

21st Century Global Collaboration

Design and Development Team Collaboration Worldwide

Summary

The following represents a synopsis of the content for the presentation to the 20th Conference of Structural Engineers of Argentina, to be held in Buenos Aires on 15-17 October 2008. The program for the presentation will include a visual presentation, discussion of relevant issues related to design collaboration, discussion of Case Studies and a response to participant queries.

A. Introduction

1. Objectives
2. Overview of Issues
3. Relevance to 21st Century Opportunities
 - a. Evolution of world economy
 - b. Diversity of opportunities
 - c. Balance with Domestic Development activity
 - d. Firm Growth and global positioning

B. International Engagement - Issues For Consideration

1. Development Issues
 - a. Program, Scope and Size
 - b. Maturity of Markets and Demand
 - c. Financial Objectives
 - d. Time
 - e. Social and Cultural Influences
 - f. Design Quality
 - g. Sustainability
 - h. Funding Strategy
 - i. Prelet, Presales Program
2. Financial Issues
 - a. Project Budget
 - b. Sources of Funding
 - c. Fees and Expenses
 - d. Travel and Subsistence
 - e. Payments and Collections
 - f. Taxes, Duties, other Business Costs
3. Legal and Contractual Issues
 - a. Professional Practice requirements
 - b. Licensing
 - c. Contracts, Forms of Agreement
 - d. Insurance requirements
 - e. Limits of Liability

4. Organizational Issues
 - a. Who is the Client?
 - b. Development Team structure
 - c. Design Team structure
 - d. Specialist Design requirements
 - e. Agents, Enablers, Handlers
 - f. Coordination and Design Management
 - g. Project Schedule
 - h. Preconstruction Services
 - i. Construction Services
5. Operational Issues
 - a. Project Process
 - b. Team Interaction and Integration
 - c. Communications System and Management
 - d. Document Management
 - e. "Official Project language"
 - f. Translation requirements
 - g. IT/CAD functionality, systems and standards
 - h. Meetings and Presentations
 - i. Coordination and Management
6. Design and Technical Issues
 - a. Design Quality program
 - b. Quality Assurance program
 - c. Codes, Standards and Regulatory requirements
 - d. Material Standards
 - e. Material Technologies
 - f. Availability of Systems
 - g. Availability of qualified labor

C. Project Specific Considerations

1. Issues unique to Case Studies presented below

D. Case Studies – a profile of collaborative models used on past projects

1. North America - Dearborn Center, Chicago
2. Asia – Korean Airlines Operations Center, Seoul
3. Europe – Broadgate, London
4. Asia – Jin Mao Tower, Shanghai
5. Europe – Vila Olimpica, Barcelona
6. Middle East – Dubai Airport
7. Europe – Merchant Square, London

- 8. Saudi Arabia – University Projects
- 9. North America – The Chicago Spire, Chicago
- 10. Other New Pursuits – Istanbul, St. Petersburg, Emirates, Warsaw

E. Conclusions, Key Issues and Recommendations

F. Comments and Discussion

Exhibits – Images of Case Studies



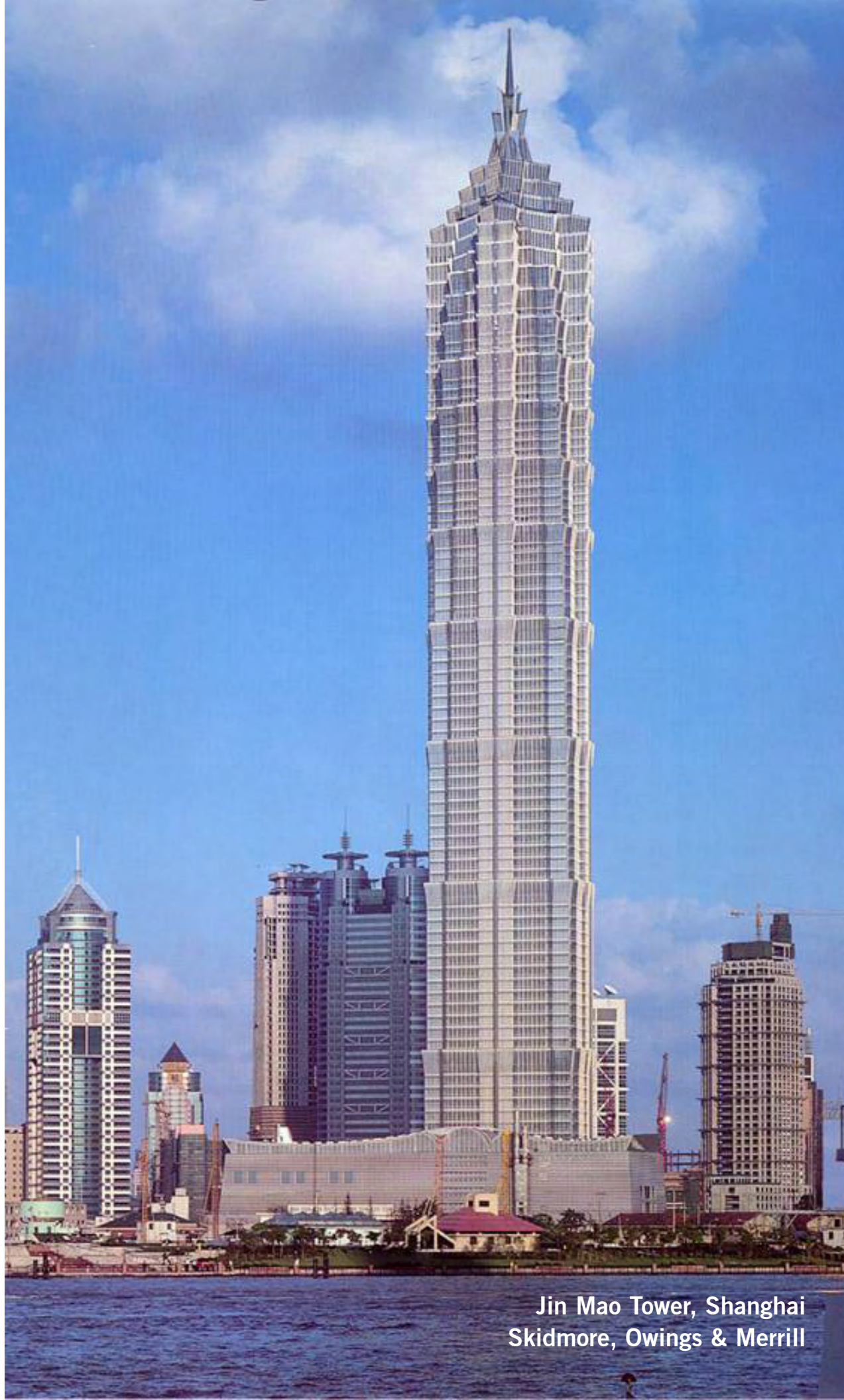
Dearborn Center, Chicago
DeStefano + Partners



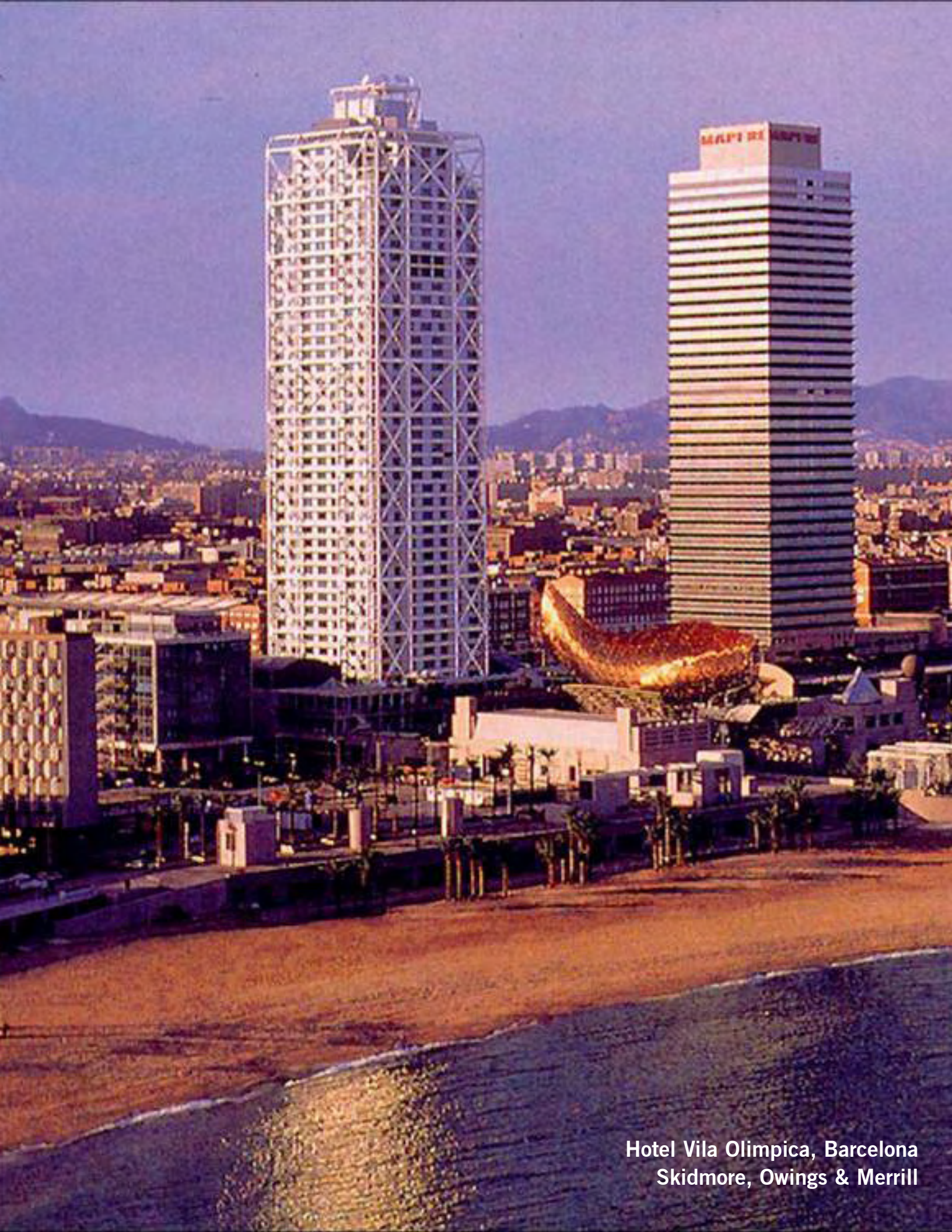
Korean Airline Operation Center, Seoul
Skidmore, Owings & Merrill



Broadgate, London
Skidmore, Owings & Merrill



Jin Mao Tower, Shanghai
Skidmore, Owings & Merrill



Hotel Vila Olimpica, Barcelona
Skidmore, Owings & Merrill



Dubai International Airport, Concourse 3, Dubai
Perkins+Will



Merchant Square, London
Perkins+Will



Chicago Spire, Chicago
Courtesy: Shelbourne Development/Santiago Calatrava