

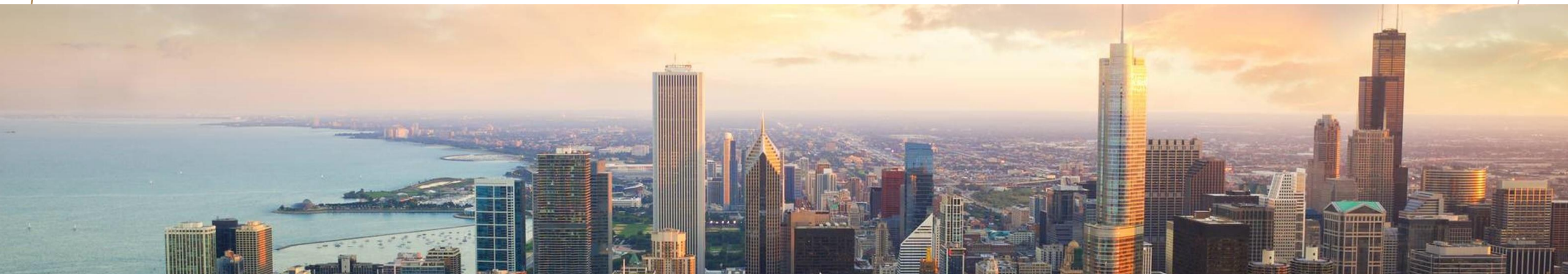
WHY BUILDINGS ARE AFFECTED

DIFFERENTLY

IN

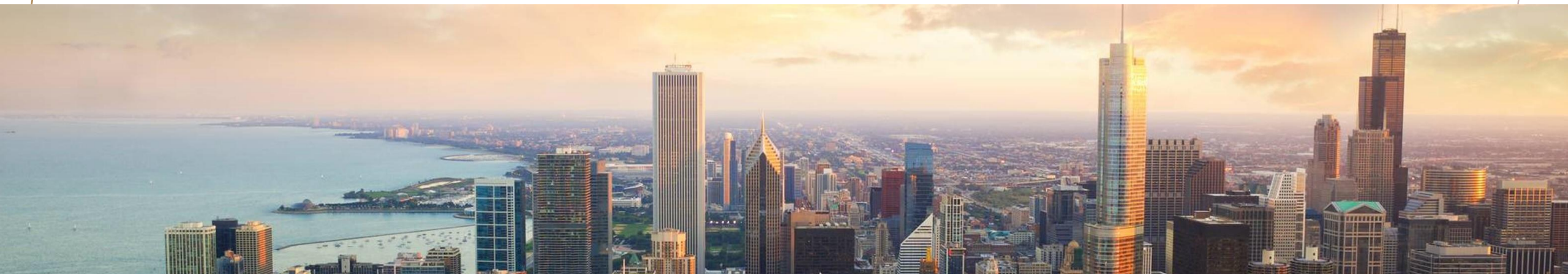
EARTHQUAKE EVENTS

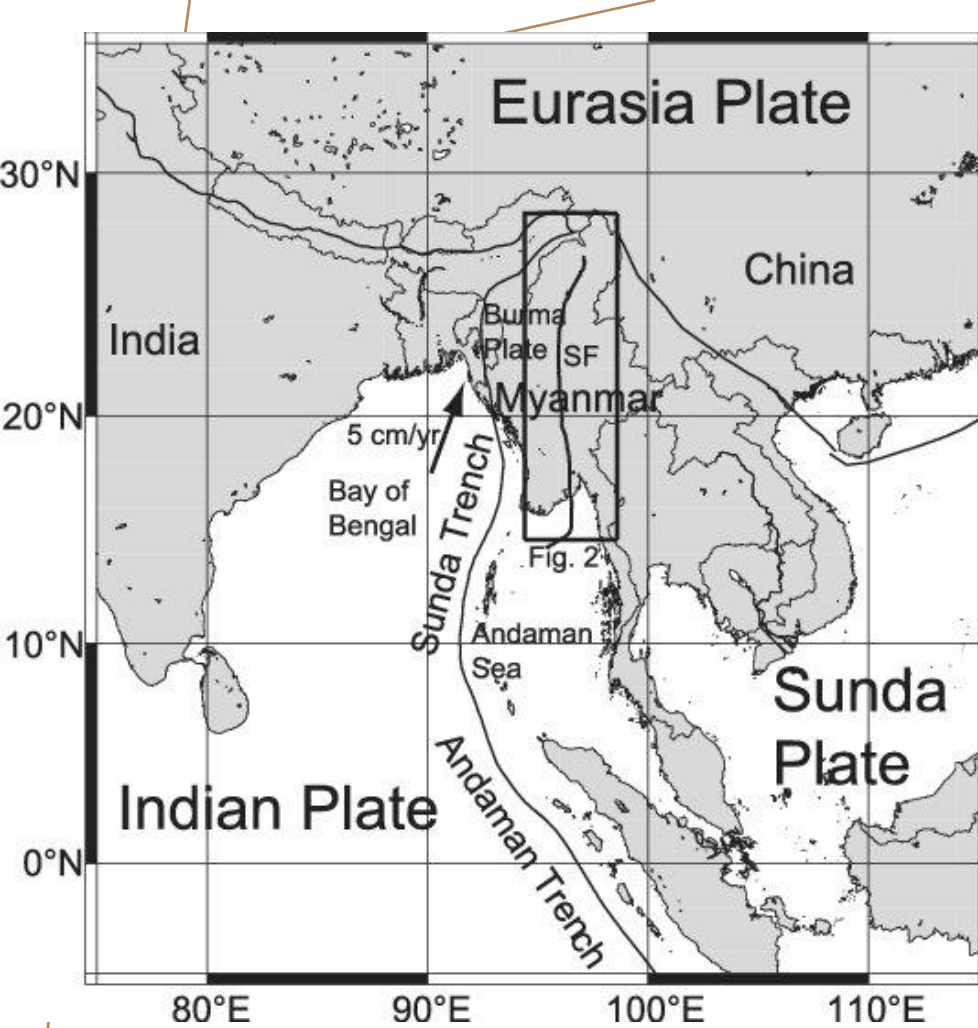
(28TH JULY 2025)



လျှင်လှုပ်တဲ့အခါ အဆောက်အဦတွေ ထိခိုက်ပုံ
ဘာဖြစ်လို့ မတူကြပါသလဲ

(၂၀၂၅ ခုနှစ် ဇူလိုင်လ ၂၈ ရက်)





Major Tectonic Plates

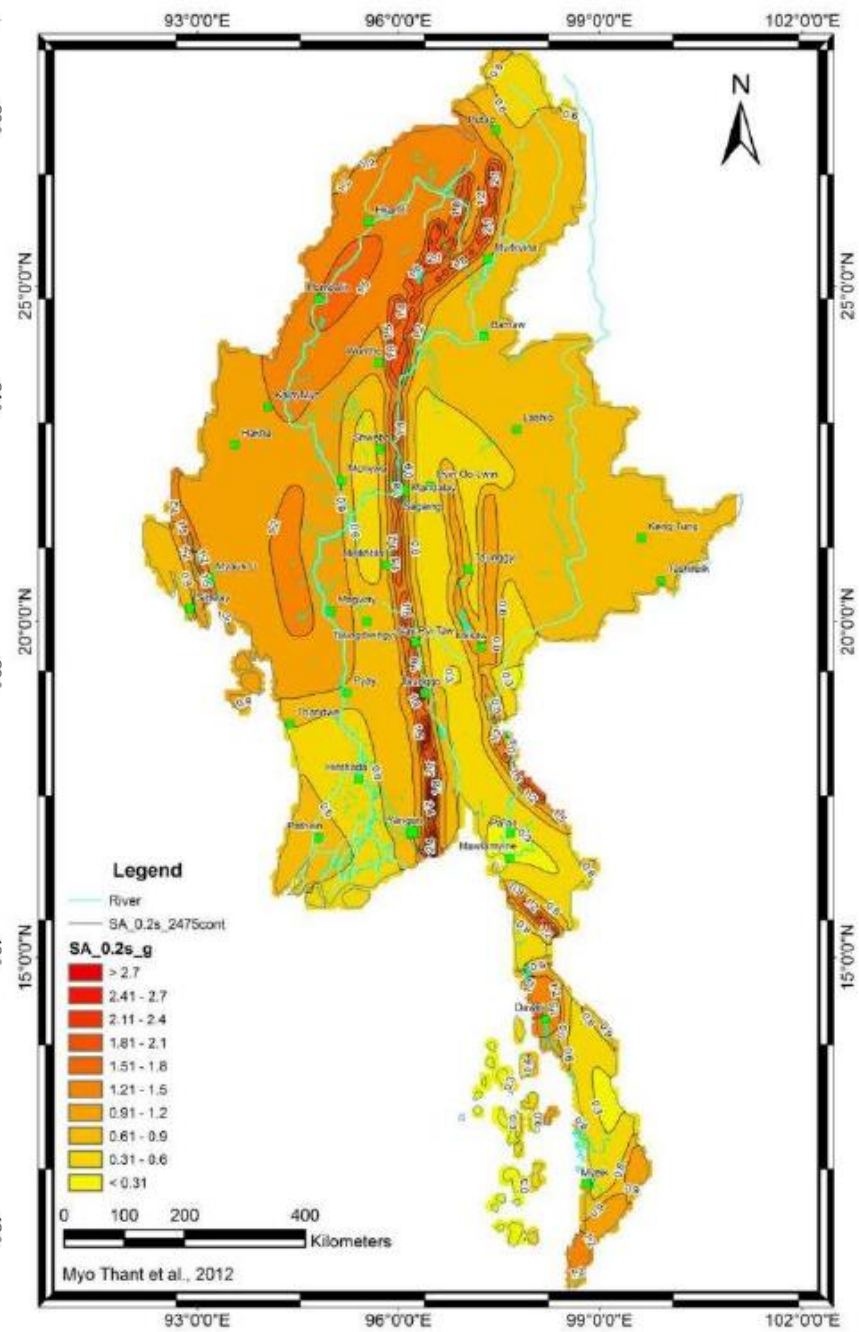
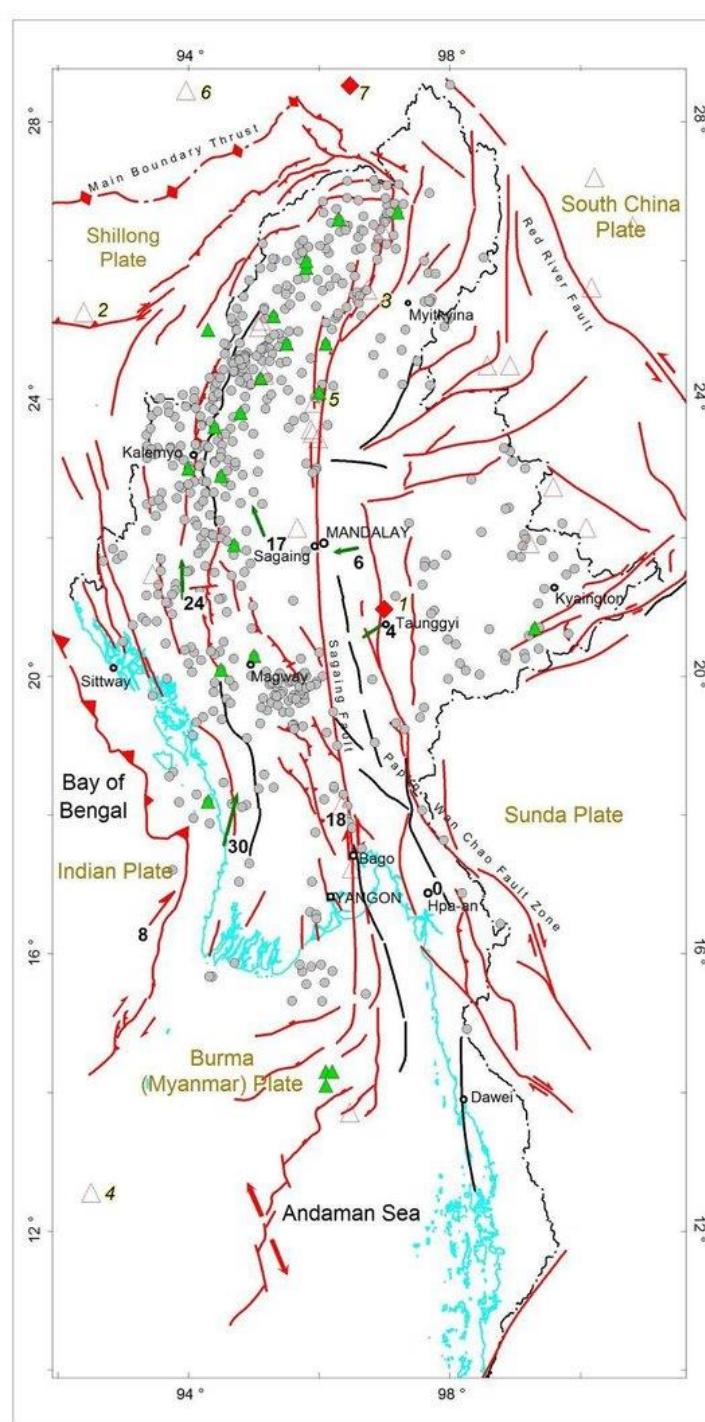


Figure 2: 0.2sec accelerations for 2% probability of exceedance in 50 years.



EARTHQUAKE



Magnitude



Epicenter



Intensity



Hypocenter

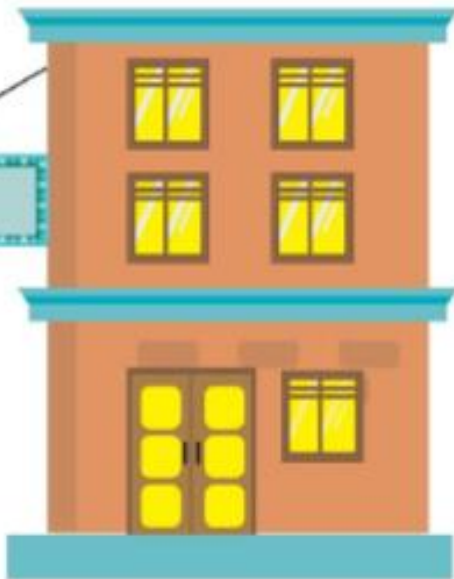


IMPACT

BUILDING PERFORMANCE LEVELS

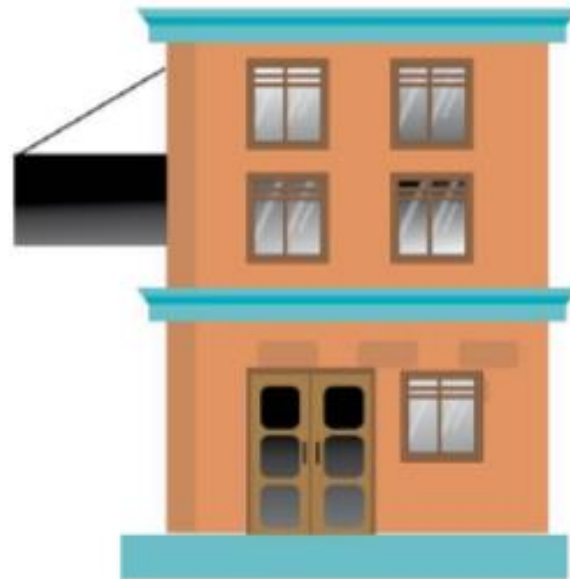
Both structural & nonstructural performances are considered in building performance

**1-A
S-1 & N-A**



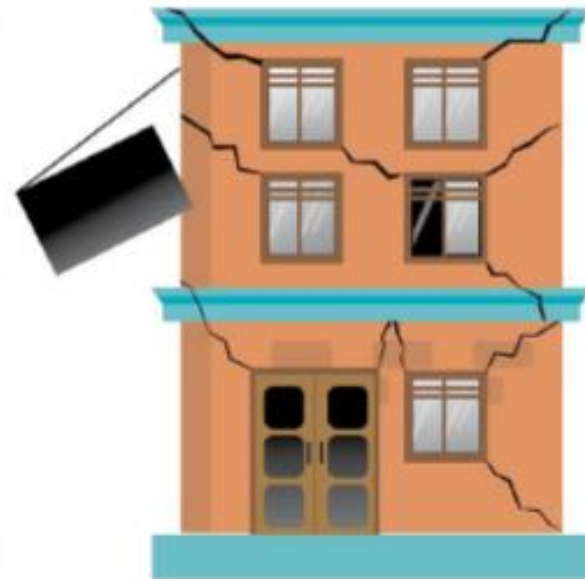
Operational (O)

**1-B
S-1 & N-B**



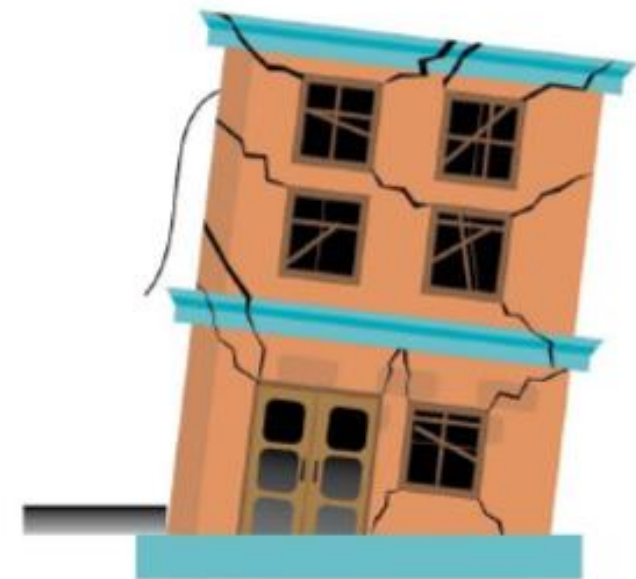
**Immediate
Occupancy (IO)**

**3-C
S-3 & N-C**



**Life Safety
(LS)**

**5-D
S-5 & N-D**



**Collapse Prevention
(CP)**

Hazard

Conformity to regulations

Construction practice

Seismic Detailing

Location

Knowledge

Skill

Cost

Performance target

Design

Material

Attitude

Time

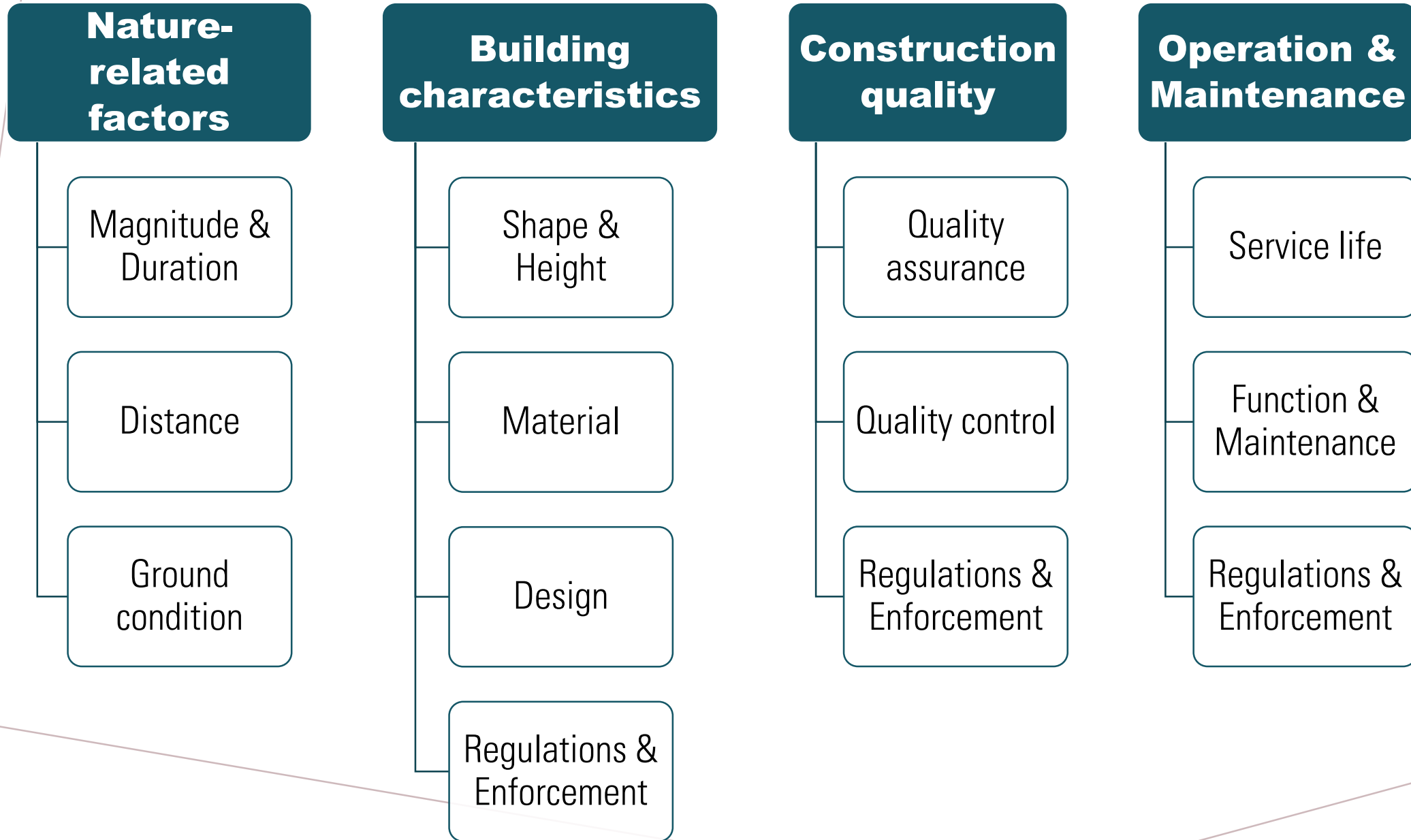
Technology

Mitigations

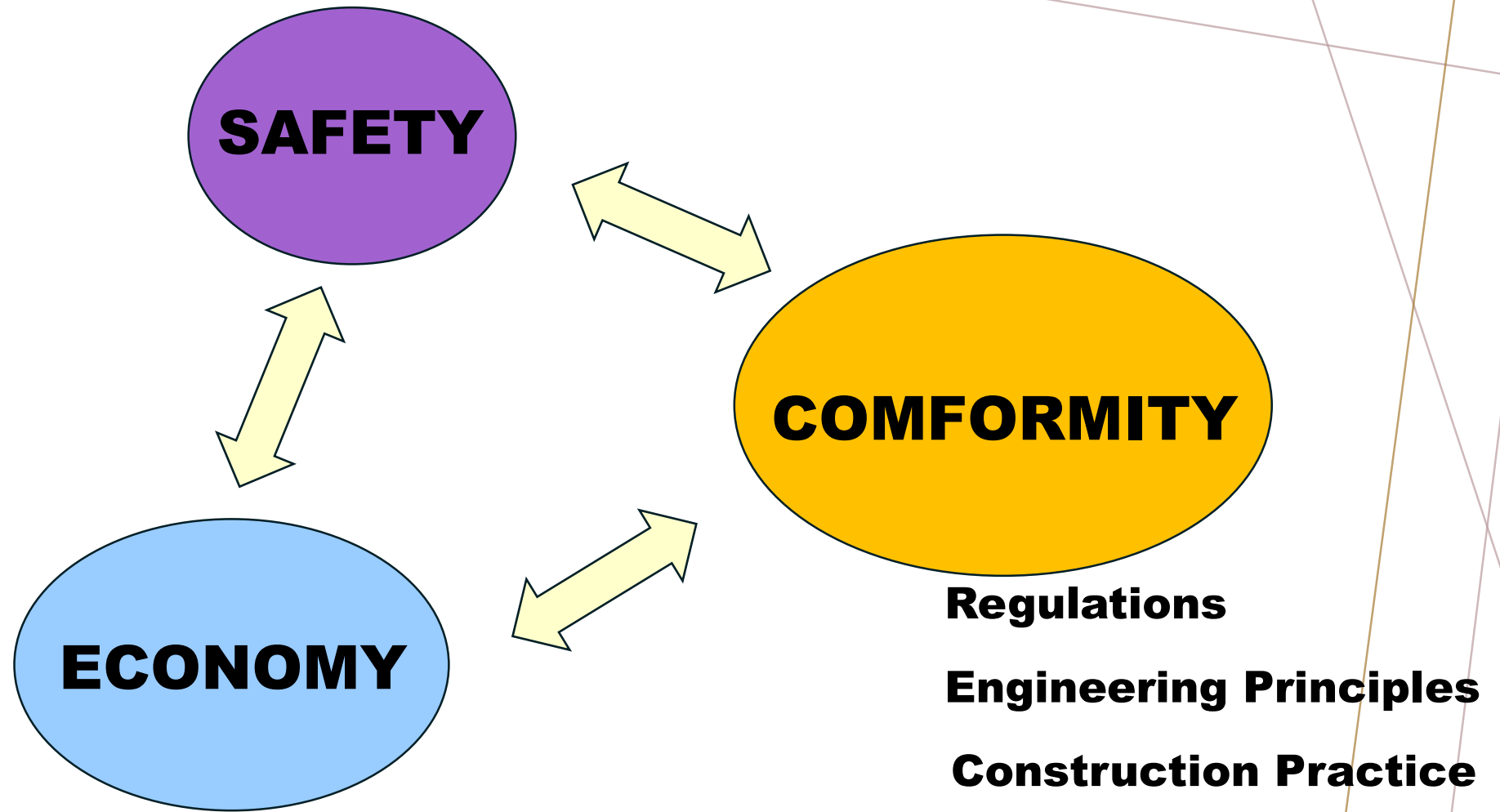
Usage

Maintenance

INFLUENCING FACTORS ON INTENSITY & IMPACT



FUNDAMENTAL REQUIREMENTS





THANK YOU

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