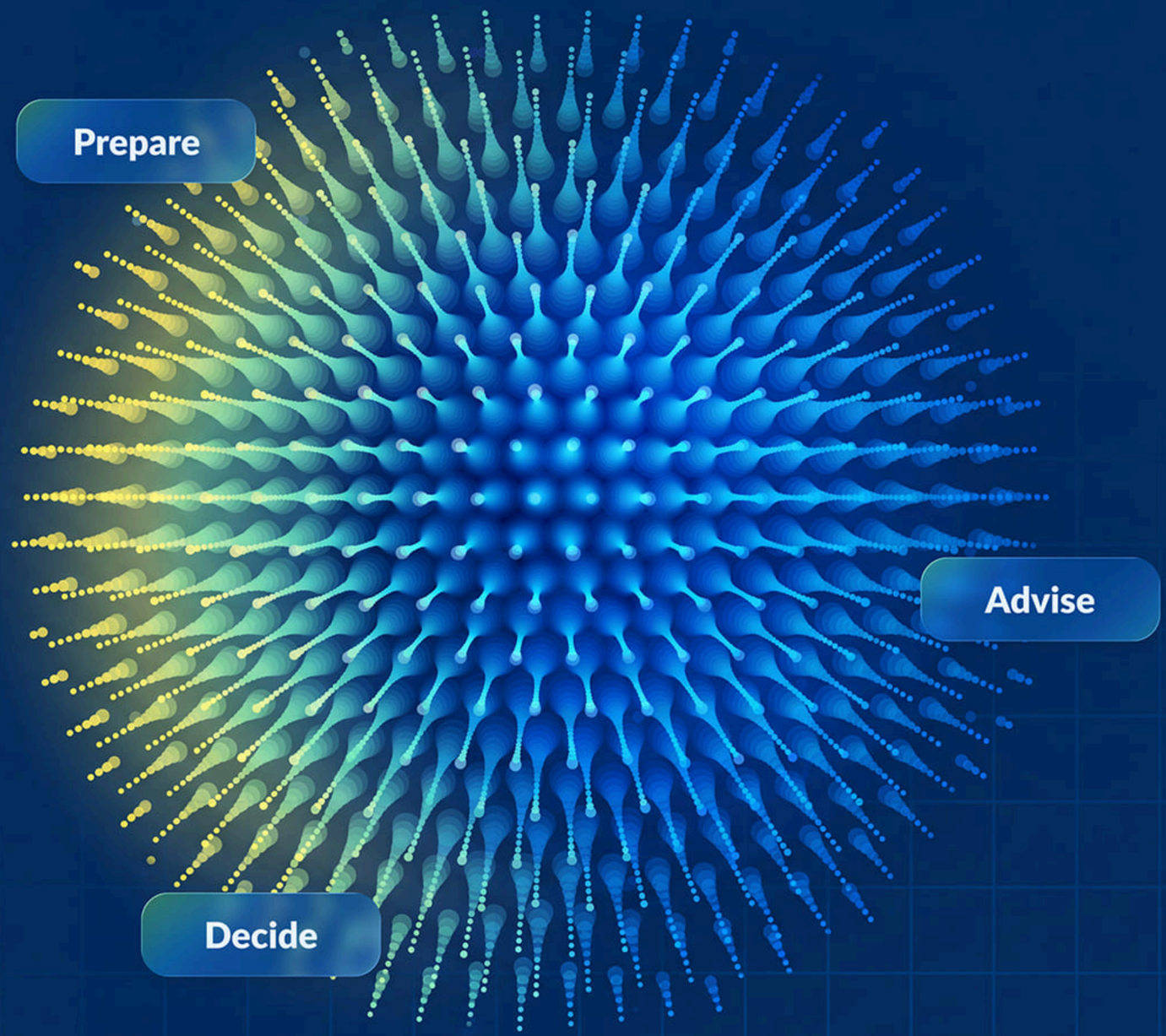
PlanRadar

SURVEY REPORT

Global Construction AI Confidence Index



Executive summary

This report draws on the views of **2,330 construction professionals across 20 markets, who rated their confidence in AI on 18 everyday project tasks.** It explores where confidence is strongest, how it changes as AI moves from preparing information to advising and making decisions, what holds that confidence back and what teams expect to gain from AI.

Key insights

1

Construction is confident in AI

The Construction AI Confidence Index stands at +35 on a scale from −100 to +100. On every task, **more respondents are confident handing everyday work to AI than not**.

2

Confidence falls when AI decides

In tasks where AI prepares the work or advises on the decision, the average confidence score is +43. **In tasks where AI makes the decision itself, it falls by around half, to +20.**

3

Confidence runs ahead of use

Only one in five respondents (19%) have built AI into how the work runs, through automated workflows or AI agents, yet **confidence in AI goes much further than that.**

4

Trust in AI's output is the biggest barrier

For 70% of respondents, confidence is held back by accuracy and hallucination risks, the need for human judgement, or both. This suggests **they want the final judgement to stay with a person.**

5

Teams want efficiency from AI first

78% expect AI to reduce repetitive tasks, streamline processes, or both, followed by **better quality in what they deliver**.

Methodology

Survey design

The report is based on an online survey of 2,330 construction professionals, conducted between September and October 2026. The survey had 20 questions. Download the full data

The Construction AI Confidence Index

Respondents rated their confidence in AI performing each of 18 everyday project tasks, on a five-point scale from very unconfident to very confident. Each task's score is the share of respondents confident in AI performing it minus the share unconfident, on a scale from −100 to +100. Respondents who answered "unable to assess" are not counted for that tasks.

All 18 tasks are listed in the table on pages 15 and 16, with their descriptions, scores and assigned groups. The groups, based on whether AI prepares, advises or decides, are PlanRadar's own classification, used to interpret the results.

About PlanRadar

PlanRadar is a leading platform for 360° digital documentation, communication and reporting in construction, facility management and real estate projects, powered by AI. With over 200,000 users in more than 75 countries, PlanRadar enables customers to work more efficiently, enhance quality and achieve full project transparency.

For more information, visit www.planradar.com

Sectors

Survey respondents came from a variety of sectors across construction:

- Specialty contractors (25%)
- Project management and supervision (21%)
- General contractors (20%)
- Architecture and technical planning (13%)
- Developers and owners (10%)
- Asset, property and facility operations (6%)
- Other construction entities (5%)

Geographic scope

A global sample drawn from 20 markets across four regions:

Europe and Central Asia

Germany, Austria, Switzerland, UK, Italy, Spain, France, Benelux, Scandinavia, Poland, Romania, Russia and Central Asia, Other Central and Eastern Europe (incl. Czech Republic, Slovakia, Hungary, Baltics), Other South-Eastern Europe (incl. Bulgaria, Croatia, Serbia, Slovenia, Greece)

Middle East

GCC (Saudi Arabia, UAE, Qatar, Kuwait, Bahrain, Oman), Other Middle East (incl. Jordan, Lebanon, Iraq)

Americas

North America, South America

Asia-Pacific

South-East Asia, Australia and Oceania

Introducing the Construction AI Confidence Index

+35

Construction AI Confidence Index

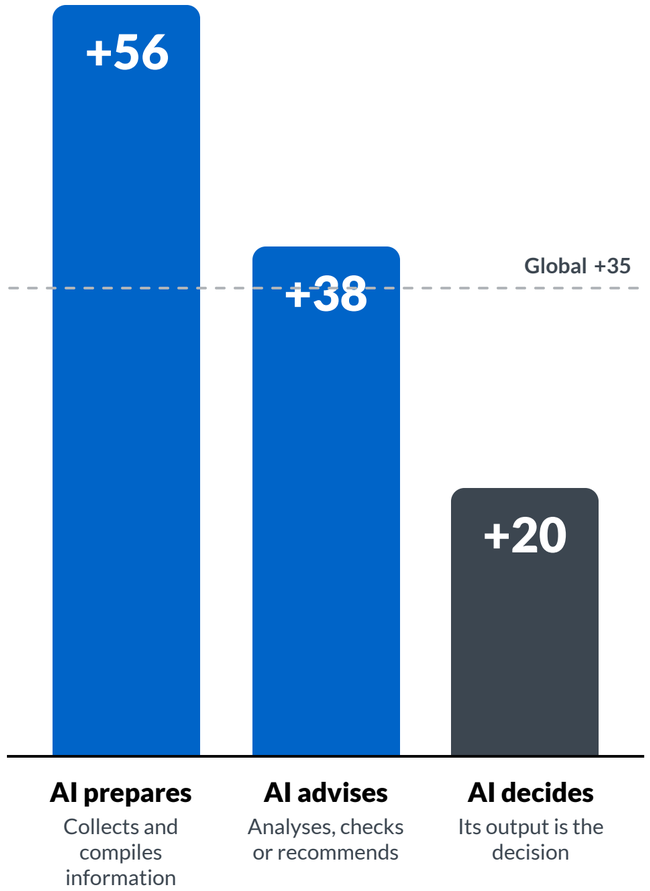
Average across 18 tasks,
on a scale from −100 to +100

The Construction AI Confidence Index scores **18 everyday project tasks** by how confident respondents would be in AI performing them. The higher the score, the greater the confidence. The index stands at **+35**, and every task scores above zero, meaning more respondents are confident than not on each one.

The tasks fall into three groups*, based on whether AI prepares, advises or decides. Where AI **prepares**, it collects and compiles information. Where AI **advises**, it analyses, checks or recommends, and a person makes the decision. Where AI **decides**, its output is the decision, or it commits the project to a third party with no person in between.

Construction AI Confidence Index by type of task

Average confidence in AI performing the tasks in each group, on a scale from −100 to +100:



Confidence falls as AI moves from preparing to deciding

One task, chasing an overdue RFI, sits outside the three groups.

Confidence falls by around half when AI makes the decision, compared with when AI prepares the work or advises on it

Index scores differ by who makes the decision

Average confidence in AI performing the tasks in each group, on a scale from −100 to +100:

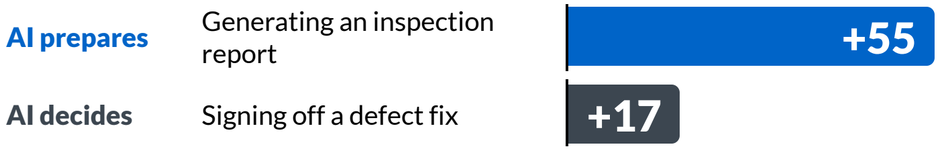


Around 2×

the confidence in AI preparing or advising on the decision compared with AI making it

Two tasks from the same inspection process illustrate the difference in confidence

Respondents' confidence in AI performing each task, on a scale from −100 to +100:



**Respondents rated 18 tasks. Chasing an overdue RFI sits outside the three groups, as AI neither prepares, advises nor decides on it. The 11 tasks where AI prepares or advises and a person makes the decision average +43. The 6 tasks where AI makes the decision average +20.*

Confidence is highest where AI collects and compiles information

+56

Index score
where AI prepares

Average across three tasks in this group, on a scale from −100 to +100

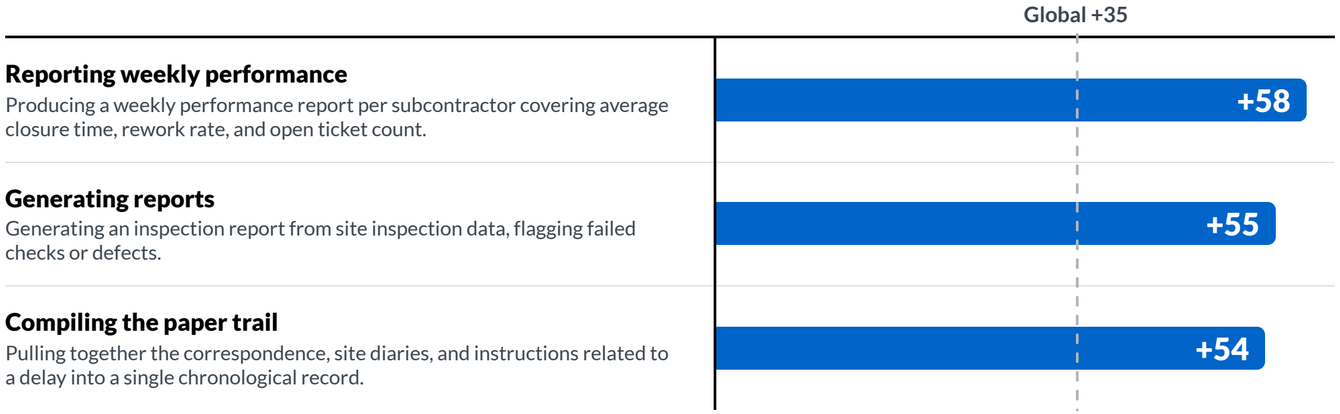
Confidence is highest where AI collects and compiles information for a person to review. When performing these tasks, AI works with the project's existing records and does not have to interpret what the data means. The output is a document and a person decides what happens next, so **AI prepares the decision and a person makes it.**

Respondents are confident in AI preparing the work even when a mistake in it would be costly. A weekly performance report can inform decisions on subcontractor contracts and payments, and a defect missing from an inspection report may not get fixed, but both tasks score above +50. A person stands between the document and the decision, suggesting that respondents are **confident in AI doing the work as long as they review the output.**

The tasks respondents are most confident handing to AI also take up a large part of their week. Over a third spend **more than a full working day a week on administrative tasks** such as reporting and paperwork, making these tasks a natural place to start with AI.

Where AI prepares, every task scores well above the Construction AI Confidence Index

Respondents' confidence in AI performing each task, on a scale from −100 to +100:



Around two in three respondents are confident in AI on each of these tasks, more than for any other task in the survey

Confidence holds where AI advises and a person makes the decision

+38

Index score
where AI advises

Average across eight tasks in this group, on a scale from −100 to +100

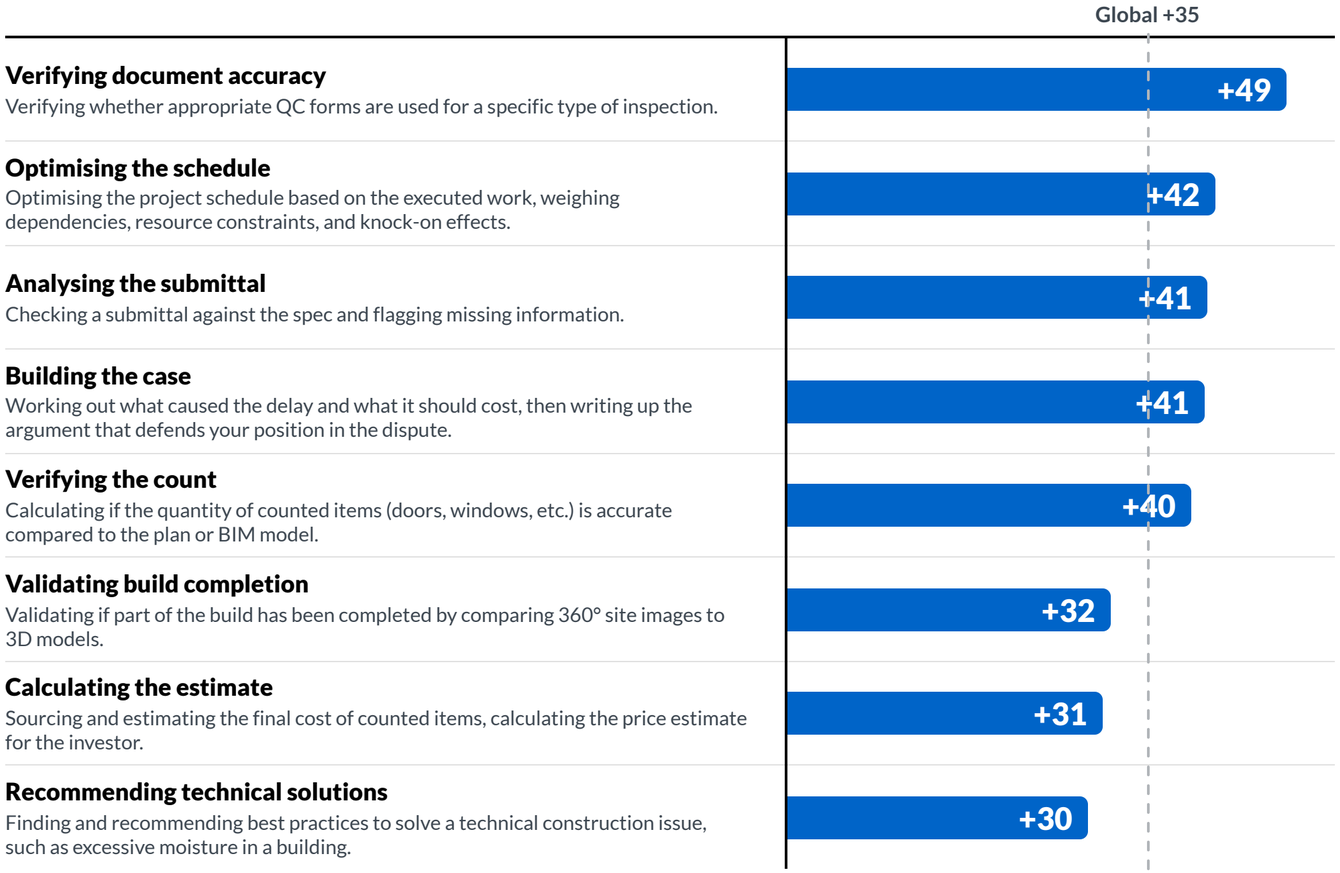
Confidence stays high where AI analyses, checks or recommends and a person makes the decision. Among these tasks, it is **highest where AI checks against a known reference**, such as whether the right QC forms are used for an inspection, and **lowest where it has to go beyond the project record**, such as sourcing prices for an estimate or finding best practice for a technical issue.

Even tasks that need experienced judgement, such as building the case in a delay dispute and optimising the schedule, score above the global figure of +35. In each, a person reviews and approves the result, suggesting respondents are comfortable handing difficult work to AI **as long as the decision and the accountability stay with a person.**

Validating build completion from 360° site images sits towards the lower end of the tasks where AI advises. Poor or incomplete project data and AI's ability to interpret site imagery are two of the main reasons respondents give for not being confident in AI, suggesting confidence also depends on AI's ability to read the site and compare it with the project's documentation.

Where AI advises, five of the eight tasks score above the Construction AI Confidence Index

Respondents' confidence in AI performing each task, on a scale from −100 to +100:



Confidence falls where AI makes the decision

+20

Index score
where AI decides

Average across six tasks in this group, on a scale from −100 to +100

Confidence is lowest where AI's output is the decision, or it commits the project to a third party with no person in between. Among these tasks, the calls that let work move on score lowest of all. Signing off a defect fix, clearing the next phase and answering an RFI that the site will build from all close one step and start the next. This suggests that respondents are most **cautious where a mistake by AI would affect the project before a person can catch it**.

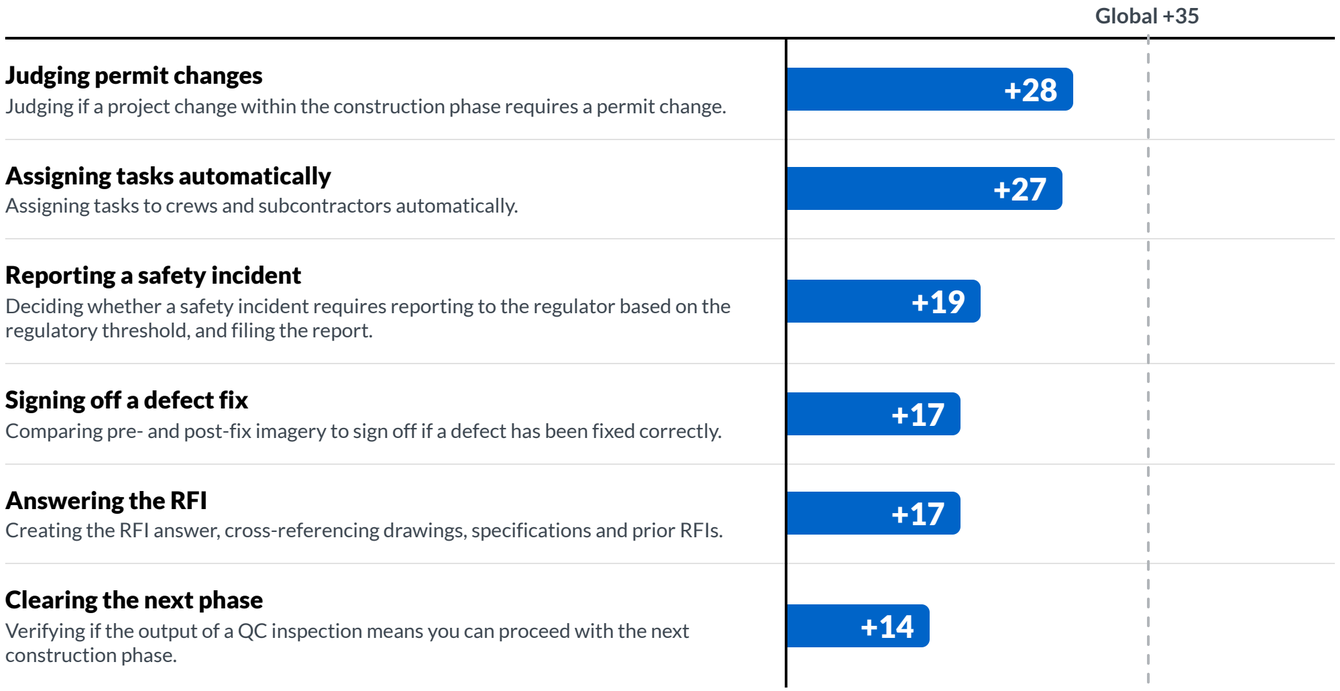
Yet lower confidence in AI making the decision signals **caution rather than opposition**, with more respondents confident than unconfident on every task in this group.



Around a third of respondents are neutral on the tasks where AI decides, meaning neither confident nor unconfident, well above the share on the tasks where AI collects and compiles information. The lower score therefore comes partly from respondents who have not made up their minds, suggesting that confidence in AI making decisions is still forming rather than settled against it.

Where AI decides, every task scores below the Construction AI Confidence Index

Respondents' confidence in AI performing each task, on a scale from −100 to +100:

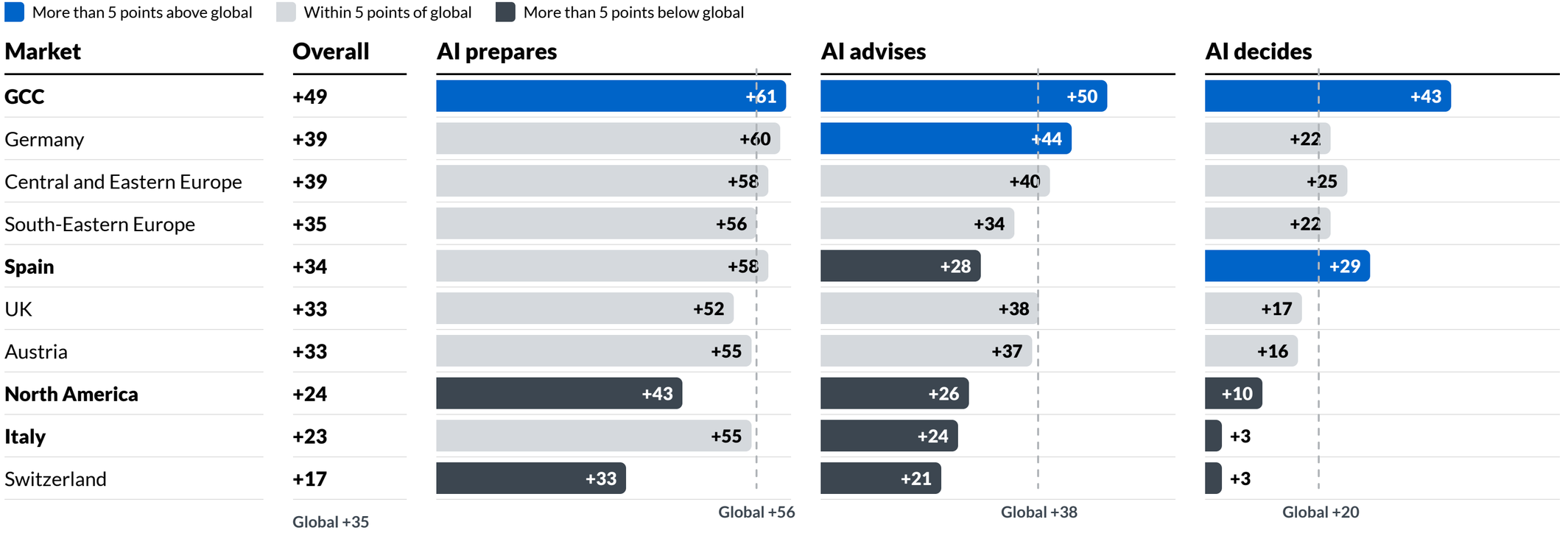


The Construction AI Confidence Index, by market

Confidence in AI is positive in every market* surveyed, and in each one it is highest where AI collects and compiles information. Markets broadly agree on AI preparing and differ most on AI deciding. In the **GCC**, the most confident market, confidence in AI deciding is around twice the global figure. **Spain** is also readier than most to let AI decide. **Italy** shows the sharpest drop once AI advises or decides. **North America** is below the global figure in every group.

Index scores by market and type of task

Average confidence in AI performing the tasks in each group, on a scale from −100 to +100:



**Data is presented for markets where 25 or more respondents rated the tasks. Markets with fewer respondents are included in the global figure but not reported separately, as too few responses make their results unreliable. Bar colours are based on unrounded scores.*

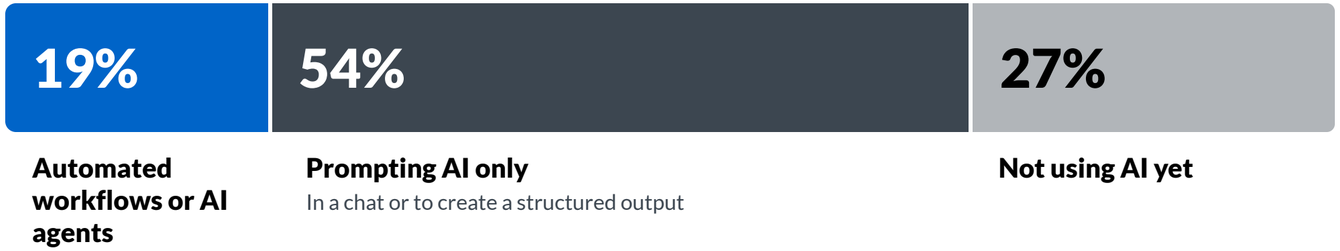
Confidence in AI is running ahead of use

Only one in five respondents have built AI into how the work runs, through automated workflows or AI agents, yet confidence in AI goes much further than that. Even where AI makes the decision, such as signing off a defect fix, more respondents are confident than not in handing the task to AI. More than half use AI only by prompting it, in a chat or to create a structured output such as a report template, and have yet to gain the benefits of letting it carry out work on its own.

For AI to carry out work on its own, it needs to be built into the platform where the work happens, and that is happening slowly. Among respondents who manage construction and handover processes in a central digital platform, two in five now report integrated AI functionality, only slightly more than nine months ago*. Over the same period, PlanRadar has seen AI capabilities advance significantly, suggesting that **adoption is not keeping pace with what the technology can now do.**

How construction teams use AI today

Share of respondents by the most advanced way they use AI within construction and handover processes:



How AI adoption has changed in nine months

Share of respondents using a central digital platform who report integrated AI functionality within it:



**Nine months ago refers to PlanRadar's previous survey of 1,728 construction professionals, conducted in January 2026.*

What holds back confidence in AI

70% cite trust in AI's output

Respondents named accuracy and hallucination risks, the need for human judgement, or both, making trust in AI's output the biggest barrier. This points to a wish for the final judgement to stay with a person, which helps explain why confidence falls where AI makes the decision.

53% point to AI not knowing the site

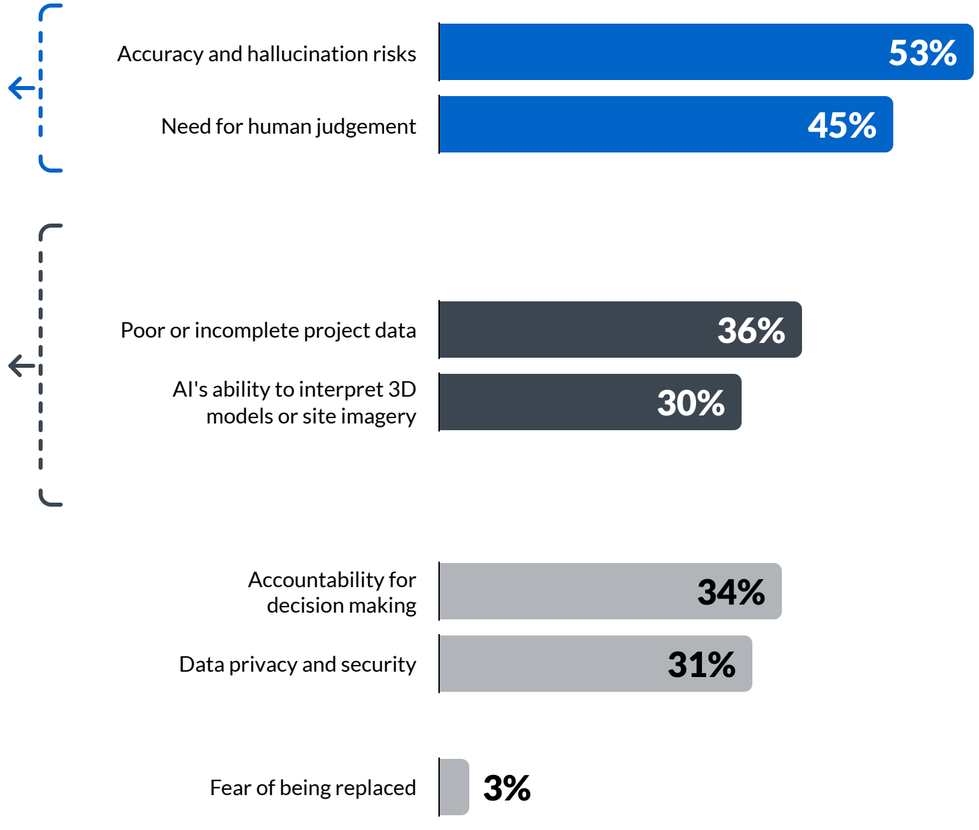
Respondents named poor or incomplete project data, AI's ability to interpret 3D models or site imagery, or both, a sign that AI is not yet trusted to understand what is really happening on site.

> "The interface between digital systems and the construction site: AI does not know what is happening on site, or only has a superficial understanding from photos and reports."
>
> **Survey respondent, architecture firm, Germany**

Accountability for decision making is the fourth most common reason for low confidence in AI, a reminder that in construction, whoever makes the call also carries the liability. Data privacy and security is the fifth, suggesting that **teams need to know their project data is protected before they hand work to AI**.

Fear of job loss is low. Only around one in thirty respondents are concerned about being replaced, the least cited reason of all, in sharp contrast with the headlines about AI taking people's jobs.

Reasons for low confidence in AI:



Seven of the 18 reasons are shown. The 11 not shown range from 5% to 27%. Respondents could select more than one reason.

What holds back confidence in AI, by market

The reasons respondents give for low confidence help explain why confidence in AI differs from one market to another. **Italy**, where confidence falls furthest once AI advises or decides, is the only market well above the global figure on both trust in AI's output and AI not knowing the site. By contrast, respondents in the **GCC**, the most confident market, name fewer reasons for low confidence than in any other market. In **Austria**, accountability for decision making is cited more than in any other market. **Switzerland** is the only market where data privacy and security stands well above the global figure.

Reasons for low confidence in AI by market*

Share of respondents naming each reason for low confidence in AI:

More than 5 points above global | Within 5 points of global | More than 5 points below global

Market	Trust in AI's output	AI not knowing the site	Accountability for decision making	Data privacy and security
Austria	76%	57%	41%	33%
Central and Eastern Europe	72%	45%	23%	33%
GCC	59%	38%	18%	29%
Germany	70%	55%	37%	31%
Italy	77%	59%	34%	23%
North America	68%	43%	23%	32%
South-Eastern Europe	65%	51%	24%	33%
Spain	68%	42%	37%	22%
Switzerland	68%	57%	36%	39%
UK	59%	47%	29%	27%
	Global 70%	Global 53%	Global 34%	Global 31%

Respondents could select more than one reason. Trust in AI's output and AI not knowing the site each combine two reasons, counting respondents who named either or both.
**Data is presented for markets where 25 or more respondents answered. Markets with fewer respondents are included in the global figure but not reported separately.*

Teams want AI to take the repetitive work first

78% expect efficiency gains

The top two gains show that respondents want **AI to take on the routine, time-consuming work and free up time for everything else**. They named reducing repetitive tasks, streamlining processes, or both, which fits the tasks they are most confident handing to AI, such as inspection reports and compiling the paper trail. The industry has both the confidence and the wish for AI to take on this work first.

> "If simple but time-consuming tasks, such as analysing project documents, can be carried out more easily and independently, that naturally leaves more time for other tasks. An advantage when skilled workers are in short supply."
>
> Survey respondent, property developer/owner firm, Germany

54% expect better quality

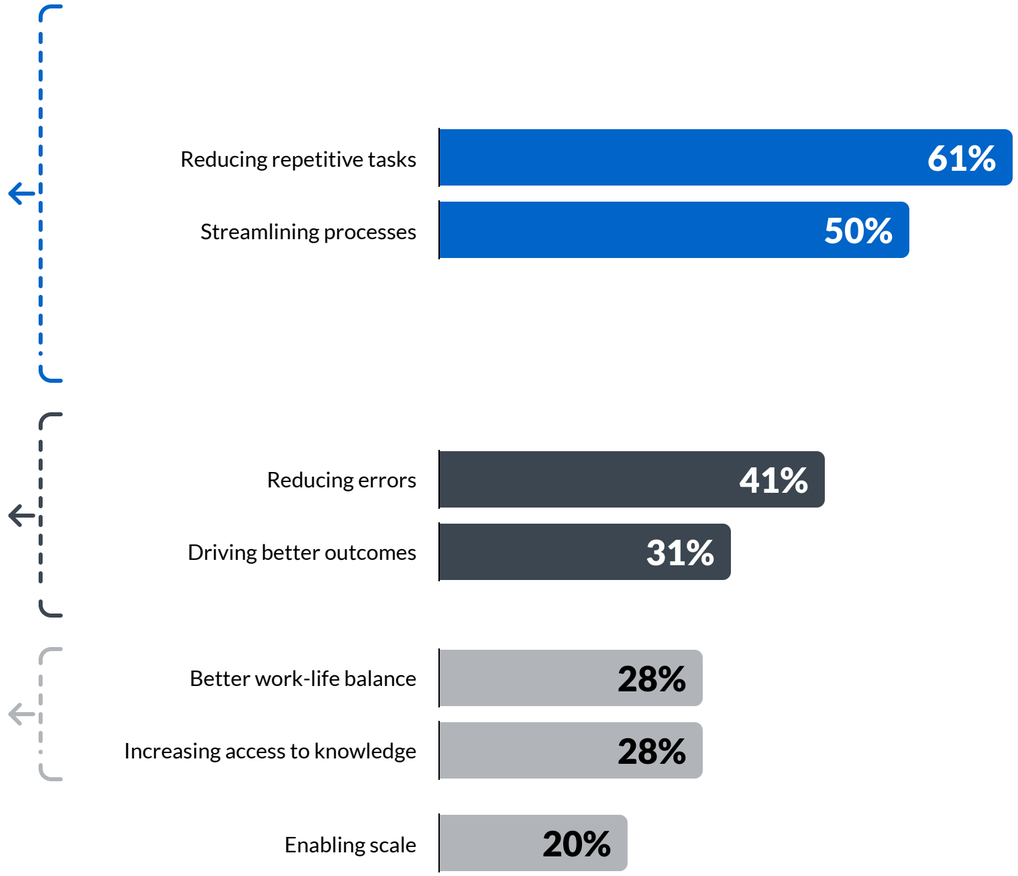
The next two gains point to an ambition for AI to raise the standard of the work, not just its speed. They named reducing errors, driving better outcomes, or both. Yet accuracy is also the most cited reason for low confidence in AI, so **it has to prove itself before teams will rely on it to reduce errors**.

47% expect gains for people

Respondents then named a better work-life balance, better access to knowledge, or both, a sign that they see AI as **support for their role, not a threat.**

Enabling scale is the least chosen gain, suggesting teams see AI as a way to relieve the workload rather than to grow the business.

What teams would gain most from AI:



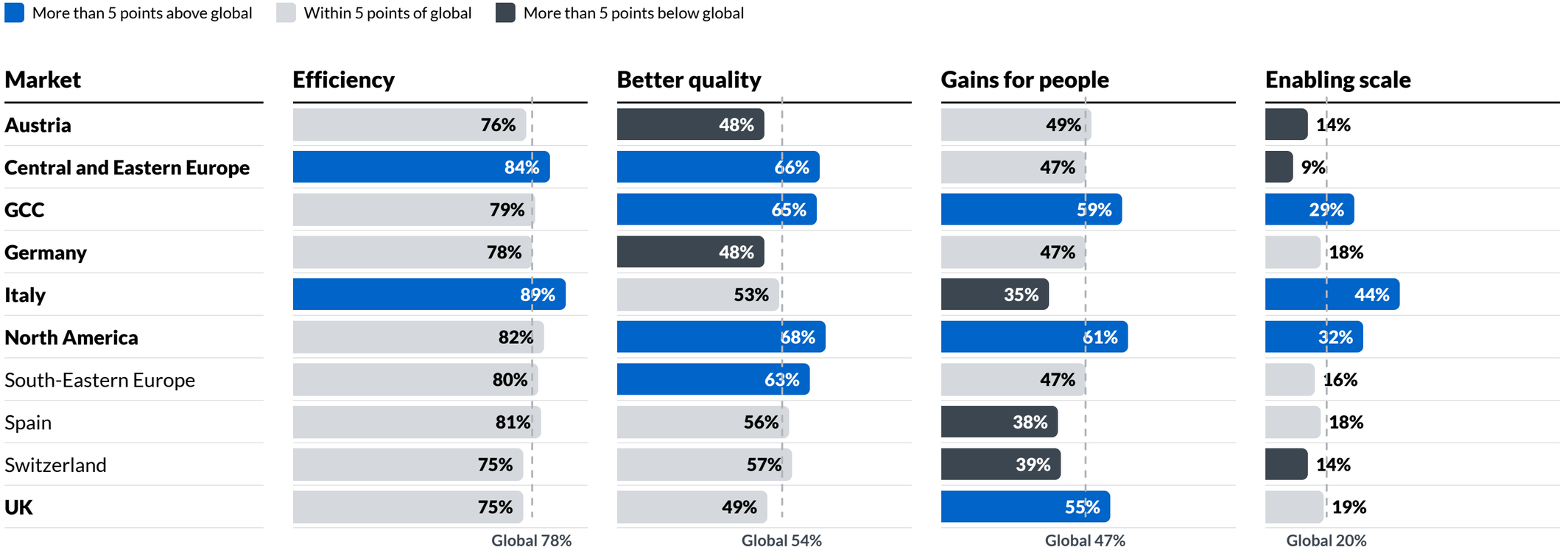
Respondents could select more than one gain.

What teams would gain most from AI, by market

Efficiency is the gain respondents expect most in every market* surveyed, but markets differ on what comes next. **North America** and the **GCC** expect the broadest range of gains, and are above the global figure on better quality, gains for people and enabling scale. **Germany** and **Austria** expect better quality from AI less than any other market. In the **UK**, gains for people stand out, driven by a better work-life balance. Enabling scale, the least chosen gain overall, is cited more in **Italy** than anywhere else. In **Central and Eastern Europe** it is rarely cited.

Expected gains from AI by market

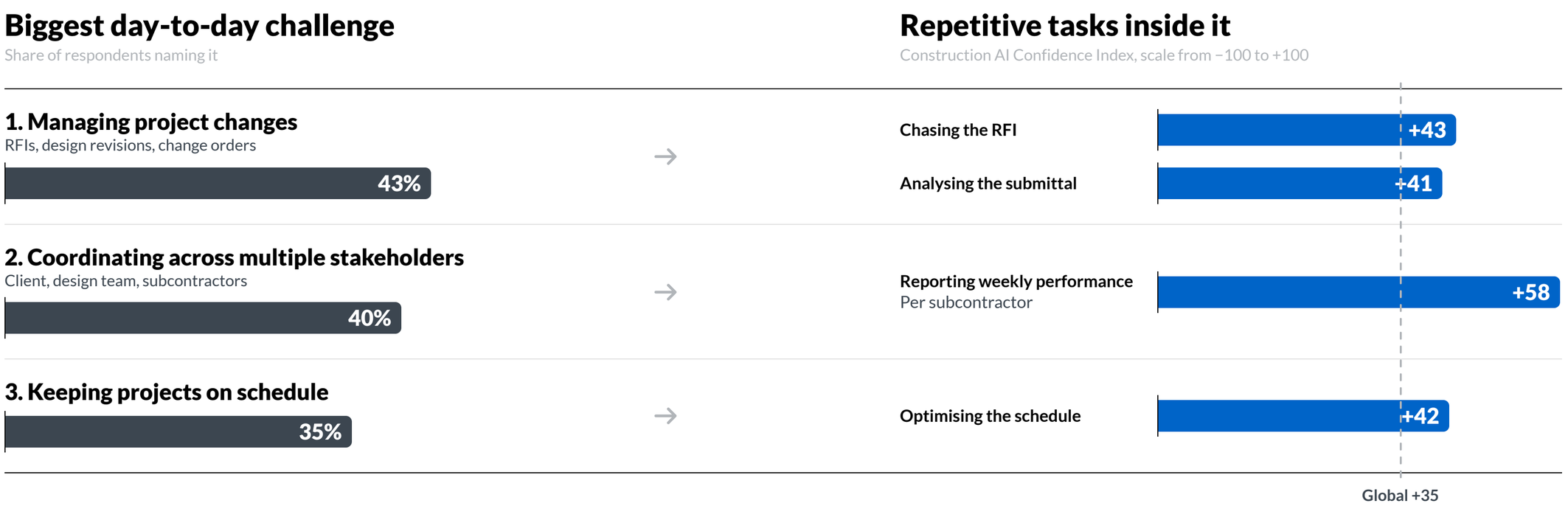
Share of respondents naming each gain they would most want from AI:



Respondents could select more than one gain. Efficiency, better quality and gains for people each combine two options, counting respondents who named either or both.
**Data is presented for markets where 25 or more respondents answered. Markets with fewer respondents are included in the global figure but not reported separately.*

AI is already trusted with tasks inside the biggest day-to-day challenges

Efficiency is the gain respondents expect most from AI, and belief that it can deliver is growing. **65% now believe AI could reduce or streamline the workload of their biggest day-to-day challenges**, up from 58% nine months ago*. Those challenges are managing project changes, coordinating across multiple stakeholders and keeping projects on schedule, and each includes repetitive tasks respondents already trust AI with, such as chasing an overdue RFI, checking a submittal against the spec, reporting weekly performance per subcontractor and optimising the schedule. Every one of these tasks scores above the Construction AI Confidence Index, suggesting respondents are already confident in AI where the pressure on a project is greatest.



Respondents could select up to three challenges.
**Nine months ago refers to PlanRadar's previous survey of 1,728 construction professionals, conducted in January 2026.*

PlanRadar’s AI works on the project as it happens

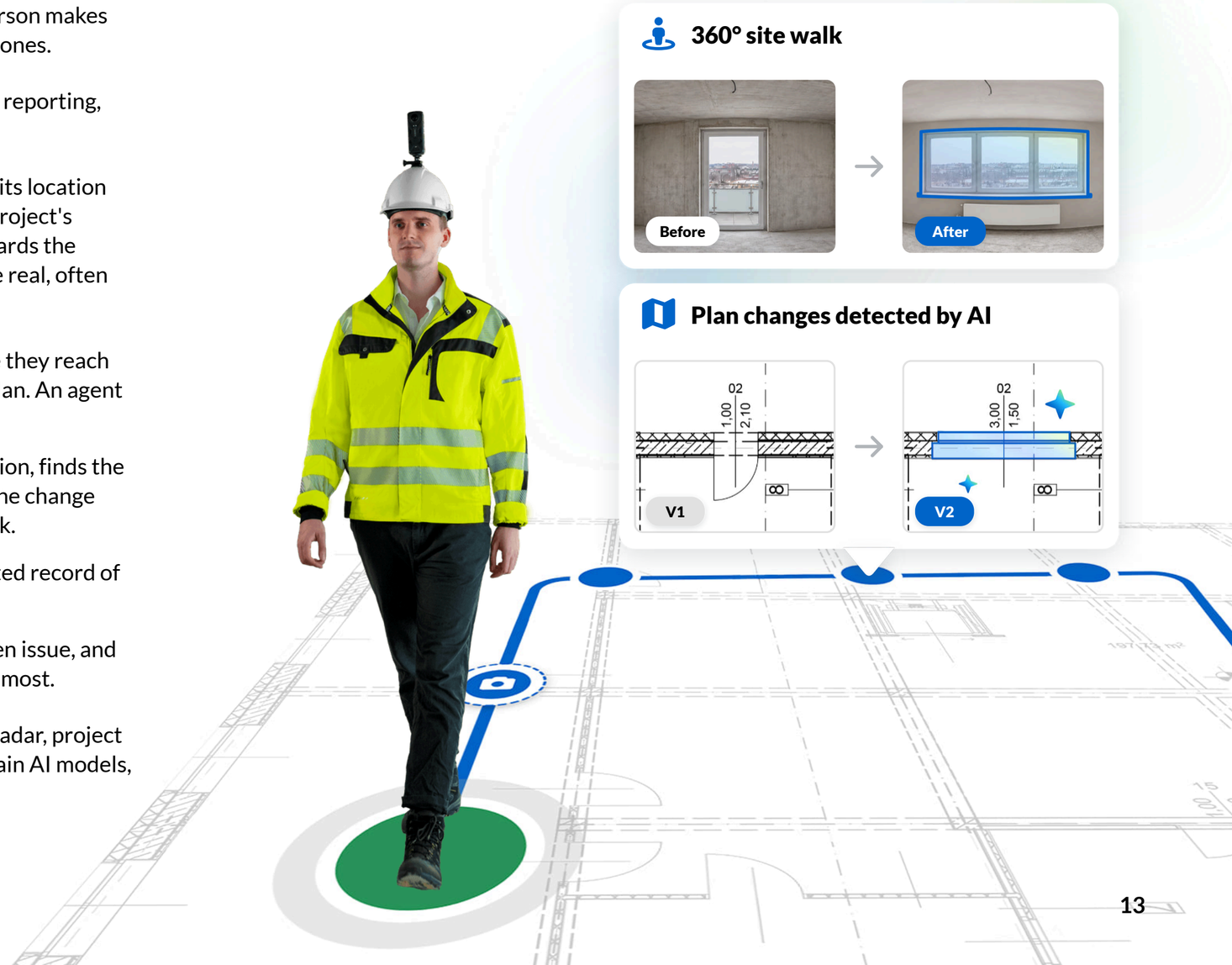
Respondents are most confident in AI preparing information and advising while a person makes the final decision. The tasks they are most confident handing to AI are the repetitive ones.

PlanRadar is an AI-powered platform for digital documentation, communication and reporting, built to streamline day-to-day operations.

PlanRadar's AI works from the project itself, where every task and issue is pinned to its location on the plan with its photos, voice notes, comments and history. It also draws on the project's documents and 360° captures, the company's own standards and the industry standards the project follows. Together, this context and these connections let AI work through the real, often messy detail of a live project.

- **A finding spoken aloud on site.** The team describes what they see, and by the time they reach the next room, AI has created the task for the fix, assigned it and pinned it to the plan. An agent follows up until it’s done, and the work only needs to be checked and signed off.
- **A new plan version arrives.** AI identifies what has changed from the previous version, finds the tasks and open work already pinned to that part of the plan, and an agent checks the change against the project requirements, flagging any deviation before it turns into rework.
- **A 360° site walk.** AI maps every frame to the drawing, so the walk becomes a located record of progress in the time it takes to walk it.
- **The weekly meeting.** Project Summaries turn live data into the status of every open issue, and AI flags the decisions coming up, so the team spends the meeting on what matters most.

Data privacy and security is one of respondents’ top five concerns about AI. In PlanRadar, project data stays within PlanRadar's ISO 27001-certified infrastructure, is never used to train AI models, and is handled in line with GDPR.



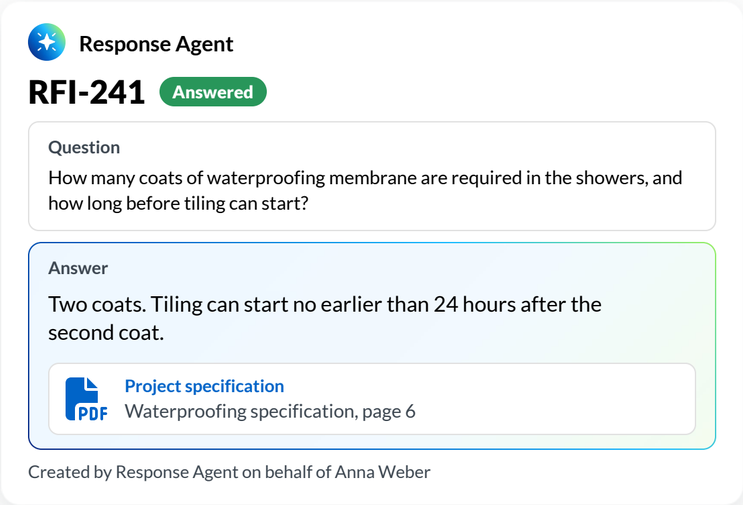
AI Agents act while the team decides

Respondents are least confident in AI where it decides. Asked what holds their confidence back, they name accuracy and hallucination risks, the need for human judgement and accountability for decision making.

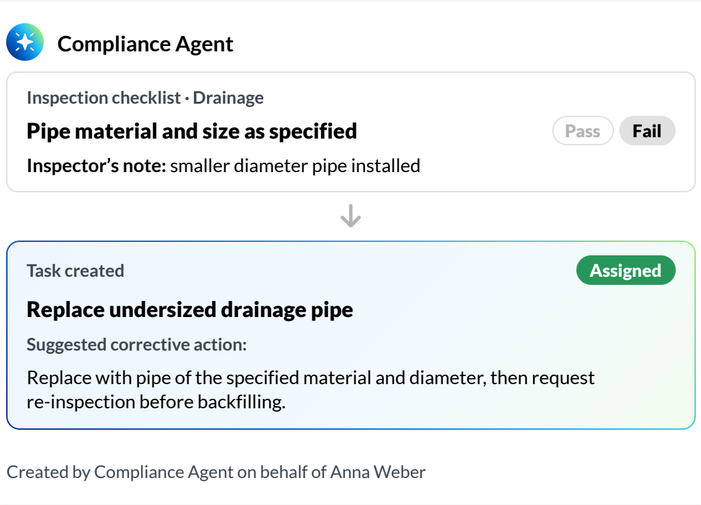
PlanRadar AI Agents address these concerns. Agents take on the follow-up while the decisions stay with the team. Each agent works only from the team's project data and the company and industry standards it has been given, and stays within the permissions of the person who set it up. It never overwrites or deletes data, and it leaves a clear record of every action it takes.

Ready-made agents take on the repetitive work the moment something happens on the project

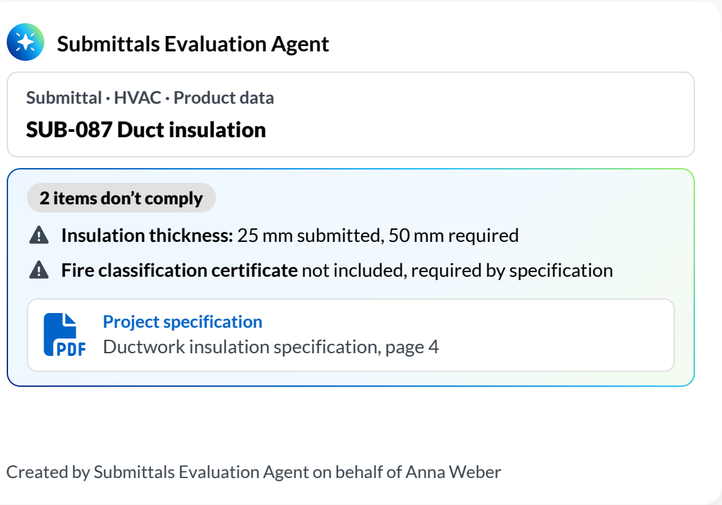
Response Agent. Drafts a first reply to an incoming RFI from the project's documents, with the source named, in minutes rather than hours.



Compliance Agent. Creates the task for the fix when an inspection checklist item fails, with a suggested corrective action.



Submittals Evaluation Agent. Checks submittals against the specification, highlighting the compliance gaps that need attention.



Document systems keep the project's records, and PlanRadar puts them to work on the construction site. Documents in any common data environment can be accessed and referenced by PlanRadar. Teams keep the document platform they already use, and PlanRadar brings site intelligence to every document in it.

The confidence in AI is already there. For teams ready to start, PlanRadar's Forward Deployed Engineers work alongside them to find and build the agents that will make the biggest difference to their projects.

The Construction AI Confidence Index by task

This table ranks 18 everyday construction project tasks by how confident respondents would be in AI performing them. Each score is the share of respondents confident in AI performing the task minus the share unconfident, on a scale from −100 to +100, so any score above zero means more respondents are confident than unconfident.

Process	Task	Description	Index	Group
Progress Tracking	**Reporting weekly performance**	Producing a weekly performance report per subcontractor covering average closure time, rework rate, and open ticket count.	**+58**	**AI prepares**
Inspections	**Generating reports**	Generating an inspection report from site inspection data, flagging failed checks or defects.	**+55**	**AI prepares**
Legal & Commercial Disputes	**Compiling the paper trail**	Pulling together the correspondence, site diaries, and instructions related to a delay into a single chronological record.	**+54**	**AI prepares**
Quality	**Verifying document accuracy**	Verifying whether appropriate QC forms are used for a specific type of inspection.	**+49**	**AI advises**
RFIs & Submittals	**Chasing the RFI**	Chasing an overdue RFI, sending reminders, and passing the answer back to the requestor.	**+43**	**Outside the groups***
Project Scheduling	**Optimising the schedule**	Optimising the project schedule based on the executed work, weighing dependencies, resource constraints, and knock-on effects.	**+42**	**AI advises**
RFIs & Submittals	**Analysing the submittal**	Checking a submittal against the spec and flagging missing information.	**+41**	**AI advises**

**Chasing the RFI (+43) sits outside the three groups. AI sends reminders and passes the answer back to the requestor, so it acts, but it does not compile information, give an assessment or make a decision.*

Process	Task	Description	Index	Group
Legal & Commercial Disputes	**Building the case**	Working out what caused the delay and what it should cost, then writing up the argument that defends your position in the dispute.	**+41**	**AI advises**
Estimating	**Verifying the count**	Calculating if the quantity of counted items (doors, windows, etc.) is accurate compared to the plan or BIM model.	**+40**	**AI advises**
Progress Tracking	**Validating build completion**	Validating if part of the build has been completed by comparing 360° site images to 3D models.	**+32**	**AI advises**
Estimating	**Calculating the estimate**	Sourcing and estimating the final cost of counted items, calculating the price estimate for the investor.	**+31**	**AI advises**
Technical Problem-Solving	**Recommending technical solutions**	Finding and recommending best practices to solve a technical construction issue, such as excessive moisture in a building.	**+30**	**AI advises**
Regulatory & Safety	**Judging permit changes**	Judging if a project change within the construction phase requires a permit change.	**+28**	**AI decides**
Project Scheduling	**Assigning tasks automatically**	Assigning tasks to crews and subcontractors automatically.	**+27**	**AI decides**
Regulatory & Safety	**Reporting a safety incident**	Deciding whether a safety incident requires reporting to the regulator based on the regulatory threshold, and filing the report.	**+19**	**AI decides**
Inspections	**Signing off a defect fix**	Comparing pre- and post-fix imagery to sign off if a defect has been fixed correctly.	**+17**	**AI decides**
RFIs & Submittals	**Answering the RFI**	Creating the RFI answer, cross-referencing drawings, specifications and prior RFIs.	**+17**	**AI decides**
Quality	**Clearing the next phase**	Verifying if the output of a QC inspection means you can proceed with the next construction phase.	**+14**	**AI decides**

PlanRadar

PlanRadar is a leading platform for 360° digital documentation, communication and reporting in construction, facility management and real estate projects, powered by AI. With over 200,000 users in more than 75 countries, PlanRadar enables customers to work more efficiently, enhance quality and achieve full project transparency.



PlanRadar was a game changer for my quality control. I can bring all teams onto one dashboard and stay updated on everything happening on site — with visuals, documentation, and even Excel summaries.

Shapoorji Pallonji

SIEMENS

Shapoorji Pallonji

Colliers

tabreed

AMANA.
WE BUILD WITH YOU

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