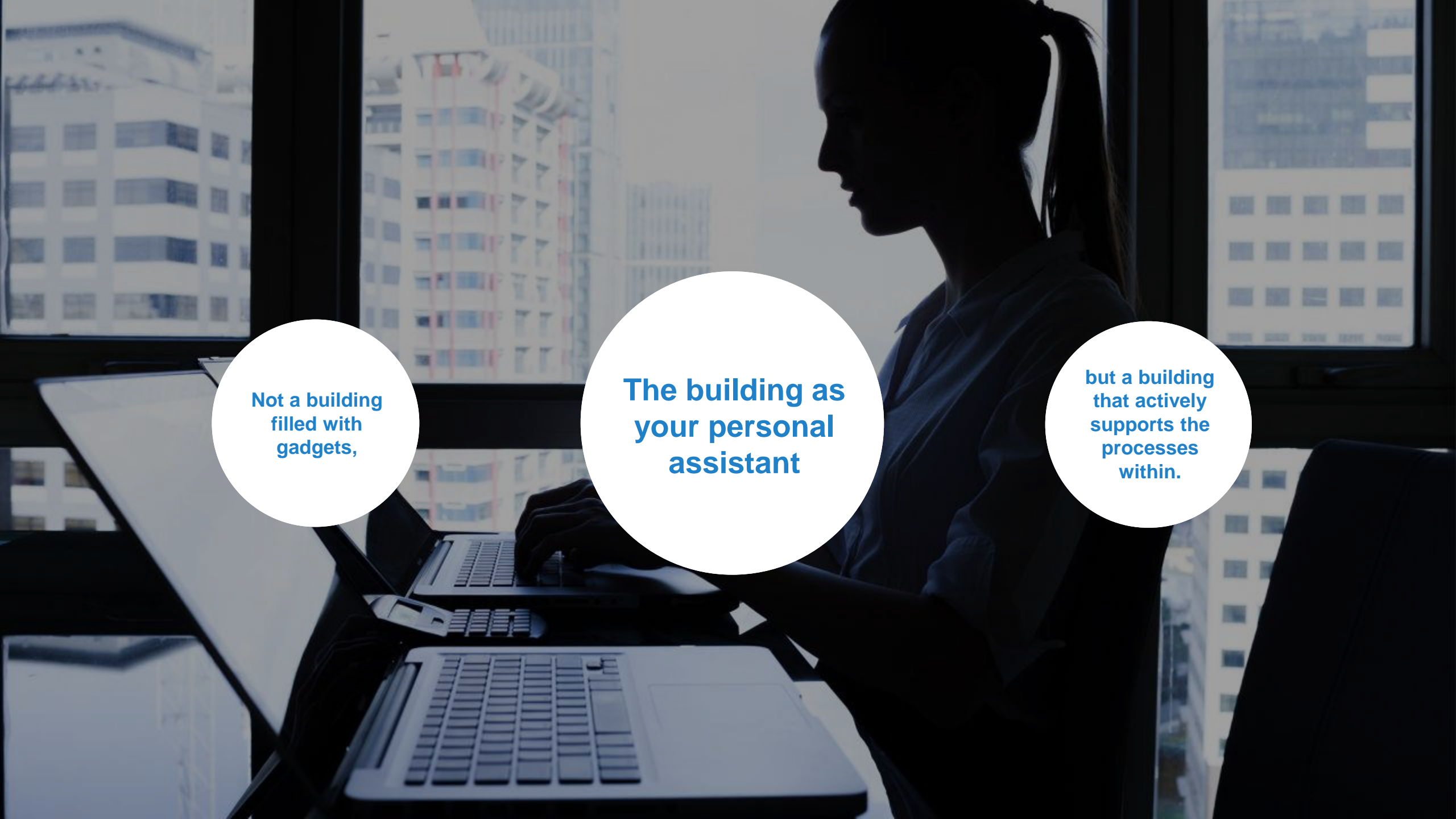
Integration of Things

- Integrated smart functionality
- One user interface
- One secure network
- Perfect solution for today, smart enough for tomorrow

Internet of too many Things

- Many applications, many interfaces
- Many vendors, many security leaks
- Many stand-alone solutions
- Many different networks





**Not a building
filled with
gadgets,**

**The building as
your personal
assistant**

**but a building
that actively
supports the
processes
within.**

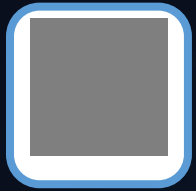
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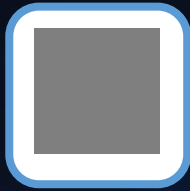
powered by **Deerns**



Employee



Room Booking



Indoor Positioning



Workplace Finder



Colleague Finder



Personal Comfort



Smart Parking



Comfort that follows

Facility Manager



Smart Cleaning



Predictive Maintenance



Smart Security



Asset Tracking



bOS

Open Cloud Platform

Real Estate Manager



Building Analytics



Employee Satisfaction



Property Value



Energy Efficiency



Lighting



Ventilation



Heating & Cooling



iBeacon



Positioning



Asset tracking



Blinds

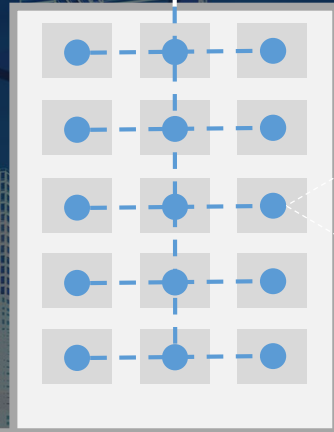


Phone



Etc.

Connects with Everything



bGrid® Node



Presence & Localisation



Temperature



Humidity



Light



CO₂



Sound

Built in sensors

bGrid® Smart Building network

The office building as a smart phone – bGrid



Open &
standardized
Smart Building
Platform

Allowing third
party devices
and apps

Portfolio of
standardized
apps

Install new
functions when
you need them

bGrid®

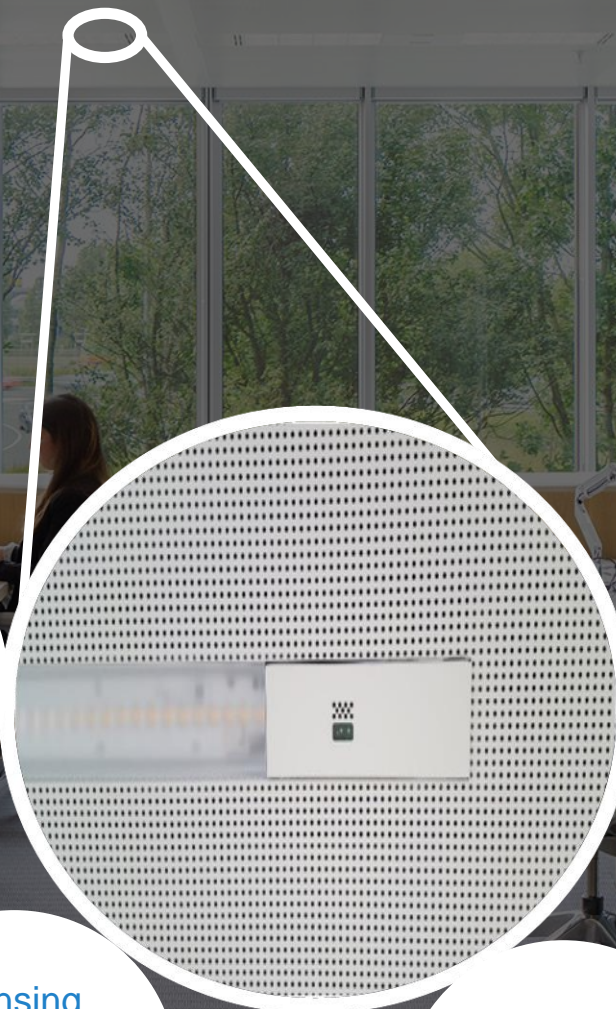
Wireless, open & integrated backbone
for all technical communication

Accurate real
time positioning

Smart control of
devices (light,
...)

Sensing
(comfort,
surroundings,
activity, ...)

Low energy
communication
& devices



All Functionalities Enabled by bGrid[®]

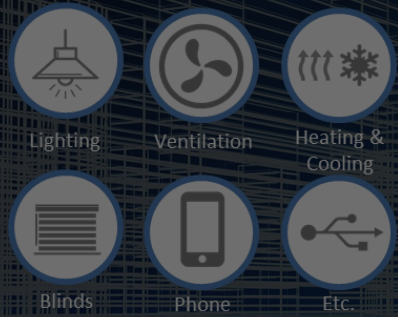
Employee

Facility Manager

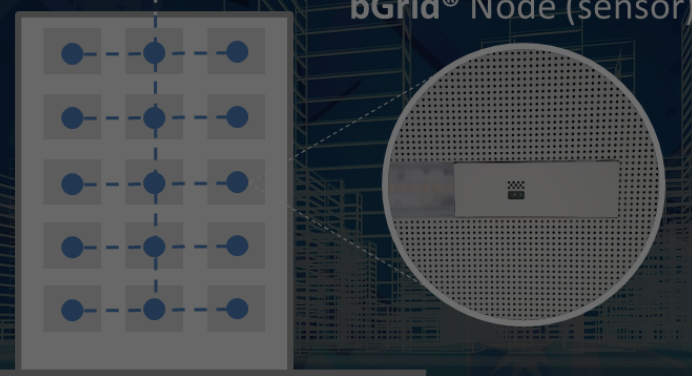
Real Estate Manager

Full bandwidth
of functionalities

Open platform



Connects with Everything



bGrid[®] Wireless Sensor Network



Built in sensors

bGrid®, the smart building network that enables every smart application

Now... and in the future

Life implementation



Smart building
user experience



Building usage
analytics

Update real estate
strategy & need



Renovation
Green field

Ever

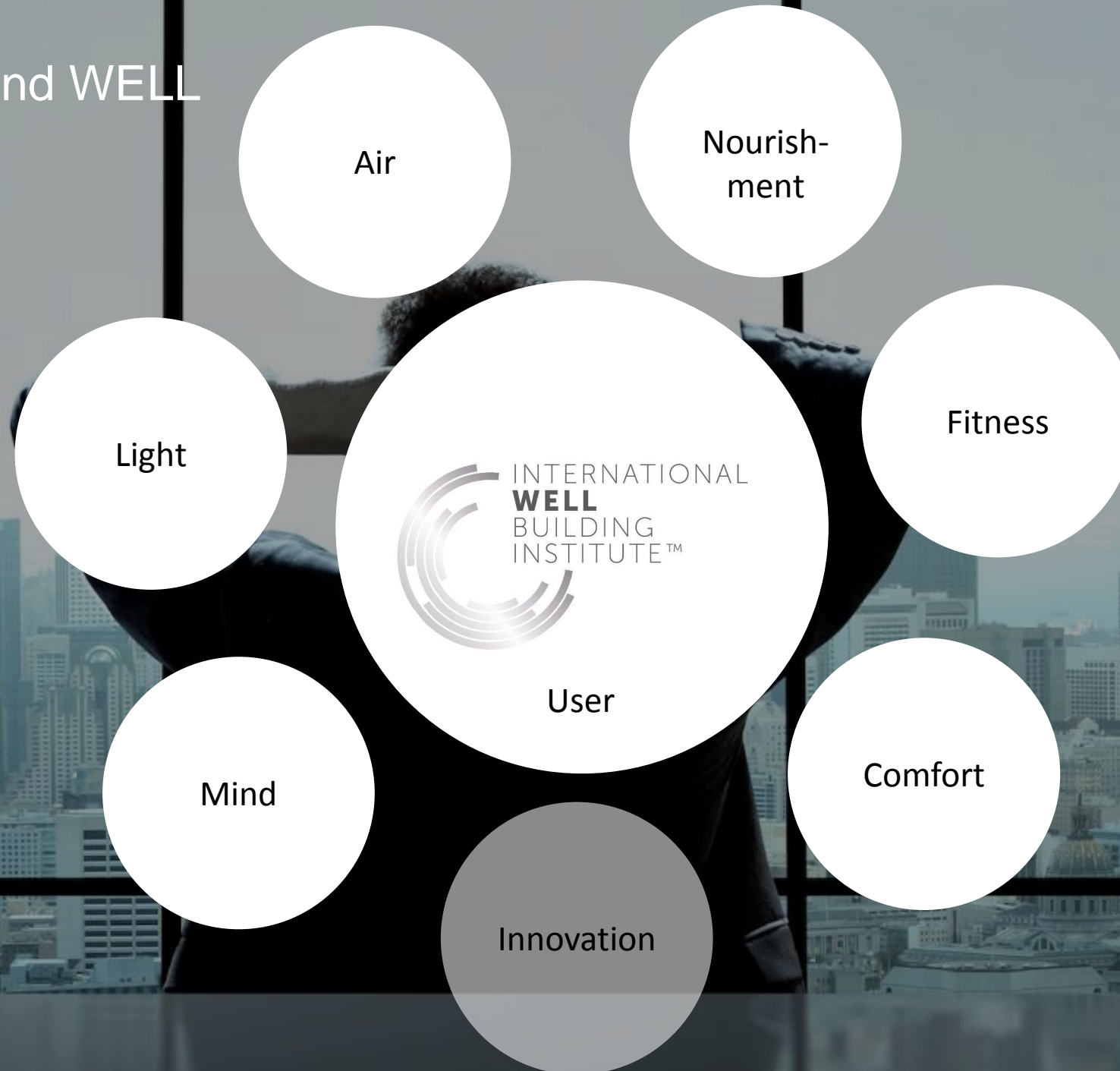
Evolving

Personal Assistant
for
user, manager
& owner

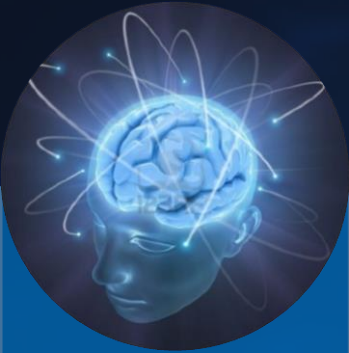
Smart
building



Smart Building and WELL



WELL and Smart Building



Mind

User feedback

Less stress

Self monitoring



Light

Sunlight harvesting

Personal light settings

Visual comfort



Air

Smart ventilation

VOC reduction

Cleaning protocol



Comfort

Personal thermal comfort

Personal light settings

Free workplace finding



Fitness

Activity programs

Active building design

Active furnishings



Nourishment

Order Food

Mindful eating

Smart food storage



Water

Water quality testing

Water treatment

Legionella prevention

Smart Building

We help you
use your office
effectively.

And do your work.

bGrid

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We let you find your
colleague.

And a quiet workplace.

bGrid

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enables every smart application



We help you
clean your office
where necessary.

And manage
your assets.

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The Edge



SPARK



Drenthe College



Rijkswaterstaat



Unilever, USA



ING De Entree

Most buildings are
sustainable and
comfortable workplaces.

Ours are a tool
for its users.

bGrid

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