NWCCC 2004 Seattle, Washington





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The McLain Group

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Information Technology Council



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TMG Development/Infrastructure TMG Real Estate Technology TMG Facility Life Cycle Management TMG Energy





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Publications

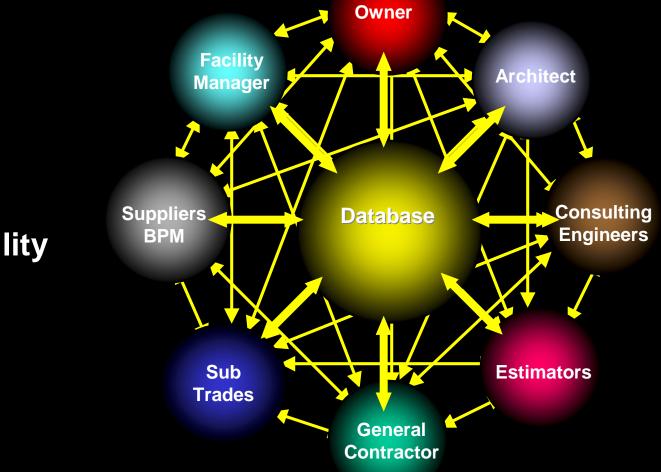




"It is generally much easier to kill an organization than change it substantially." Kevin Kelly



Integrated Data Solution



Interoperability

Information Categorization & Standards

MasterFormat OmniClass IAI - IFC's



Current AEC/FM information problems

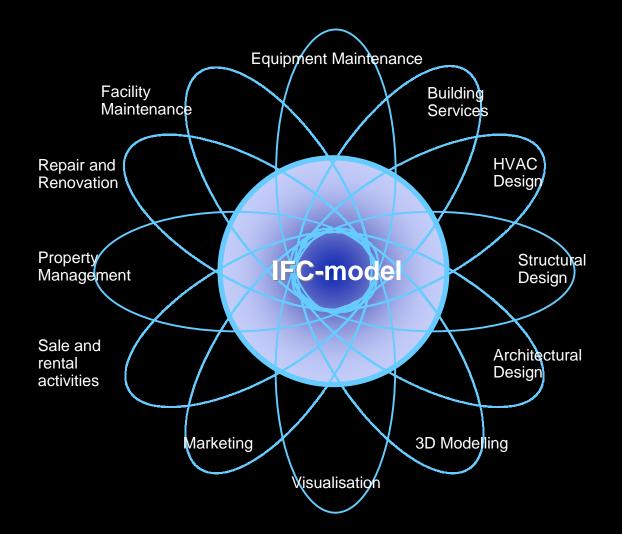
Information is:

- -not in usable format
- -not consistent
- –not updated with systematic change and versioning management

Consequences:

- -non-value adding work
 - reproduction of information in different format
 - manual document comparison and version checking
- -delays
- -errors and rework on site

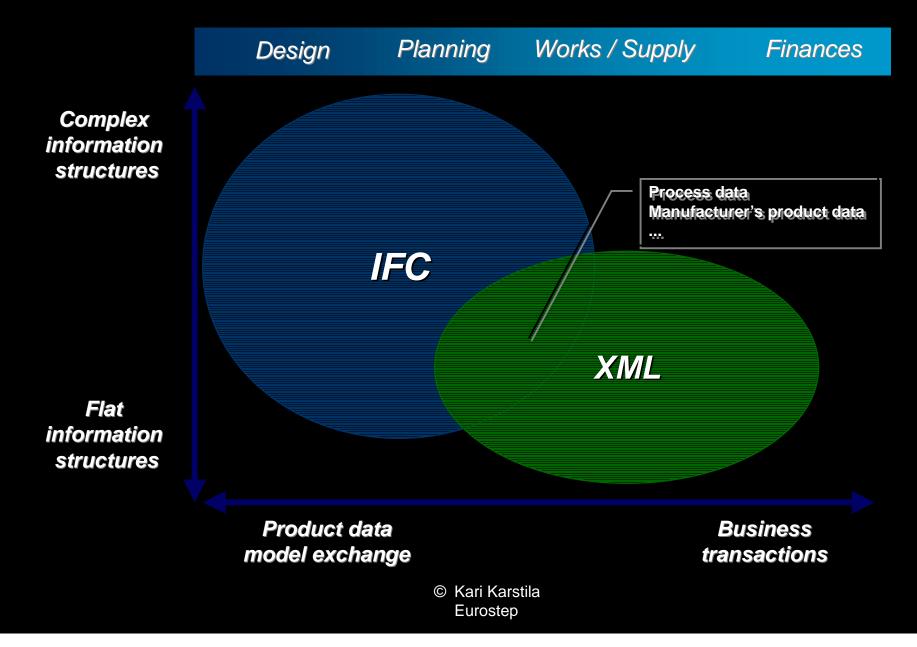
Coverage of the IFC model



Many AEC/FM activities need at least part of the common basic data

IFC does not try to standardize data structures in software applications, only the shared information

IFC and XML



Concepts Supported in the current IFCs

• Cross industry

-projects, buildings, building storeys, design grids, constraints (design, building codes, budgets), networks (topology), library links over Internet

Architectural design

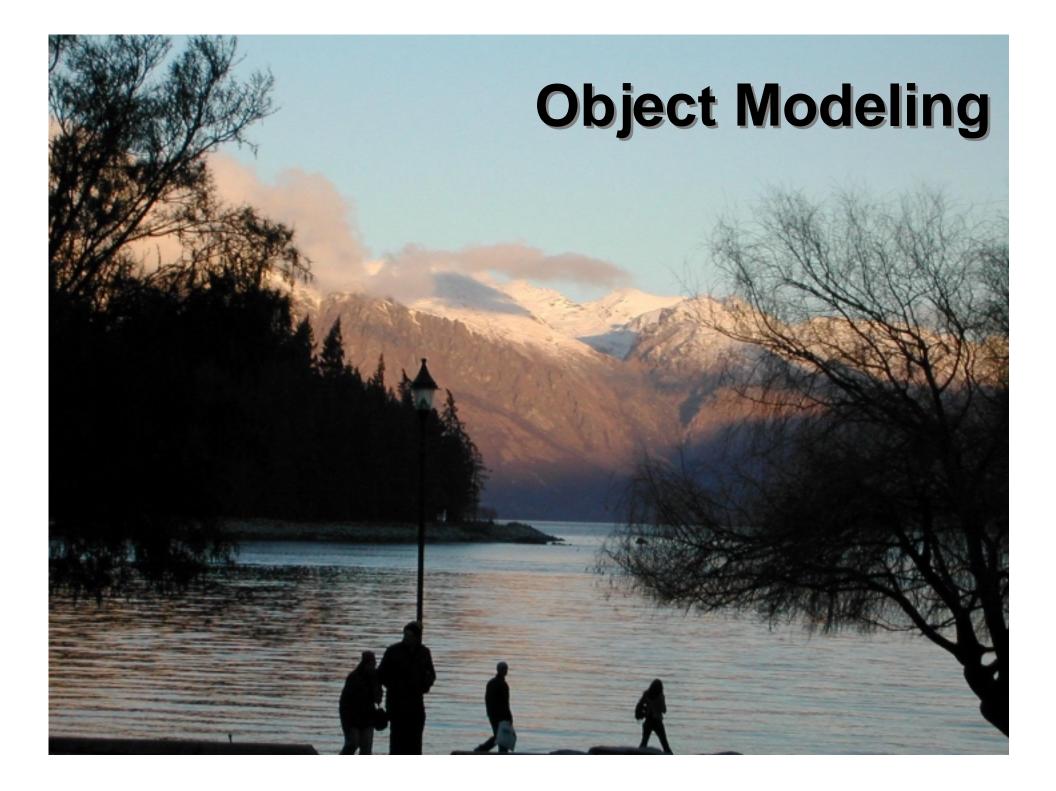
- -spaces, walls, doors, windows, columns, beams, floors, roof slabs, curtain walls, roofs, stairs, ramps, restrooms, elevators, escalators, cabinets, counters, accessories
- HVAC design
 - -HVAC equipment (all kinds), ducting and piping systems, thermal load calculations

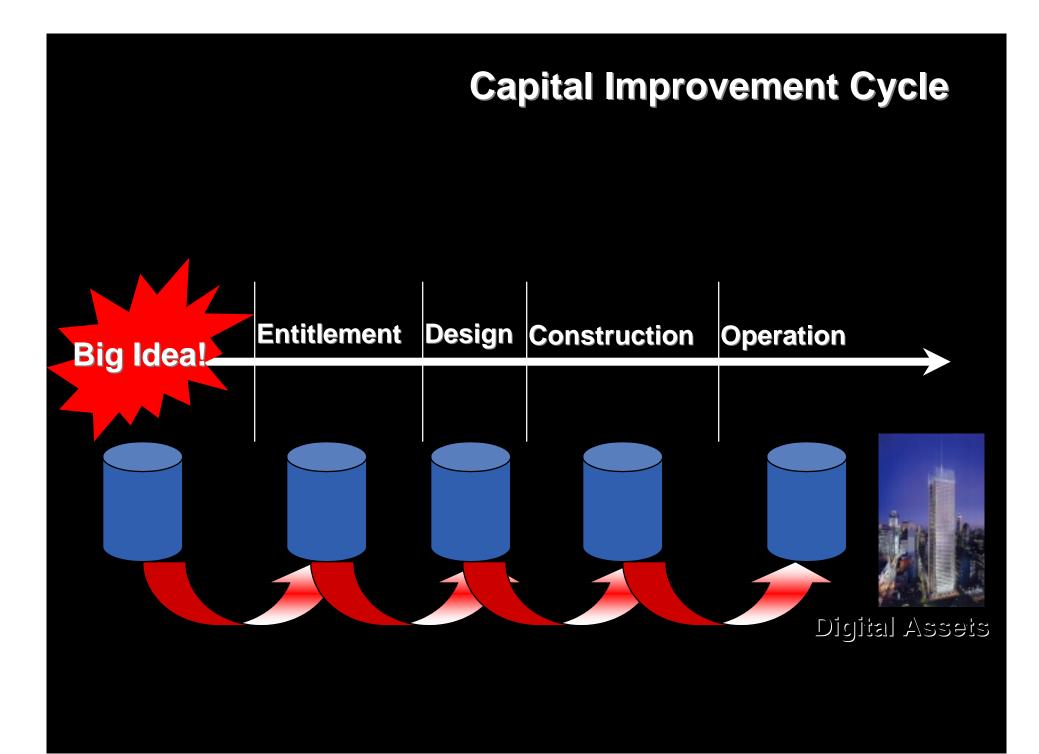
Construction Management

- -costs & cost schedules (for quantities and cost estimating), work tasks & work groups (for work planning & scheduling)
- Facilities management
 - -furniture, office equipment, occupants, panel systems, asset information, work orders & move plans (for occupancy planning / move management)
- Building codes

-energy code checking, occupant escape from fire, handicapped access to buildings







WTC Redevelopment







Hudson Yards, New York City





3D Components

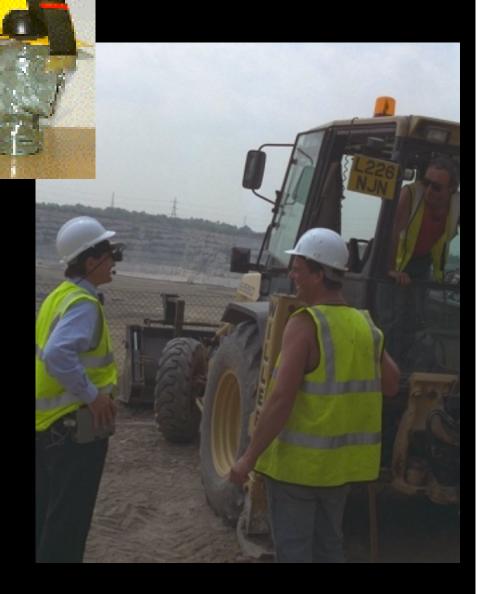












Mobile Devices

Cell Phones PDA Beeper Hybrids Smart Cards Clothes Jewelry





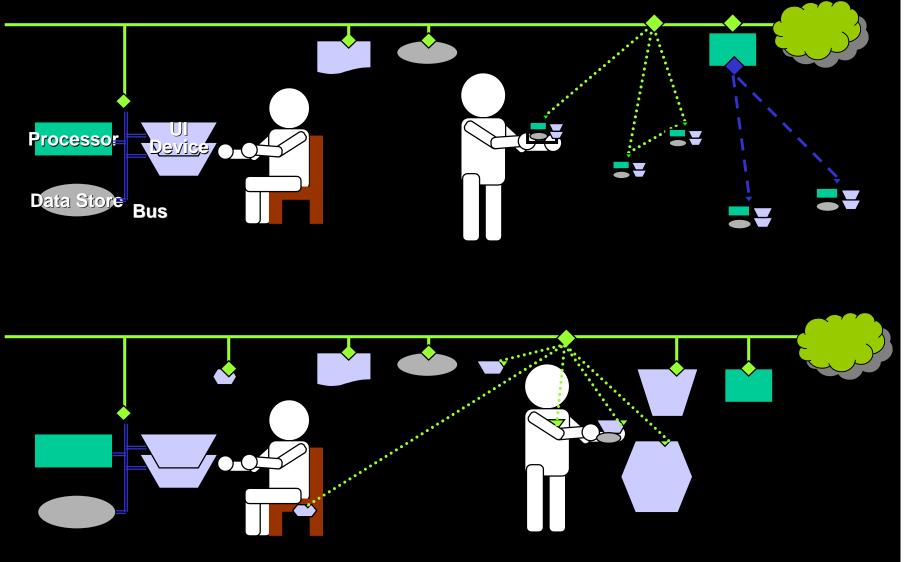






Advanced Integration

Beyond Mobile Computing



Highly Integrated Computing

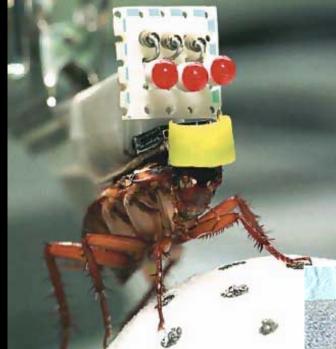






Hong Kong – Octopus Card









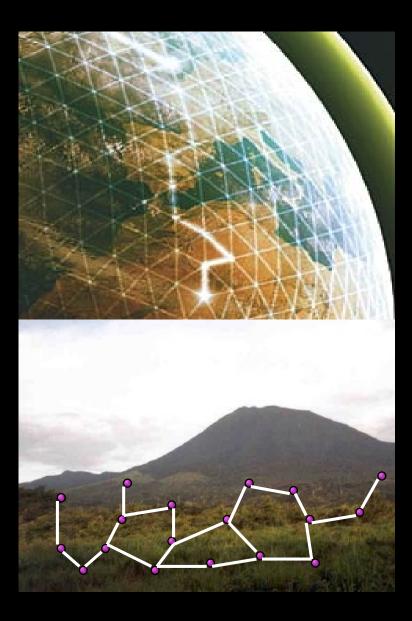
The Department of Homeland Security

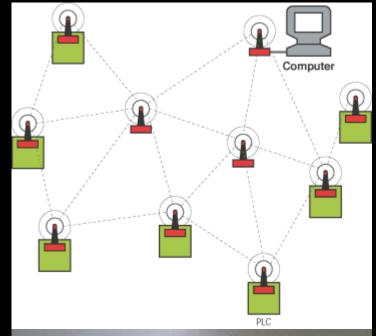


President George W. Bush

June 2002

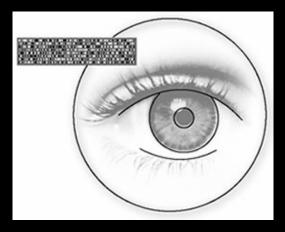
Wireless Mesh Networks



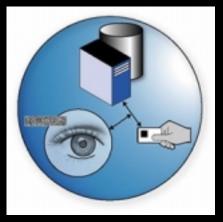




Biometrics



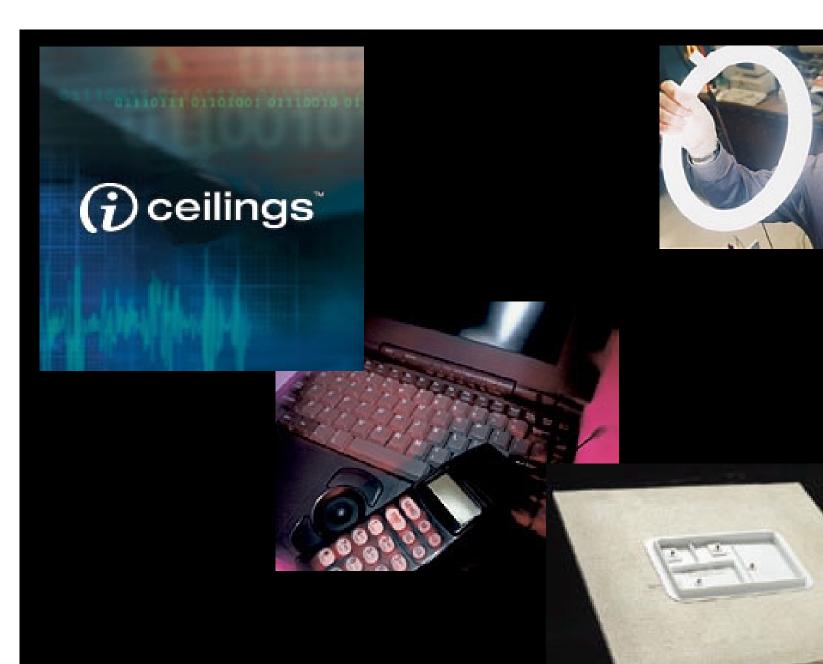


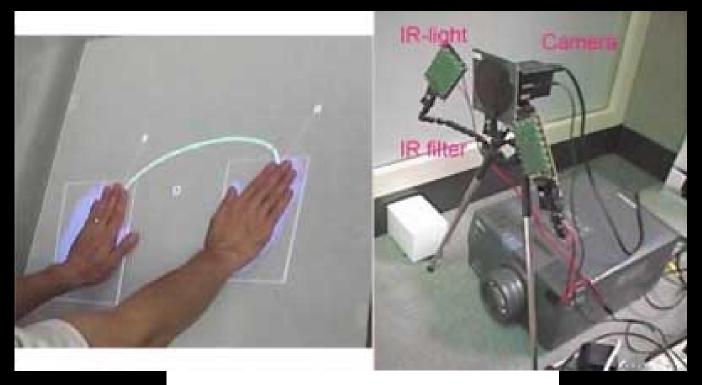


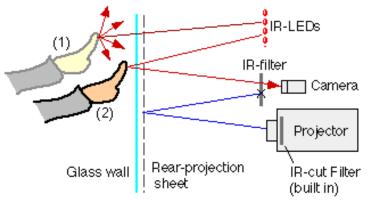












The Art of the Possible

Transparency...

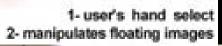








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Resources & Acknowledgements

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