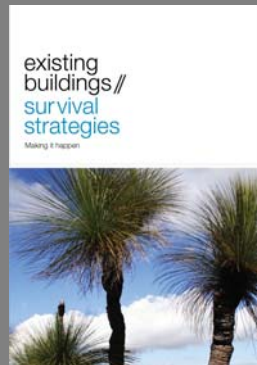


NAVIGATING THE HAZARDS – FIRE UPGRADES

Peter Johnson, ARUP
Existing Building Solutions Summit

ARUP



Drivers of Change:

- More sustainable buildings
- Less energy use
- Less water
- Changing demographics
- Greater urbanisation
- Tall buildings

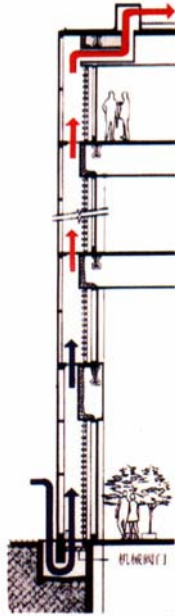


PRESENTATION TITLE

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Design responses:

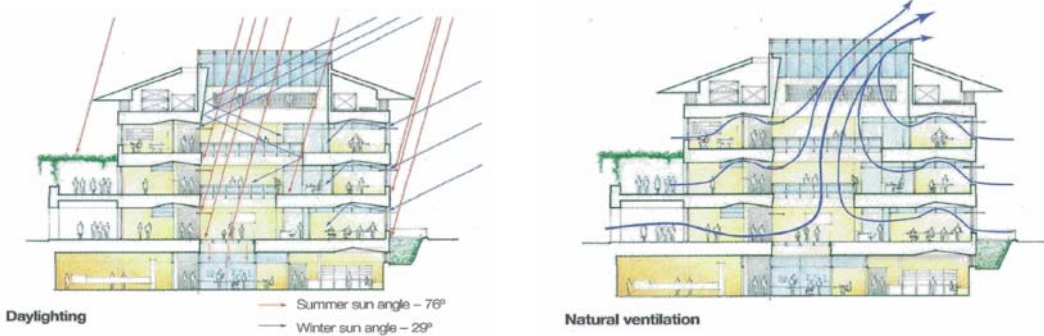
- Ventilated facades
- Natural ventilation/smoke control
- Recycled materials
- Glazing, natural day lighting
- Recycled water
- Lifts for evacuation



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Energy Efficiency – Daylighting and Natural Ventilation



- Buildings can be designed to minimise spread of smoke and fire

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Fire safety engineering:

- Functionality and aesthetics
- Design flexibility
- Cost effective upgrade options
- Cost effective construction and operation

All risk management objectives



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Issues:

- Maintenance
- Practitioner licensing
- Safety by Design/OH&S
- ABCB/SA standards
- 3D/4D/5D design world



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