This presentation was live at:



18-19 October 2023 • ExCel London



Automated shading for multi-dwelling developments

Smart Building Show 2023

Chris Janes





Automated shading for multi-dwelling developments

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Agenda of today's presentation

- Introduction to Qmotion
- 2. Window treatment typical Options
- 3. Applications (buildings)
- 4. Why use window treatments?
- 5. Motorised Blinds and Curtains
- Automation
 - types of automation
 - benefits of automation
- 7. Options for developers
- 8. Case study South Quay Plaza
- 8. Further learning
- 9. Q & A



Who is QMotion

QMotion Advanced Shading Solutions is headquartered in Pensacola Florida QMotion is proud to have become part of **legrand** in December 2015. QMotion EMEA manufactures finished product and is located in Milton Keynes UK.





Window treatment options

Blinds

Roller Blinds

Roman Blinds

Pleated Blinds

Honeycombe Blinds

Exterior blinds







Functional and Practical benefits

Reduce solar gain Reduce heat loss Minimise glare **Functional** Block unwanted light **UV** protection Improve acoustics Security & privicy

Interior design & Style Easy to use External aesthetics **Practical** Adaptable Easy to maintain Motorised



Solar Gain & winter heat loss

Research in Spain: External window shutters: 14% less energy required for cooling systems



Internal blinds and shutters can reduce heat loss through windows by between 13% to 33%.

Source:

- 1. Guardian report 27/08/2023 'How to stay cool without aircon'
- 2. BBSA commissioned study with University of Salford dated March 23



Solar Gain

Part O of the building regulations – June 2022

New buildings must be designed and constructed to:

- Limit unwanted solar gains in summer.
- Provide an adequate means of removing excess heat from the indoor environment.





Fabric Types

Black out

Translucent

Sheer

100 % UV protection

Ideal for bedrooms, cinema rooms

V High UV protection

Some light in but cannot see through

Low to high UV protection

Solar screen but light to room and see through

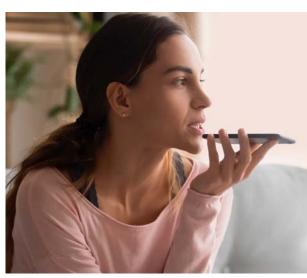








Convenience

















Practicality

Dual Blinds



Multiple blinds





Accessibility

- Disability or physical impairment
- Difficult to reach locations



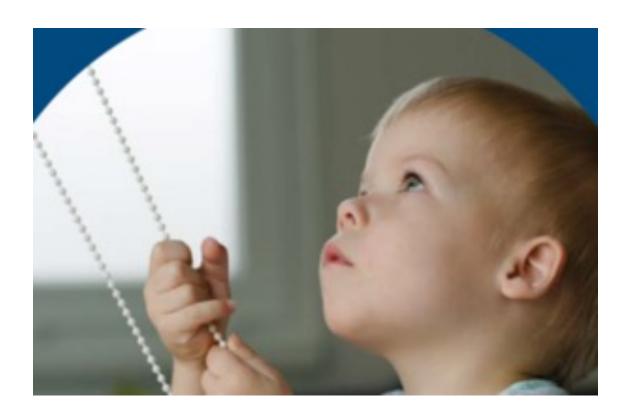


Safety

No cords!

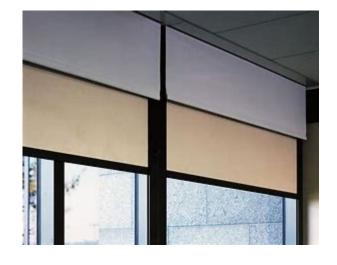
-eliminate the hazard for children & pets.

Blinds installed (from 2014) with looped cords must have child safety devices installed at the point of manufacture or sold with the blind.





Automation



Part of a 'smart home' solution:

- Control all your devices from a single app or smart home hub.

Activate with scenes, timers, sensors, weather conditions

Improved Energy efficiency

Integrate with BMS



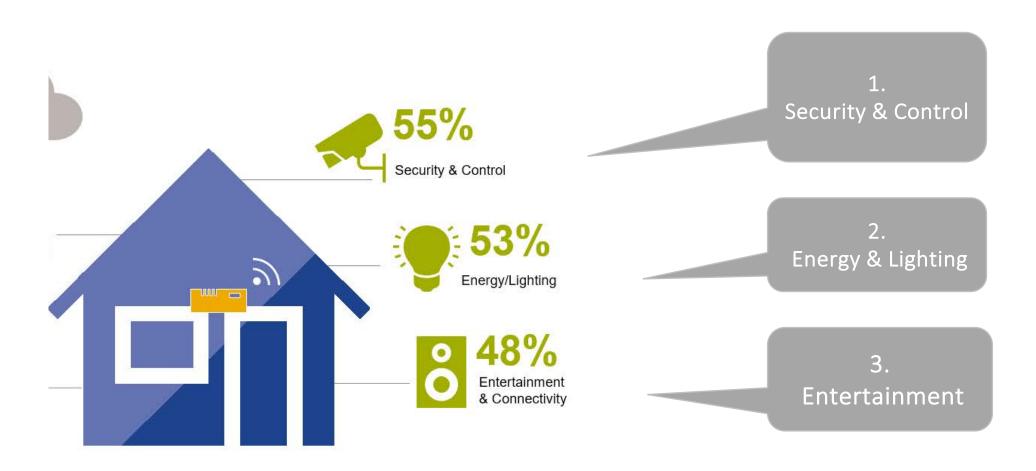
Benefits of Automation

Heat Regulation Convenience **Control options Security** Apps/ voice/ keypad control Whole home control Scenes and events timers Virtual occupancy Visual screening Preemptive ∞ Sensors



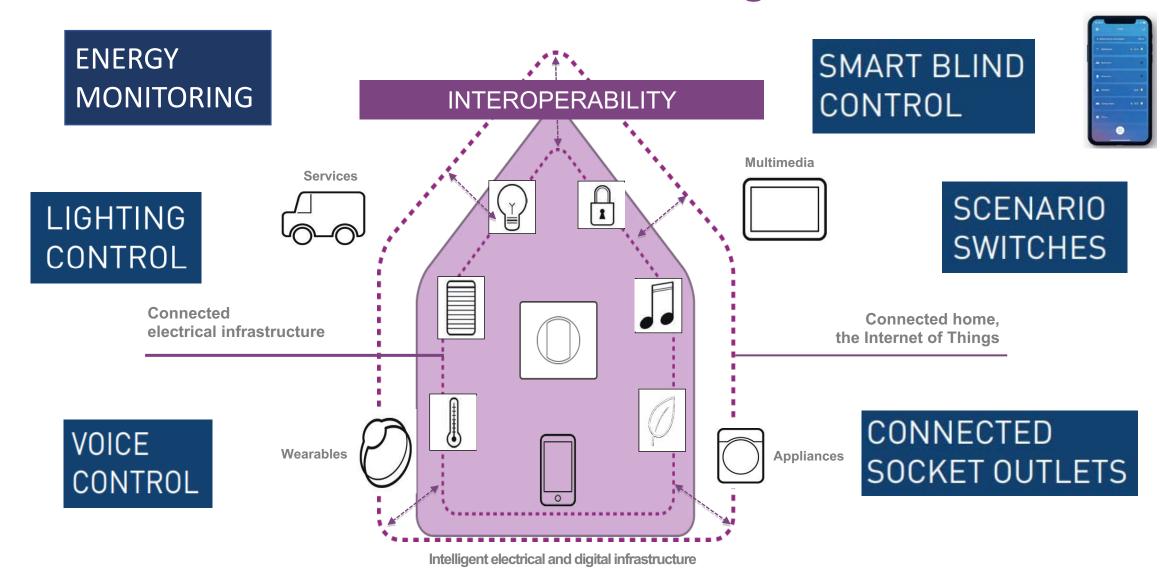
Benefits of Automation

End-user expectations





Connected buildings





Options for developers



Option	Benefit
Standard Fit motorised	Added value and consistent look and feel (outside aesthetics)
Standard fit manual (upgradable)	add battery motorisation and wireless automation day 2
Low-cost wire only (Cat6)	Sell shading packages to homeowners



Options for developers



Option	Benefit
Offer battery powered wireless blinds	Added value and consistent look and feel (outside aesthetics)
Offer pre-defined packages for pre-wired installations	Add battery motorized blinds and wireless automation day 2
Low-cost wire only	Sell shading packages to homeowners



Case studies









Do you have any questions?





THANK YOU FOR YOUR TIME



9-10 October 2024 • ExCeL London

We look forward to seeing you in 2024