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BUILDING CODE

- ◆ REGULATES ALL BUILDINGS
- ◆ ADDRESSES ISSUES:
 - USE
 - MATERIALS
 - FIRE SAFETY
 - LIFE SAFETY
 - EGRESS
 - ADA
 - STRUCTURAL
 - PLUMBING



GOALS OF BUILDING CODE

- ◆ LIFE SAFETY OF HUMAN BEINGS
- ◆ PROTECTS FIRE FIGHTERS
- ◆ CONTAINS FIRE IN SAME BUILDING
- ◆ STRUCTURAL PROTECTION



CAN THE BUILDING CODE BE USED GLOBALLY?

- ◆ HUMAN LIFE , IT IS ANY WHERE
- ◆ SAFETY IS GLOBAL
- ◆ CONSTRUCTION IS GLOBAL
- ◆ DESIGN IS GLOBAL
- ◆ SAFE BUILDING IS GLOBL



ISSUES WITH GLOBALIZATION

- ◆ ENFORCEMENT SYSTEM
- ◆ POLITICAL
- ◆ SOCIAL
- ◆ AVAILABILITY OF MATERIALS
- ◆ ALTERNATIVE METHODS
- ◆ EDUCATION
- ◆ TRAINING
- ◆ CERTIFICATION

INTERNATIONAL BUILDING CODE, IBC



- ◆ IT CAN BE USED ANY WHERE
- ◆ IT DEALS WITH:
 - ADMINISTRATION
 - USES
 - SPECIAL OCCUPANCIES
 - FIRE SAFETY
 - LIFE SAFTEY
 - EGRESS
 - HANDICAPPED
 - ENERGY CONSERVATION
 - STRUCUTRAL
 - LIGHT



IBC CONT.,

- ◆ MATERIALS
- ◆ CODE CHANGE PROCESS
- ◆ CLEAR PROCESS
- ◆ ALTERNATIVE MATERIALS
- ◆ ALTERNATIVE DESIGN
- ◆ THIRD PARTY REVIEW AND TESTING
- ◆ PERFORMANCE BASED DESIGN



WHERE DO WE GO FROM HERE?

- ◆ WOBO IS THE PERFECT ORGANIZATION
- ◆ STANDARDIZED CODES
- ◆ TEAM WORK
- ◆ KEEP THE OBJECTIVES CLEAR
- ◆ DISASTERS DO NOT HAVE BOARDERS



WHERE DO WE GO ? , CONT.,

- ◆ “ EARTHQUAKES DO NOT KILL PEOPLE,
FALLING BUILDING DO”
- ◆ SAFETY OF HUMAN BEINGS ANY WHERE
IN THE WORLD
- ◆ ROLES AND RESPONSIBILITIES OF ALL
PLAYERS:
 - OWNERS
 - DESIGN PROFESSIONAL
 - CODE OFFICIALS
 - GENERAL CONTRACTORS
 - OTHERS



EXAMPLE A HIGH –RISE BUILDING IN CAIRO

◆ USE IBC:

- USE CHAPTER 3
- CONSTRUCTION TYPE-CHAPTERS 5,6
- HIGH RISE REQUIREMENTS-CHAPTER 4
- FIRE SAFETY-CHAPTER 7
- EGRESS-CHAPTER 10
- ADA-CHAPTER 11
- STRUCTURAL LOADS-CHAPTER 16
- SPECIAL INSPECTIONS- CHAPTER 17
- SOILS REQUIREMENTS-CHAPTER 18



HIGH-RISE BUILDING IN CAIRO, CONT'D

- ◆ CONCRETE REQUIREMENTS-
CHAPTER 19
- ◆ MASONRY-CHAPTER 21
- ◆ STEEL –CHAPTER 22
- ◆ PLUMBING FIXTURES-CHAPTER 29