



Transparency in Healthcare buildings

Healthcare building: A Nightmare

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Healthcare building: Expectation

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Service

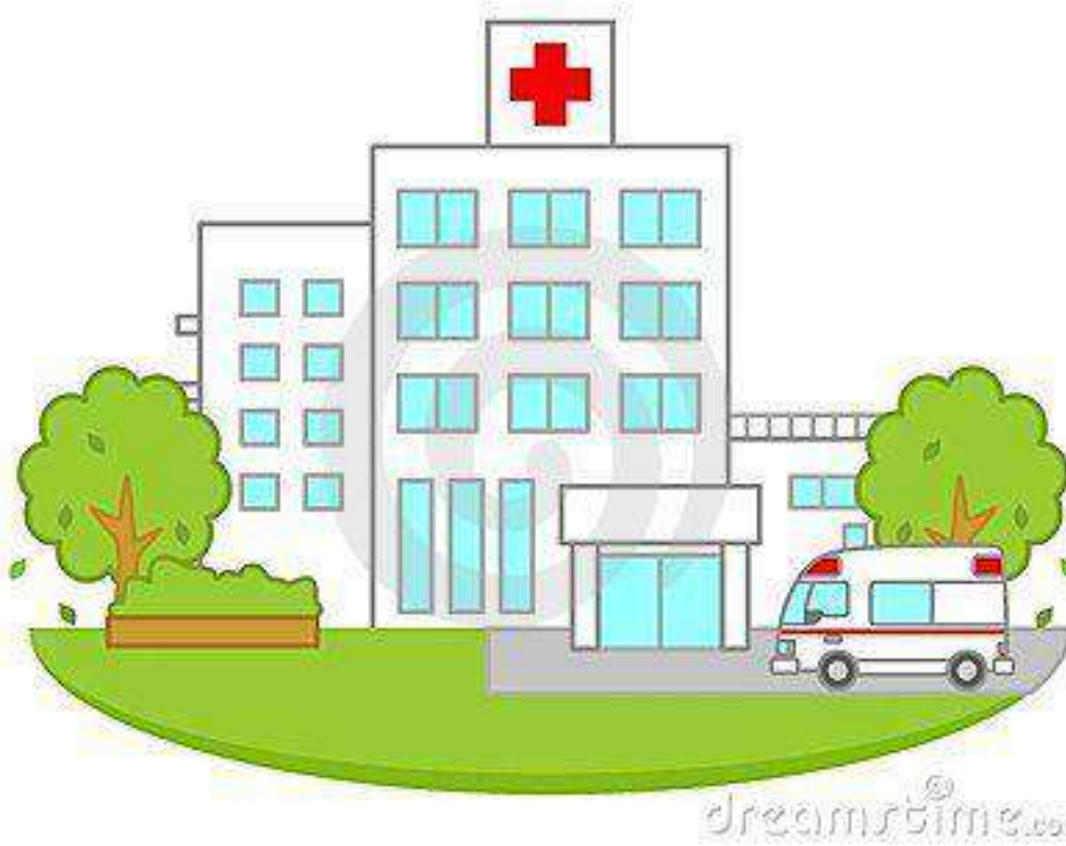
Indoor air quality

Hygiene

Comfort

Privacy

Safety



Contributes to faster recovery of patients....

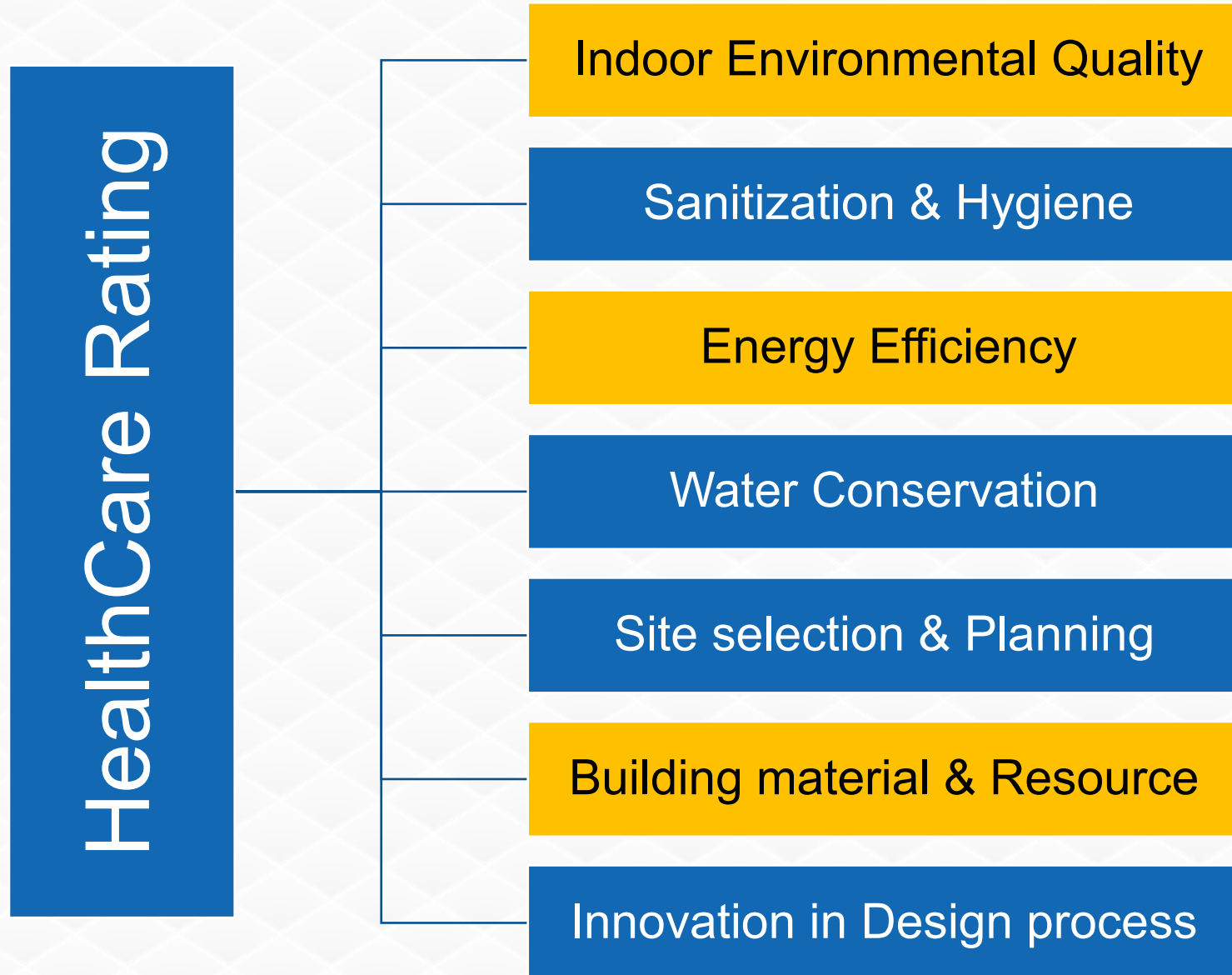
The Green initiative

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IGBC Healthcare rating

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Question.?

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**Can we use the
glass as a building
material to comply
with the credit
requirements..??**

Glass is a Sustainable material

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Disadvantages

Advantages

Traps heat

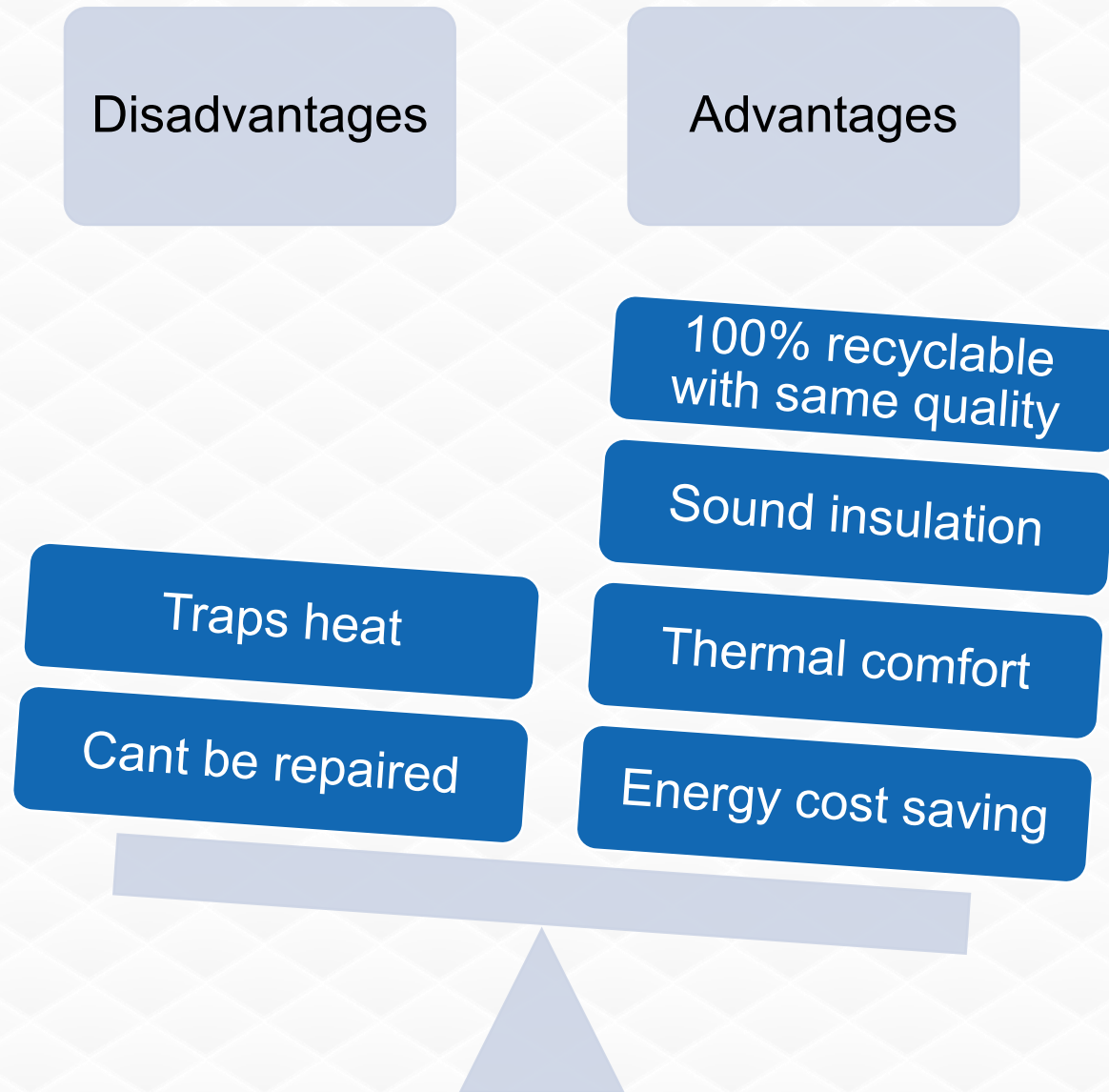
Cant be repaired

100% recyclable
with same quality

Sound insulation

Thermal comfort

Energy cost saving



Glass in Indoor environmental Quality

Glass in Indoor environmental Quality

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Concept of Healing Architecture

- Daylit space
- Connectivity to nature



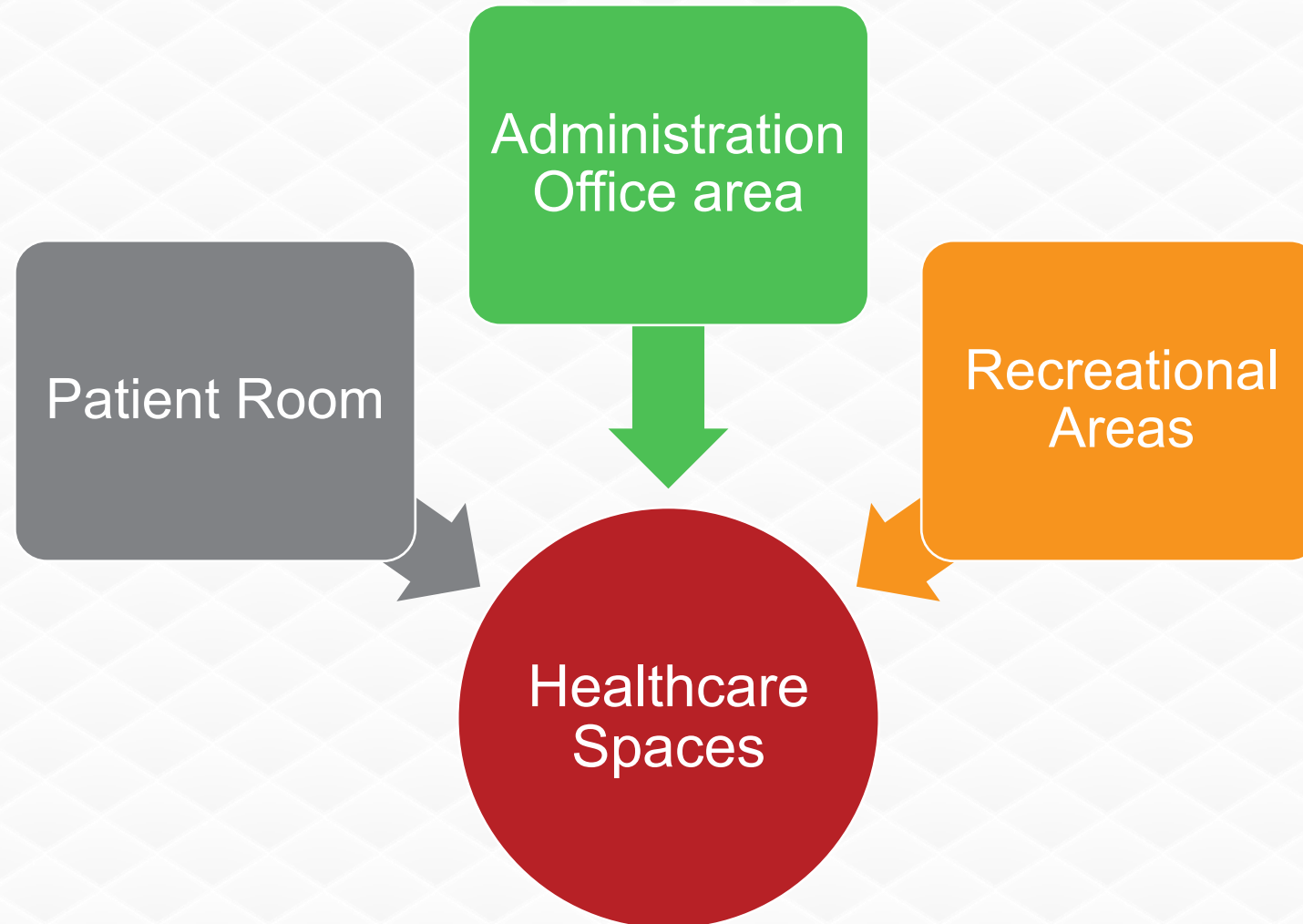
What will you choose.?

Glass in Indoor environmental Quality

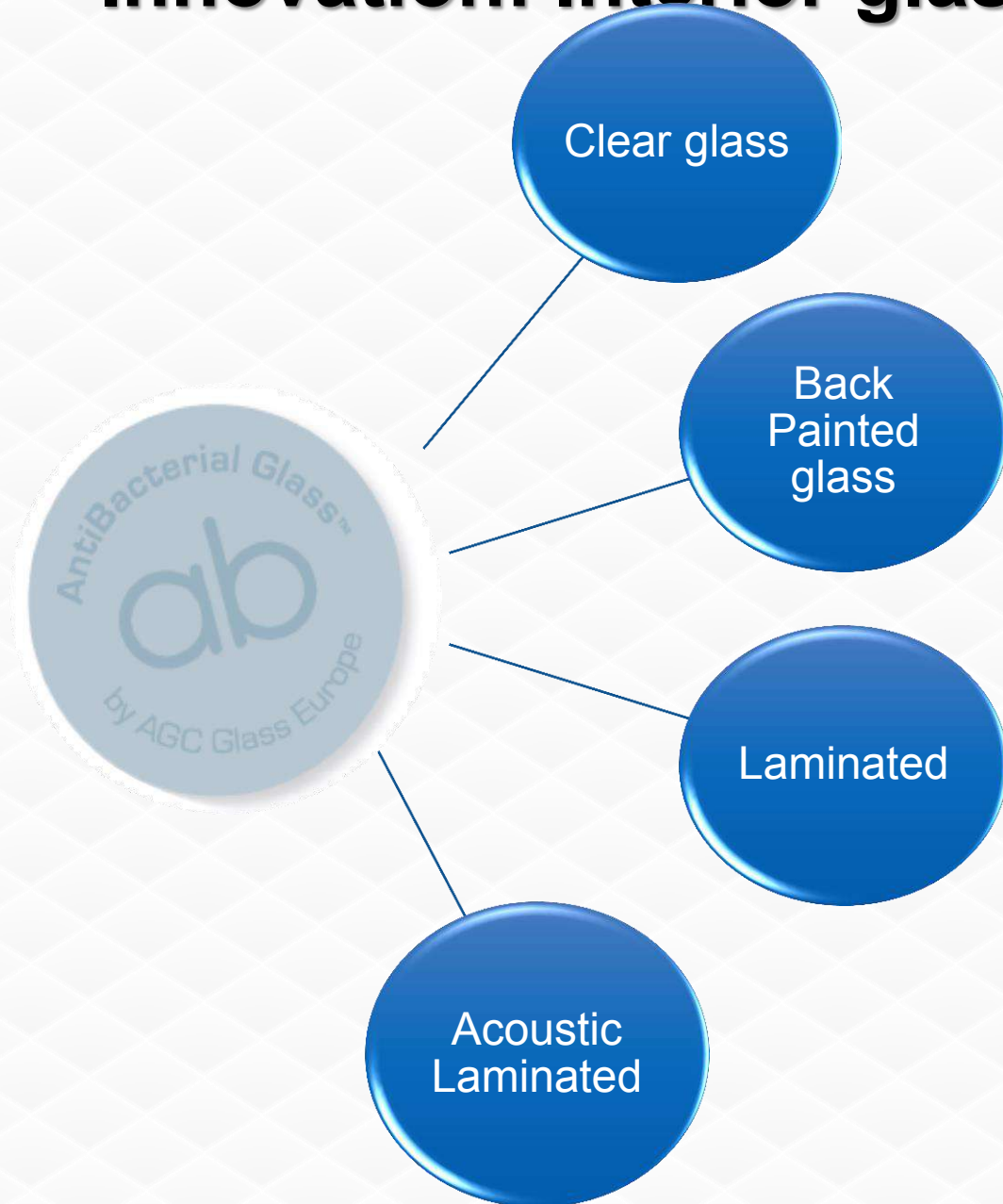
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Concept of Healing Architecture

- Colour Psychology



Innovation: Interior glass



Hospitals, haematology, oncology and geriatric units, isolation rooms, burns units, sterilisation rooms, etc.

clinics, infirmaries, maternity units

pharmacies and laboratories

rest homes

Canteen, toilets etc

Waiting areas

Glass (Interior) in Low emitting material

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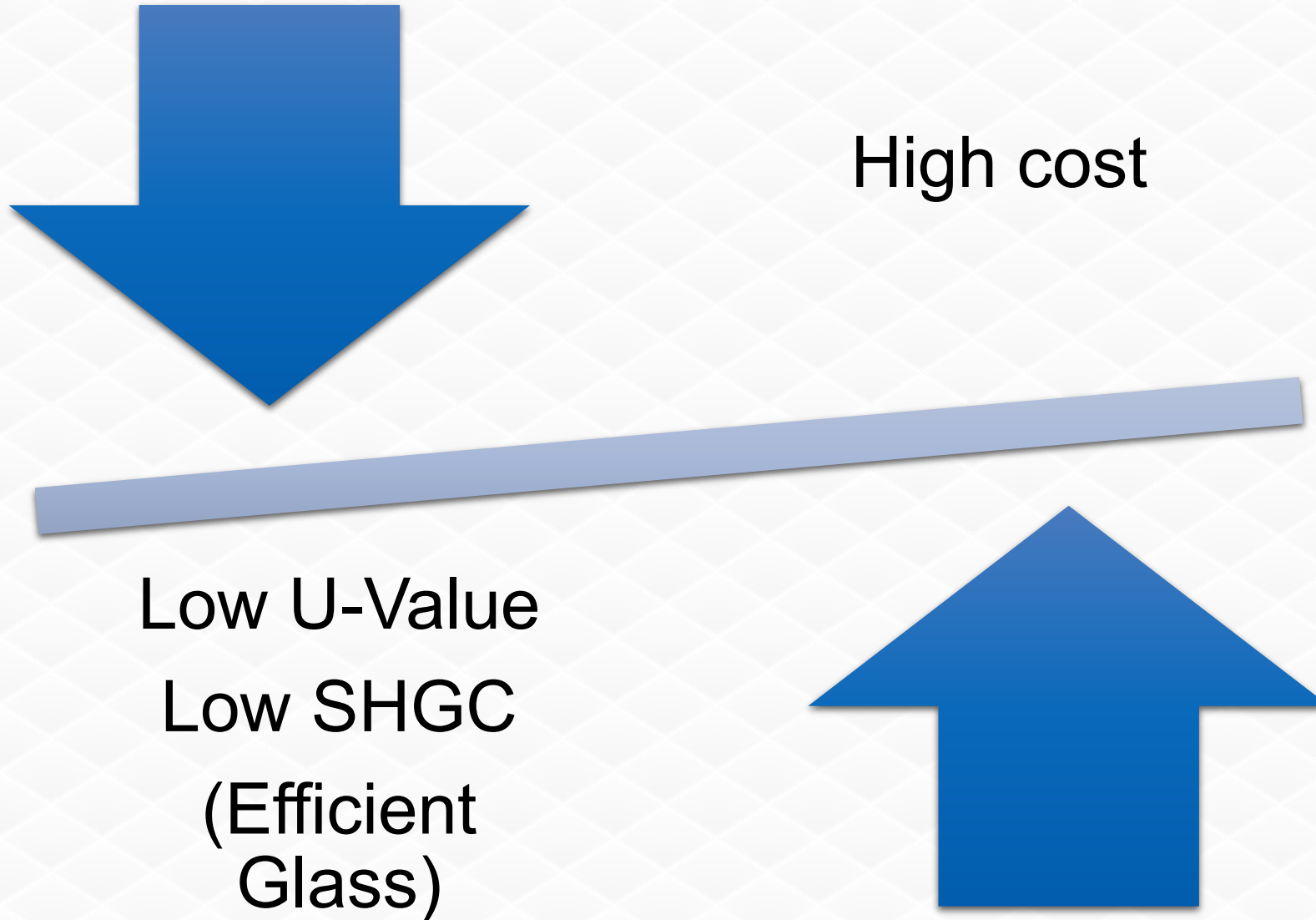


Back painted/ Lacquered glasses available in the market with Low VOC content paints used in it

Glass in Energy Efficiency

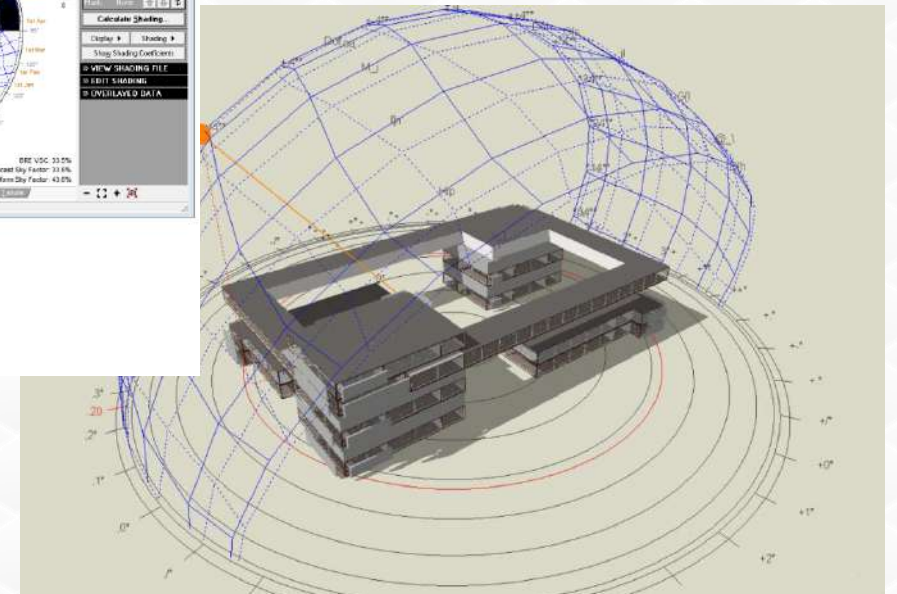
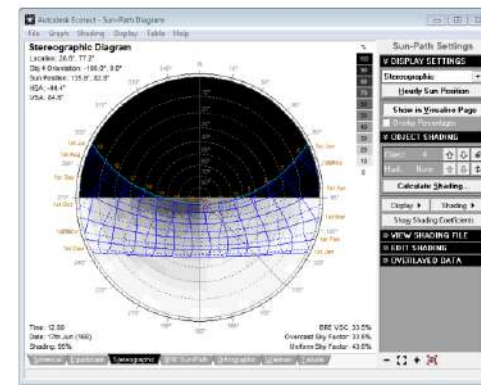
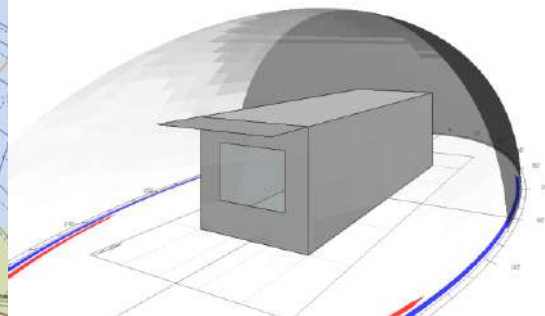
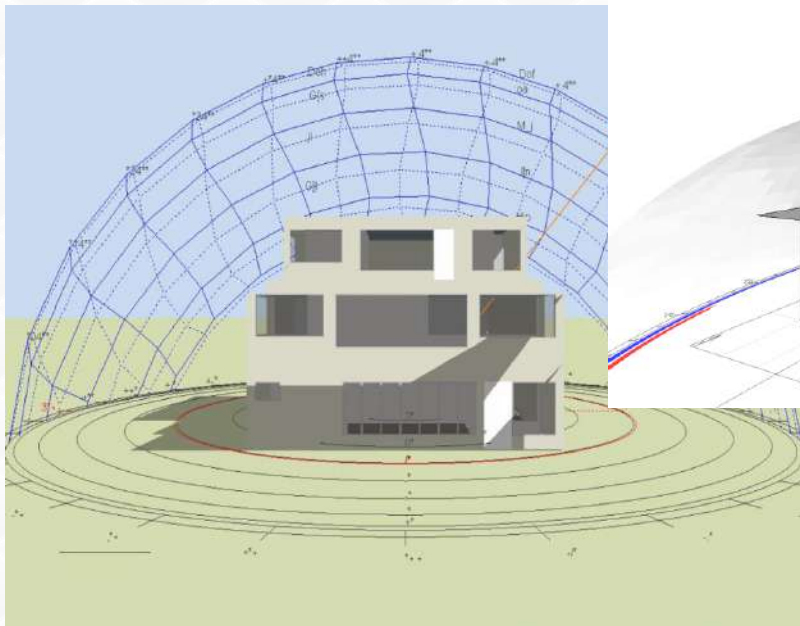
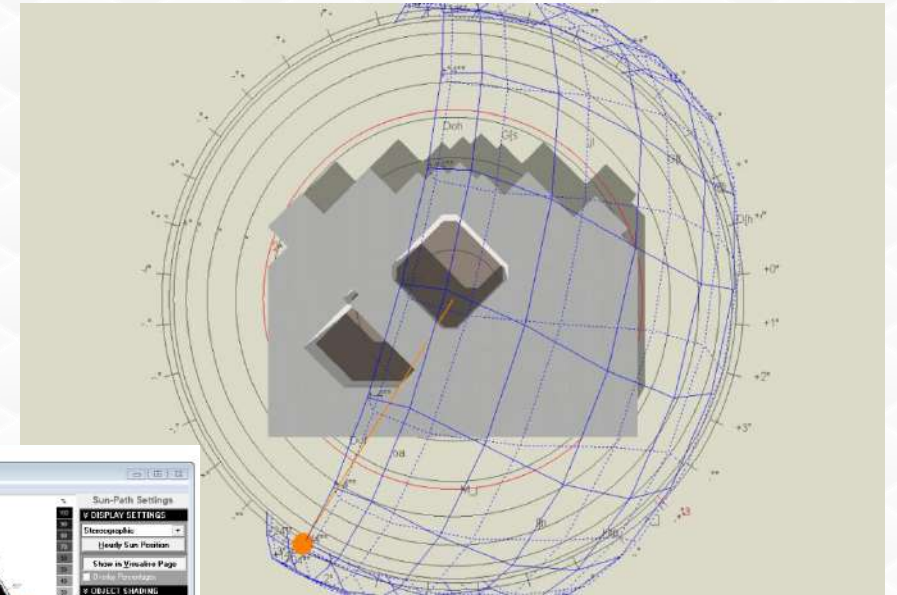
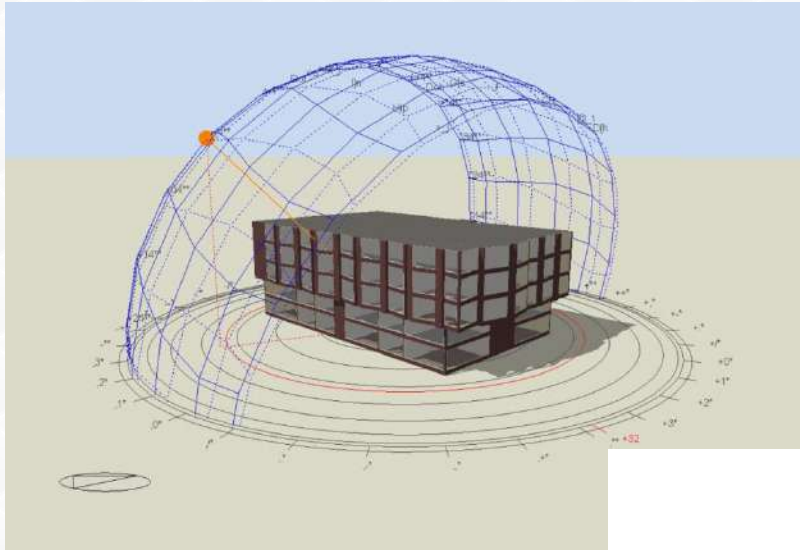
Relation: Glass and Cost

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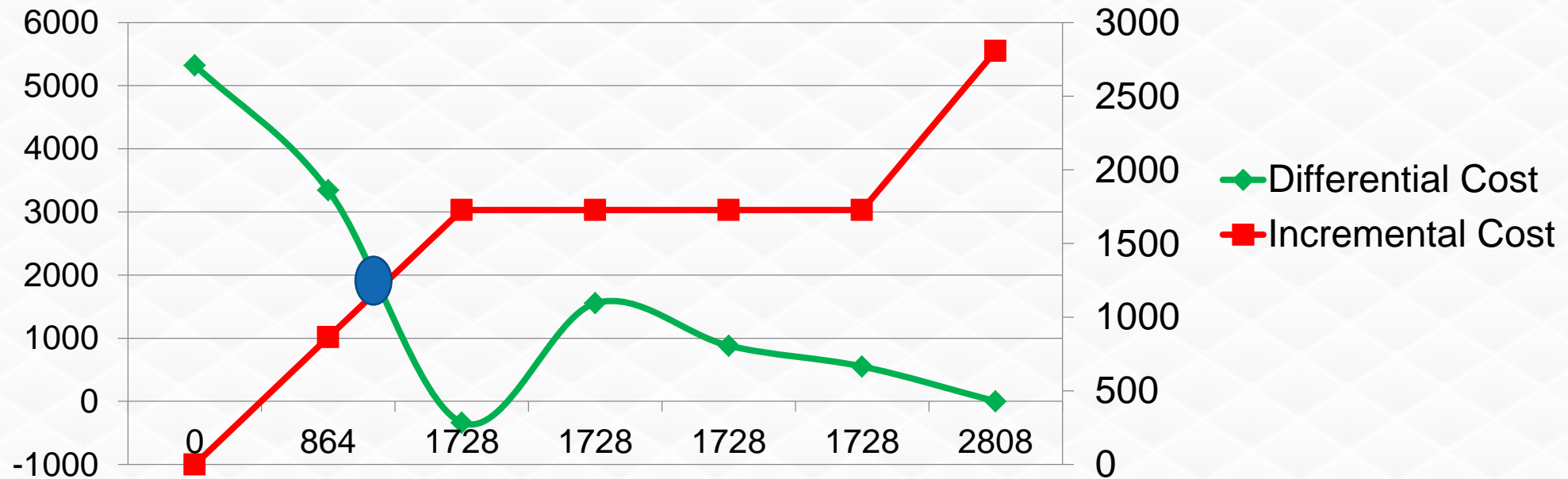
SMART solutions

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Glass in Energy efficiency

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The perfect ROI

SMART investment

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Glass in Building material & resources

Green Product certifications

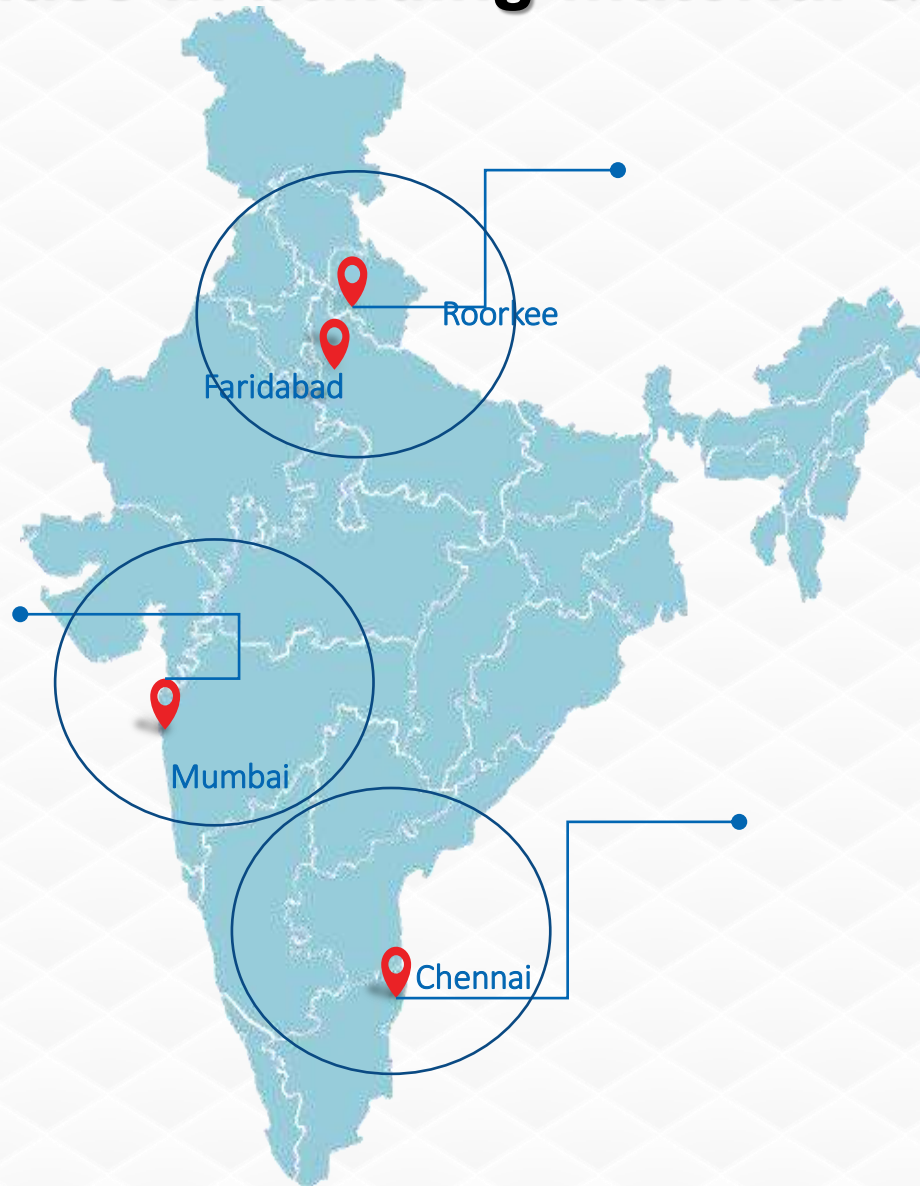
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Creating thrust of Green products in the market

Glass in building material & resources

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Local Material



Recycled content

Glass in Building design

Climate & microclimate

- Temperature, humidity, solar radiation, wind speed/direction, landform, vegetation, water bodies, open spaces, etc.

Building Orientation & Form

- Orientation of the building, surface-to-volume ratio and exposed surface area

Building Envelope Component Design

Area, orientation and tilt of the building envelope components

Roof form design, choice of shading devices, fenestration size, placement of windows, construction specifications etc

Building Material Specification

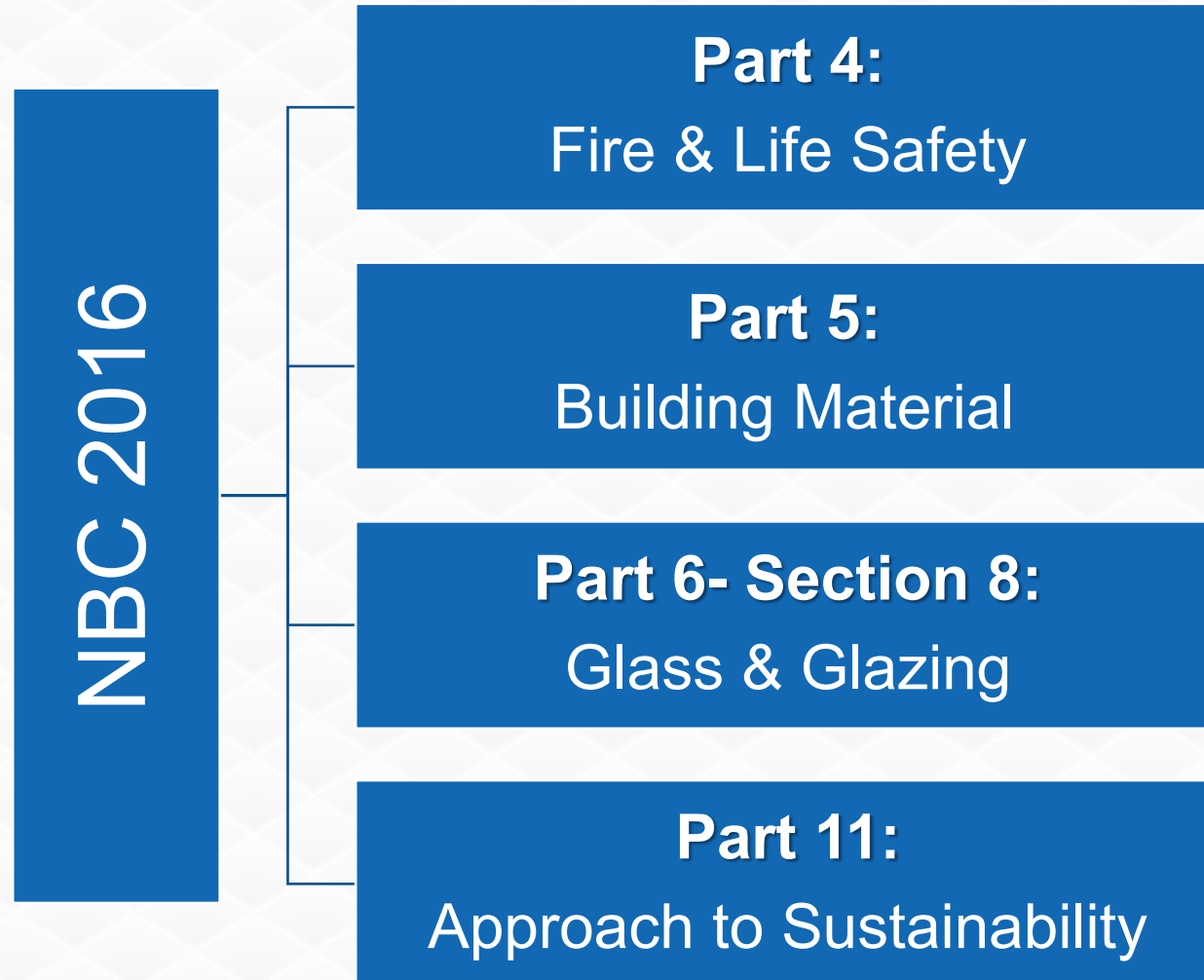
Insulating Properties (U-values, SHGC), emissivity & color/texture

Glass in Safety

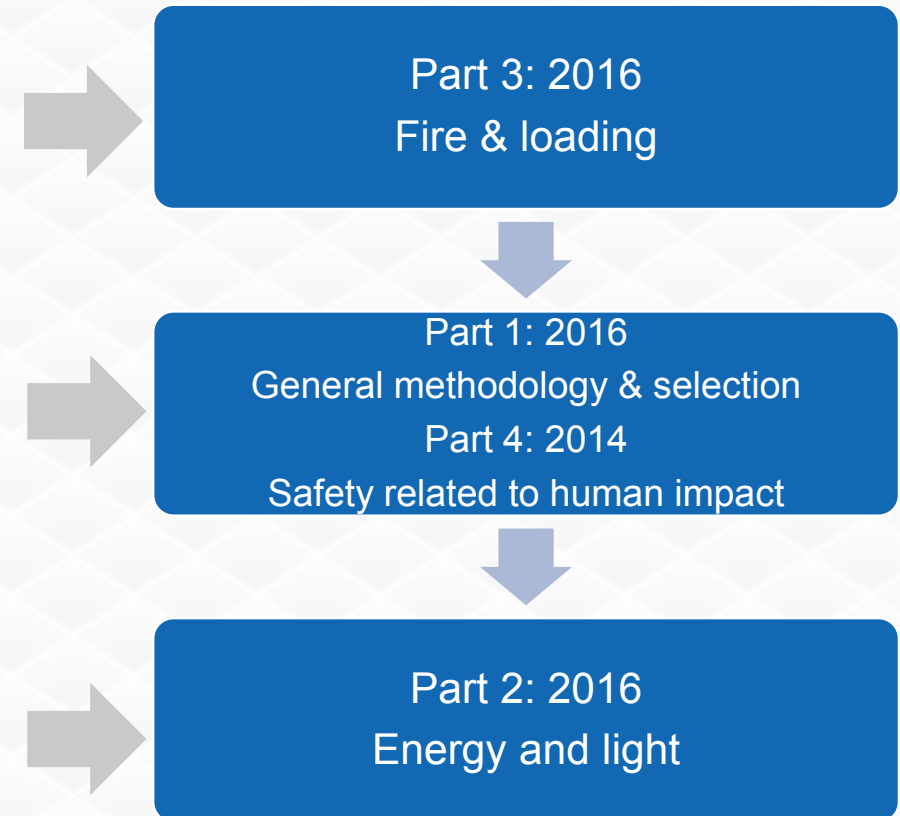
Chapters and standards in NBC 2016

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Chapters on Glass in NBC-2016

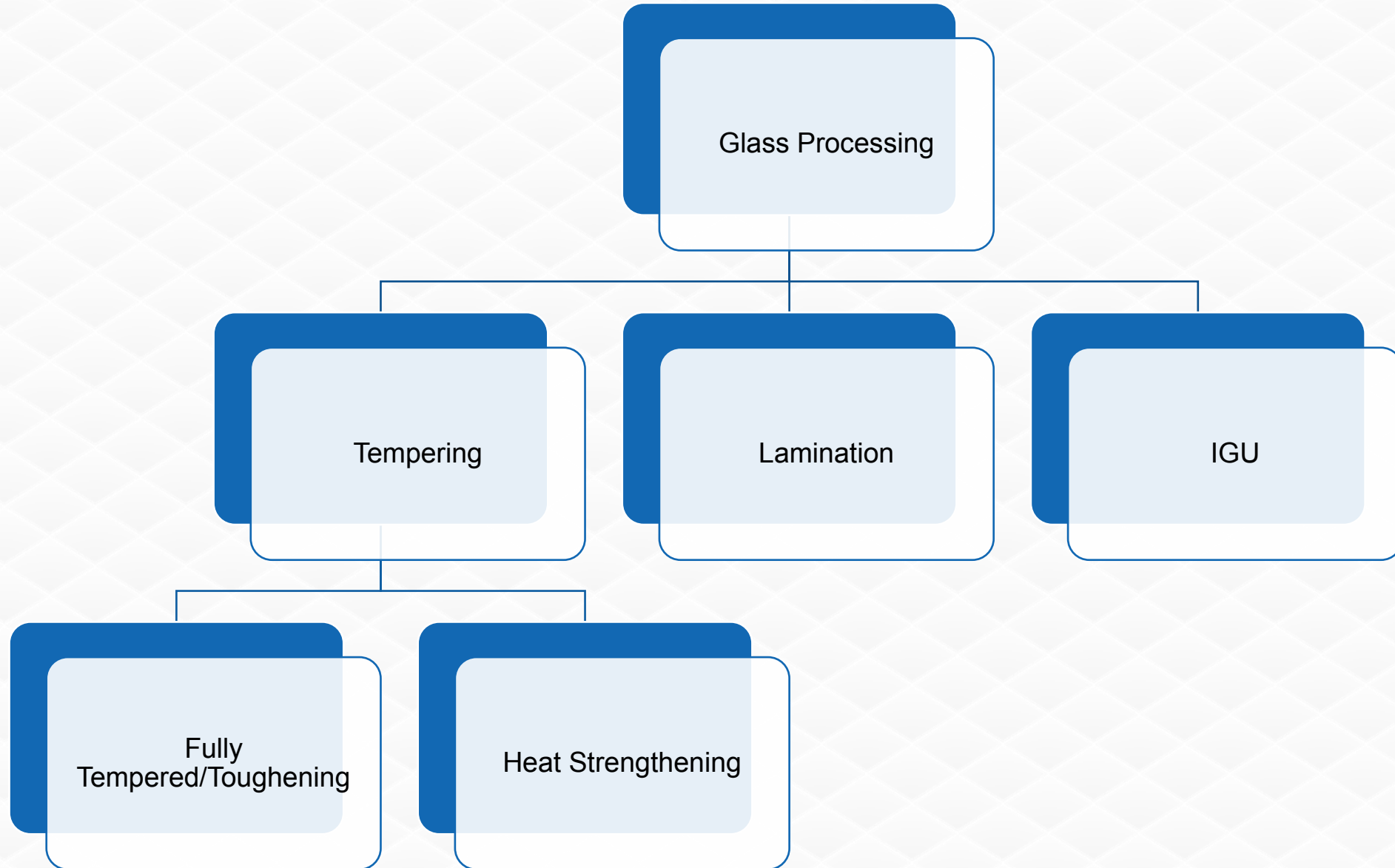


Code of use of Glass in Buildings:
IS 16231



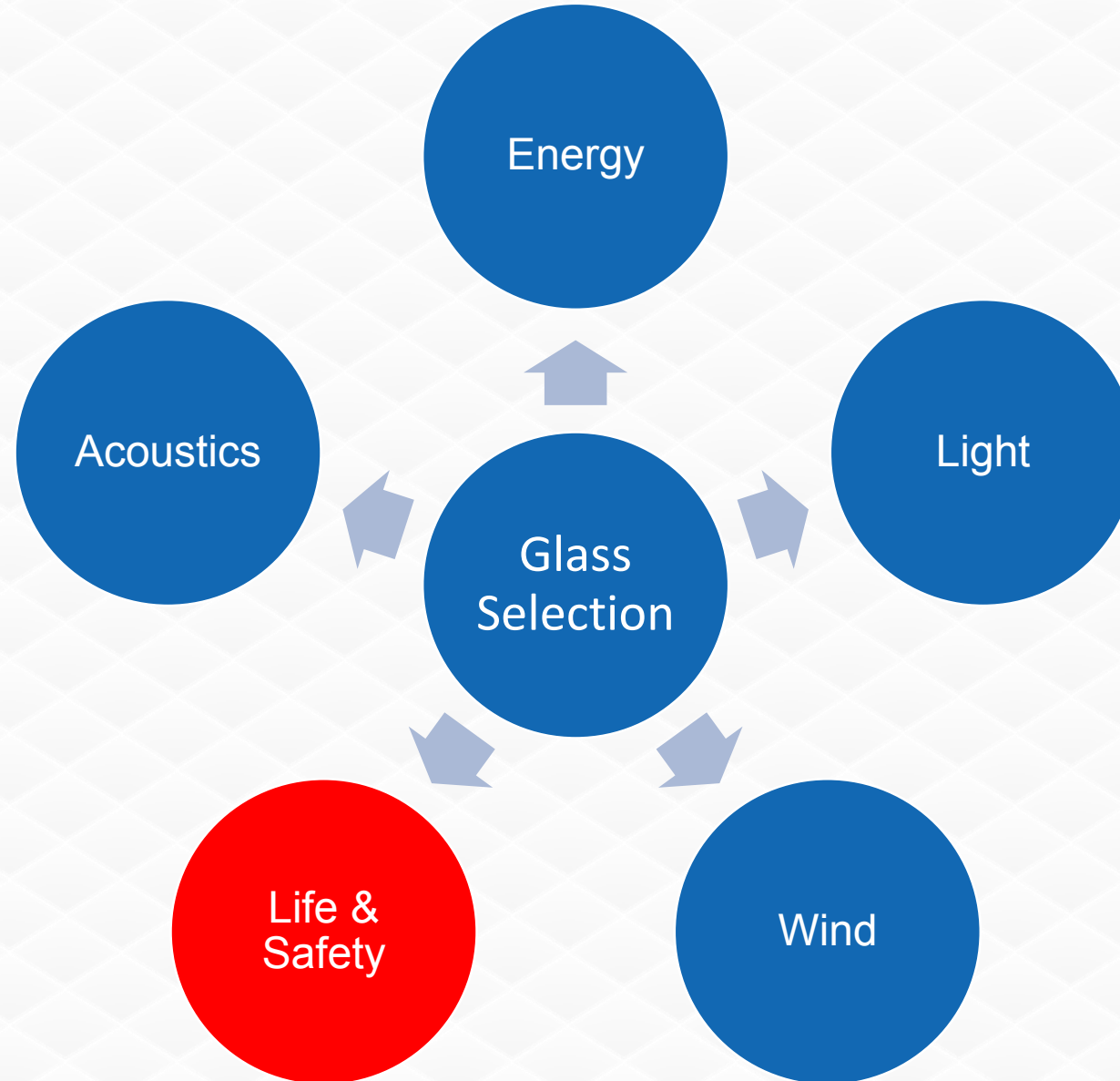
Glass Processing

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361⁰ Approach

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Glass : An engineered product

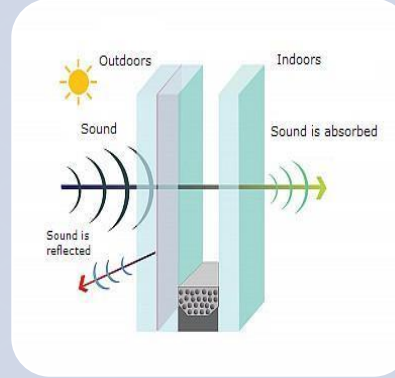
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Simulation approach to derive
savings in cooling loads



Simulation approach to derive
Daylight levels
Savings in artificial lighting



Various tests to derive
optimum thickness or configuration of glass to reduce sound levels



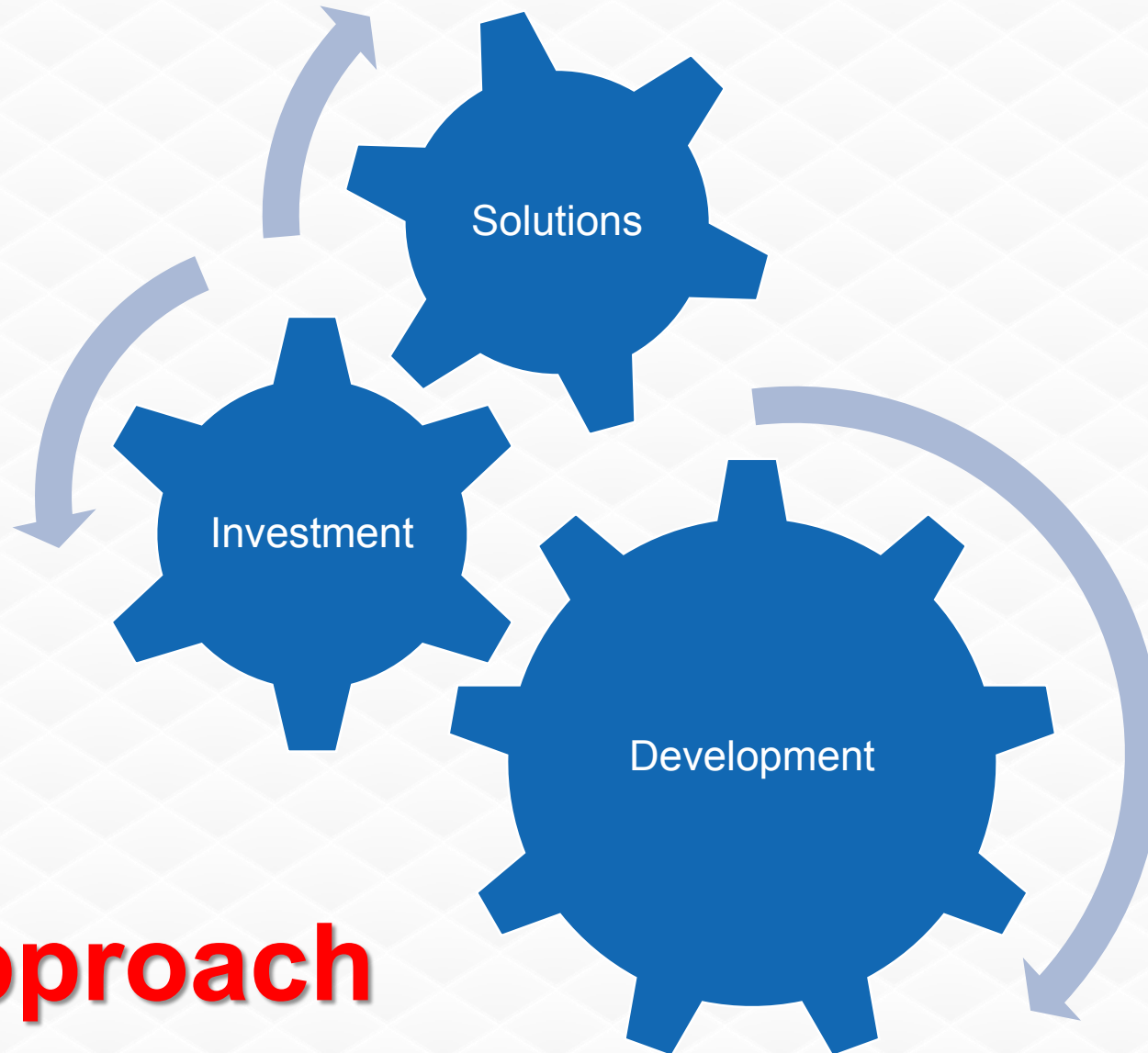
Simulation & ISO standard application to derive
Optimum glass configuration & thickness to with stand Wind at different heights



Various tested product & globally approved products to cater
Fire separation areas & products which can withstand fire & heat as prescribed in latest Codes

Smart Development

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Ideal Approach

See More....

Choose....



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Thank You

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