

#ITCon22

# Make BIM Count Where It Matters

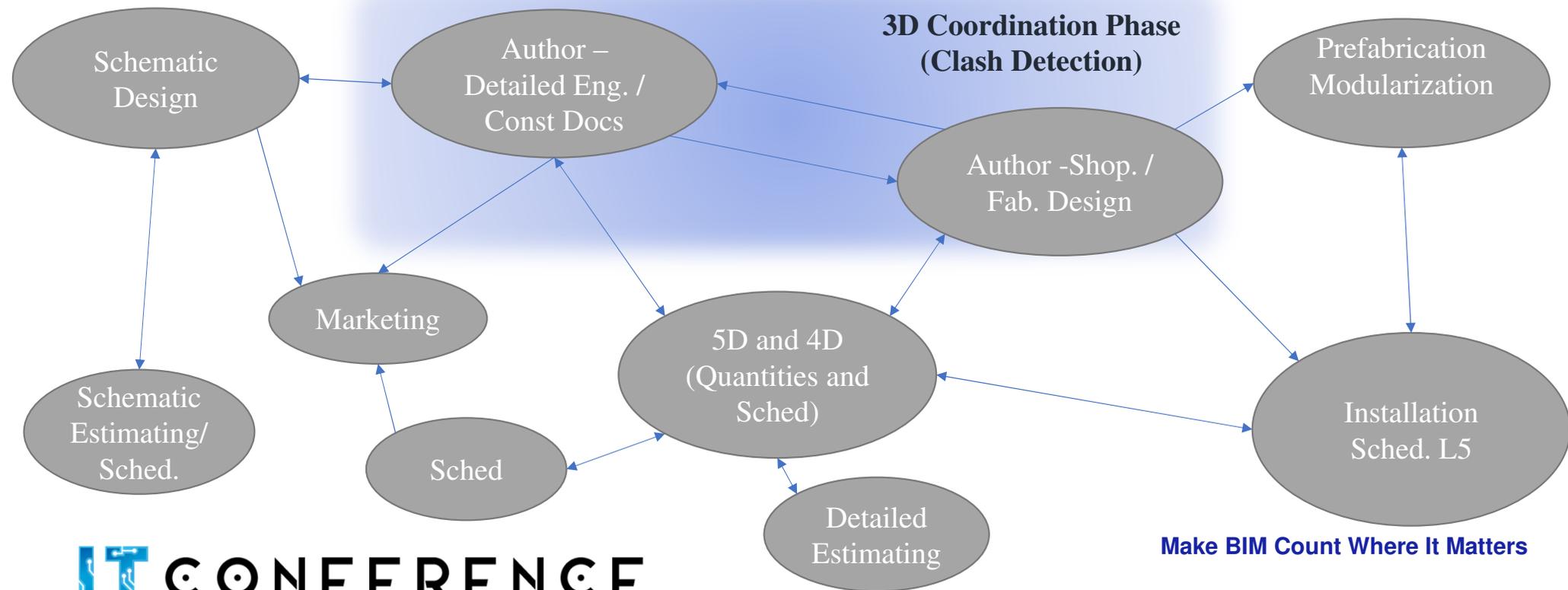
Benjamin Crosby  
Director of BIM / VDC  
Yates Construction

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FOR CONSTRUCTION PROFESSIONALS

# Where Does it Matter

- Efficiency
- Clash Detection
- Design Issues
- Collaboration
- Risk Mitigation
- Coord Execution
- Scheduling

# BIM Phases



# Level of Development - LOD

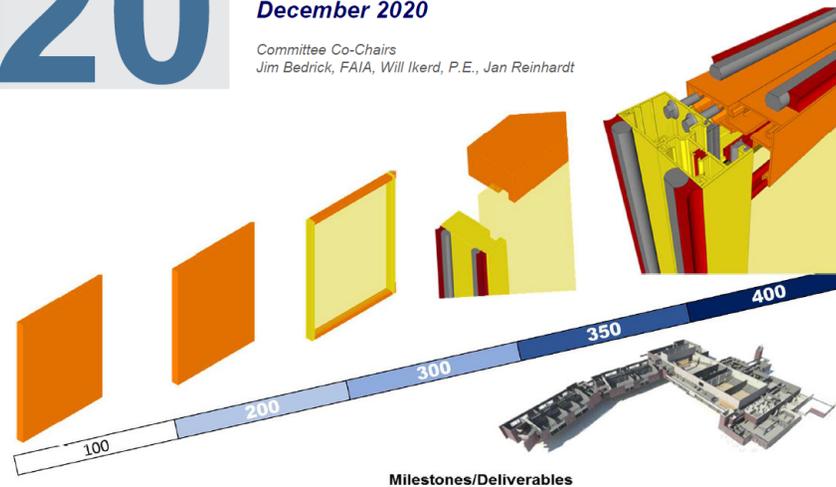
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## BIM FORUM LEVEL OF DEVELOPMENT (LOD) SPECIFICATION PART I & COMMENTARY

*For Building Information Models and Data*

**December 2020**

Committee Co-Chairs  
Jim Bedrick, FAIA, Will Ikerd, P.E., Jan Reinhardt

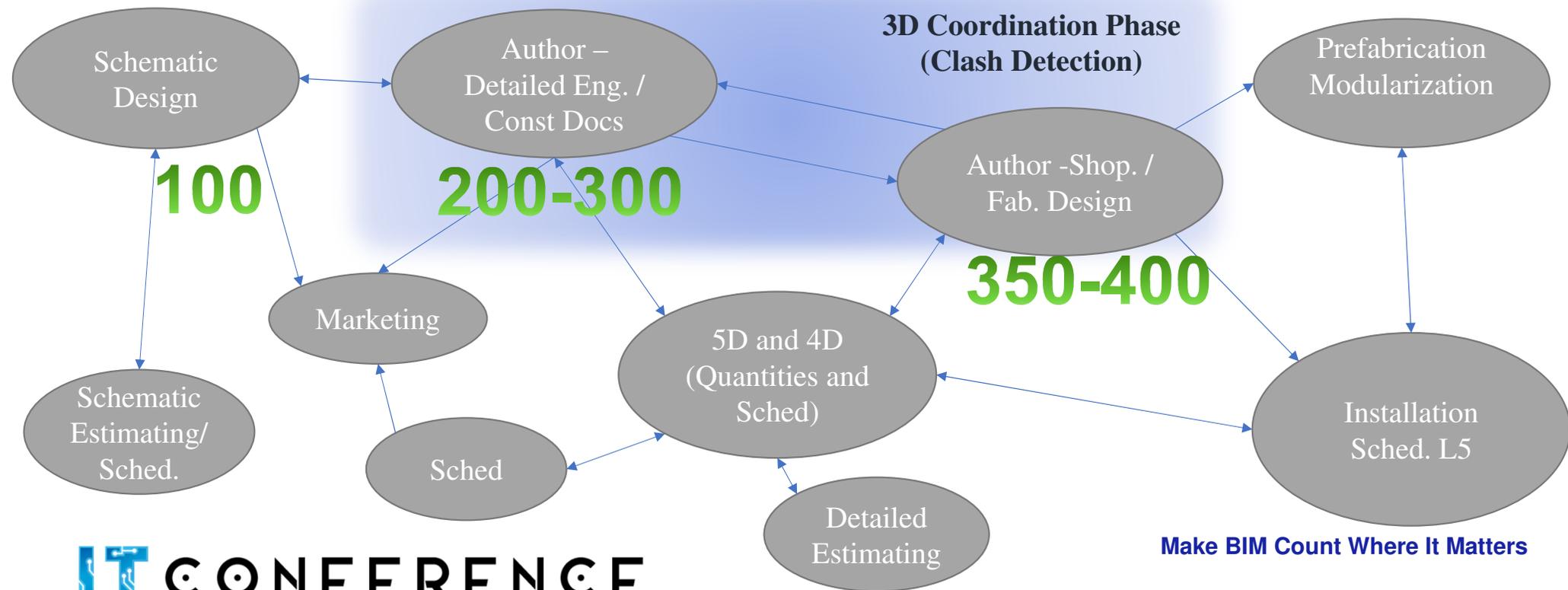


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# BIM Phases With LOD



# Where it Matters / Shops

Model Based Design

Model Based Shop DWG

DESIGN Requirements

ARCH

CIVIL

STRUC

MEPS

More

Design Models

BIM

Const. Models

FLOOR

MASON

SPRINK

SECUR

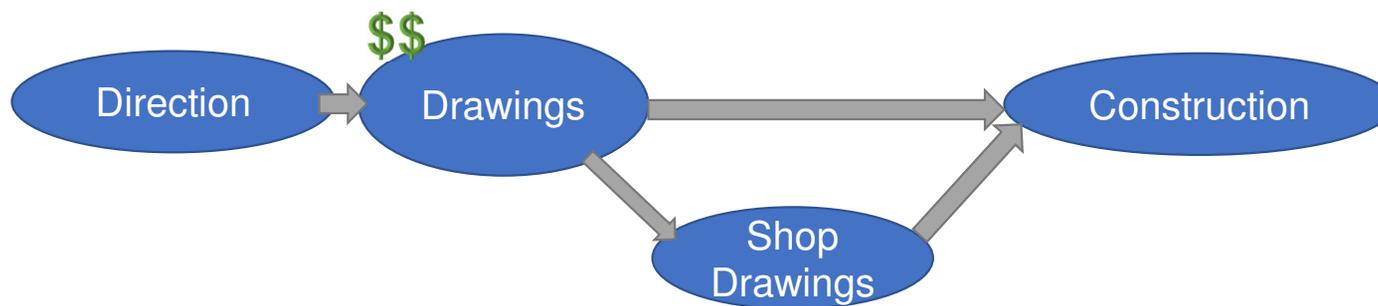
Coord. Models

ment

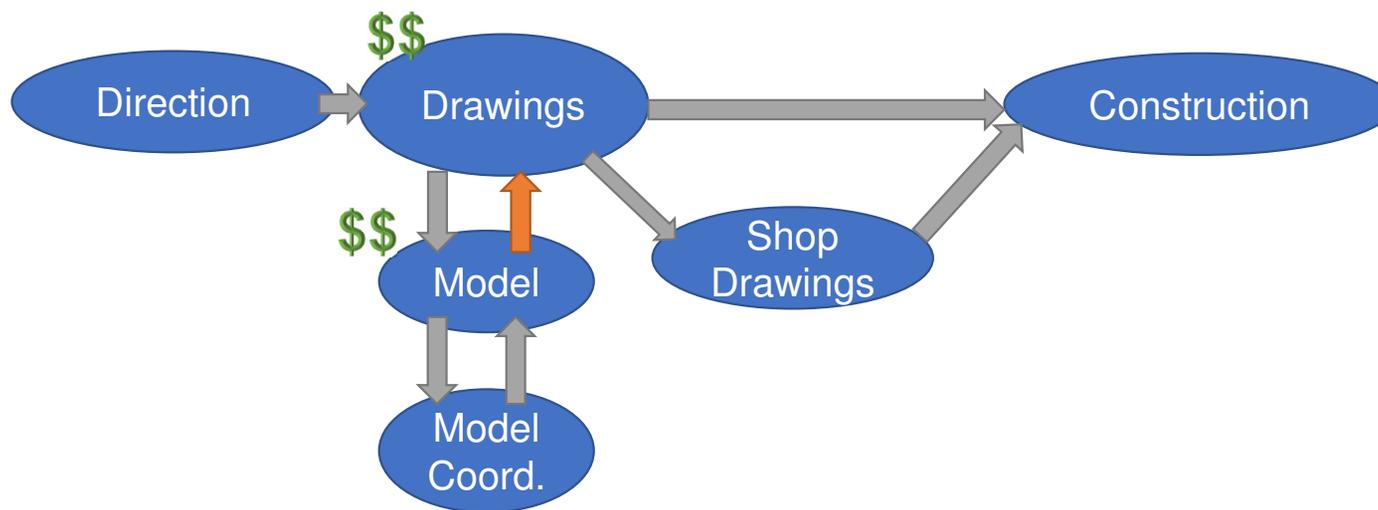
Set Model to Origin

ated Model

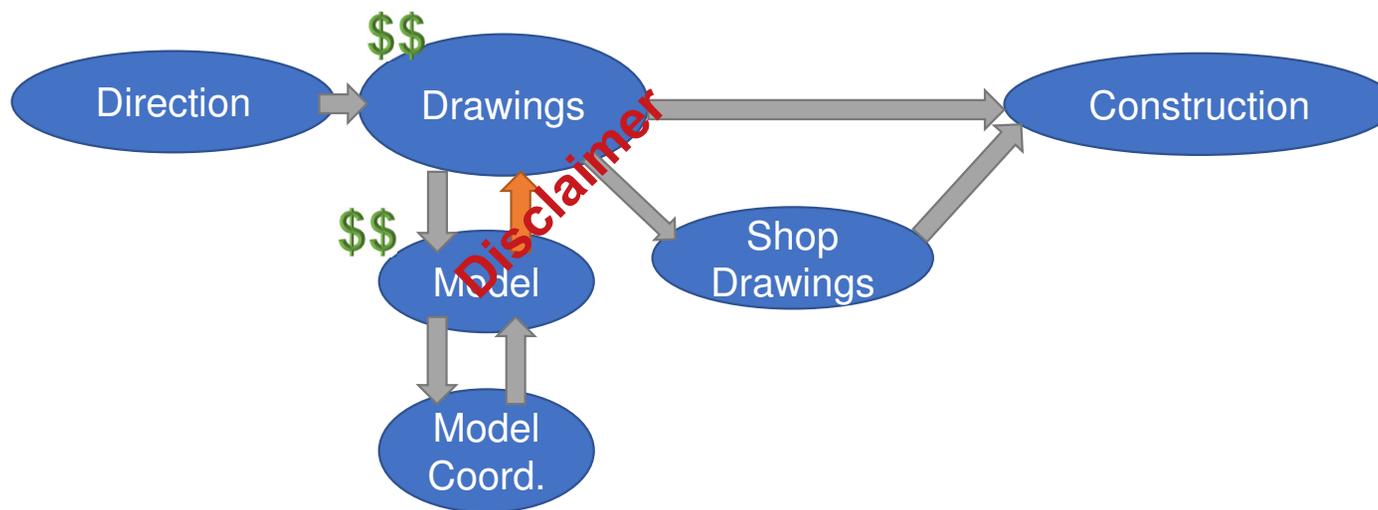
# Design Models that Count



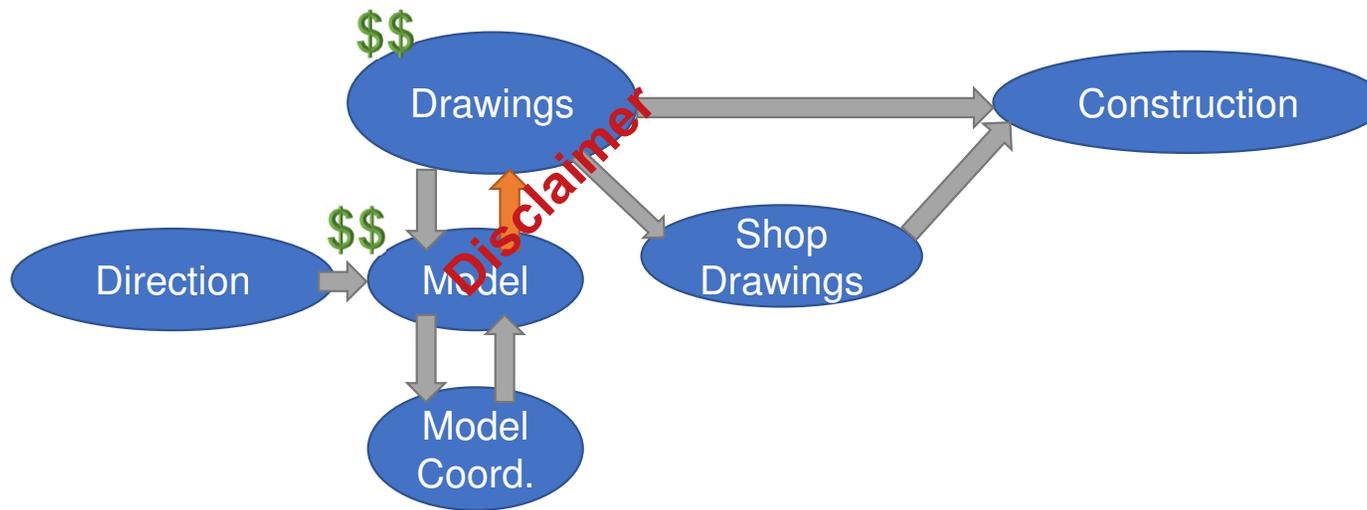
# Design Models that Count



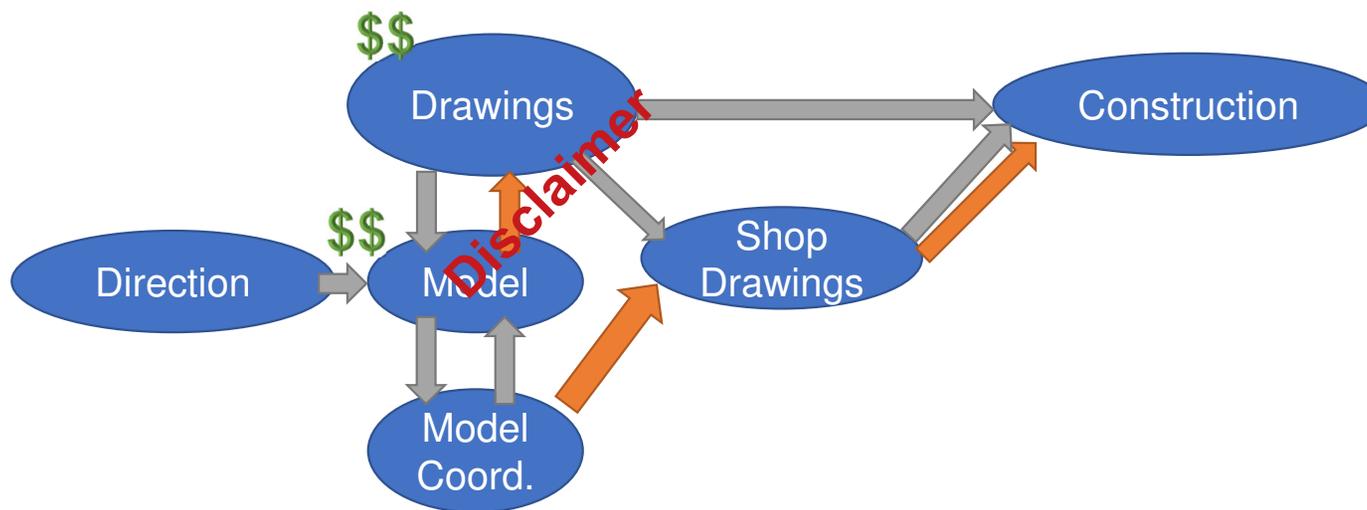
# Design Models that Count



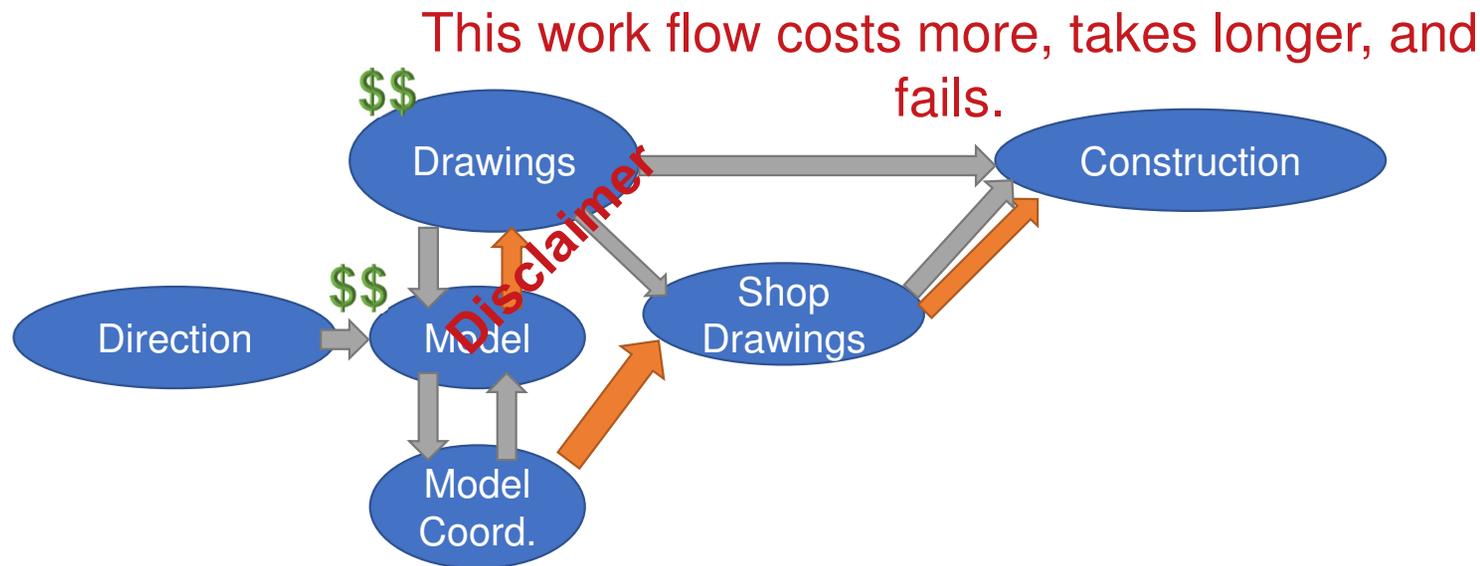
# Design Models that Count



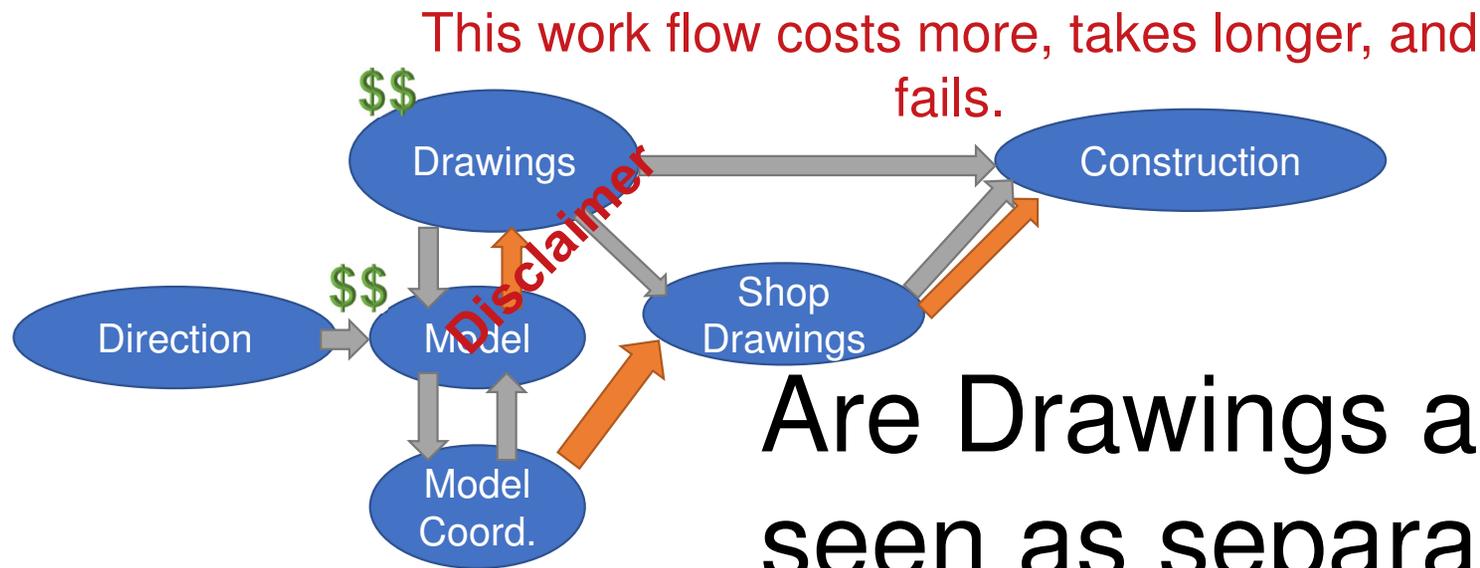
# Design Models that Count



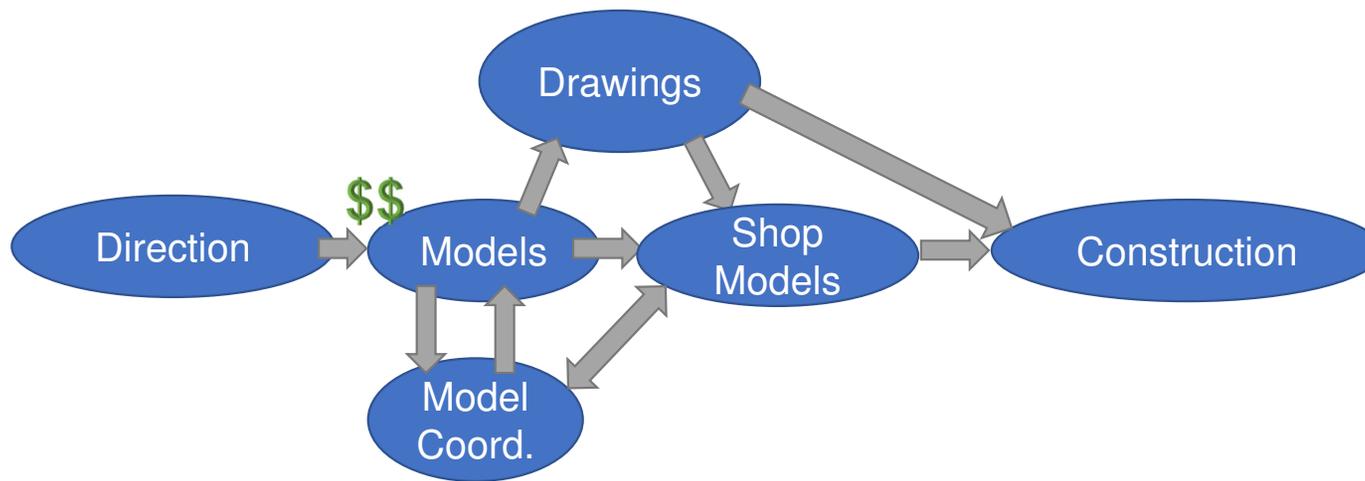
# Design Models that Count



# Design Models that Count



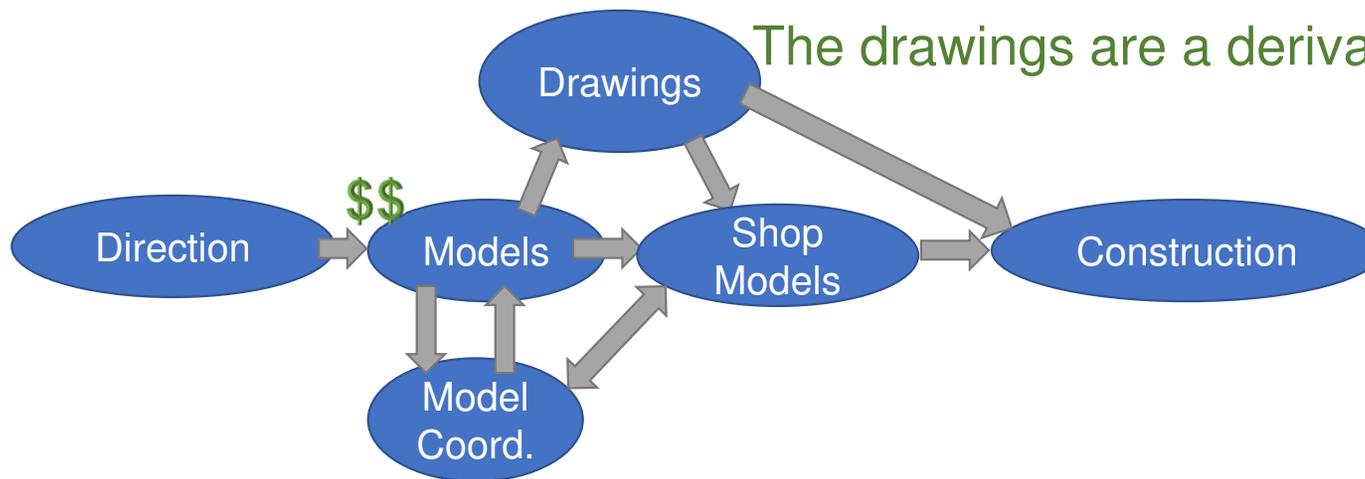
# Design Models that Count



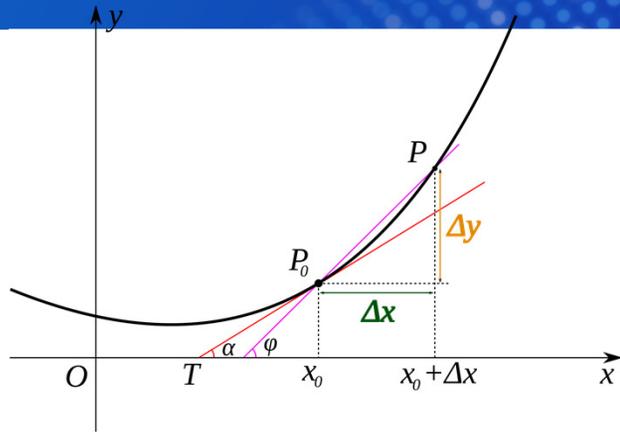
# Design Models that Count

This is the way to do it!

The drawings are a derivative of the model.



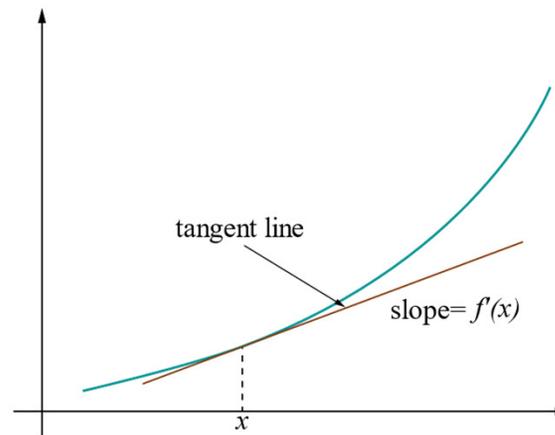
# Design Models that Count



CALCULUS



**derivative**





# Design Models that Count – What Counts?

- ???

# Design Models that Count – What Counts?

- LOD 300
- Dimensions
  
- UMSTEM

# Where it Matters / Shops

Model Based Design

Model Based Shop DWG

DESIGN  
Requireme

Design  
Models

Const.  
Models

FLOOR

MASON

SPRINK

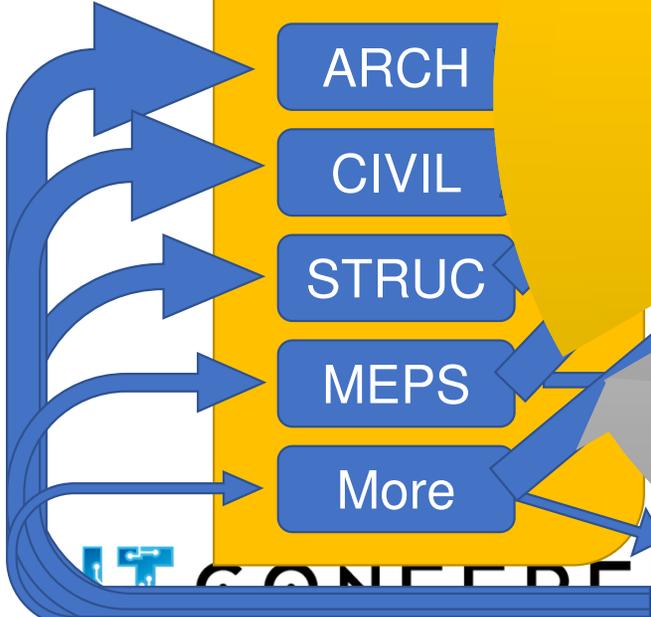
SECUR

BIM

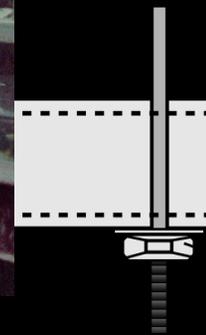
Coord.  
Models

ment

Set Model to  
Origin



# Trade Models that Count – Why it Counts?



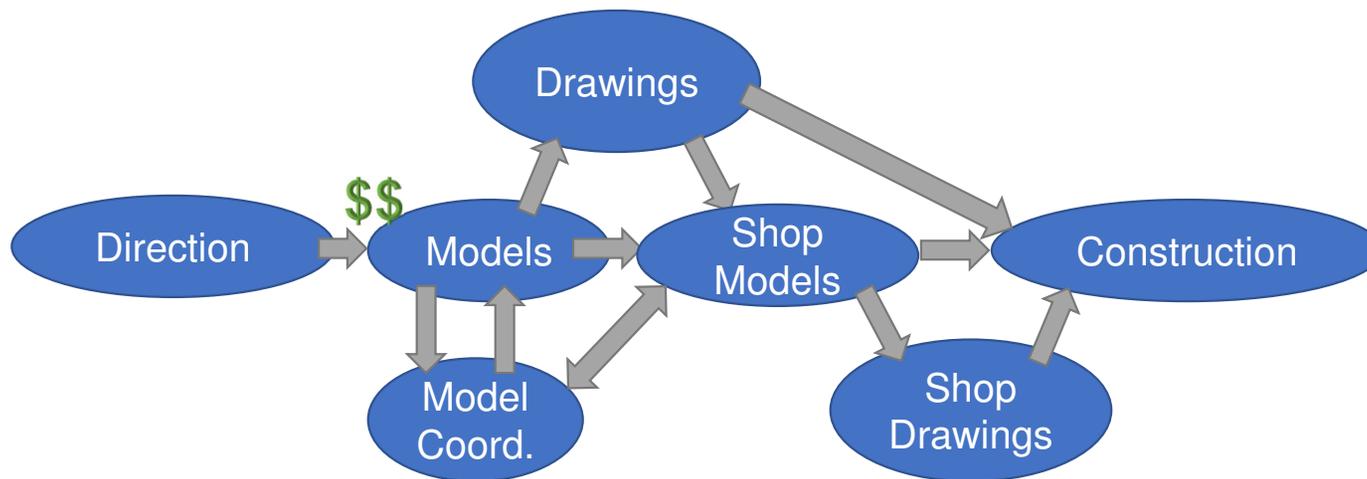
P on nut



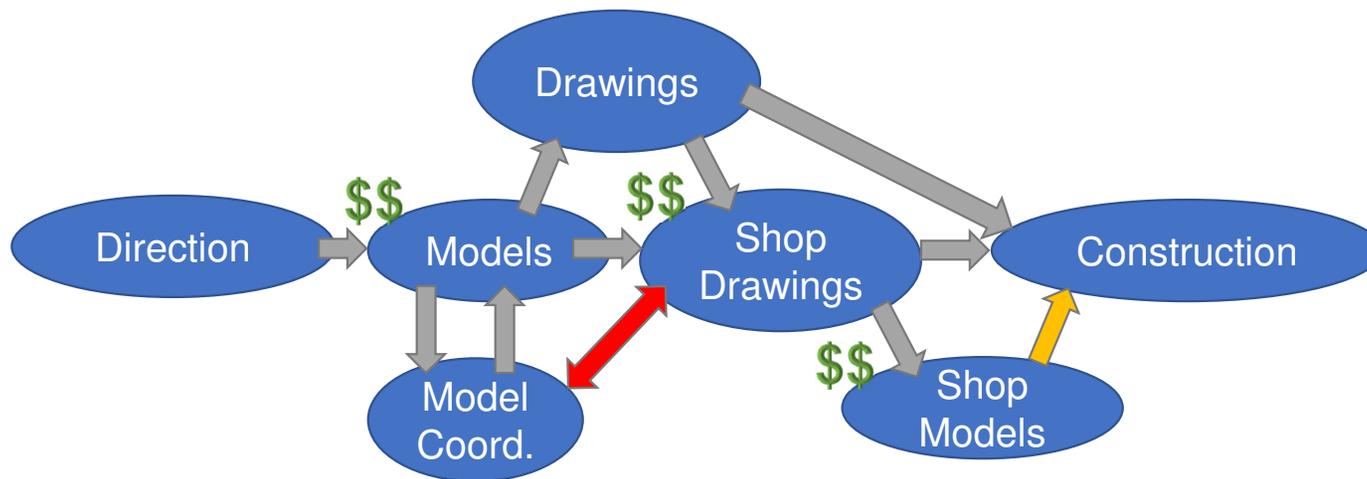
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# Trade Models that Count

This is the way to do it!



# Trade Models that Count – NOPE!



# Trade Models that Count – What Counts?

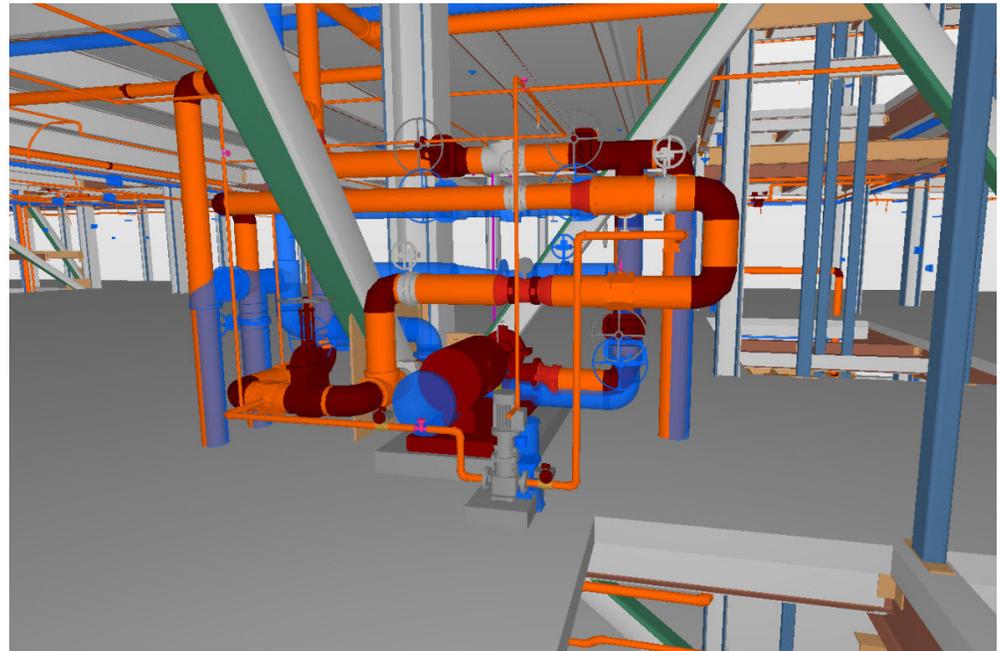
- ???

# Trade Models that Count – What Counts?

- LOD 350
- Everything

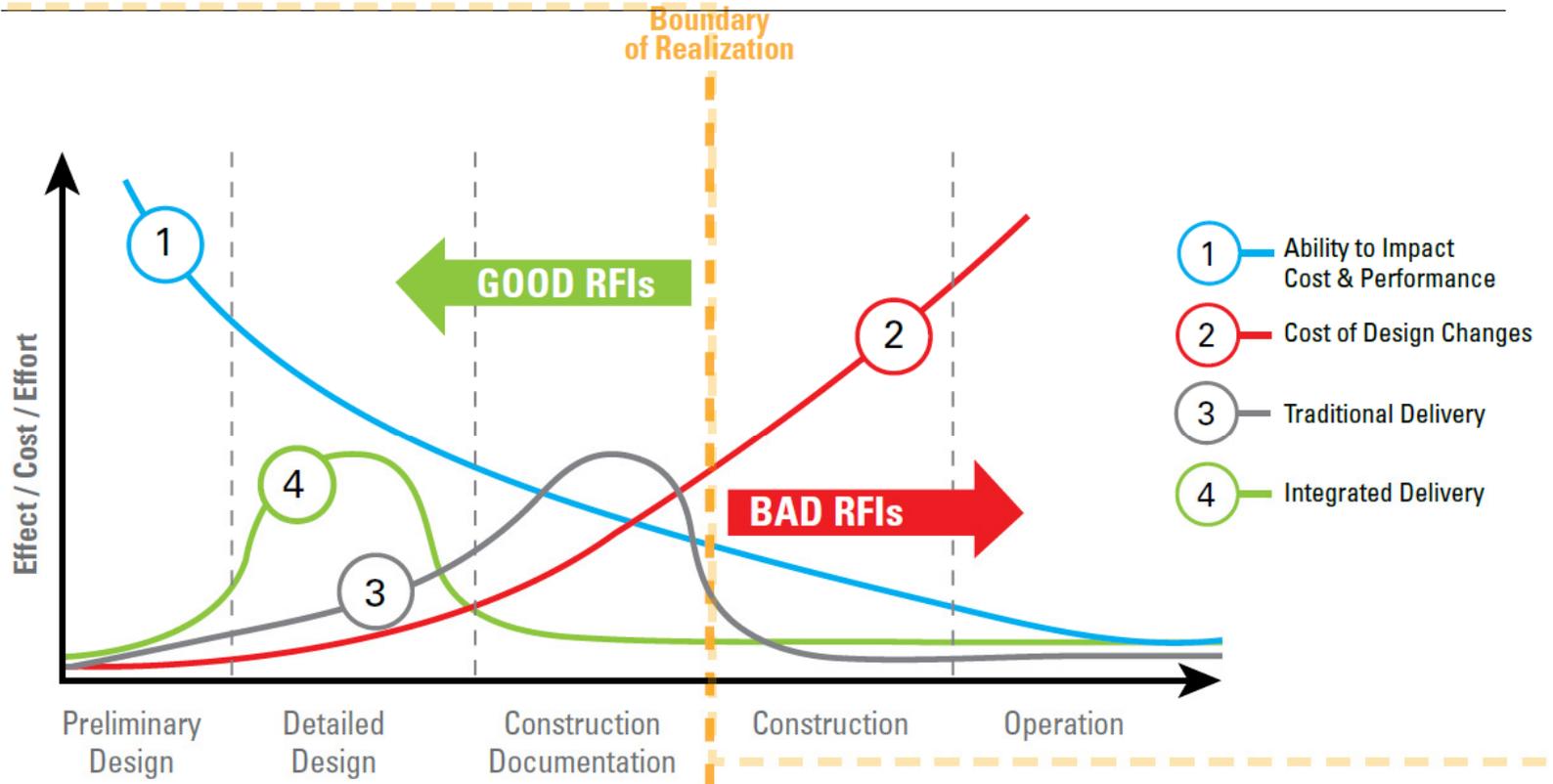
# Models that Count – Why it Matters?

- Build the Building Twice
  - Digital – cost nothing to fix
  - Physical – where it counts



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## The MacLeamy Curve



# Trade Models that Count – What Counts?

- UMSTEM



# Questions?

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# ITCON WILL RETURN IN

**2023** CHICAGO, IL  
AUGUST 22-24

FAIRMONT MILLENNIUM PARK

