

Owners Approaches to Delivering Lean Capital Programs

Panel – Scott Nelson (Advocate Aurora), Ashley Aye (HCA Healthcare), Cindy Deihl (P&G) Moderator – Victor Sanvido (Southland Industries)

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THERETERE

Owners Approaches to Delivering Lean Capital Programs



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System Vice PresidentPlanning, Design &
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Cindy Deihl
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Ashley Aye
Director-Strategy
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Moderator
Victor Sanvido
Senior VP,
Southland Industries



Advocate Aurora Health Outpatient Collaborative

Scott Nelson, System Vice President, Design & Construction

THE ABC'S OF LEAN: TRANSFORMATION THROUGH ACTIONS, BEST PRACTICES AND COACHING

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BULLERIE

Advocate Aurora Health Outpatient Collaborative

Advocate Aurora Purpose & Vision

"We help people live well."

Advocate Aurora Purpose

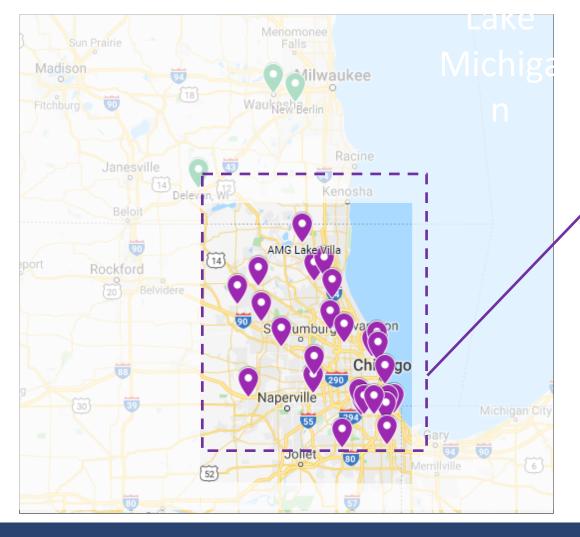
"Provide innovative and trusted service, always."

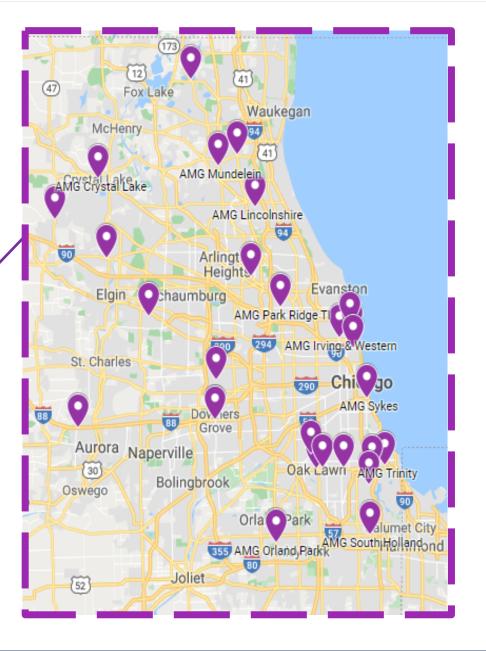
Advocate Aurora Support Services Vision

Advocate Aurora Health Outpatient Collaborative

Outpatient Centers

Completed thru 2019





2020 Design & Construction Goals



Quality



Roadmap

"Create safe and healing environments through thoughtful collaboration and innovation."

AAH Outpatient Collaborative Change Management



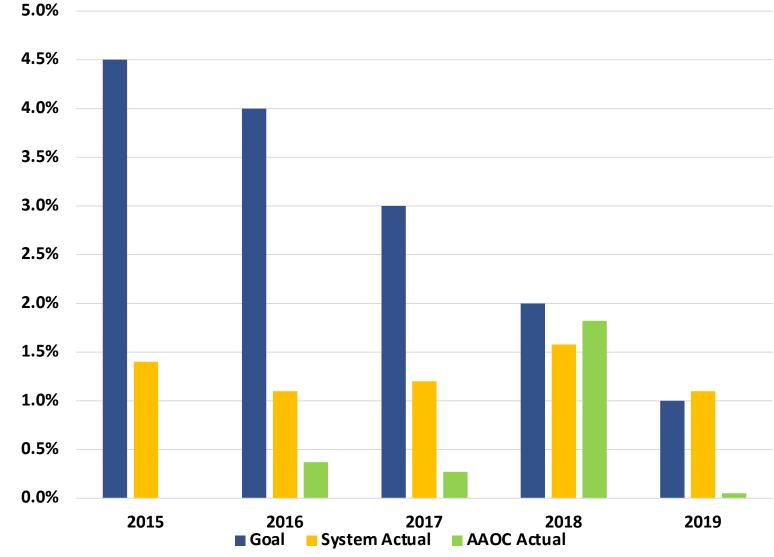
0% Change Orders By 2020

Zero Change Orders By 2020

- Preventable cost even if it was funded from contingency
- Cost beyond code compliance, and NOT a change created by a regulatory compliance demand
- NOT a differing Site Condition or Unforeseen subsurface condition

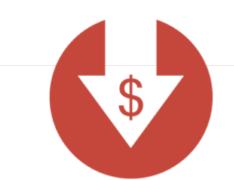
YTD Results	<u>System</u>	<u>AAOC</u>
2015:	1.4%	NA
2016:	1.1%	0.37%
2017:	1.2%	0.27%
2018:	1.58%	1.82%
2019:	1.1%	0.05%

Change Order Percentage





AAH Outpatient CollaborativeFunding Our Future



Multiple projects achieved 15% or higher:

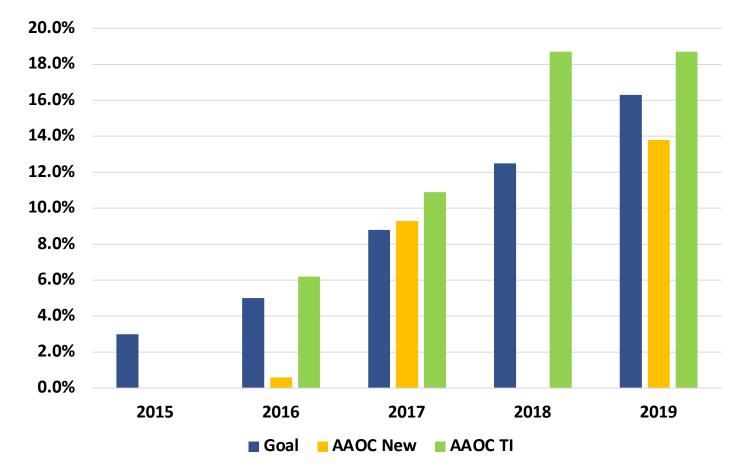
- 16% AMG Lakeview
- 17% AMG Crystal Lake
- 17% AMG Imani Village
- 20% AMG Irving & Western
- 24% AMG Sykes

20% Reduced Capital Construction By 2020

Supports 20% Reduced Capital Construction \$ by 2020

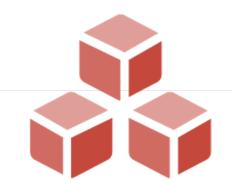
YTD Results	<u>System</u>	<u>AAOC</u>
2015:	NA	NA
2016:	0.6%	6.2%
2017:	9.3%	10.9%
2018:	NA	18.7%
2019:	13.8%	18.7%

ILPD Savings





AAH Outpatient CollaborativePrefabrication



Multiple projects achieved higher than 25%:

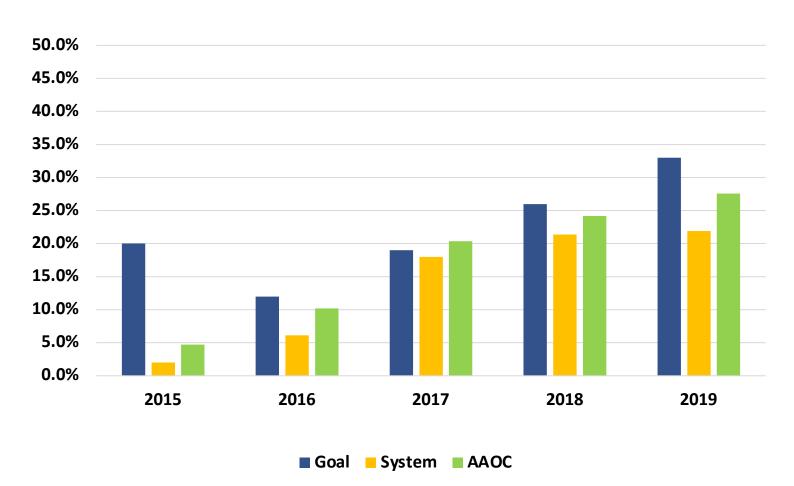
- 26% AMG West Dundee
- 26% AMG Oak Lawn
- 43% AMG Lombard
- 47% ICC Montrose

40% Modular By 2020

40% Modular by 2020

YTD Results	<u>System</u>	<u>AAOC</u>
2015:	2.0%	4.7%
2016:	6.1%	10.17%
2017:	18.0%	20.34%
2018:	21.4%	24.19%
2019:	21.9%	27.56%

Modular





Exceeding Expectations

Interior Construction Duration Performance





Exceeding Expectations

Attributes of a High-Performing Team

RESULTS TO DATE (2016 – 2019)

32 Projects Counted totaling 556,987 sf

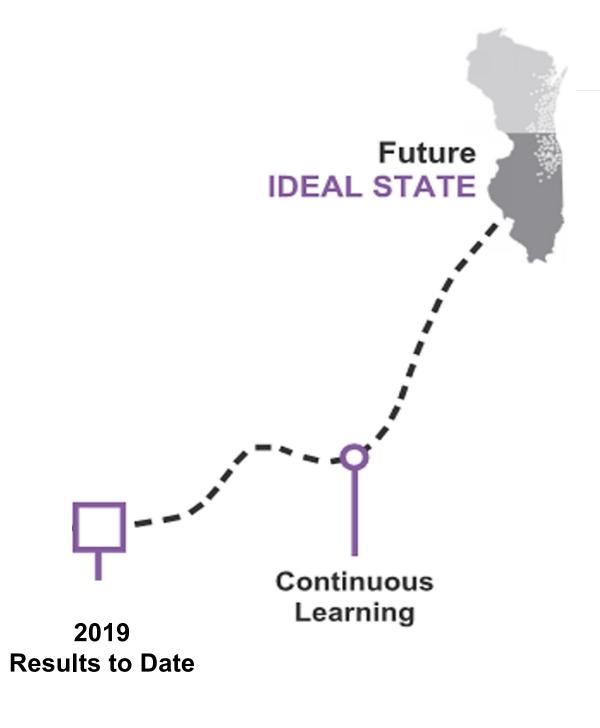
\$145,702,476 of Construction Value

\$27,447,396 Prefab and Modular Components (18.84% of total spend)

\$890,675 in Change Orders (0.61%)

4 Safety Incidents

\$17,719,459 Savings (12.16%)





HCA Healthcare

Ashley Aye, Director Strategy & Productivity

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HCA Healthcare Markets





HCA has a significant presence in 16 of the top 25 U.S. MSAs with the strongest Economic Health Index



The 16 HCA MSAs ranked in the top 25 MSAs, shaded in blue with the white outline, include 3 MSAs in Utah. | Source: American City Business Journal's 2017 Economic Health Index, a ranking of the relative economic viability of the top 100 MSAs in the US.







49%

31%

20%

Strategic Partners in Lean Project Delivery - 30+ Years



10
Designers

12
General Contractors

MEP Subcontractors
(Florida market only)

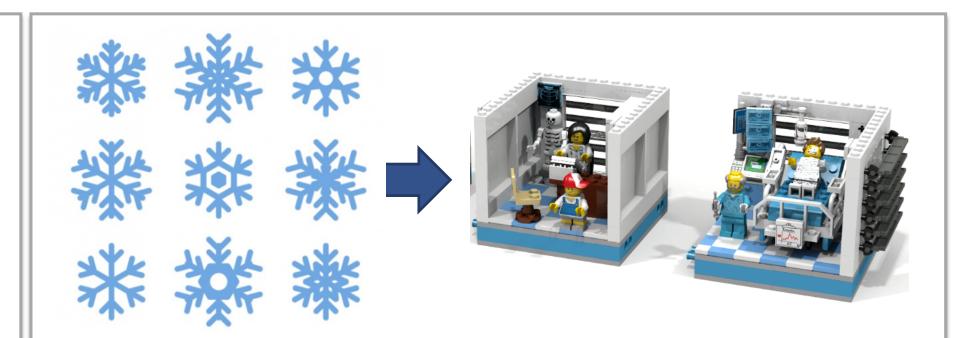
- Enable a consistent project delivery approach
- Advocates embedded within firms to assist with Lean deployment
- Cohort of resources sharing industry best practices
- Support innovation in design and construction

Moving from "Snowflakes" to "Legos®"



Standard Design Elements:

- Medical Surgical Patient Rooms (2012)
- Operating Room (2013)
- Emergency Dept./ FSER (2014)
- Exterior Walls (2018)
- Casework (2018)
- Women's Services (2019)



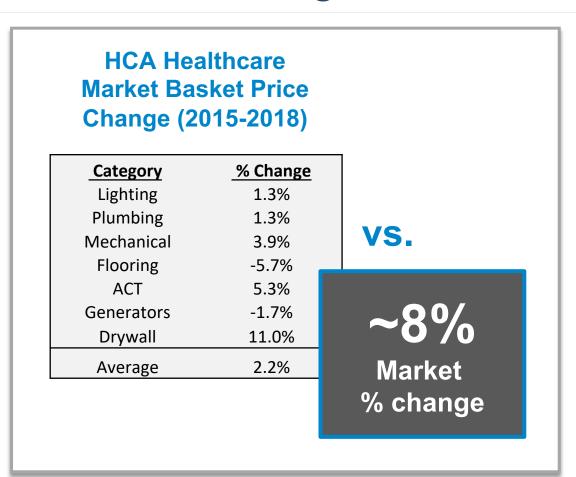
Standardization of design elements enables:

- Sourcing Efficiencies
- Off-Site Manufacturing

Sourcing Agreements Leverage Volume & Standardization Healthcare







Benefits:

- Competitive Price
- Supplier Service and Warranties
- SKU Level Transparency
- Standardized Vendor Reporting

Commit to purchase 80-85% of spend through HealthTrust (GPO) strategic agreements



























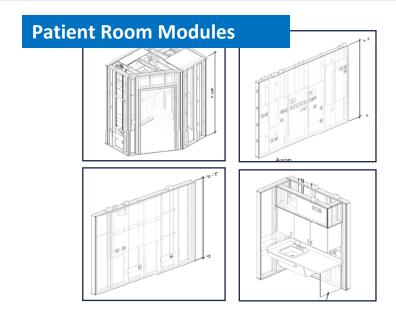








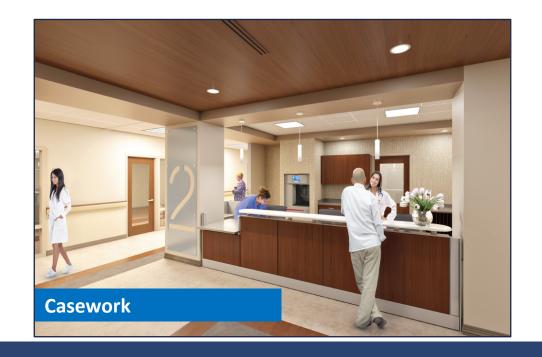
Typical Prefabricated or Modular Systems









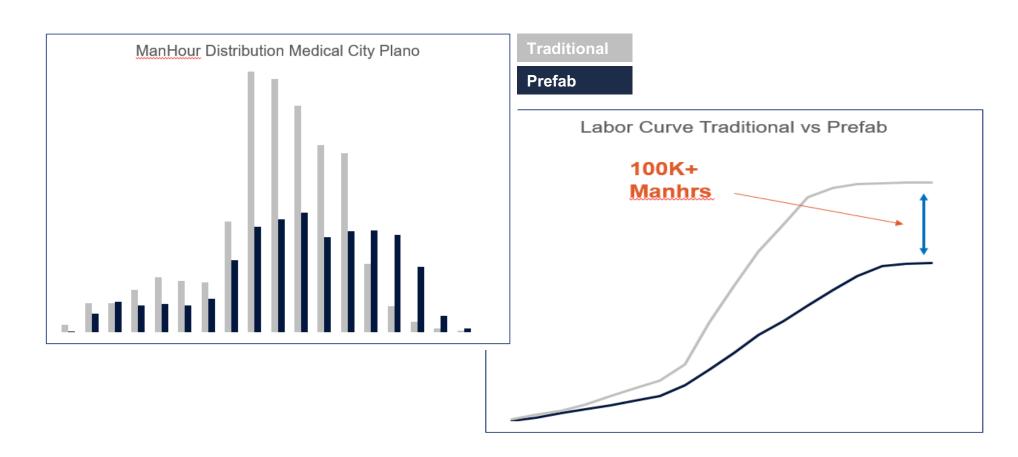




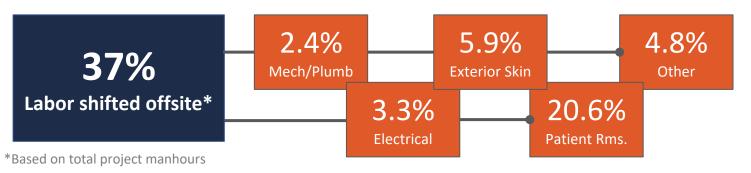
Off-Site Manhour Tracking – Medical Center Plano







4-Story Horizontal Expansion

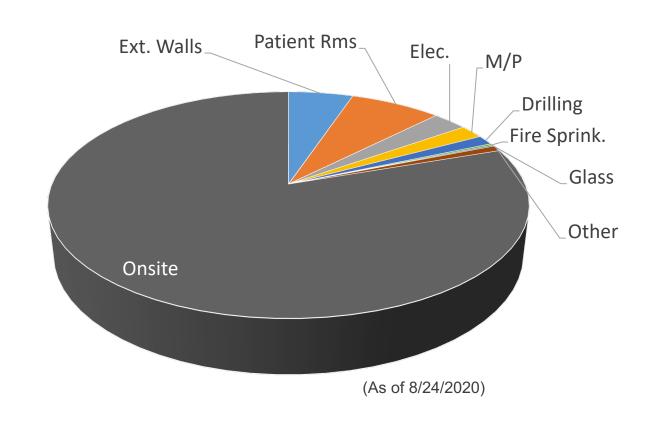


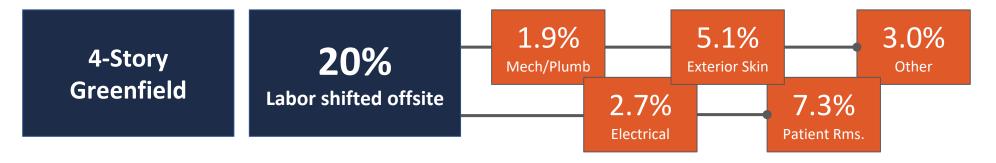


Off-Site Manhour Tracking – Davie Hospital











HCA Design & Construction Scale = Value



HCA's scale creates value through standardization

1. Standard designs

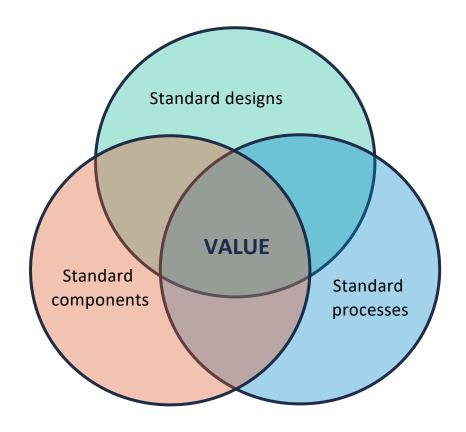
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2. Standard parts / components

+

3. Standard processes

VALUE
Schedule reduction / Speed to market





Capital Deployment Operational Goal



Working with our Partners, our primary focus is to employ innovative approaches <u>to improve speed to market 15% by 2022 for acute care projects</u> (as compared to historical benchmarks) without added premium costs or compromising safety and quality.



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Cindy Deihl, Vice President, Procter & Gamble

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improving everyday life for over 180 years









2/2020

Lean IPD at P&G

ADAPTING THE APPROACH TO MATCH THE CAPITAL CHALLENGE



Lean IPD at P&G

ADAPTING THE APPROACH TO MATCH THE CAPITAL CHALLENGE



Be prepared to build Lean capability. Even a step forward is a win.



Design the LIPD scope, tools, and team to optimize program success.



Leverage data to inform should cost and success targets.



Create
"programs" of
projects into a
single LIPD
framework.

Lean IPD at P&G Selection Seven Conditions of Agreement Satisfaction **Essential Practices** Collaborative Last Planner® Design System Session Target Value Big Room Design

Lean IPD at P&G

ADDITIONAL CONSIDERATIONS TO OPTIMIZE EACH OPPORTUNITY

MARKET MATURITY & CAPABILITY PROJECT COMPLEXITY & SCALE SCOPE INTERDEPENDENCIES & UNCERTAINTY RESOURCE CONSTRAINTS RISK TOLERANCE & MINDSET





Engineering and Purchases

Value from Collaboration & Flow





In the spirit of continuous improvement, we would like to remind you to complete this session's survey! We look forward to receiving your feedback.

THREELERE

Contact Us

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Thank you for attending this presentation. Enjoy the rest of the 22nd Annual LCI Congress!

