

2025 LEAN IN DESIGN FORUM APRIL 30-MAY 1, 2025

#LCIDesign25

LEAN DESIGN: UNLOCKING NEW POSSIBILITIES

VDC for Lean Design: Unlocking Projects' Efficiency





Diana Gasca, Design Manager - Hermosillo Pablo Buensuceso, VDC Manager - Hermosillo May 1st, 2025



Speaker's Introduction







Diana Gasca Precon Design Manager



Pablo Buensuceso VDC Manager





Hermosillo

































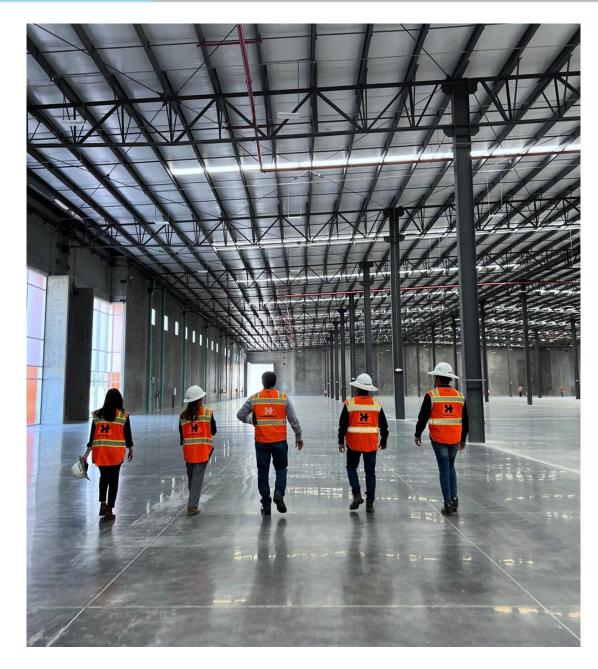




Introduction



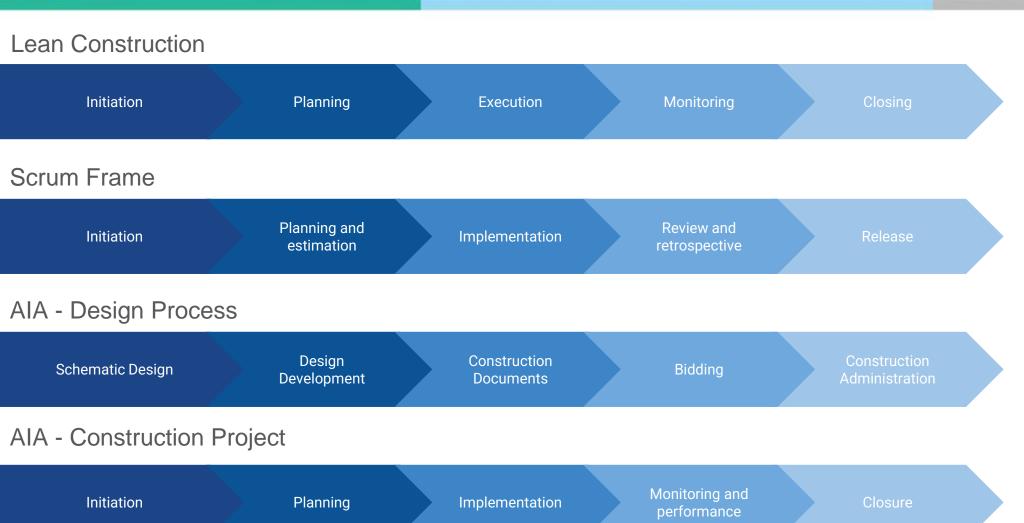
- Project Life Cycle approach: Industry
 Standards
- Industrial Warehouses Life Cycle Project:
 Challenges & Adjustments
- **VDC Tools:** What, How and When
- Lean & Scrum: Making it Real
- Results in numbers: Time, Money & Society
- Questions & Answers





Project Life Cycle approaches





Deliver on time, within budget and with high quality



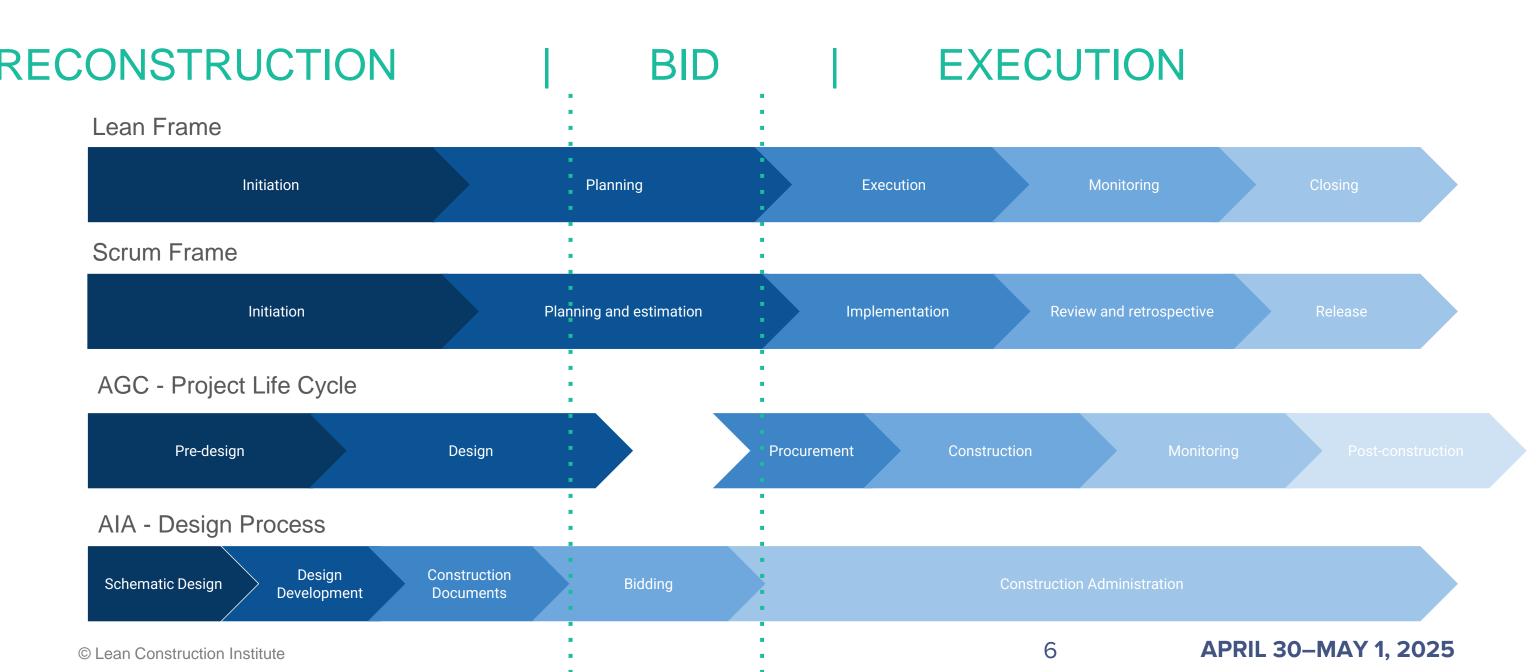
Pre-design Design Procurement Construction Monitoring Post-construction



Project Life Cycle approaches aligned to our workflow





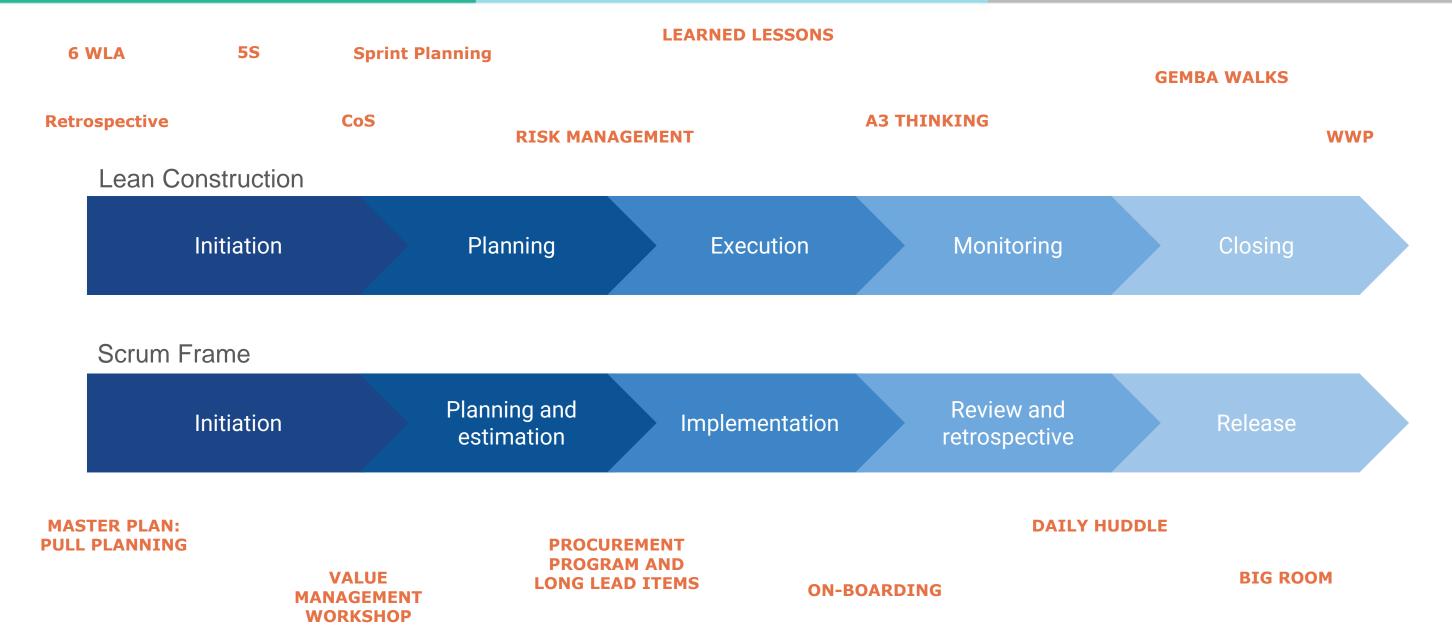




Identifying the Lean & Scrum tools that optimized the project's life cycle









Industry's main challenges



The industry is evolving:

- Clients now expect faster project delivery at lower costs

+

- There's a growing demand for industrial warehouses driven by nearshoring trends

- It was time to reimagine our design workflow, we wanted to design & build smarter, not just faster.



Industrial Warehouses: main challenges





- The Pressure Is Real and Growing
 - Ø Tight Timelines
 - Bidding: deliver in just 2–4 weeks
 - Fast-track design: 8–12 weeks, running parallel to construction
- Client Challenges
 - Inexperience and constant indecision slow momentum
- Internal Growth
 - Rapid scaling = new hires, new teams, constant onboarding - Empower new, inexperienced talent & enable fresh teams to perform like seasoned pros
- External Demands
 - Nearshoring is driving a surge in project demand
- All happening at once.
- We needed a system built for speed, clarity, and resilience.

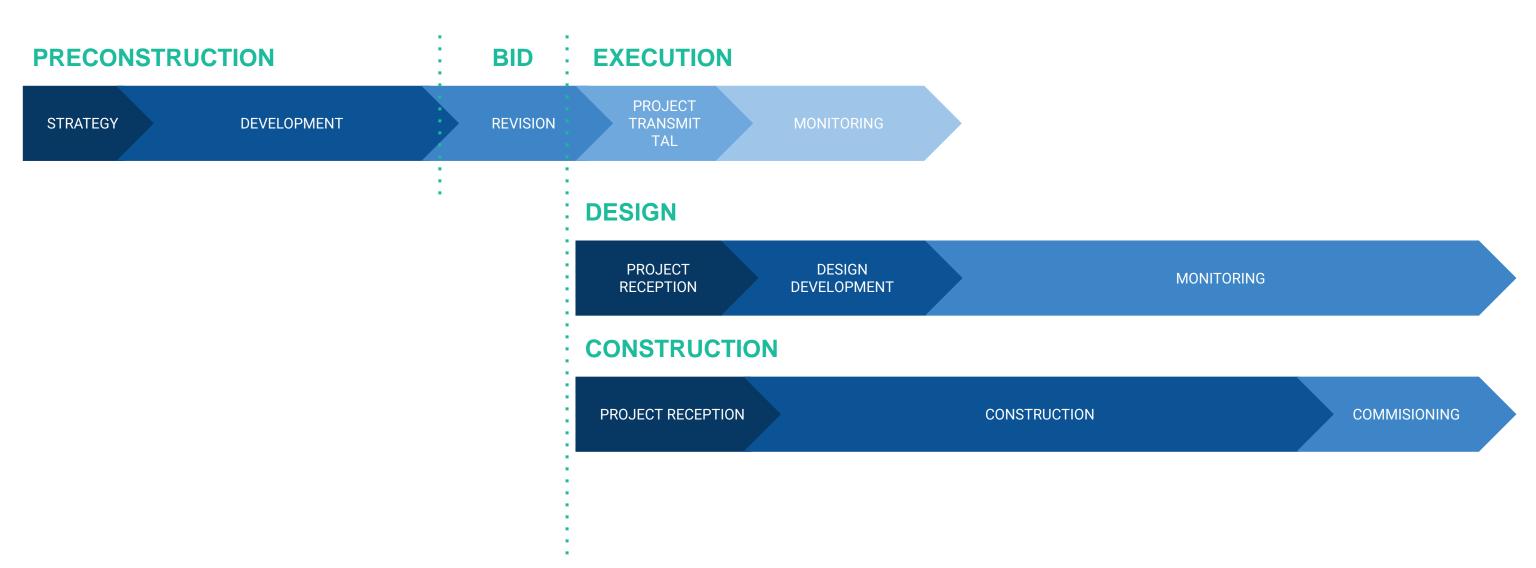
We Weren't Just Looking for a Process — We Needed a Breakthrough

Because this isn't about doing things the old way faster — It's about redefining how we build from the ground up.



Molding our Workflow



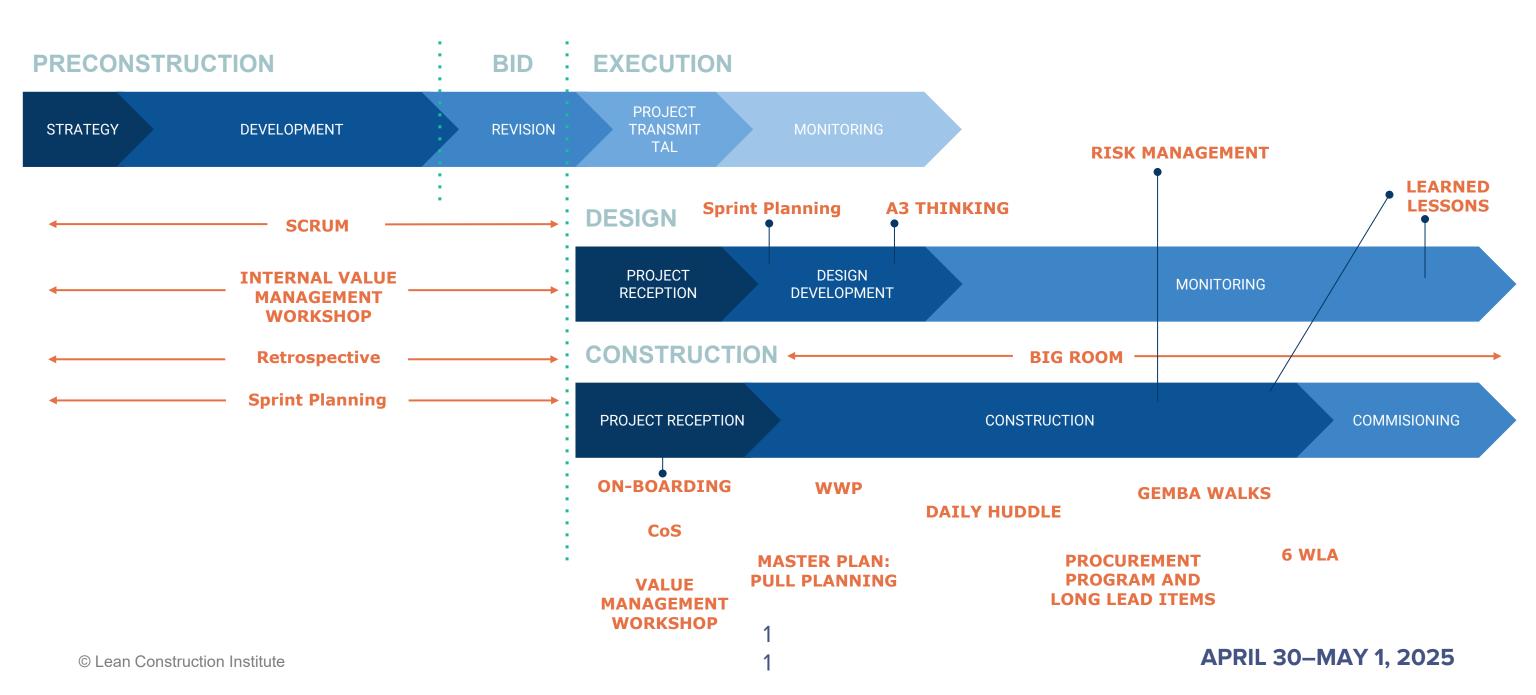




Molding our Workflow + Lean & Scrum







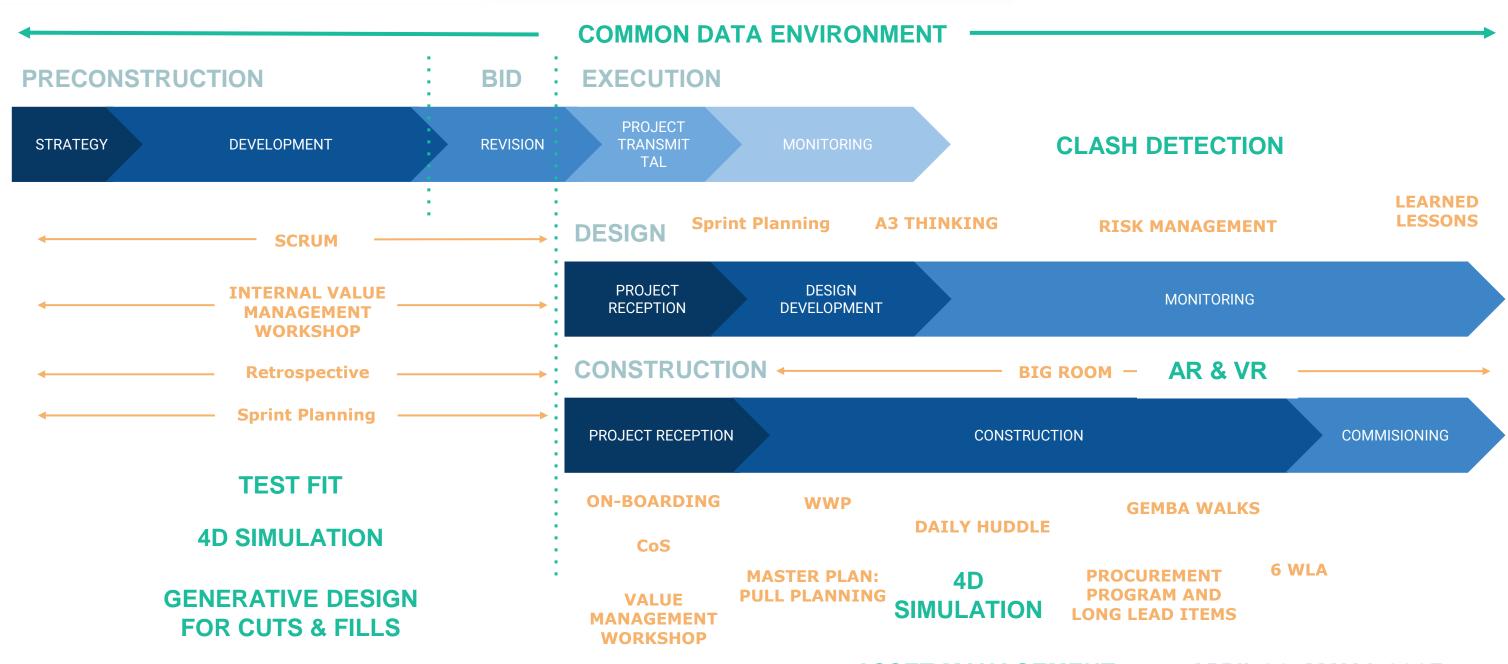


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Molding our Workflow + Lean & Scrum







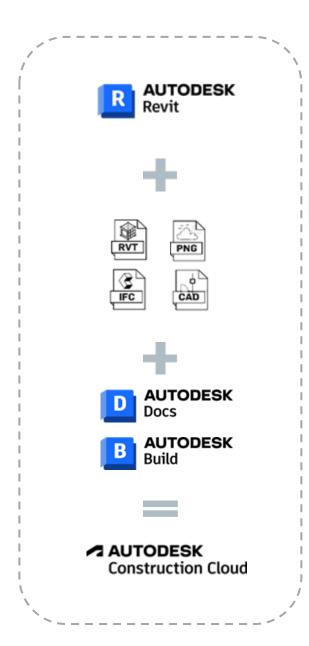
12 ASSET MANAGEMENT APRIL 30–MAY 1, 2025

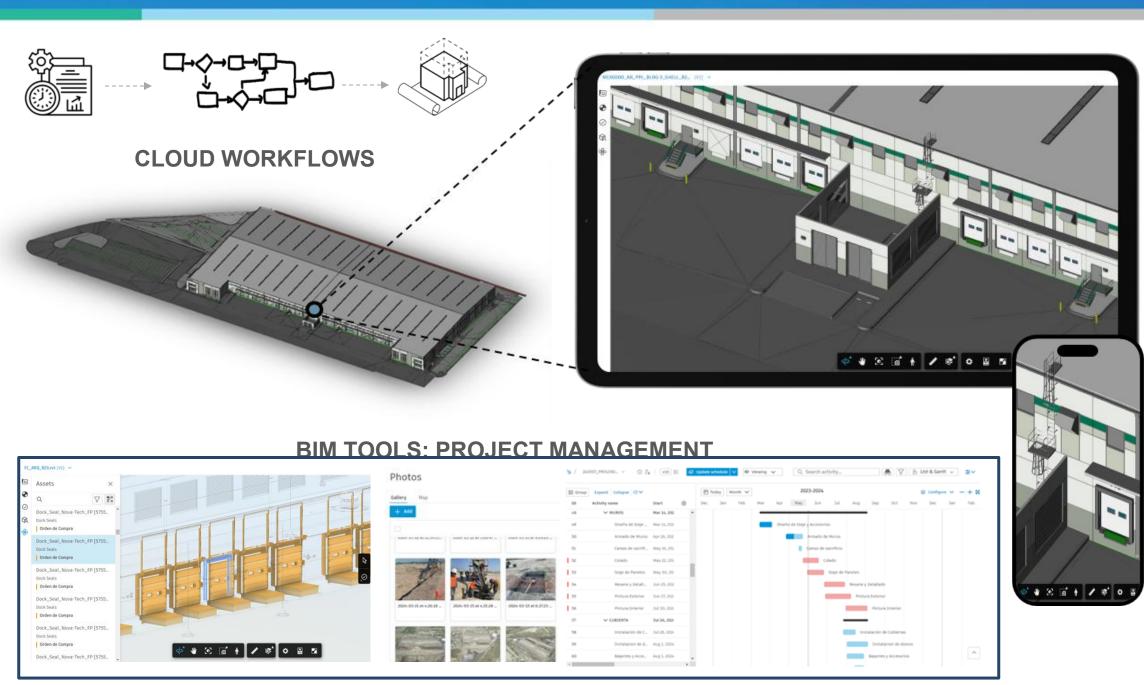


Common Data Environment: CDE (ACC)









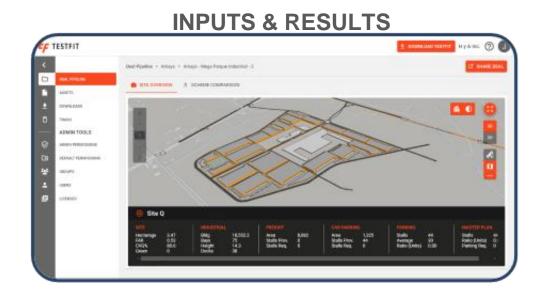


Pre Construction: Test Fit

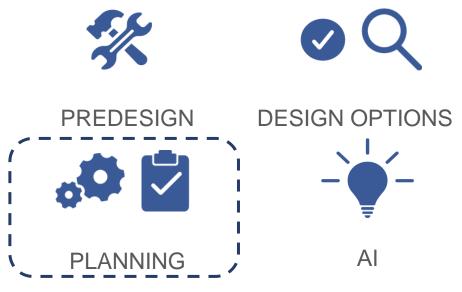








GENERATIVE DESIGN & OPTIMIZATION



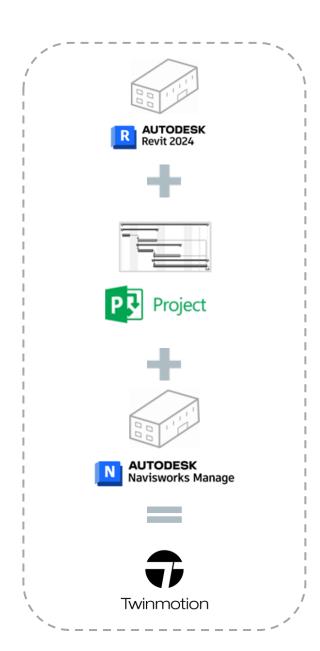


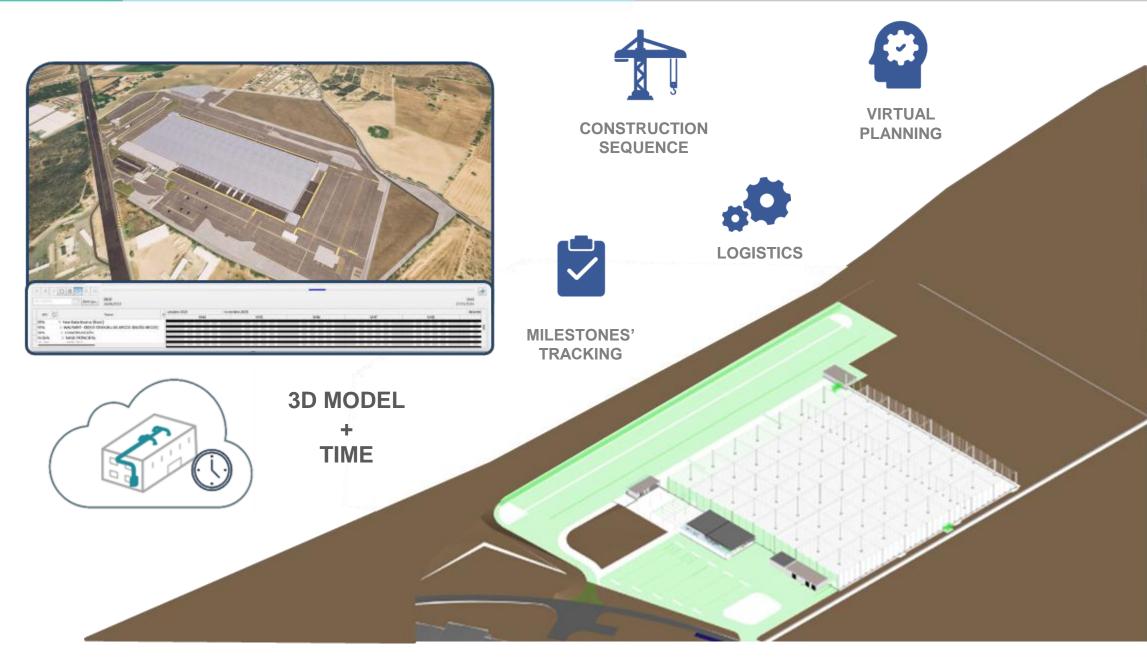


Pre Construction & Construction: 4D Simulation







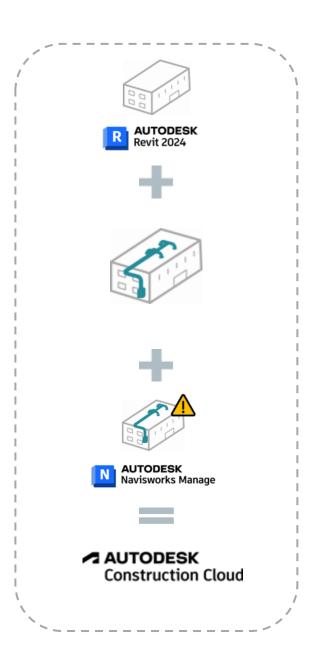


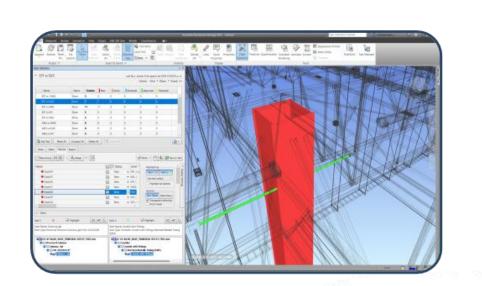


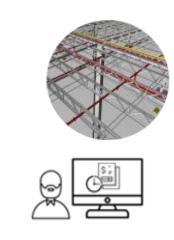
Construction: Clash Detection

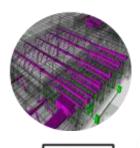


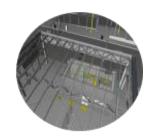












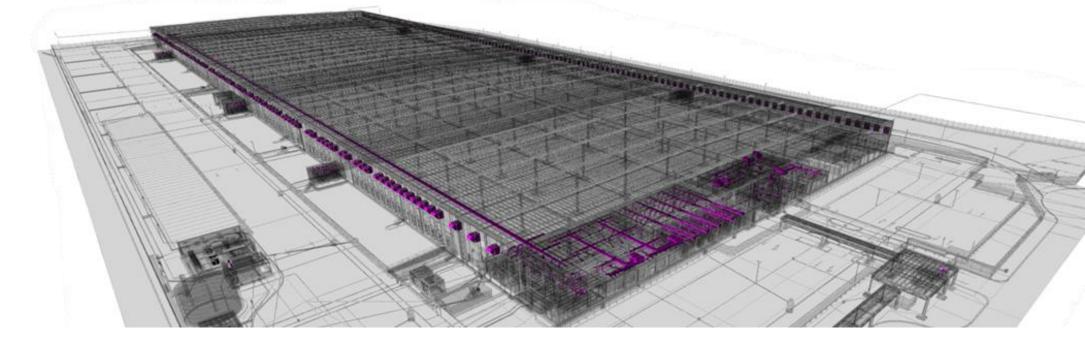




CONSTRUCTABILITY PREVIEWS

INTERFERENCE CHECK

MULTIDISCIPLINARY MANAGEMENT





Pre Construction & Construction: AR & VR & Construction



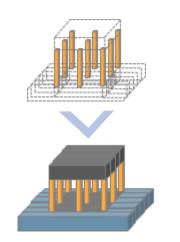




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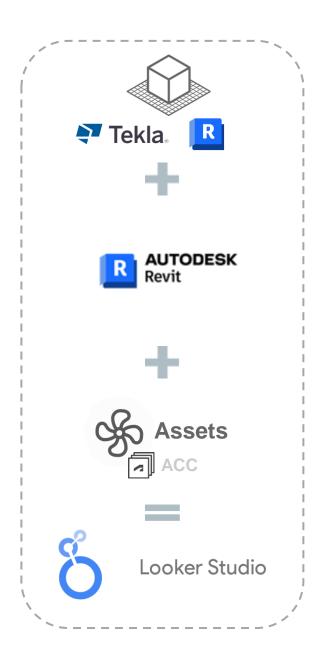


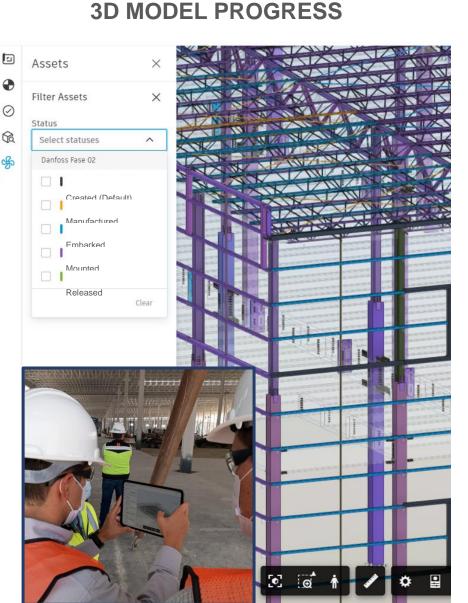


Construction: Asset Management

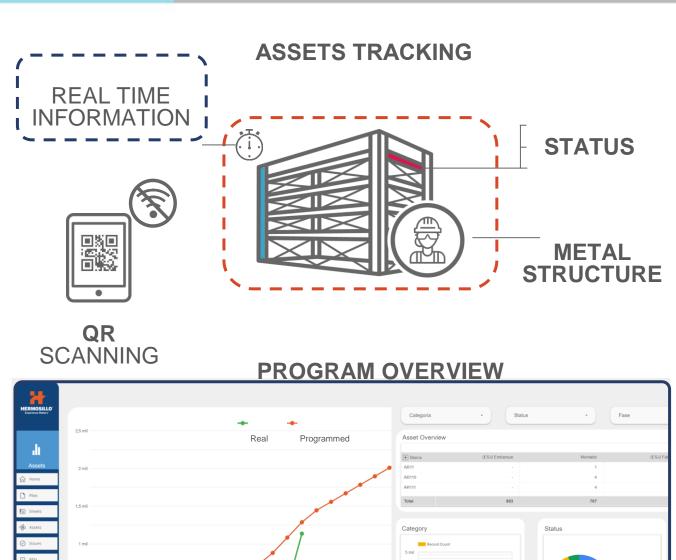








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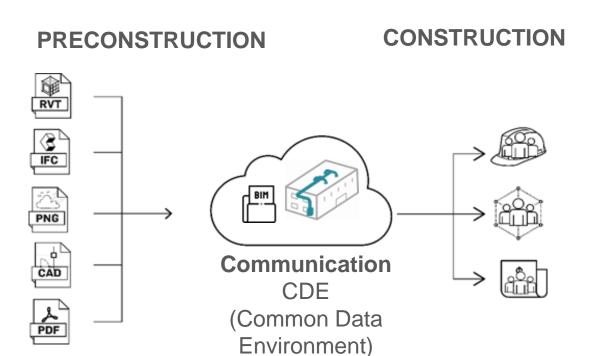


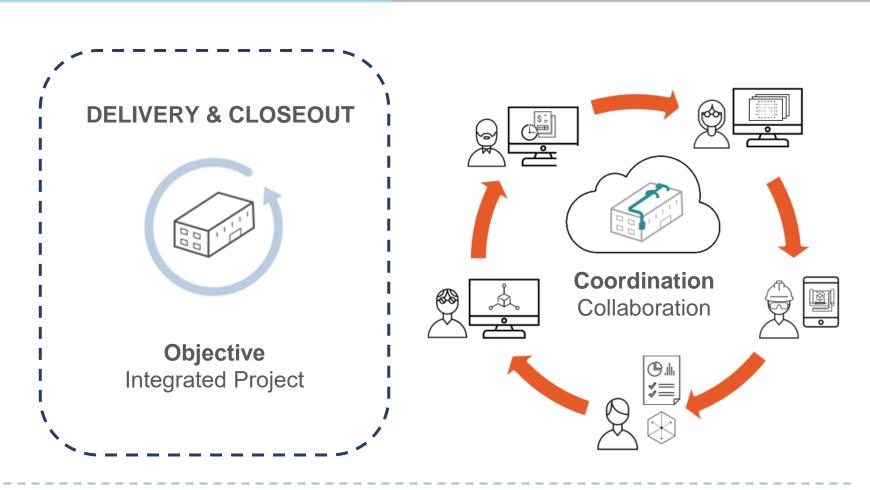


VDC Tools: WHAT, HOW AND WHEN

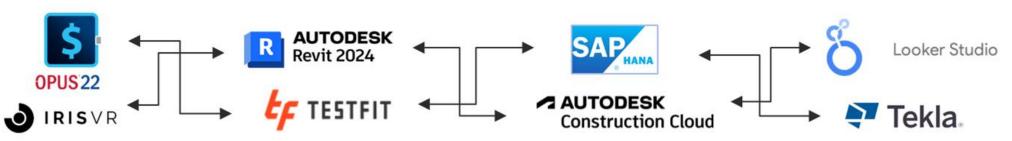








Technology Integrated Ecosystems

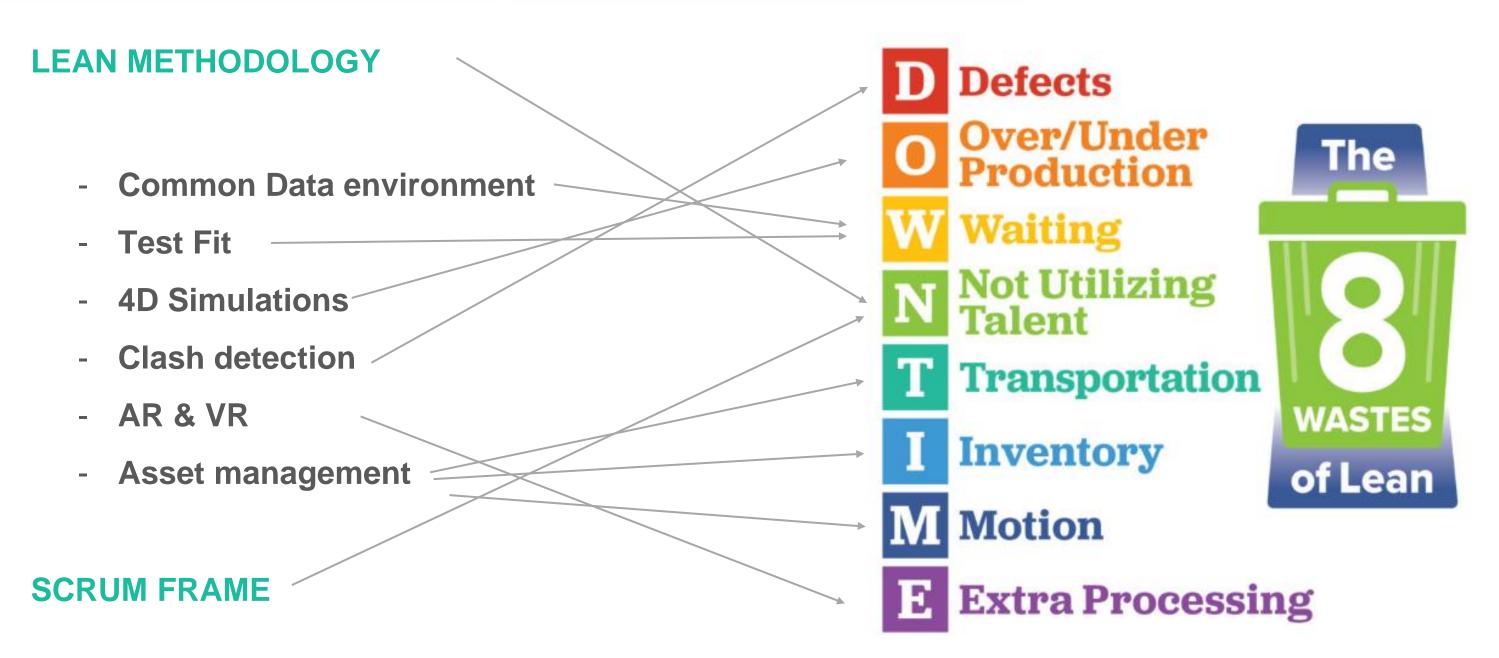




Making it real: leveraging lean tools to succeed









Questions & Answers







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Construction



Icon Library





These icons can be used throughout your presentation



Plan | Value Generation



Do



Check



Act | Safety





Continuous **Improvement**



Respect for people | Team



Removal of Waste



Process and Flow



Optimize the Whole



Built **Environment**



Tools



Resources



Training



Research



Collaboration































