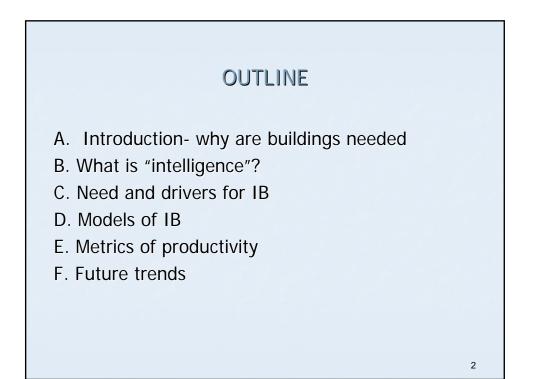
INTELLIGENT BUILDINGS: Definitions, Need and Models

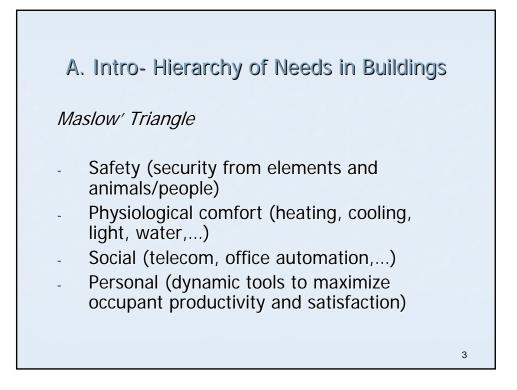
Dr. Agami Reddy

Civil, Architectural and Environmental Engineering Department Drexel University, Philadelphia, PA

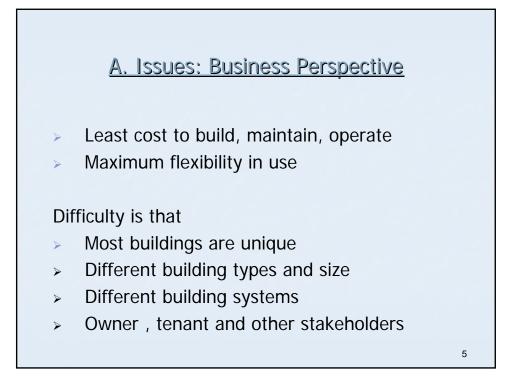
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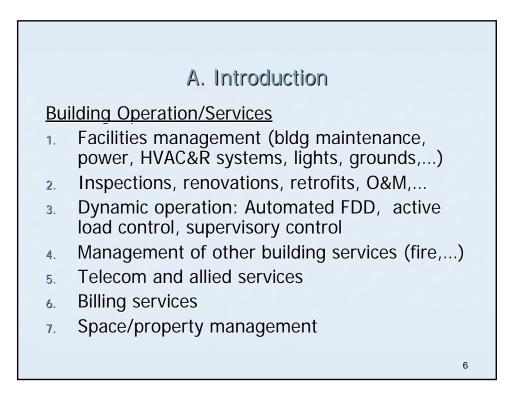
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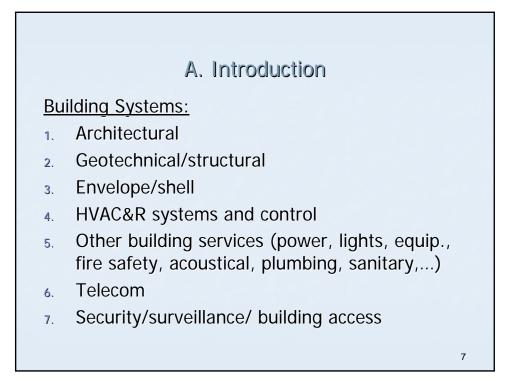


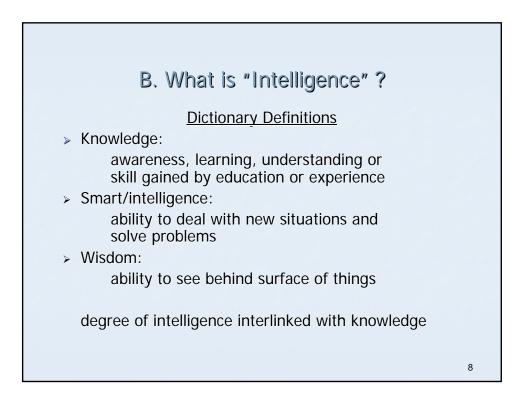


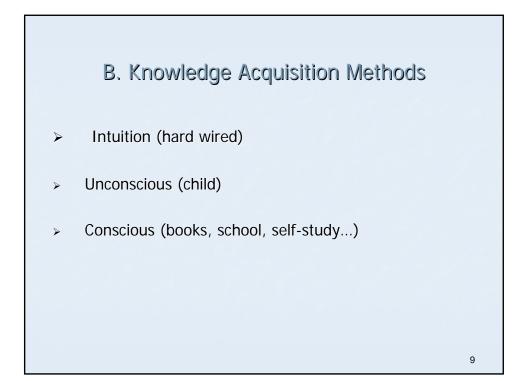


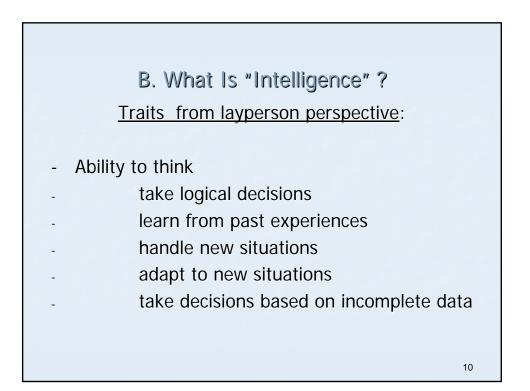


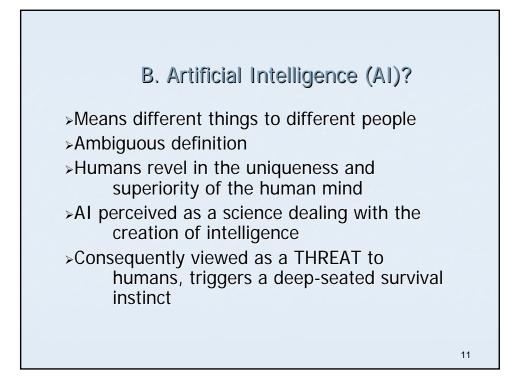


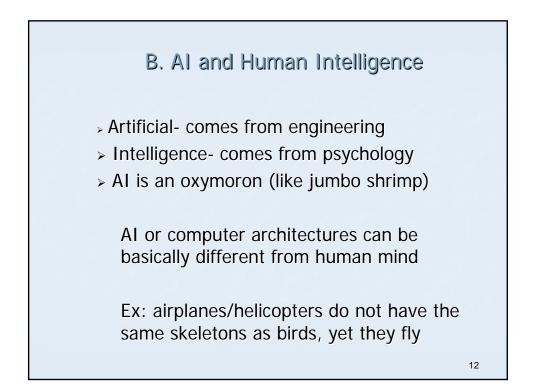








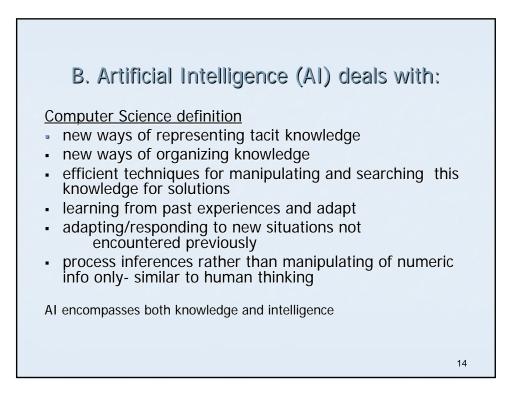


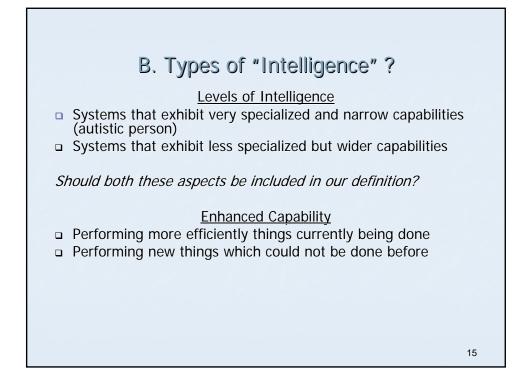


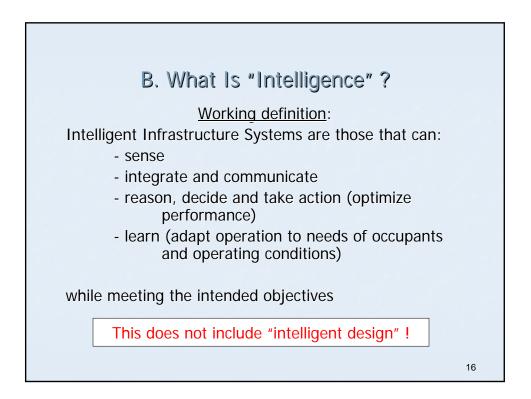


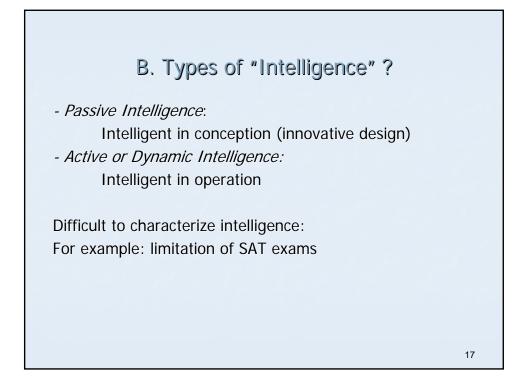
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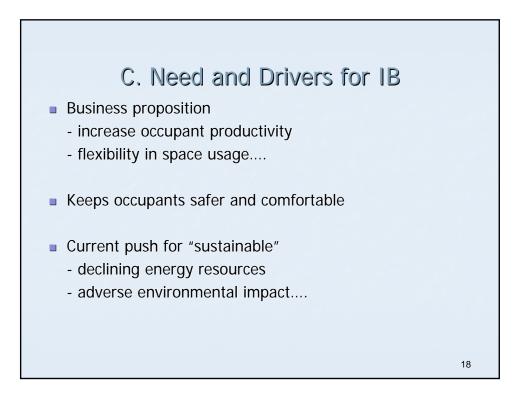
Though philosophical issues cannot be avoided entirely, better to separate philosophy from technology

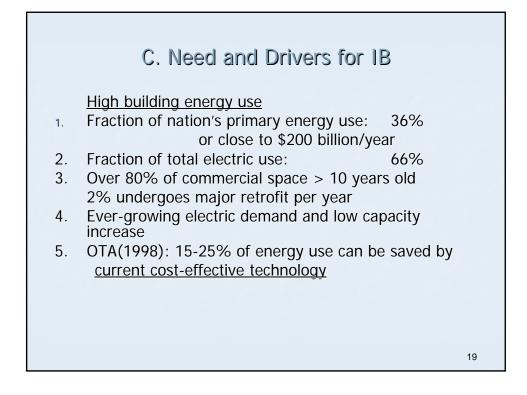


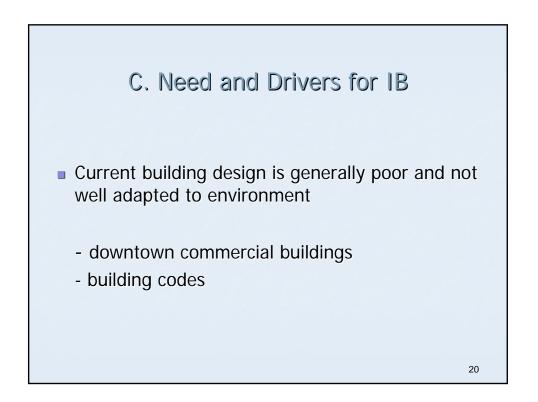


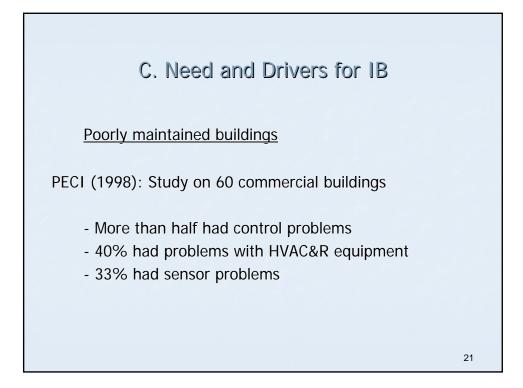


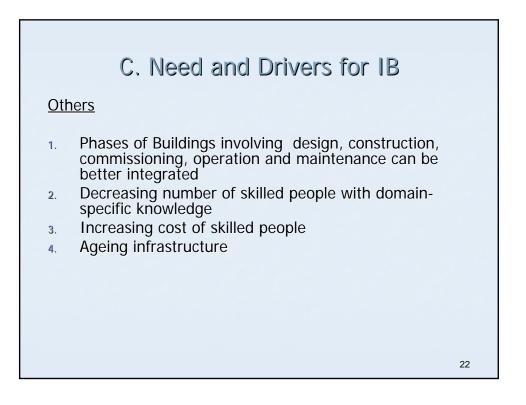


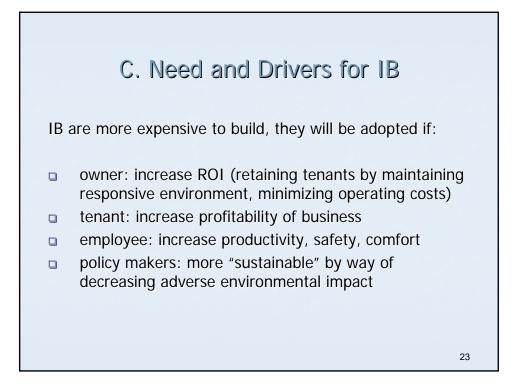


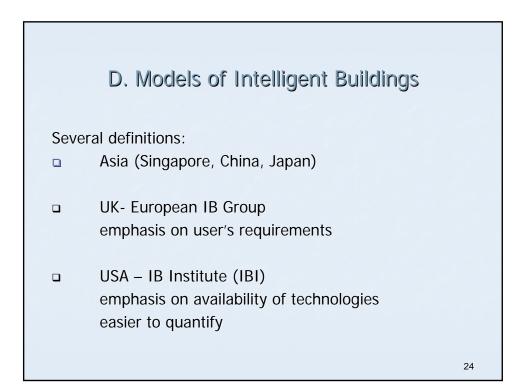


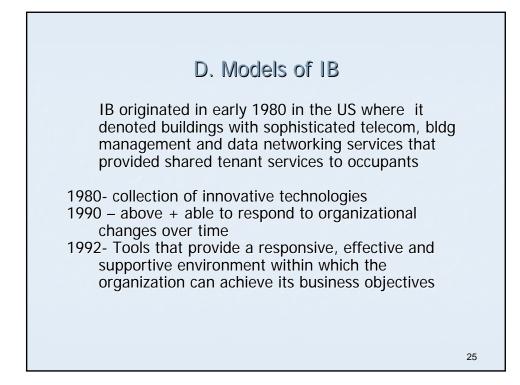


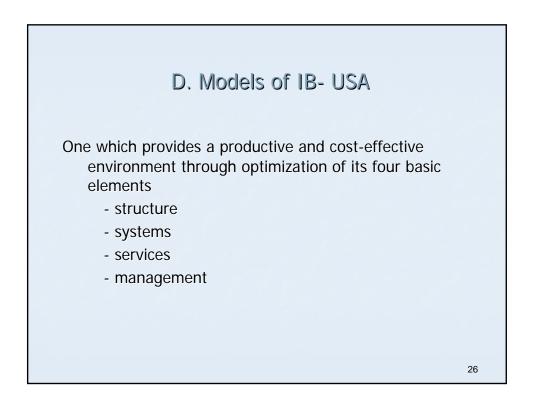


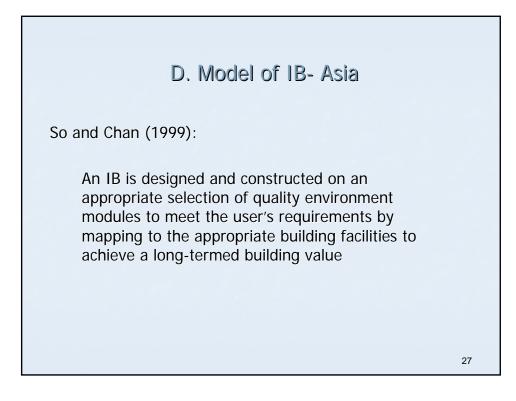


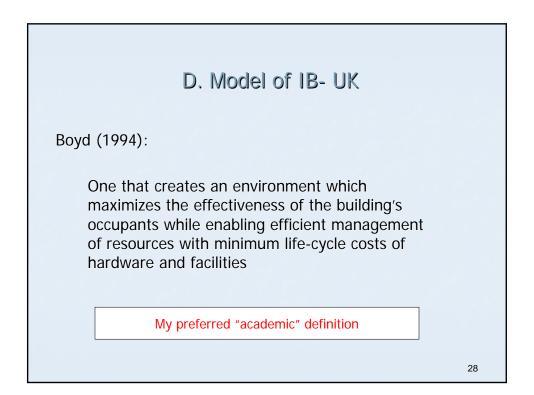


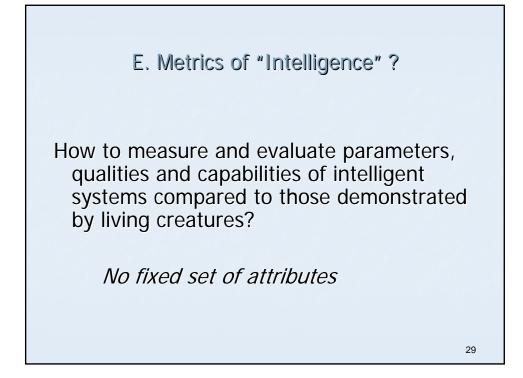


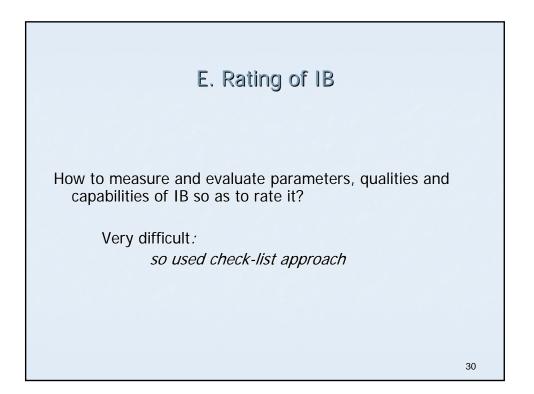


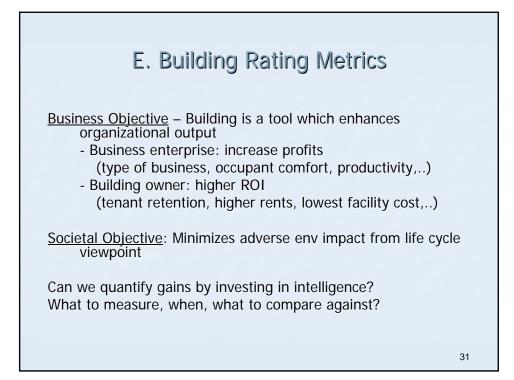












Sact	ion A: Building site/location	Sect	tion D: Organizational and work
	Locale		cess issues
	Site communications	1.000	Organizational complexity
16	infrastructure		Amount of relocation
3	Provision of local amenities		Boutineness of work
	Access to site by public and		Individual or work group
11	private transport		Work location
45	Access to carparks		Need for privacy
	Site and building security		Use of information technology
	Aspect		Use of wide area
1.000	 A set of the base base 		communications
Sect	ion B: Building shell issues	D9	Control of the work
31	Thermal shell strategy		environment
32	Structural grid	DIC) Concern about security
33	Planning and partition grids	1.	Access to workplace out
34	Floor size and configuration		of hours
BS	9		
B6	Space efficiency	Sect	tion E: Building services and
37	Floor depth and sectional		nology
	height	EL	HVAC zoning and control
B8	Imposed floor loadings	E2	Small power supply
B9	Provision of high load areas	E3	Back-up power provision
BIO	Communications infrastructure	E4	Cable distribution system
BII	Staff and visitor access	ES	Communication systems
312	Goods access	E6	Lighting sytems
313	Exterior/interior maintainability	E7	Building automation systems
B14	Atrium provision	E8	Space management systems
		E9	Business systems
Section C: Building skin issues		EIO	Access control and security
11	Services strategy	ELL	Furniture systems
C2	Solar control strategy	E12	Quality of finishes/installation an
3	Natural ventilation		maintenance (fit-out)

