Infraday Construction AI & Digital Delivery

Tuesday, June 8, 2027 | Mountain View, CA

Venue to be announced. All times Pacific.

Preliminary agenda

8:45 AM – 9:25 AM	**Registration and breakfast**
9:25 AM – 9:35 AM	**Welcome and program briefing**
9:35 AM – 10:05 AM	**Which jobsite problem is expensive enough to automate?**
10:05 AM – 10:35 AM	**Who owns the layout model that the crew uses tomorrow?**
10:35 AM – 11:05 AM	**Morning break**
11:05 AM – 11:25 AM	**What DPR and Dusty's layout pilot actually measured**
11:25 AM – 11:40 AM	**Questions on the morning case**
11:40 AM – 12:10 PM	**Can AI-assisted submittal review stand up to an owner audit?**
12:10 PM – 1:10 PM	**Networking lunch**
1:10 PM – 1:40 PM	**What should a public owner buy in its robotics contract?**
1:40 PM – 2:00 PM	**Machine guidance meets the surveyor's acceptance test**
2:00 PM – 2:15 PM	**Questions on the implementation case**
2:15 PM – 2:45 PM	**When does inspection automation change a maintenance decision?**
2:45 PM – 3:15 PM	**Afternoon break**
3:15 PM – 3:45 PM	**How do crews work alongside a moving machine?**
3:45 PM – 4:15 PM	**Does a faster floor justify buying a second machine?**
4:15 PM – 4:45 PM	**Design a pilot that can fail honestly**
4:45 PM – 5:10 PM	**Report back and audience questions**
5:10 PM – 5:45 PM	**Meet the project teams and continue the discussion**

Session details

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9:35 AM – 10:05 AM | Owner priorities

Which jobsite problem is expensive enough to automate?

Start with a single repeatable task and account for the time that the surveyor, virtual construction team and trade foreperson spend before and after field execution. Compare that baseline with a robot-assisted workflow. The decision turns on rework, safety, waiting and supervision across the crew, including whether a faster task actually releases the next trade earlier.

- Measure labor across the full workflow
- Select a pilot with a meaningful denominator

10:05 AM – 10:35 AM | Featured conversation

Who owns the layout model that the crew uses tomorrow?

A robot can reproduce a wrong drawing accurately. Trace a late design change through coordination, approved model, field release and verification on the slab. Compare the designer's responsibilities with the contractor's field controls. Discuss how a trade foreperson identifies the current revision and what happens if an earlier floor marking remains visible.

- Assign ownership of the released layout file
- Define the field check for superseded information

11:05 AM – 11:25 AM | Project case study

What DPR and Dusty's layout pilot actually measured

DPR described a field trial of robotic layout with an operator. Use the contractor's account to examine which tasks were timed and which preparation activities sit outside the field measurement. Compare floors with different trade density, model maturity and access. An audience Q&A challenges how a project team could reproduce the comparison on a second site.

- Separate layout speed from total installed cost
- Design an independent repeat trial

11:40 AM – 12:10 PM | Panel

Can AI-assisted submittal review stand up to an owner audit?

Apply a document assistant to a routine submittal question. Trace the cited specification, amendment and drawing back to the contract record and identify the human reviewer authorized to answer. Compare reviewer time saved with the effort required to correct unsupported answers and maintain an audit record that still works when the software supplier changes.

- Define the human approval step
- Choose a sample that measures wrong answers and time

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1:10 PM – 1:40 PM | Panel

What should a public owner buy in its robotics contract?

Hardware access, verified field output and labor productivity are different purchases. Compare a daily rental, a service agreement and a performance-based pilot around a measurable task. Discuss data rights, equipment availability, support response and the contractor's duty to provide a safe workplace when the technology supplier controls part of the workflow.

- Select an appropriate payment unit
- Define acceptance and support obligations

1:40 PM – 2:00 PM | Implementation case study

Machine guidance meets the surveyor's acceptance test

Use Caltrans construction survey guidance to frame the difference between a digital surface used to guide work and the survey checks an owner will accept. Follow one earthwork segment through model preparation, independent control and as-built delivery. Discuss who resolves a model discrepancy and which records must remain accessible after the field system leaves the job.

- Separate production guidance from independent verification
- Define the record delivered at acceptance

2:15 PM – 2:45 PM | Panel

When does inspection automation change a maintenance decision?

Choose an inspection workflow in which a captured image or measurement must lead to an owner action. Compare false alarms, missed conditions and the ability to revisit an earlier location. Discuss how the owner validates a finding, retains the record and budgets for review time before claiming that automated capture has reduced inspection cost.

- Define the owner's acceptance sample
- Measure downstream decisions per inspection

3:15 PM – 3:45 PM | Featured conversation

How do crews work alongside a moving machine?

Study the planning meeting before a robot arrives on an active floor. Operators, other trades and supervisors need a shared plan for access, temporary stops and reporting a problem. Compare a controlled demonstration with a cluttered shift where conditions change frequently. Discuss training time, worker feedback and the authority to stop or reassign the task.

- Define field stop authority
- Build training and supervision into pilot cost

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3:45 PM – 4:15 PM | Panel

Does a faster floor justify buying a second machine?

Compare the first and tenth deployment using utilization, transport, setup, model preparation and crew learning. Discuss how a firm can separate good results on one unusually clean site from a repeatable business case. The owner and contractor perspectives put different values on turnover speed, schedule float and avoided rework.

- Calculate a utilization threshold
- Test payback against repeat-job conditions

4:15 PM – 4:45 PM | Working session

Design a pilot that can fail honestly

Tables choose a layout, inspection or document task and write a trial another project could reproduce. Specify the comparison crew, quality tolerance, reviewer time, operator training and a stopping rule. A skeptical owner challenges the denominator and a trade representative challenges the working conditions before the team recommends a purchase, redesign or end to the trial.

- Prepare a reproducible test protocol
- Set a buy or stop threshold before the trial