

ENHANCED INTEGRATION:

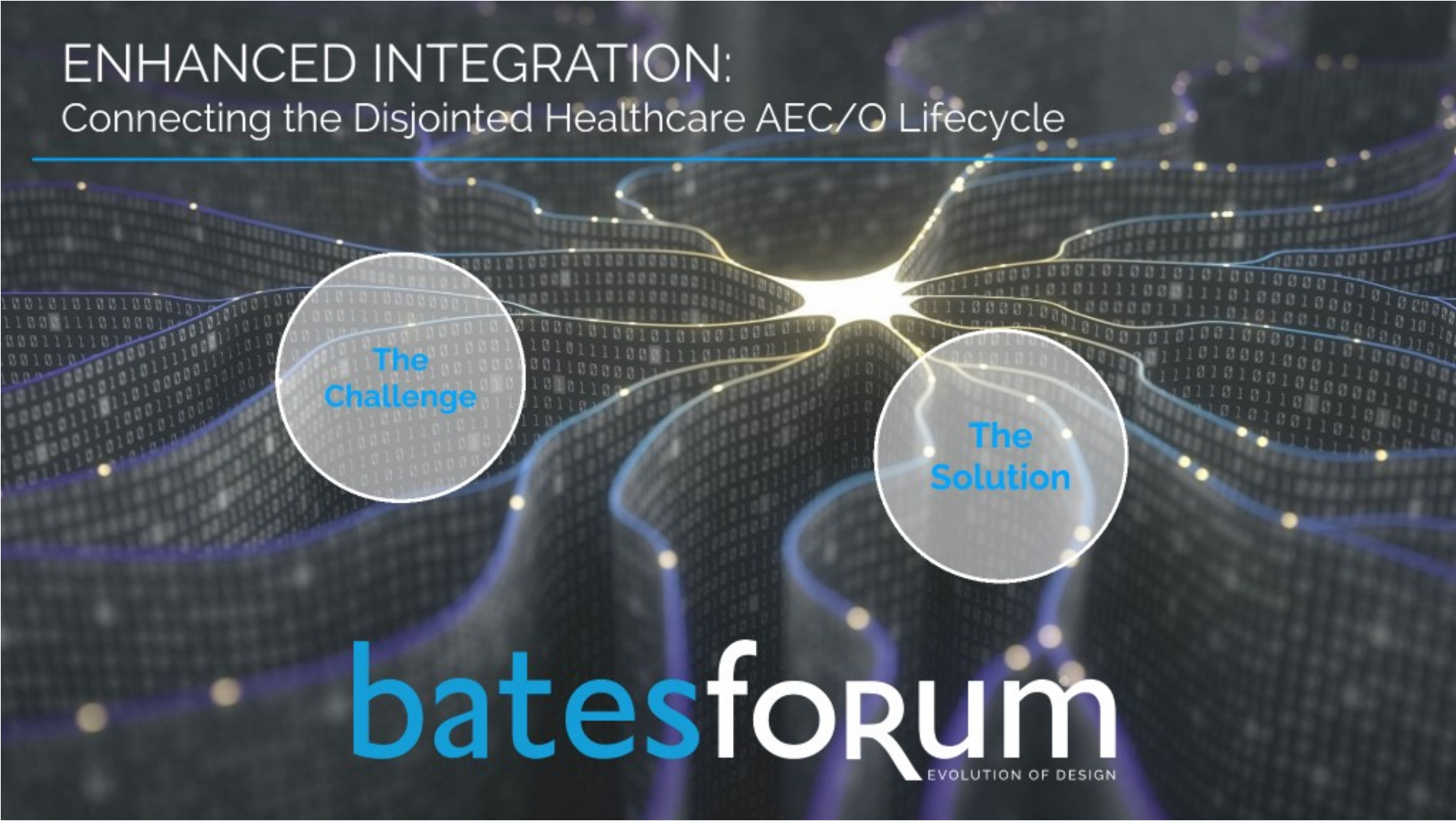
Connecting the Disjointed Healthcare AEC/O Lifecycle

The background of the slide is a dark, textured surface covered in a grid of small, glowing binary digits (0s and 1s). Overlaid on this are several wavy, glowing lines in shades of blue and yellow. These lines originate from a bright, star-like point in the center and radiate outwards, creating a sense of dynamic movement and connectivity. The overall aesthetic is high-tech and digital.

batesforum
EVOLUTION OF DESIGN

ENHANCED INTEGRATION:

Connecting the Disjointed Healthcare AEC/O Lifecycle



The
Challenge

The
Solution

batesforum
EVOLUTION OF DESIGN





Delivering the Promise

P.D.C.O.M.M. - Connecting the Dots
Enhanced Integration!



5th Largest

Catholic HealthCare System

40,000

Employees

35

Hospital Facilities

25+ Million Sq.Ft.

Managed Facilities

4th Largest

Integrated Physician Org.

12,000

Other Clinical Providers

9.2 Million

Outpatient / Office Visit

21,000

Primary / Specialty Care Physicians





Primary Service Areas:

Missouri
Oklahoma
Arkansas
Kansas



VISIONARY



VISION STATEMENT

"We are the people of Mercy Health Ministry. Together, we are pioneering a new model of care. We will relentlessly pursue our goal to get health care right. Everywhere and every way that Mercy serves, we will deliver a transformative health experience."



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LEVERAGING TECHNOLOGY



Revolutionize!





Save Time & Money!





INNOVATIVE TECHNOLOGIES

Leverage
Creativity

Visualize
Environments



Build Before
We Build

Virtual
Environments



Increase
Efficiency

Life-Cycle
Asset Tracking

Leverage
Creativity

Visualize
Environments





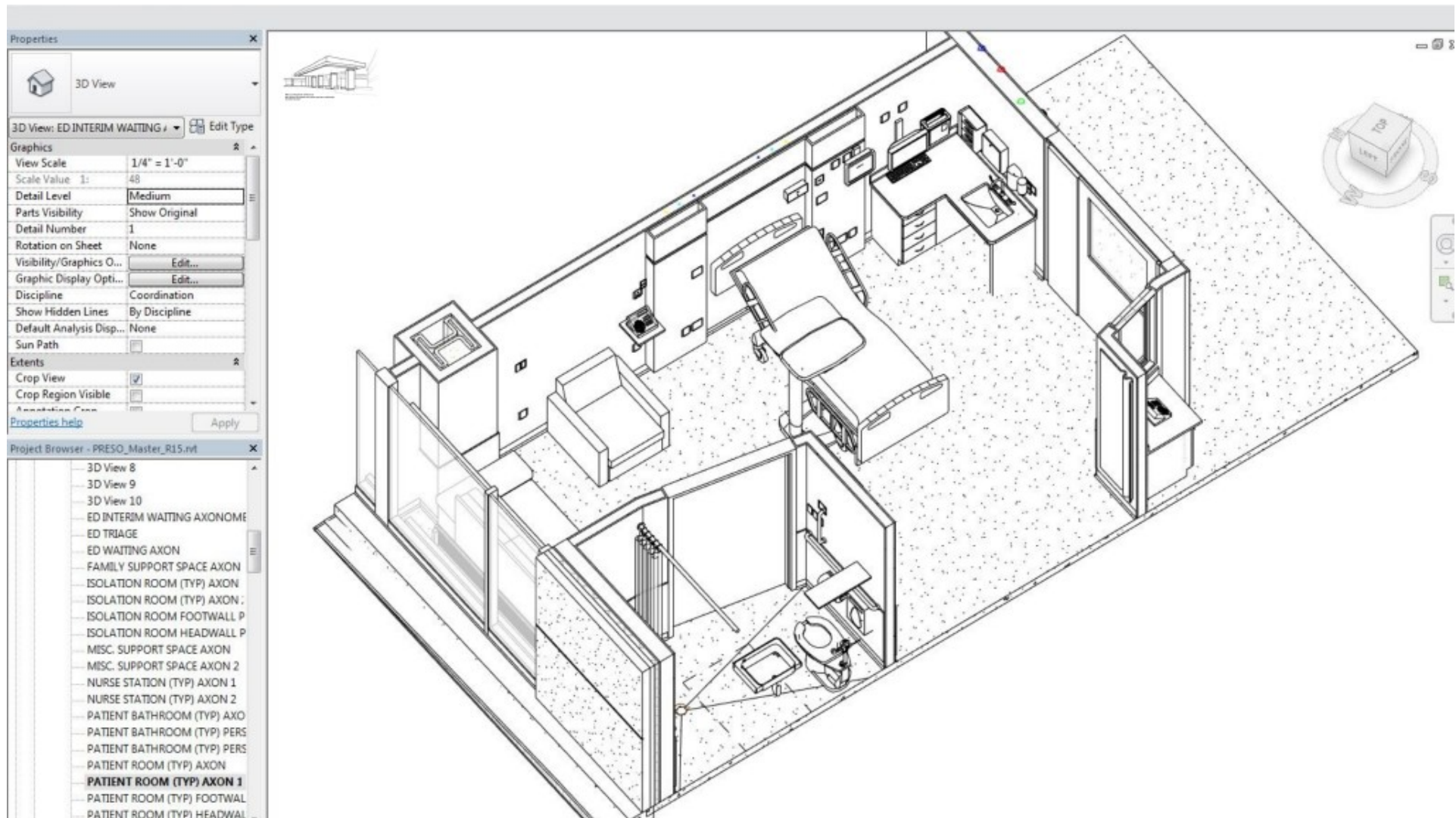
Build Before
We Build

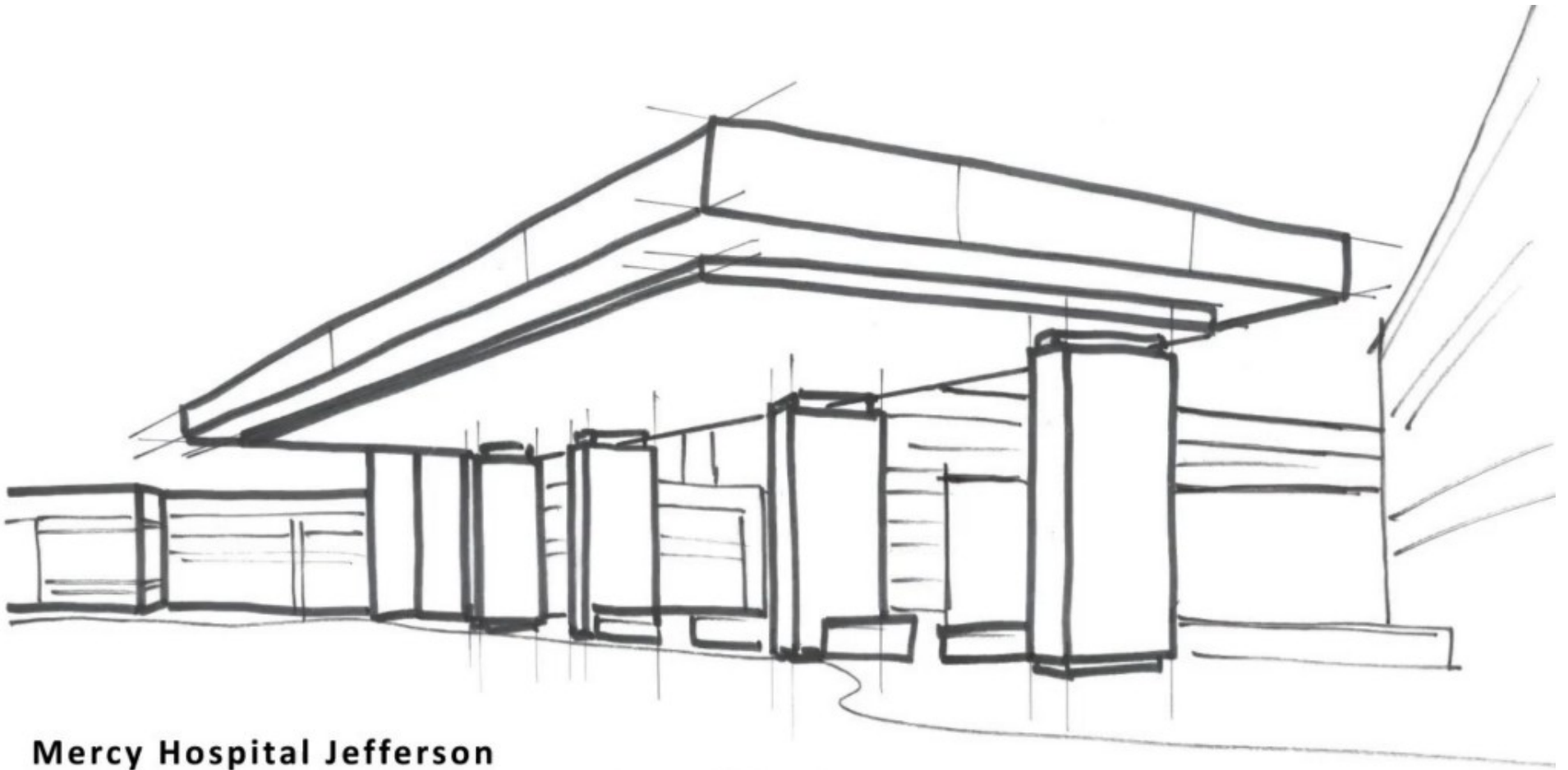
Virtual
Environments



Increase
Efficiency

Life-Cycle
Asset Tracking

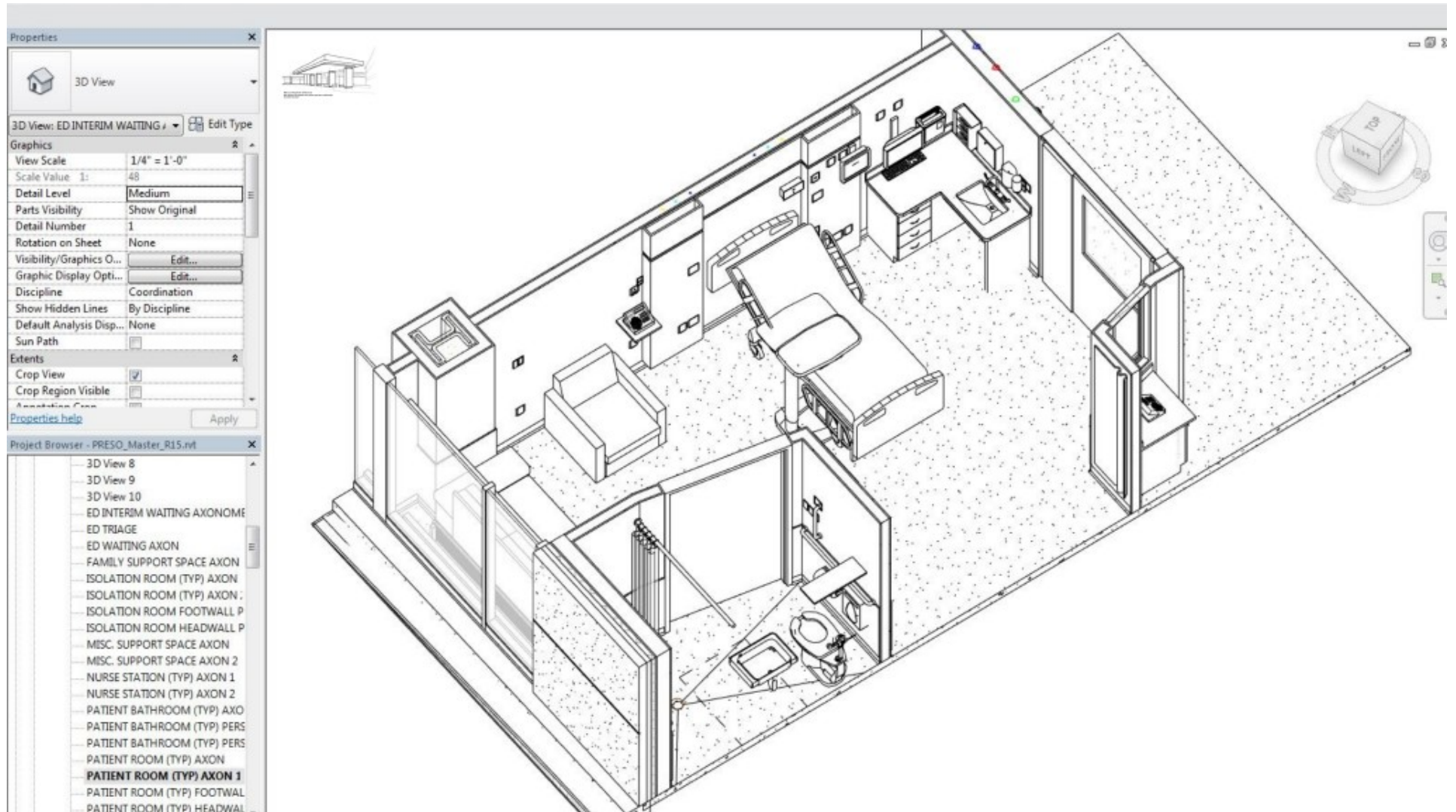




Mercy Hospital Jefferson

Main Entrance to Inpatient Tower patient experience walkthrough

December 8th, 2015





DESIGN TECHNOLOGIES

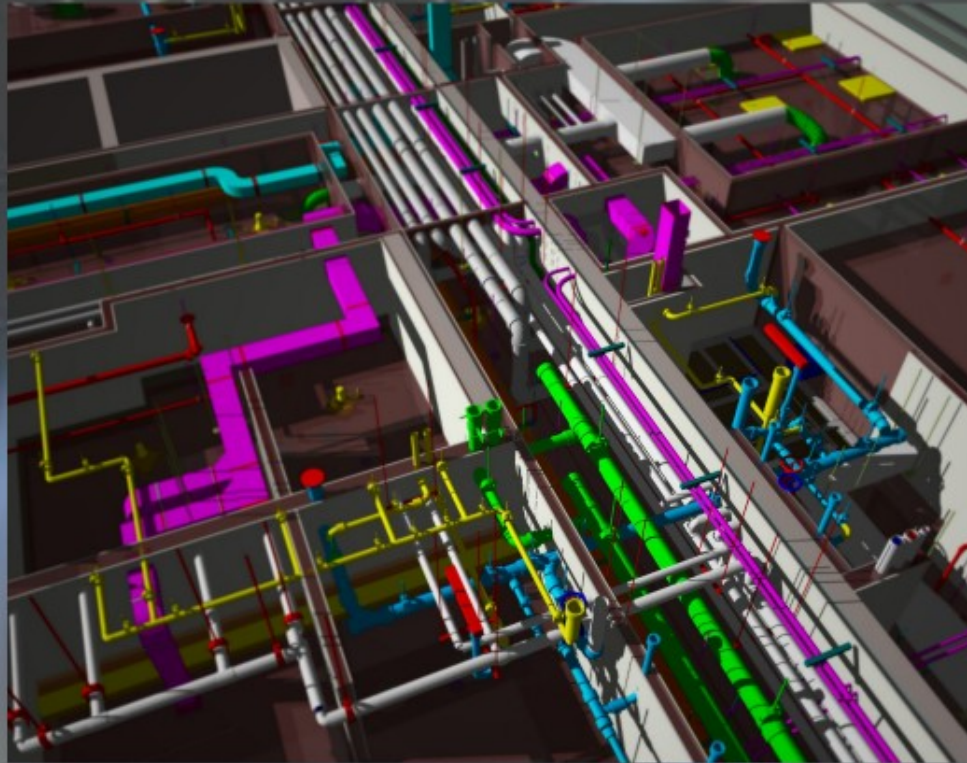


DESIGN TECHNOLOGIES

"Build Before We Build"

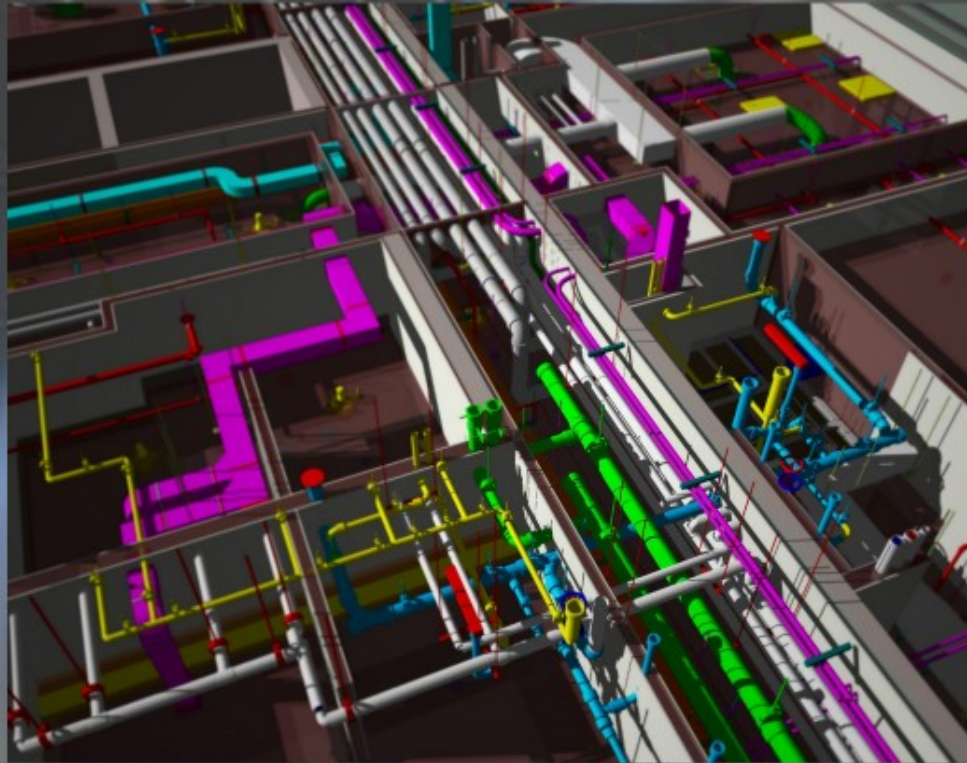


CONSTRUCTION TECHNOLOGIES



CONSTRUCTION TECHNOLOGIES

"Measure Twice, Cut Once!"



TYPICAL BIM PROCESS



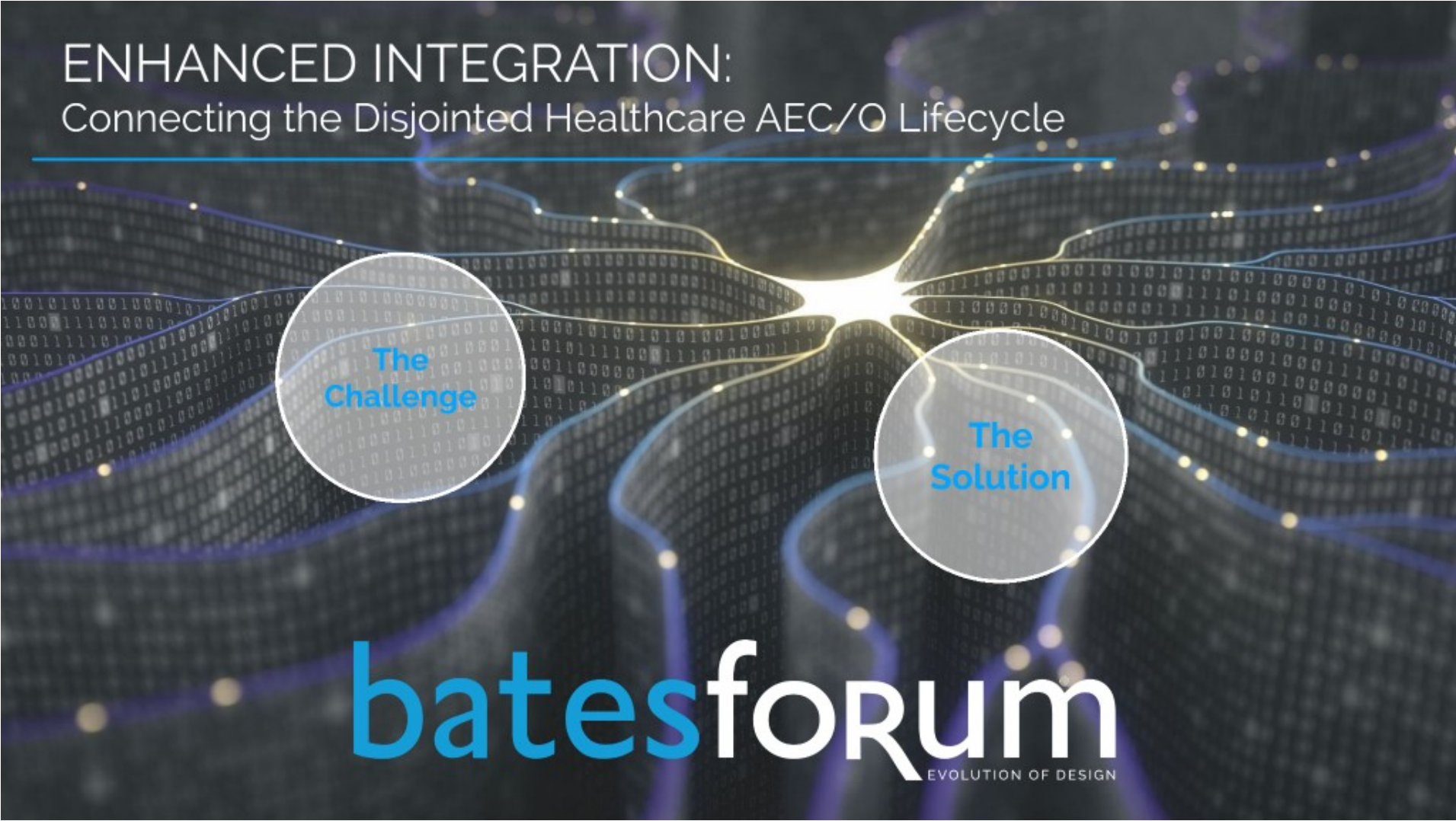
TYPICAL BIM PROCESS

Disjointed - information breakdown



ENHANCED INTEGRATION:

Connecting the Disjointed Healthcare AEC/O Lifecycle



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EVOLUTION OF DESIGN

ENHANCED
INTEGRATION
Improved Process!

P.D.C.O.M.M. - Connecting the Dots



P.

D.

C.

O.

M.

M.

INTEGRATED CONSTRUCTABLE DESIGN APPROACH

U UNIFI

MHJ BIMXchange > Mechanical Equipment

	Condensate Unit - Domestic Pump - CBE - 23 Gallon File Size: 480K File Name: Condensate_Unit-Domestic_Pump... Author: an.mcgee@mcgeworks.com Library: MHJ BIMXchange Tags: Condensate Return Units Domestic Pump Series CBE System	Downloads: 5 Date Added: 2/9/2015 Last Date Modified: 2/9/2015
	Pump - Vacuum Heating Unit - Domestic Pump - VL File Size: 480K File Name: Pump-Vacuum_Heating_Unit-Domi... Author: an.mcgee@mcgeworks.com Library: MHJ BIMXchange Tags: Domestic Pump Series VL Vacuum Heating Units System	Downloads: 2 Date Added: 2/9/2015 Last Date Modified: 2/9/2015
	Condensate Unit - Domestic Pump - CBE - 36 120 Gallon File Size: 480K File Name: Condensate_Unit-Domestic_Pump... Author: an.mcgee@mcgeworks.com Library: MHJ BIMXchange Tags: Condensate Return Units Domestic Pump Series CBE System	Downloads: 0 Date Added: 2/9/2015 Last Date Modified: 2/9/2015



LIFE-CYCLE BIM EXECUTION PLAN



A360 | Dashboard > All Projects > Mercy Hospital Jefferson > Project Data

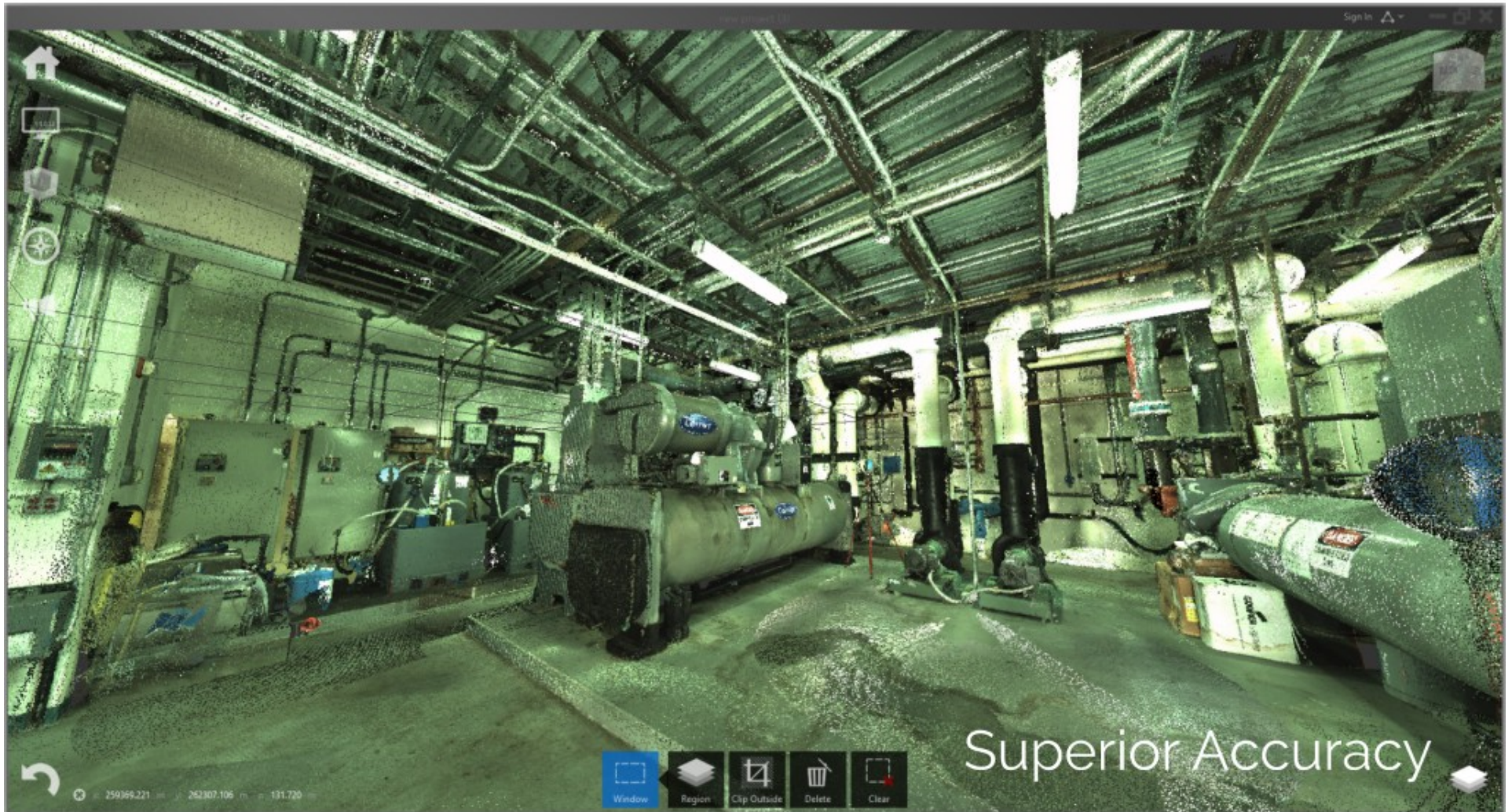
Search Mercy Hospital Jefferson

Mercy Hospital Jefferson

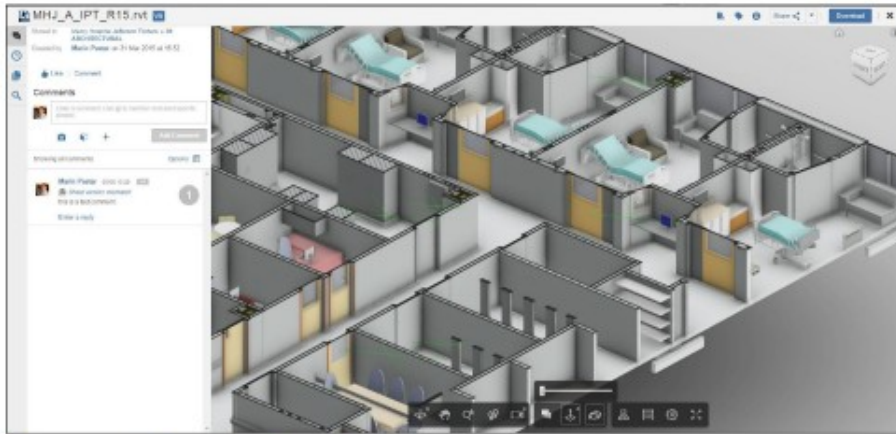
15-Mercy Hospital_Jefferson_Lifecycle Execution Plan_Design

Mercy

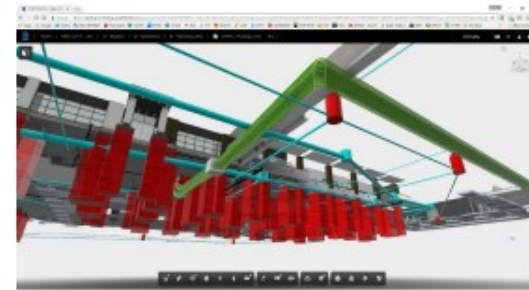
Project Goals			
NUMBER	GOAL	DESCRIPTION	PRIORITY (1-3) 1 HIGH 3 LOW
1	Streamline the process	Improve hand offs - design, documentation, and fabrication	1
2	Design Analysis	Use the 3D model to analyze applicable building aspects (including materials and cost analysis) in order to achieve pre-set goals and provide the most efficient end product to the owner	2
3	Basis for Renderings and Walk Throughs	Communicate to wider audiences in 3D to establish review and buy-in, collaboration.	1
4	Coordination/Clash Detection	Integrated, various clash detection throughout design	1
5	Reduce 2D drawings where possible	Dimension from model instead of paper	1
6	Material/Element Schedules	Improve coordination efficiency. Utilize Material and element Schedules where there is highest value. Database integration.	1
7	Room by room equipment	Track and categorize equipment: 1) requires hook up; 2) wall mounted; 3) movable... etc.	1
8	Above Ceiling and In-wall / Head Coordination	Fully coordinate all above ceiling and in-wall systems to identify and resolve all conflicts and provide required clearance for all equipment requiring post-installation access.	2



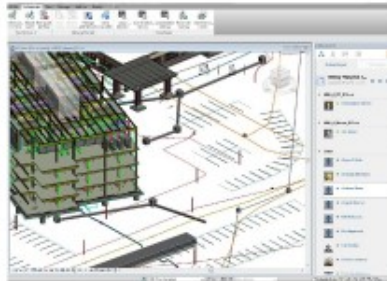
CLOUD COLLABORATION



Transparent Design + Construction



Intelligence Sharing
& Workflow Streamlining



DESIGN COORDINATION & ISSUE TRACKING





DESIGN PHASE COLLISION DETECTION



OFF-SITE PREFABRICATION



MULTI-TRADE RACKING





CLAYCO
THE ART & SCIENCE OF BUILDING

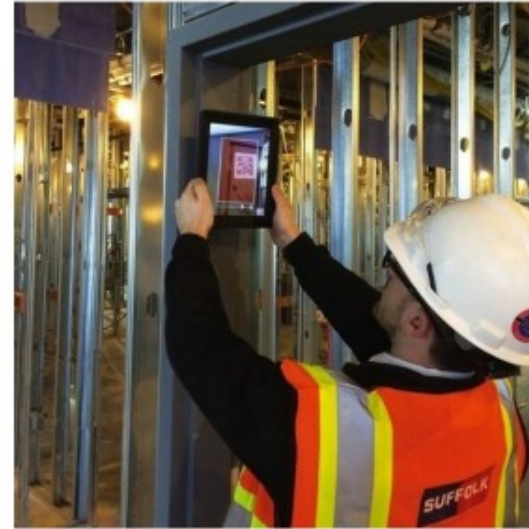
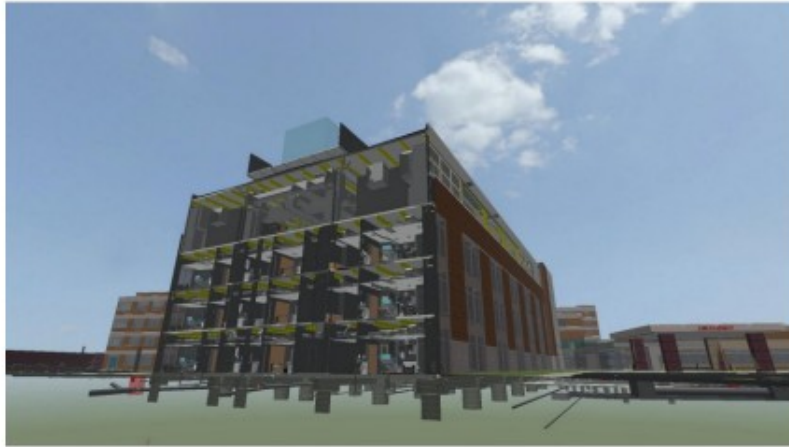
LABORATORY CORE WALLS

CONSTRUCTION DRONE UPDATES

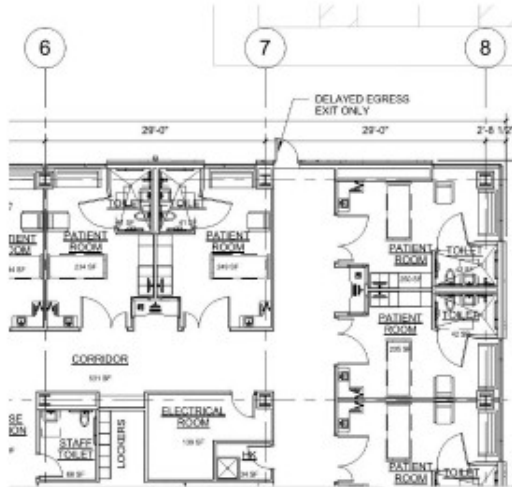




ADDITIONAL FACILITY DATA



USABLE DELIVERABLE!



HOW SUPPORT OPERATIONS WORK TODAY:

Four Rivers TMS (Facilities & Maintenance)
AIMS (Clinical Engineering)
ATG (Planning, Design & Construction)
FM Sytems (Real Estate)
Service NOW (Mercy Technology Services)



IMPROVED SUPPORT OPERATIONS WORKFLOW:



ENHANCED INTEGRATION:

Connecting the Disjointed Healthcare AEC/O Lifecycle



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INTEGRATION
Improved Process!

P.D.C.O.M.M. - Connecting the Dots



P.

D.

C.

O.

M.

M.

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P.

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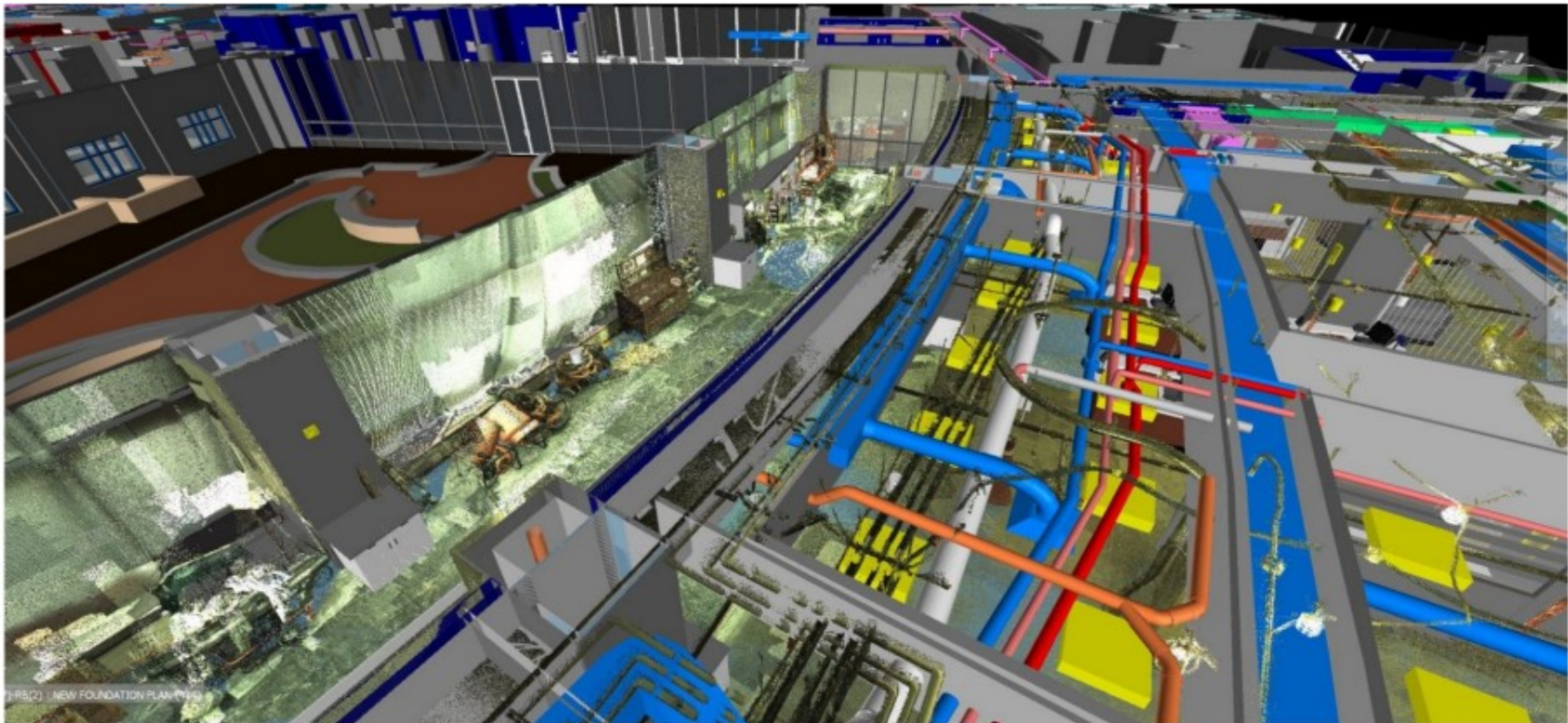
MERCY HOSPITAL JEFFERSON - CANCER
CENTER (CRYSTAL CITY, MO)



MERCY BRANSON - MULTI-SPECIALTY
CLINIC (BRANSON, MO)



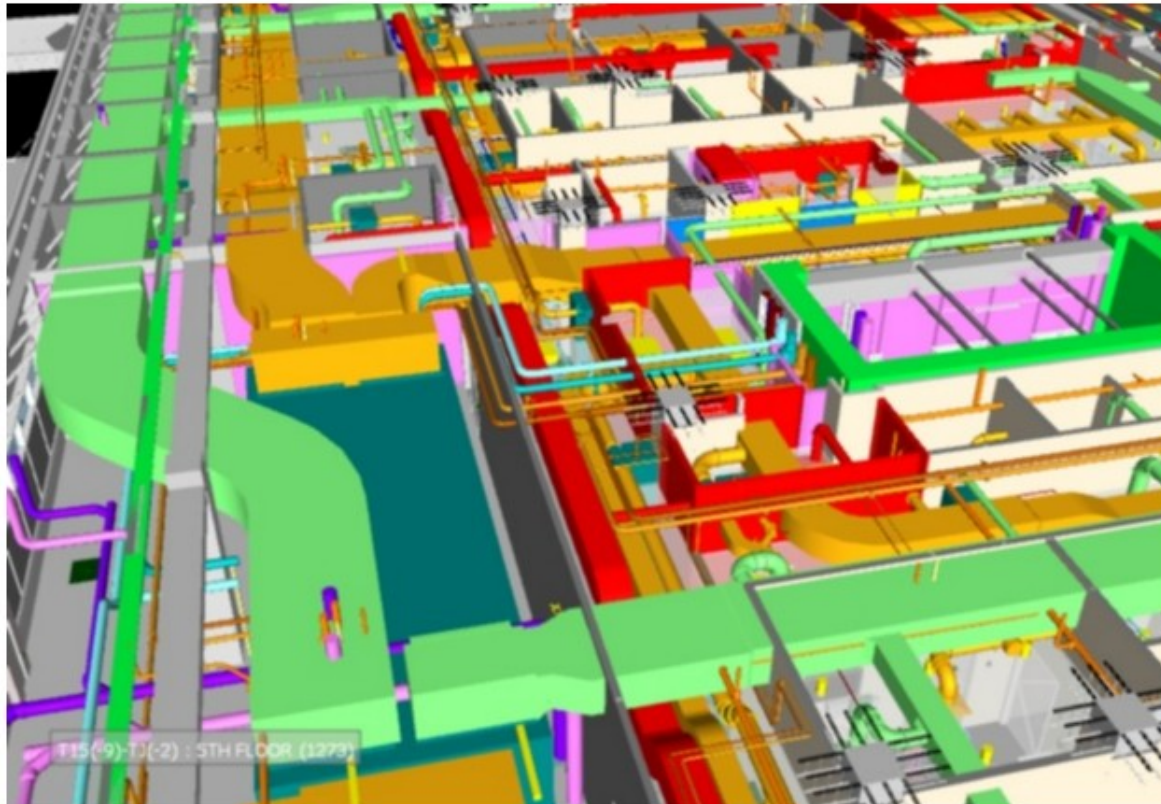
MERCY HOSPITAL SPRINGFIELD - DIETARY
RELOCATION (SPRINGFIELD, MO)



MERCY HOSPITAL SPRINGFIELD - HEART
HOSPITAL (SPRINGFIELD, MO)



MERCY HOSPITAL NORTHWEST
ARKANSAS EXPANSION (ROGERS, AR)



MERCY SPRINGDALE MULTI-SPECIALTY
CLINIC (SPRINGDALE, AR)



MERCY BOLIVAR MULTI-SPECIALTY CLINIC
(BOLIVAR, MO)



MERCY BRIDGE PORTAL - IWMS

Bates Technology Demonstration
Mercy Bridge Portal ▾

Lynn Britton

← featured data →

Specifications

Mercy

Mercy Brand Standards

Revit Architecture Content A

Revit MEP Content MEP

BIM Standards

Indox Services

featured bid opportunities

XYZ MOB Facility
100 office medical office building

ABC Patient Tower
400 bed patient tower

featured applications →

SIMUL8

BAS

Facilities Management Platform

145 open work orders

Energy 12

← featured data



Specifications



Mercy Brand
Standards



Revit Architecture
Content



Revit MEP Content
MEP



BIM Standards

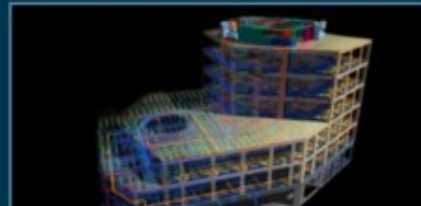


Index Services

featured bid opportunities



XYZ MOB Facility
100 office medical office building



ABC Patient
Tower
400 bed patient tower

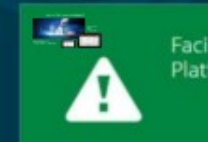
featured applications



Simul8



BAS



Facilities Management
Platform

145 open work orders



Energy

12

[illegible]

FACILITIES MANAGEMENT

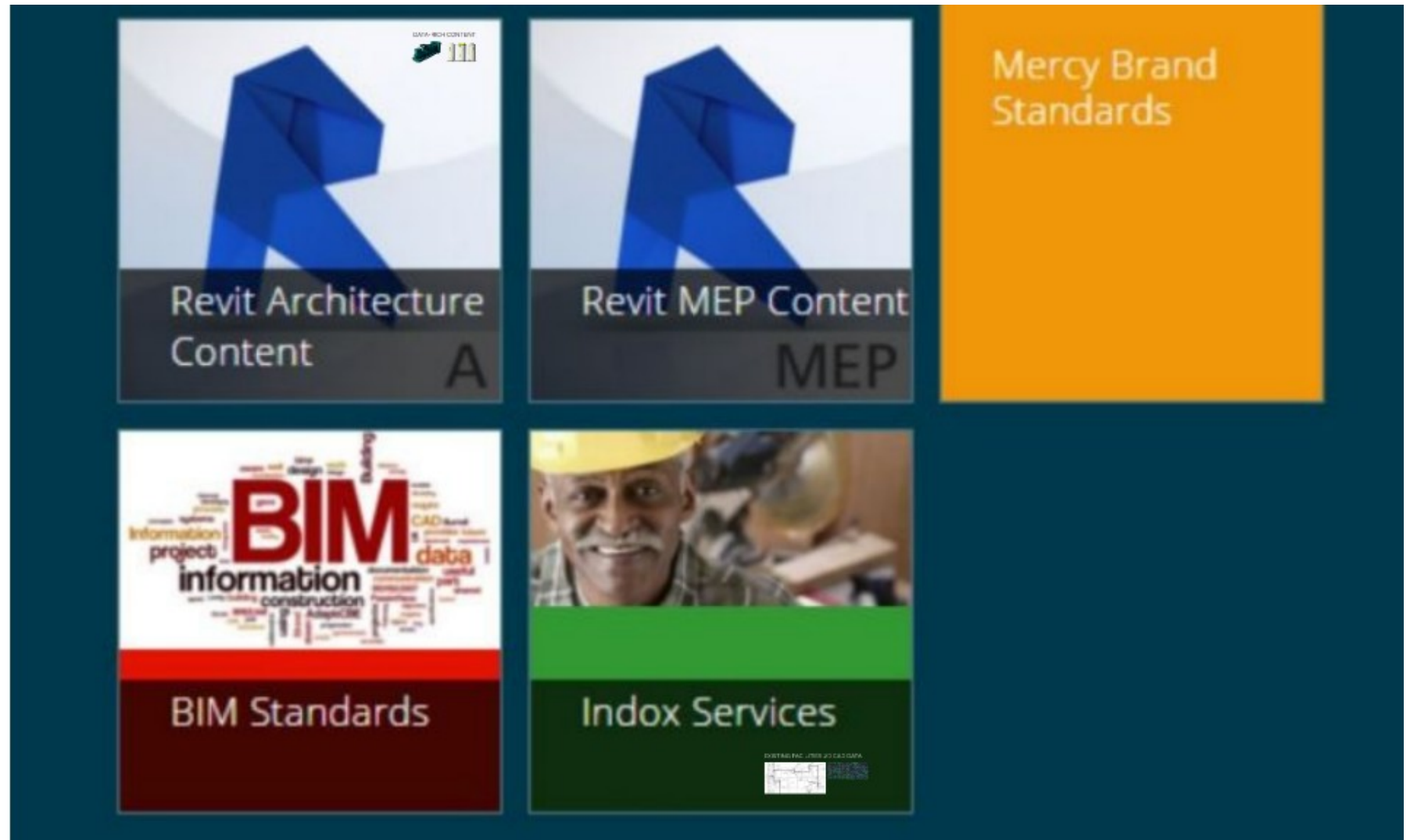


MOBILE WORK
ORDER
MANAGEMENT

ASSET PREVENTATIVE
MAINTENANCE & MANAGEMENT

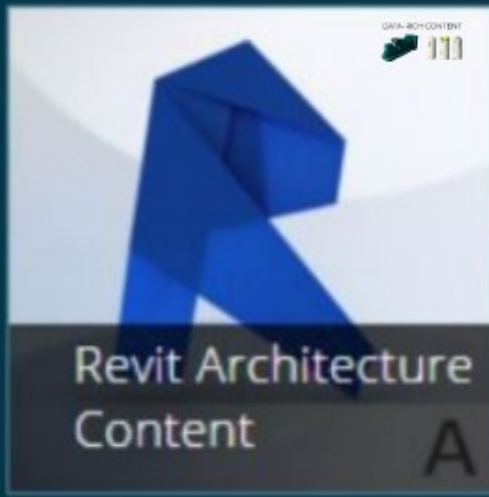
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101-002	101-002	101-002	101-002
101-003	101-003	101-003	101-003
101-004	101-004	101-004	101-004
101-005	101-005	101-005	101-005

Work Order ID	Description	Status	Change To
10115078	Test ver 1 2 6 10 15	Scheduled	TEST EQUIPMENT
10115085	TEST WORKING 1 6 10 15	Scheduled	LED HIGH VOLTAGE BATTERY
10115086	ACU-WIS VER 1 6 10 15	Scheduled	LED HIGH VOLTAGE BATTERY
10115088	ACU-WIS VER 1 6 10 15	Scheduled	BREAD - WORK 3 EMPTY BASKET CONVEYOR
10115089	ver 101	Scheduled	BREAD-LINE
10115090	ACU EMERGENCY WIS FROM TWO MENU ANDROID VER 2	Scheduled	BREAD - WORK 3 EMPTY BASKET CONVEYOR
10115078	ACU-001 TABLET EMERGENCY WORK ORDER - FROM TWO MENU	Scheduled	BREAD - WORK 3 EMPTY BASKET CONVEYOR

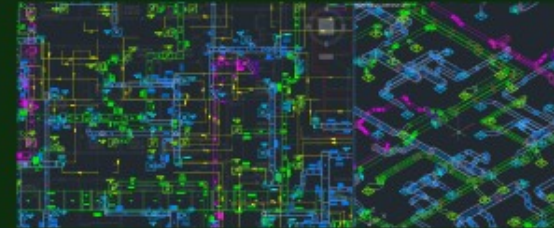
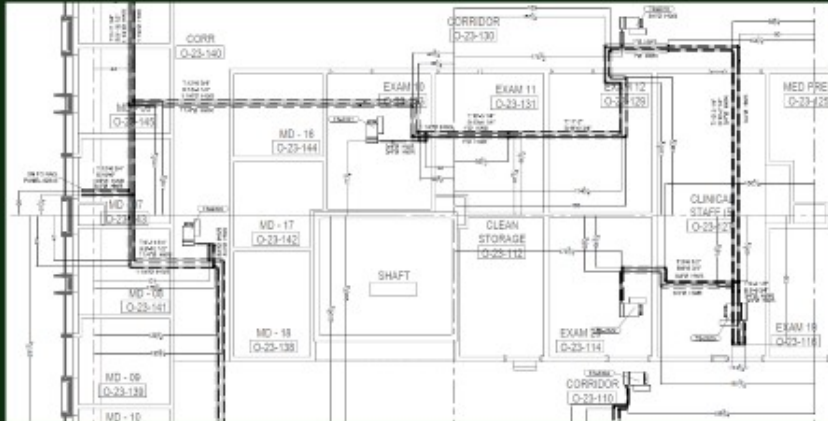


DATA-RICH CONTENT

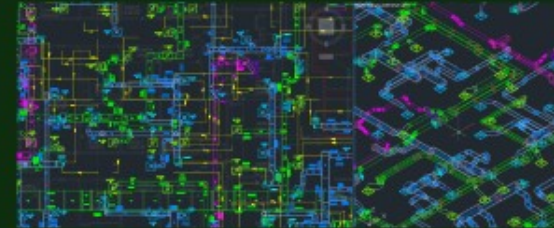
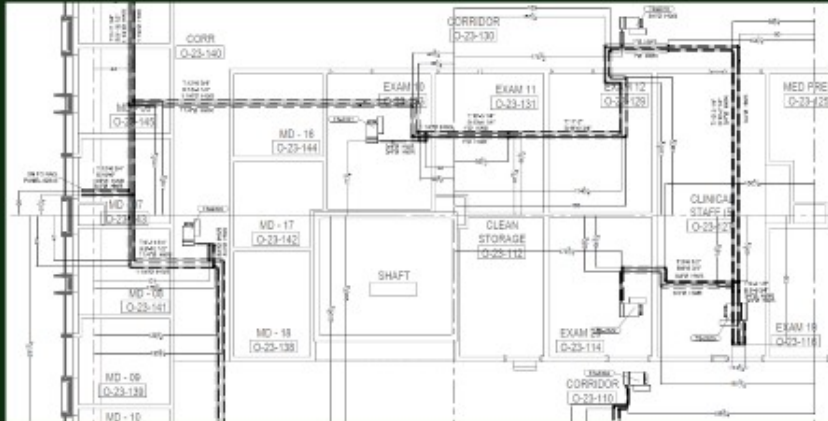




EXISTING FACILITIES 2D CAD DATA



EXISTING FACILITIES 2D CAD DATA





Mercy 

Mercy Brand
Standards



XYZ M
100 office med

DISK ARCH CONTENT

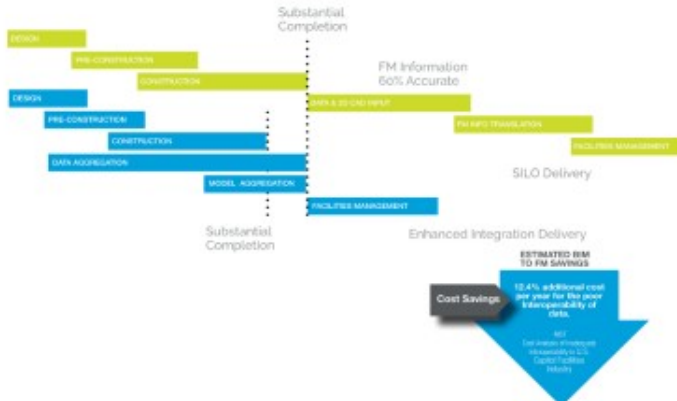
ture

A

Revit MEP Content

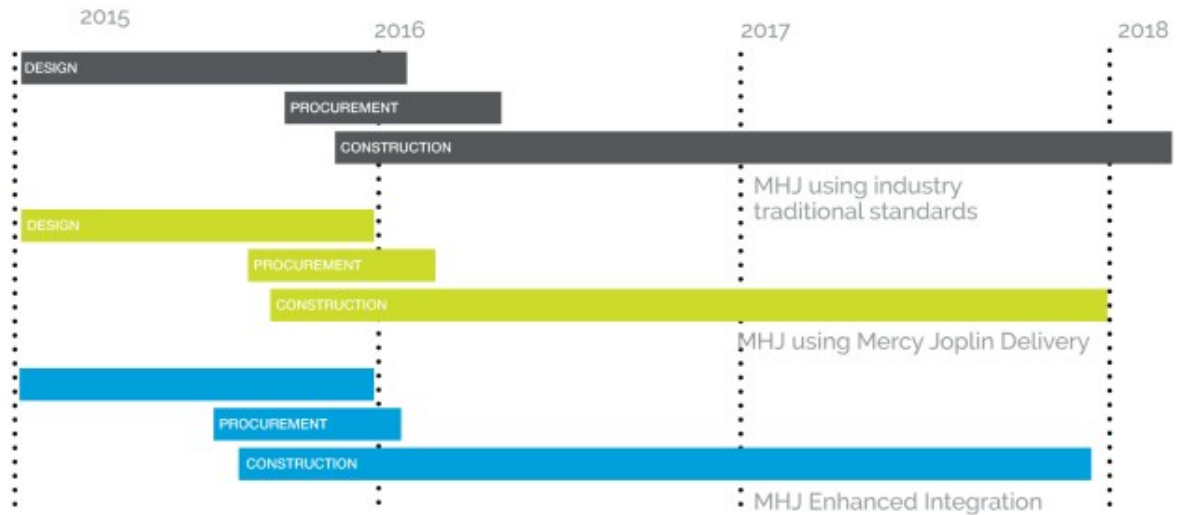
MEP

MERCY HOSPITAL JEFFERSON COST/
SCHEDULE SAVINGS & SPEED TO MARKET

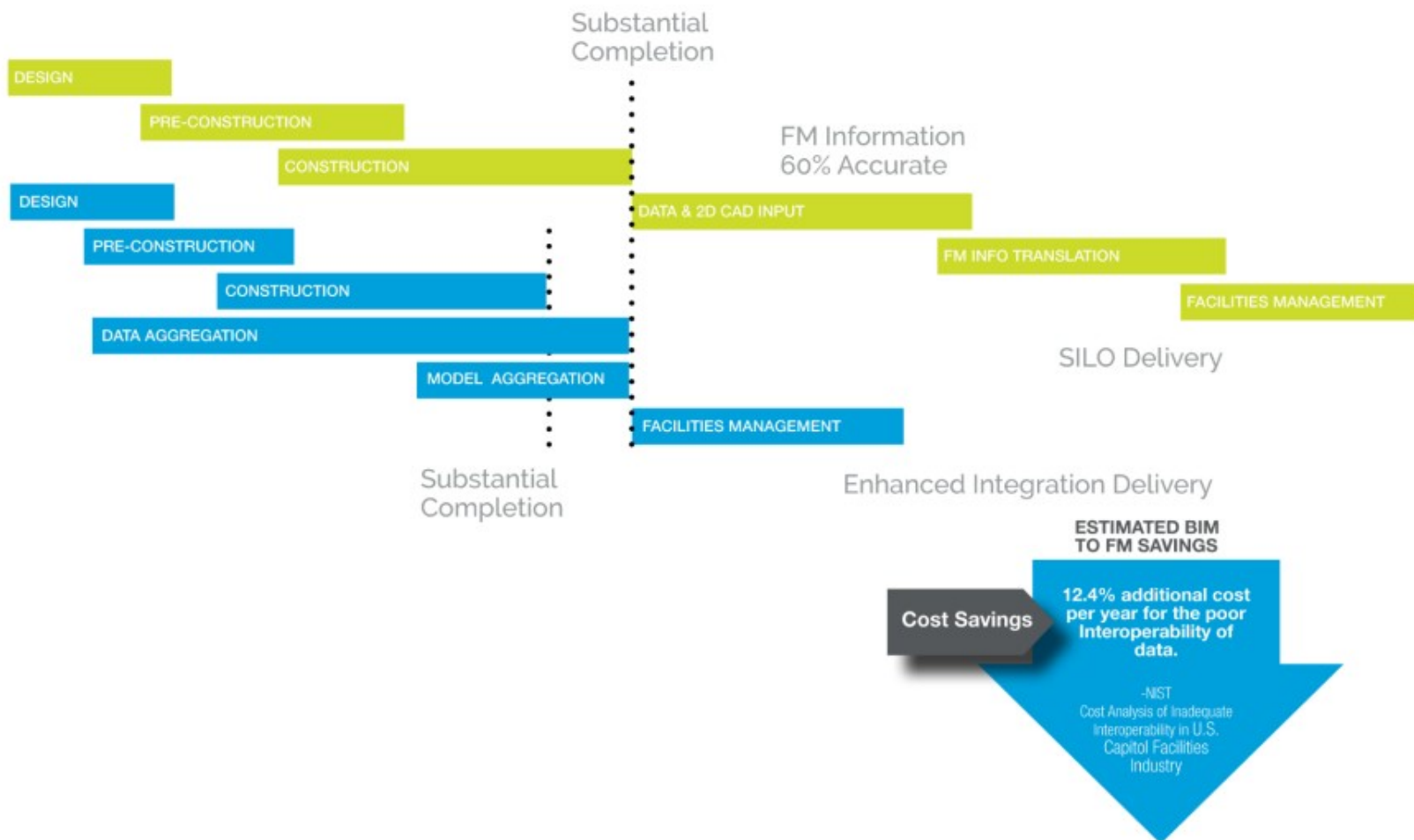




Mercy Hospital Jefferson Schedule Savings

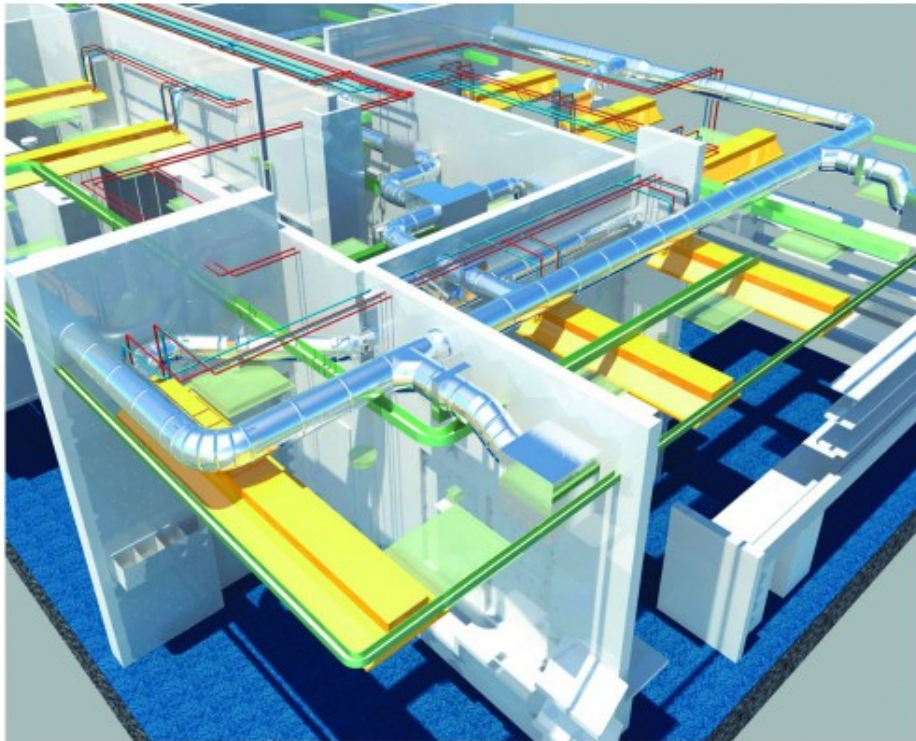


These schedules represent estimated durations for the Mercy Jefferson Patient Tower comparing a traditional CM-at-Risk delivery, the integrate approach used on the Joplin Replacement Hospital and the enhanced integrated practices currently being utilized in MHJ.





TESTIMONIALS



BATESFORUM is here to provide a customized solution for any number of eclectic obstacles.

Testimonials

McCarthy Construction

"What we are doing here is industry leading. It will give us a better design deliverable to build from, and directly add value to Mercy operations downstream."

-Mike Stapf

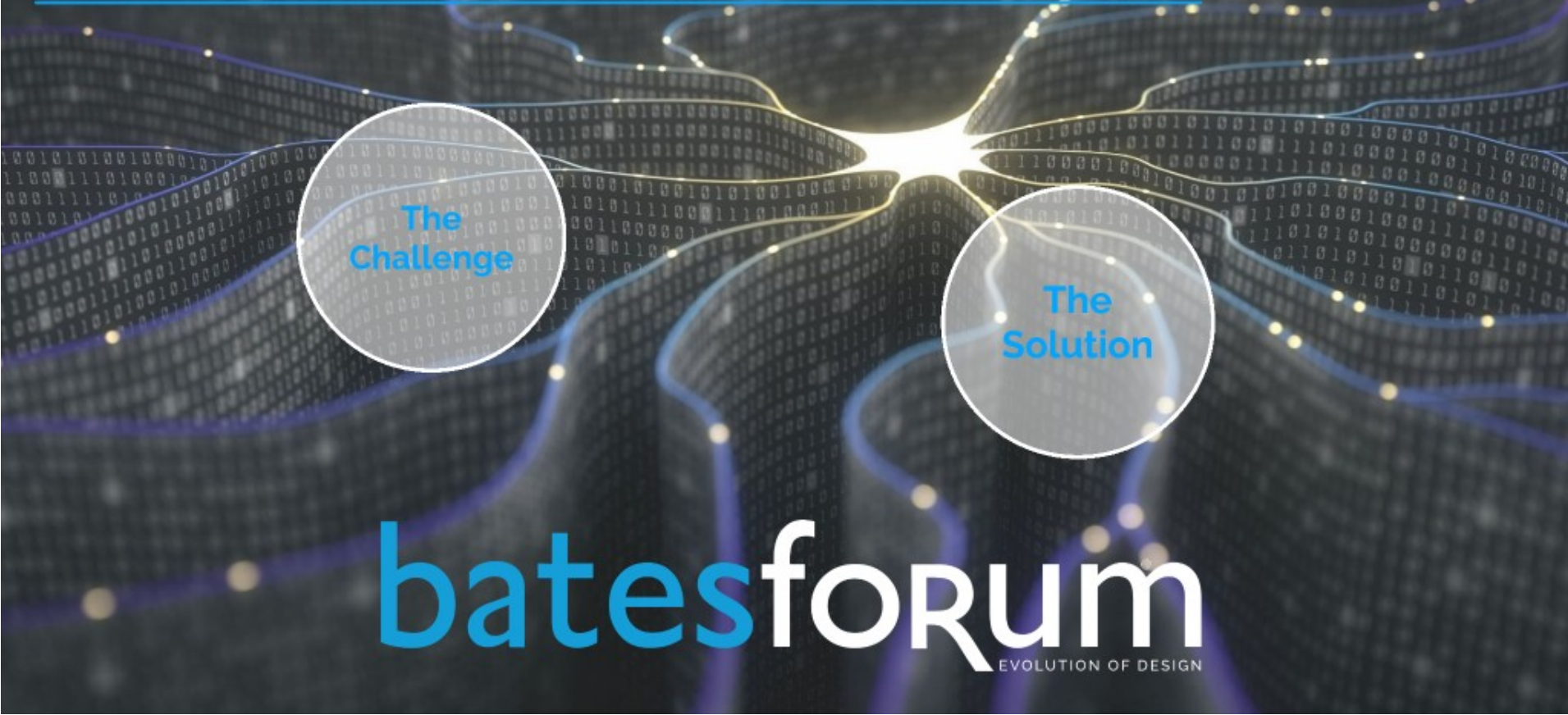
Vice President of
Design integration

Autodesk

"We are impressed by your enthusiasm and energy in expressing the story of BatesForum's use of Technology."

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