

How to Surf as an IPD Team Without the IFOA Wave

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SURFING THE WAVE OF LEAN DESIGN AND CONSTRUCTION

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Who We Are



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Today's Discussion

The Lean Evolution

Alignment: Behaviors & Commercial



Alignment: Execution & Results



Key Takeaways



The Lean Evolution

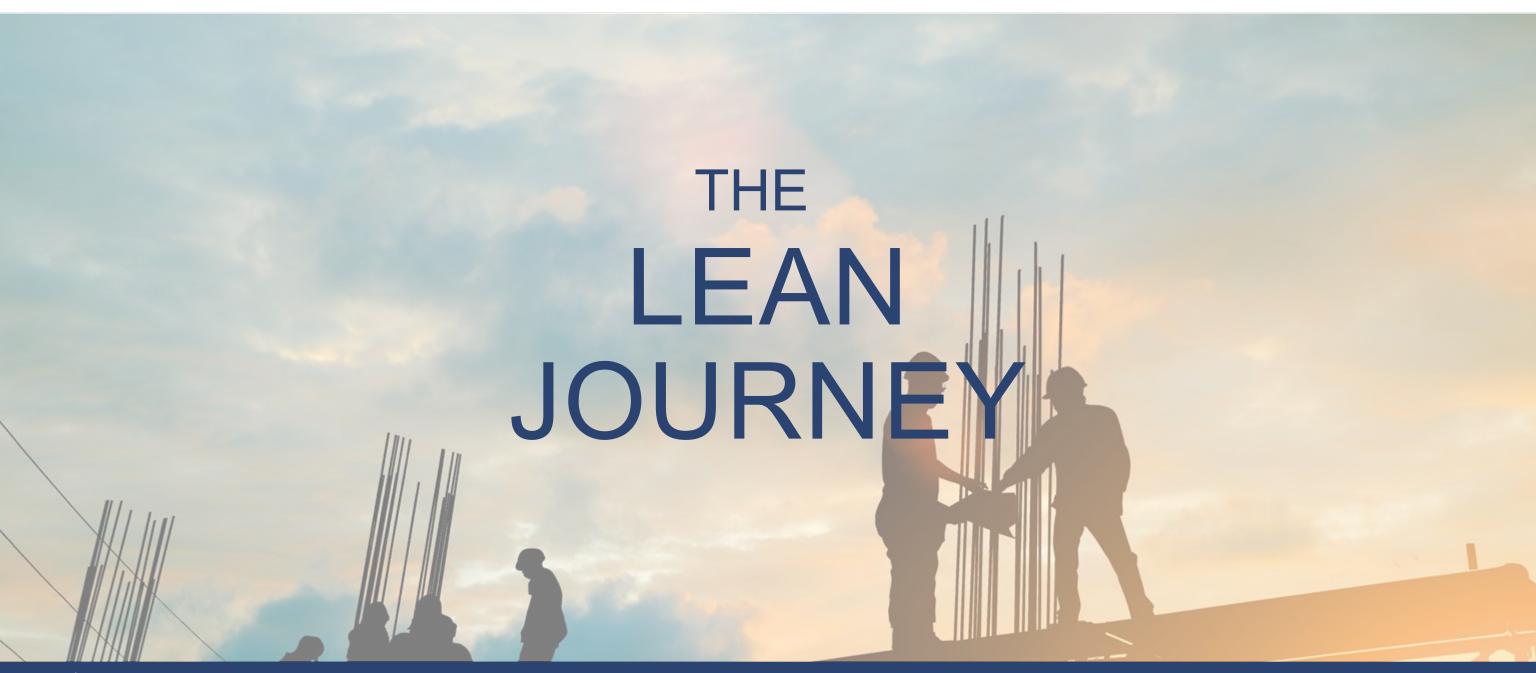




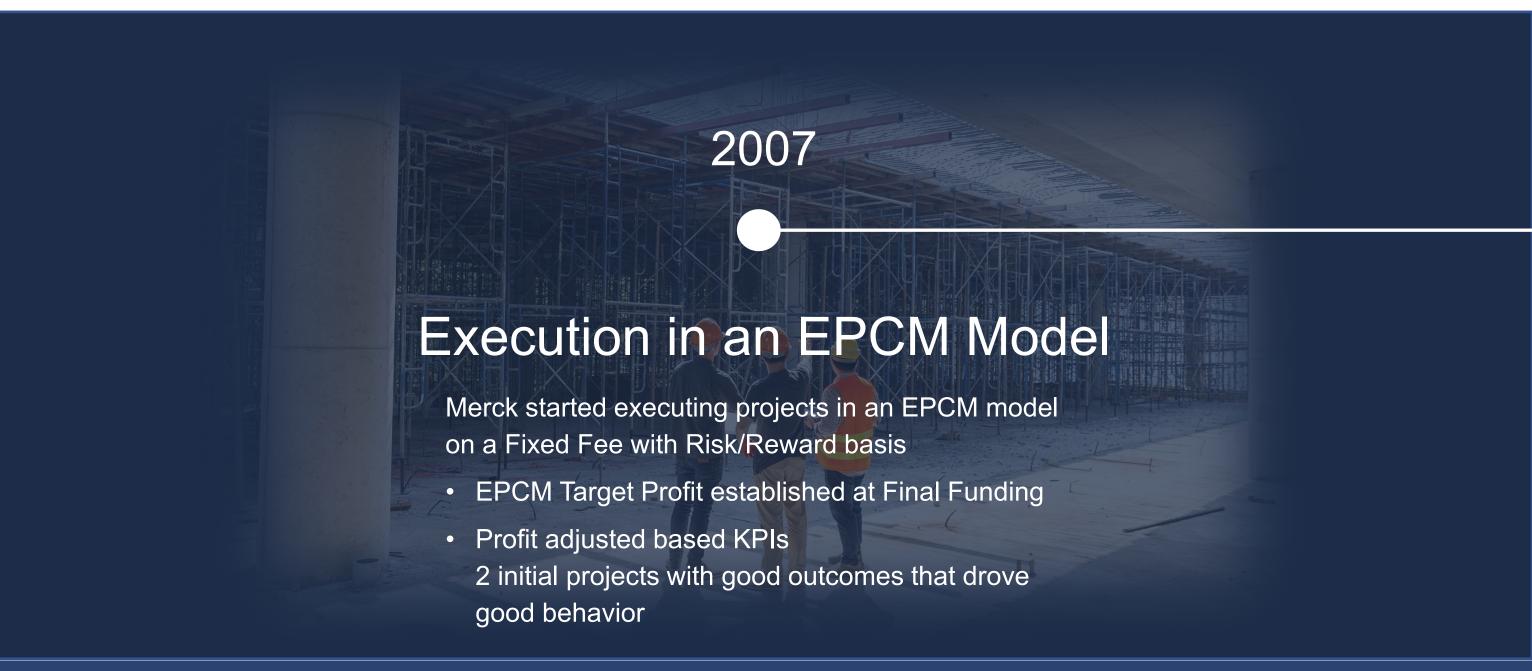


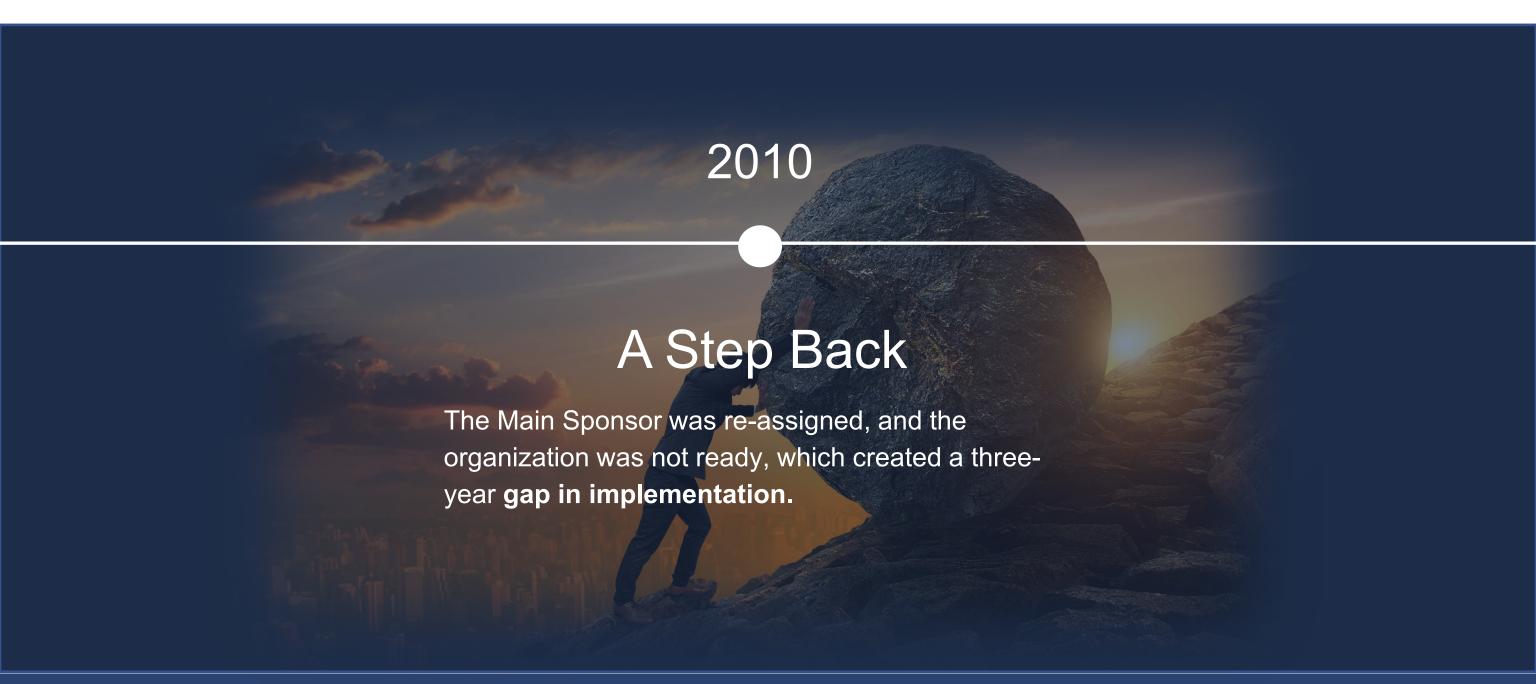
The Pharma Landscape – Balancing Speed & Cost

Speed to Market
Unique Project Needs
Merck's Delivery Model
(pre-Lean)
Risk-Averse











2018 - Present

Engaging the Trades

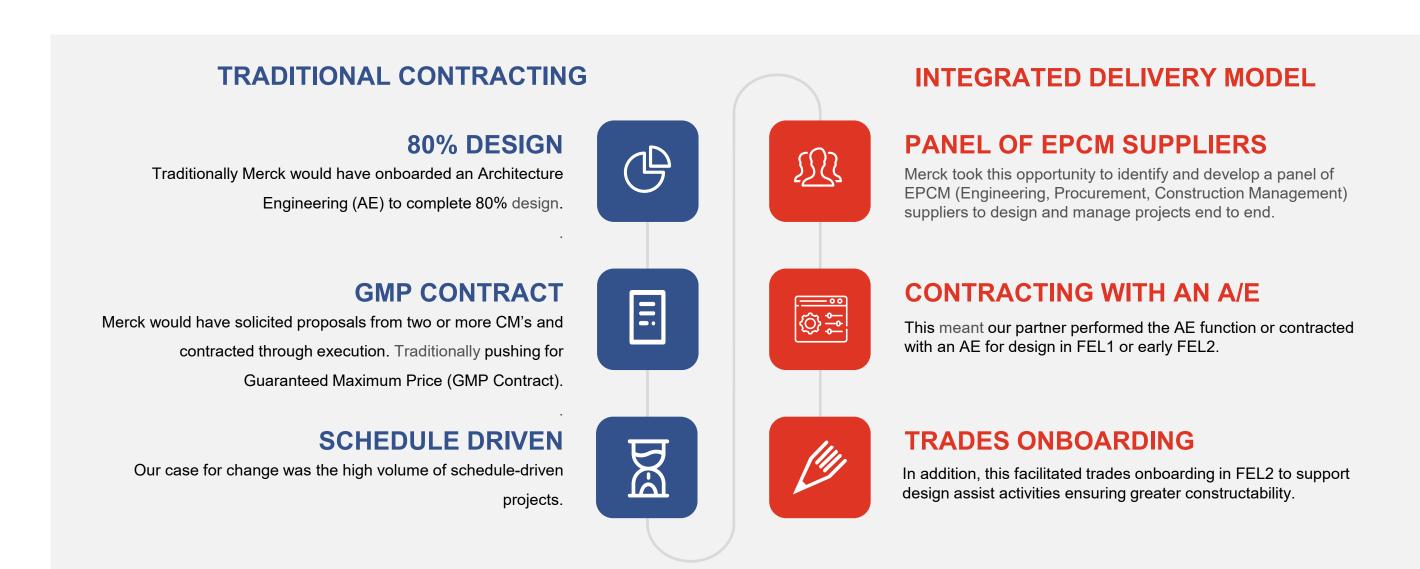
- Further increase in workload
- Wider organizational Lean awareness and adoption
- Introduced new approaches with new expectations/opportunities
- Move away from historical Lump Sum



Alignment: Behaviors and Commercial Structure



The Shift from Traditional Contracting to an Integrated Model



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15

Evolution of the Incentive Program

RISK/REWARD MODEL

- Risk and Reward resided only with the EPCM.
- The program evolved to have critical trades participate in the program through incentivization to reduce hours.
- The next evolution is eliminating downside risk for the EPCM. The program is now either schedule (project-funded) or cost-driven (self-funded).

KEY PERFORMANCE INDICATORS

✓ SAFETY

✓ SUPPLIER DIVERSITY

✓ SCHEDULE

✓ COST

✓ BEHAVIORAL

Procurement: Choosing the Right Partners

Key to a Successful Procurement Organization: The Role of Incentives

- Best-Value, Best Partner Selection Model
- Incentivizing Collaboration- shared savings
- Risk and Cost Predictability

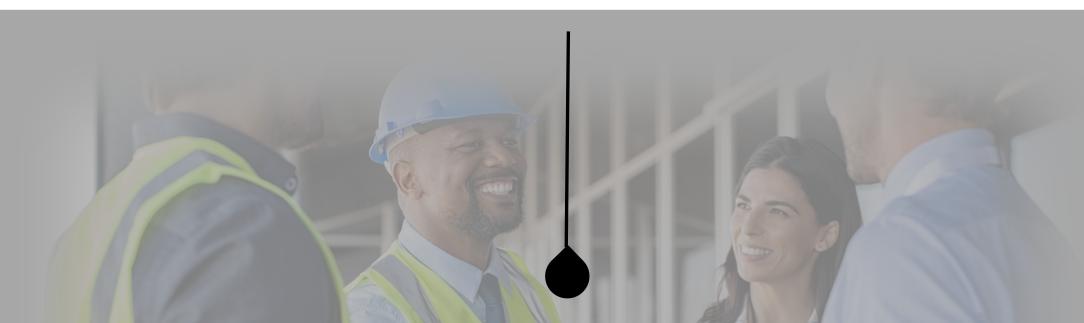


17

Engaging our Partners – Project Timeline



Engaging our Partners – Project Timeline



Trades provide final estimate at IFC (100% design). Vetted by Merck and EPCM

Trade Incentive locks in.

Material and overheads are lump sum.

Incentive payout on shared savings for reduction in target field execution hours.

Drives collaboration and waste removal opportunities across the trades and with EPCM.

Labor overrun reimbursed at cost

Alignment: Execution and Results



EPCM Perspective – Early Practice



EPCM Perspective – Current Model

- EPCM accountable lead
- Collaborative partnership
- CM-led End to End team solution
- Engage DA partners earlier (FEL2/3)
- Incentive Structure drives behaviors over Fee focus
- Cascade Incentive thinking to DA Trades

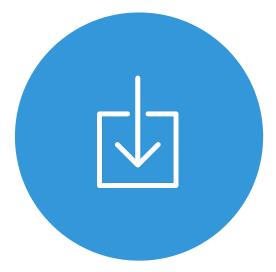
GOAL: Drive better Cost and Schedule Certainty



22

Trade Partner Perspective

Incentives – Reducing the Risks



Incentivizing Labor Reduces Risk

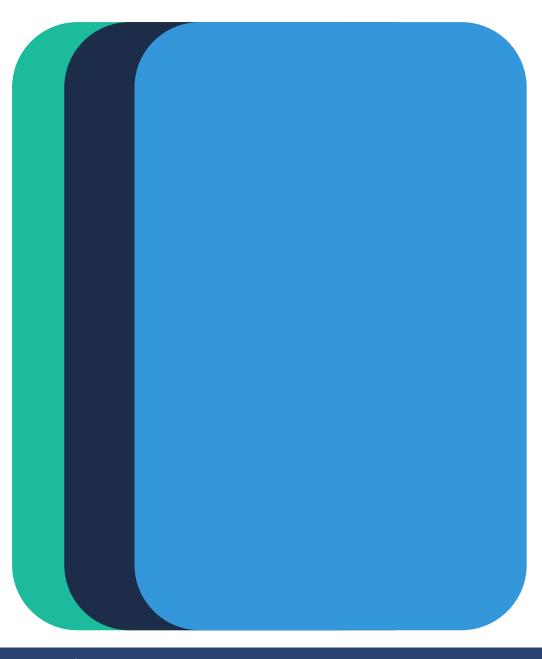
Direct labor makes up 50%-60% of entire project.

Other cost are predictable or fixed (Management, Equipment, Material).



Open Transparency in Estimates

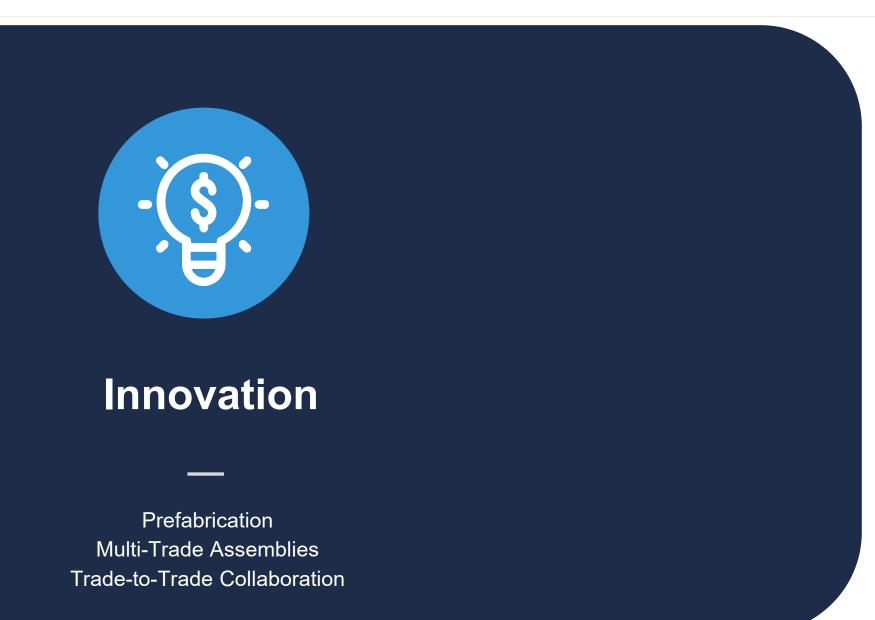
Complete open book negotiations to ensure best installation and value are achieved.



Advantages

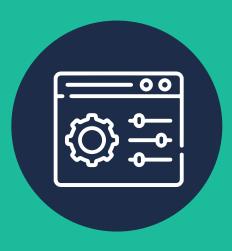


Increasing productivity to the project through buy-in and having a clear sense of purpose.



26

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Predictability

Early On-Boarding to eliminate "grey" areas of scope
Less Waste in CO Processing.

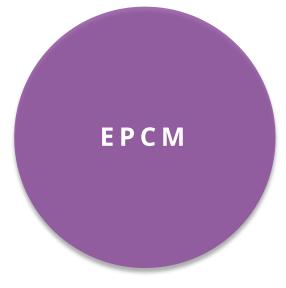
Win-Win for All Stakeholders



Direct Rewards for Efficiency

Long-Term Partnerships

Collaboration and Input



Shared Rewards

Fostering Innovation

Long-Term Partnerships



Risk Mitigation

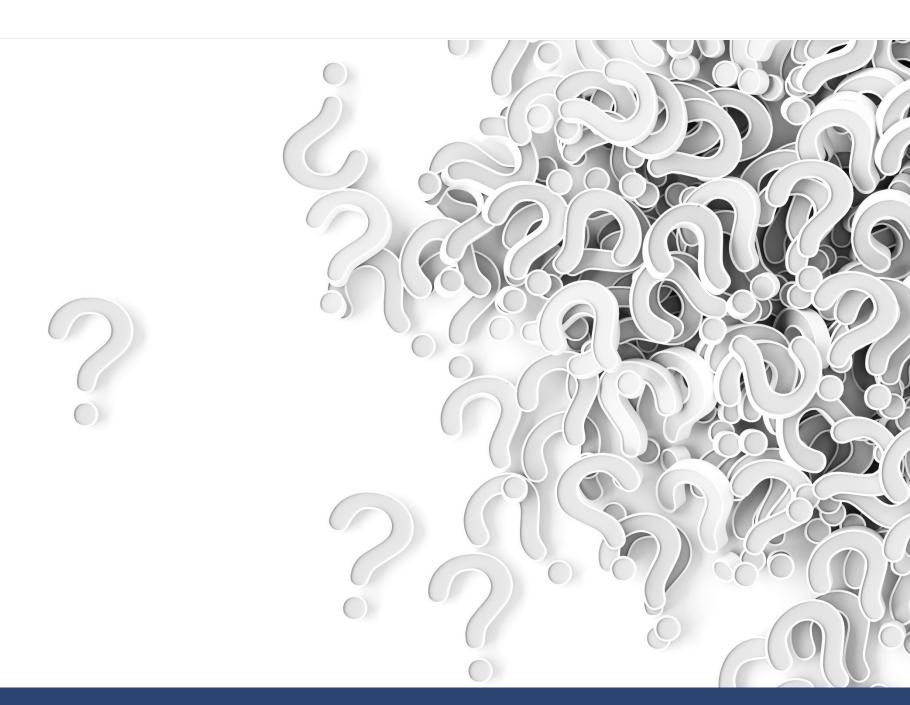
Improved Collaboration

Motivated Partners



28

Questions?



29





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.



Contact Us

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Thank you for attending this presentation. Enjoy the rest of the 26th Annual LCI Congress!

