

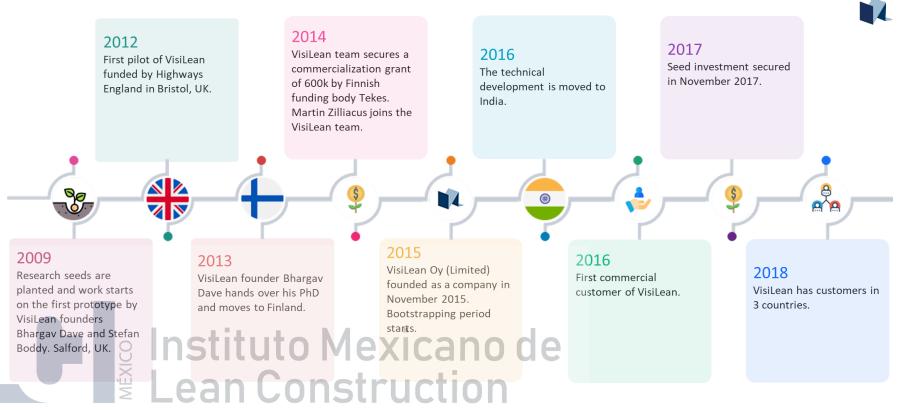


1^{er} Congreso Anual 11 - 12 – 13 de Noviembre

VisiLean / Mace



About VisiLean





CORE TEAM

Dr. Bhargav Dave, (CEO) Experienced Lean and BIM practitioner and researcher in the construction industry

Martin Zilliacus, (COO) New business professional and innovator with strong R&D background in ICT

Stefan Boddy (CTO) Software export and researcher with 15+ years in construction industry ADVISORS



Prof. Lauri Koskela Internationally recognised authority onlean construction

Prof. Rafael Sacks International expert on Lean and BIM



Project: Data centre (3 storey)

Site area: 95 (Ha), greenfield project

(290 acres)



The data centre buildings include roof top mechanical equipment and measure up to 8.6m to the roof eaves, with a parapet

wall up to 9.1m and a roof mounted plant screen wall around roof mechanical equipment up to 15.9m. The site infrastructure

includes access roads, car parking, internal roads, entrance security hut, landscaping and a 220kV substation.



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Challenges

- Planning projects flexibly and adapting to changes during projects

Tracking activities daily and being informed on issues

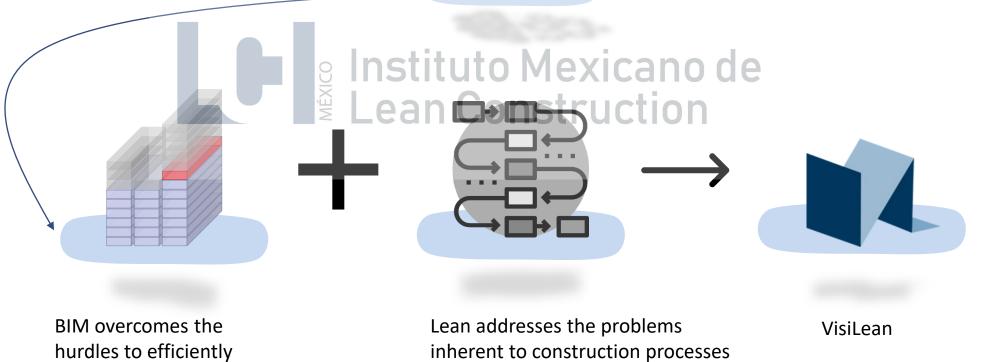
- immediately
- Identifying problems before they seriously affect projects
- Measuring project performance



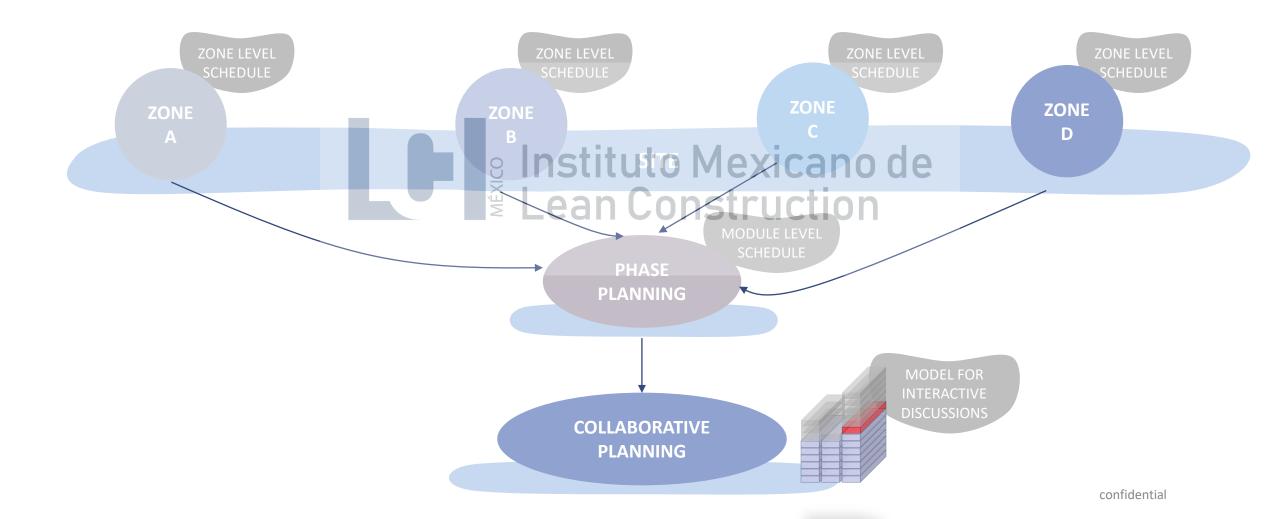
METHODOLOGY : LEAN AND BIM INTEGRATION

handle the product



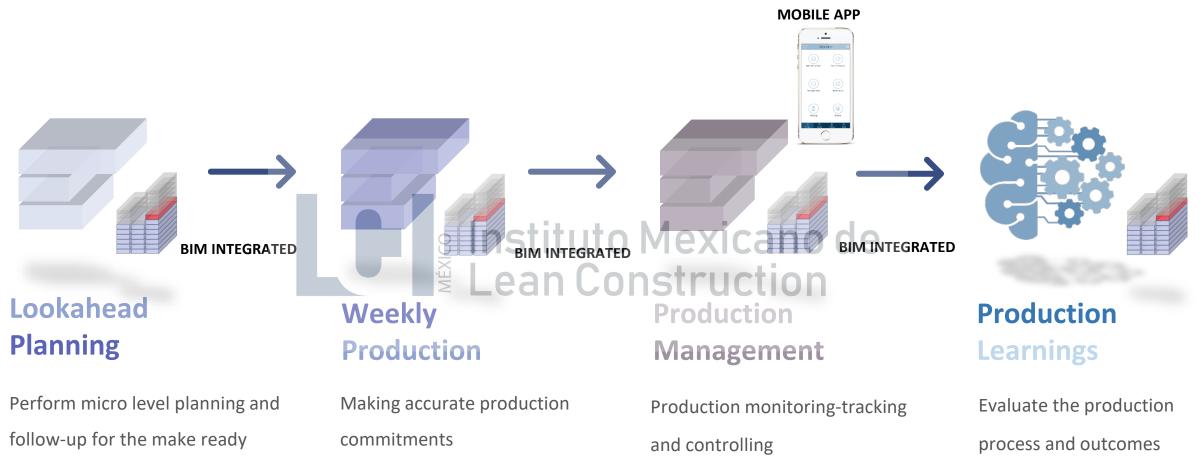


PROCESS IMPLEMENTED





process



DIGITAL DISPLAY ROOM

8 8

3D Model

mmace

Master Plan

confidential

Associated Drawing

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exicano de

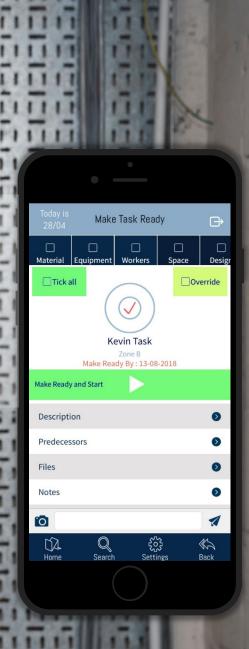
in Construction

Lean Process Digitalised

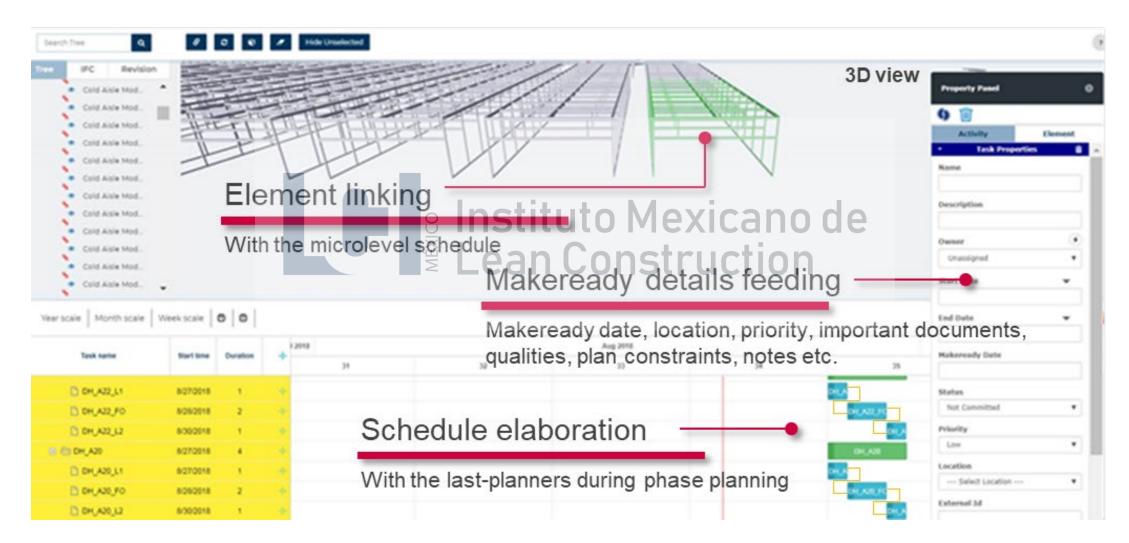
Real-Time Data Capture

Instituto Mexicano de Lean Construction

all little



CREATING ELABORATED SCHEDULES



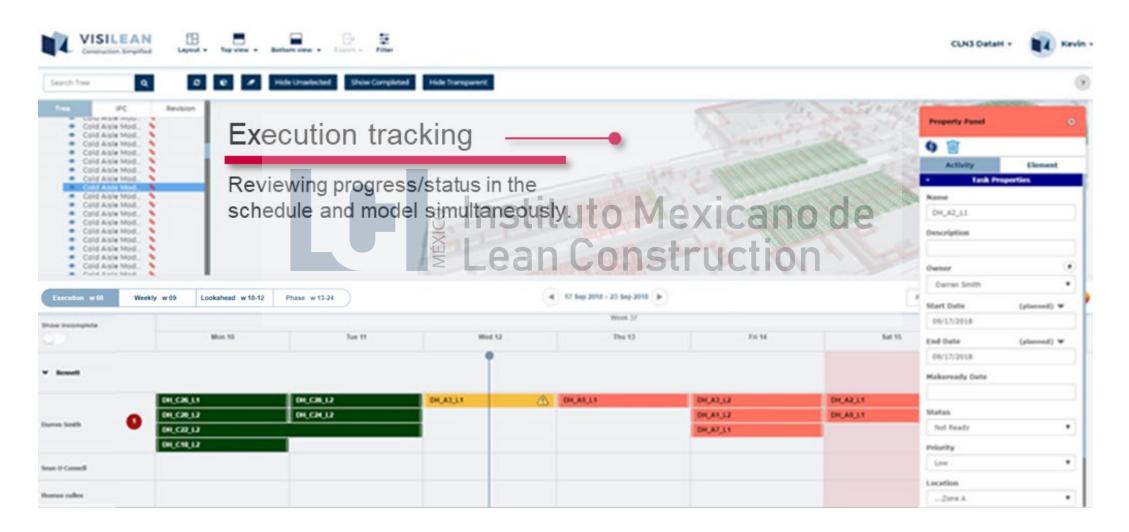
Last Planner System

Live updates on the dashboard
Proactive Decision-making

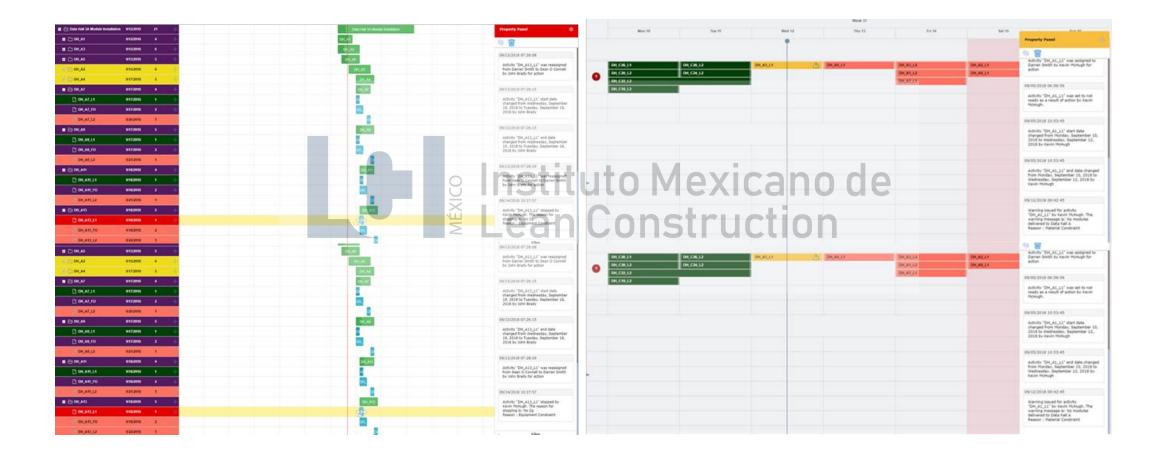
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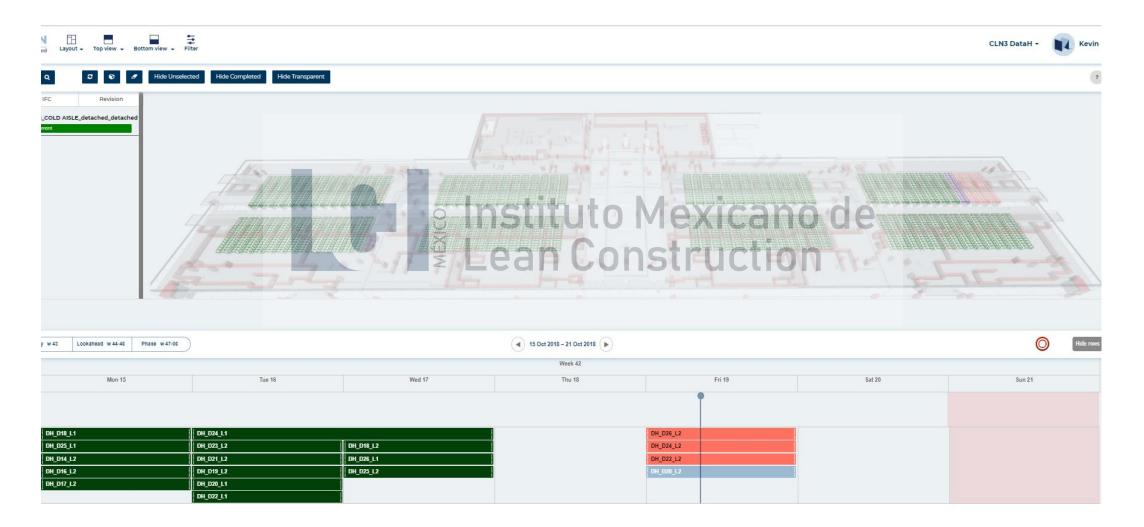
WORK PROGRESS TRACKING USING COLOR CODES



STOPPED, WARNING TASKS AND QUALITY APPROVALS

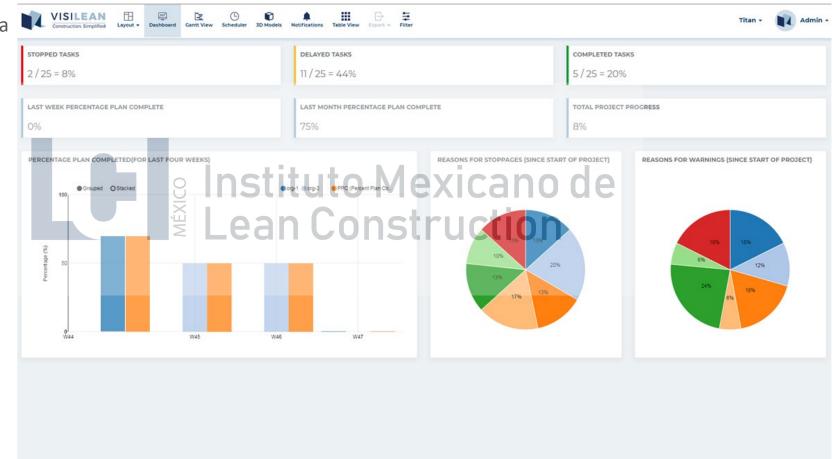


INTEGRATED PRODUCTION PLAN WITH BIM (LEAN 4D)





Dashboard view provides a complete health check-up for your projects. It gives you an overview of stopped, Delayed, Completed tasks and also the last four weeks PPC.





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Conclusion based on the field results

- i) 60% reduction in defects,
- ii) 43% improvement in program efficiency,
- iii) 45% reduction in labour spend.
- iv) Additionally, the team was able to reduce transport and congestion on site and improve realtime project transparency.

CLN1 installation time for Data Hall fit out sequence was **21 weeks** CLN2 installation time for Data Hall fit out sequence was **16 weeks** CLN3 installation time for Data Hall fit out sequence was **9 weeks**



MAJOR UK PROJECTS



Olympic Stadium Est. £280m Overall £700m

HS2

Est. £56bn

Overall £80bn+

BBC Headquarters Refurb Est. £991m Overall £1.1bn 6 year delayed



TOP TO WAJOR PROJECTS OVERRUN BY £17bn Lean Construction



The Shard Est. £350m Overall £435m Wembley Stadium Est. £757m Overall £1bn 1 year delayed



SUMMARY

- Save 10-20% of project costs and get improved predictability
- Start measuring and improving project performance tion
- The construction industry is going digital can you afford not to?





Gracias

Nombre de tallerista/conferencista

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