





The Presenter

Andy Dean FCIOB FSFE

2





Andy has over 30 years of experience in the field of Building and Construction, ranging from structural testing within the nuclear industry to fire testing. Having established the Dubai Facade Technology Centre and Laboratory in 1997, and operated it for 10 years, he has particular knowledge of the design and weathertightness testing of facades, curtain walling and building envelope systems; and business life in the Middle East.

He has carried out many consultancy projects as a third-party specialist in the field of building envelope technology and combines that with his fire industry experience to deliver added value.

Over the last 5 years he has had a strong focus on the refurbishment and technical performance enhancement of façades on several major buildings in the region, as they have come to the end of their first life cycle.

Andy is a Fellow of the Chartered Institute of Building, Fellow of the Society of Façade Engineers (CIBSE) and member of the Glass and Glazing Federation; holding or having held senior committee positions in the local chapters of these organisations.

As a façade consultant he continues to provide input into the GCC codes and is a regular speaker at industry technical seminars across the region.

Copyright Materials

This presentation is protected by international copyright laws. Reproduction, distribution, display and use of the presentation without written permission of the speaker is prohibited.

© WSP Middle East 2019







Learning Objectives / Agenda



- Context façade refurbs
- Sectors
- Factors
- Opinions
- Conclusions



Context - Arabian Peninsula - Older History























Context - Arabian Peninsula - Recent History





















Sources: The National, Pintrest, Glinka, Trip Advisor, Kingdom Centre, Property Finder, Wikipedia, Alumaco, Ardalan Associates





Fires in the UAE

















Sources: Emirates 24/7, The National, Khaleej Times, Gulf News, Irish Mirror, Lovin Dubai, You Tube,



Guidance on Façades and Fires

Clarifications and Audits

Andy Dean

BSc (Hons), FCIOB, FSFE

Head of Façades

WSP | Parsons Brinckerhoff











Presentations About...

- ... Fire and Facades
- ... Guidance on audit and review strategies
- ... Refurb strategies
- ... Code and safety of facades

81 since 2014



Reality Now - Q4 of 2019



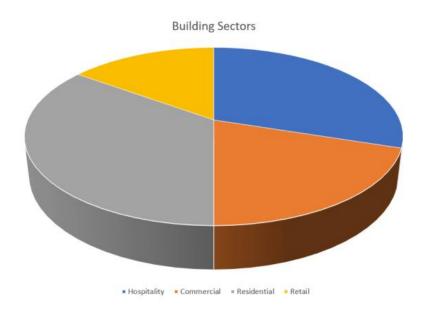
- Thousands of noncompliant buildings
- Hundreds of buildings reviewed
- Relatively few buildings refurbished
- Even fire damaged buildings only partially refurbished
- Why?
- Ask the opinions of: developers

 - owners

 - operatorsassociations



Sectors Interviewed

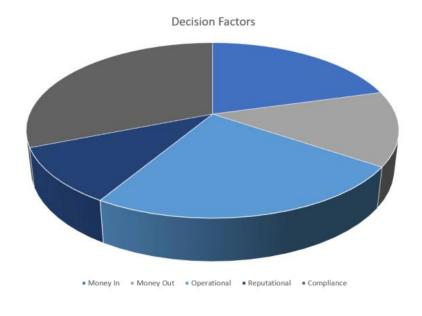


- Hospitality
- Retail
- Residential
- Commercial

 Not a survey - a relatively few interviews with senior players



Factors Emerging



- Commercial / Revenue (Money In)
- Financial (Money Out)
- Operational
- Reputational
- Compliance
- Context not everyone has reviewed their property for safety



Is Commercial / Revenue (Money In) a Factor?



Hospitality ü

tour operators ask for safety report

— Retail û

- façade doesn't create revenue
- branded façades and advertising spaces do

Residential û

- low impact on revenuefew people ask

Commercial û

- some tenants ask
- who and how big are the tenants?



Source: Bayut.com



- rising insurance costs
- regular upgrades

— Retail û

- no insurance pressure

Residential üû

- some insurance pressure
- low rent is most important

- Commercial û

- again tenant driven



Source: Bayut.com

16

Is Financial (Money Out) a Factor?



- Insurance
- Rising insurance costs
- Not high enough yet
 tipping point not yet
 reached
- Why insure anyway?
- With a portfolio, pressure can be put on the insurer and cost can be spread



Source: Bayut.com

Are Operational Issues a Factor?



- Hospitality û
 - small adjustments made - some changes
- Retail û
 - huge operational presence
- Residential û
 - relatively helpless
- Commercial û
 - on-site team minimalcost limited in effect -possibility for fire drills



Are Reputational Issues a Factor?



Hospitality ü

- high potential for pressure

— Retail û

- Brand value is high, but considered a low risk

Residential üû

- high 'apparent' pressure
- ignore the risk
- owners aren't occupiers

Commercial û

- reactive
- action of change may cause more damage



Source: Industrial Clean SA

Is Risk and Compliance a Factor?



Hospitality ü

- pressure, but working with the regulator

— Retail û

- risk perception very low

Residential üû

- high concern: low appetite

— Commercial û

- high risk toleranceonly if changes in regulation



What are the Perceived Drivers of Action?

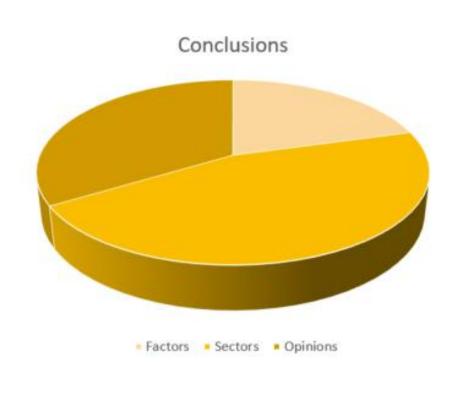
Action Plan

- ü Who
- ü What
- ü When
- ü How
- o ... tell me again, why?

- Hospitality
 - pressure from market
 - decision at board level
- Retail
 - no plans
- Residential
 - would like to
 - can we afford to?
 - practical obstacles
- Commercial
 - only if forced to



My Conclusions



- Texture of drivers in different sectors
- Some sectors feel more pressure than othershospitality / resi
- Main driver is commercial
- Transient occupants
- Owners not occupiers
- Regulation needs to play a stronger hand if change is to happen



Source: Industrial Clean SA

Thank you!

Andy Dean andy.dean@wsp.com

wsp.com

