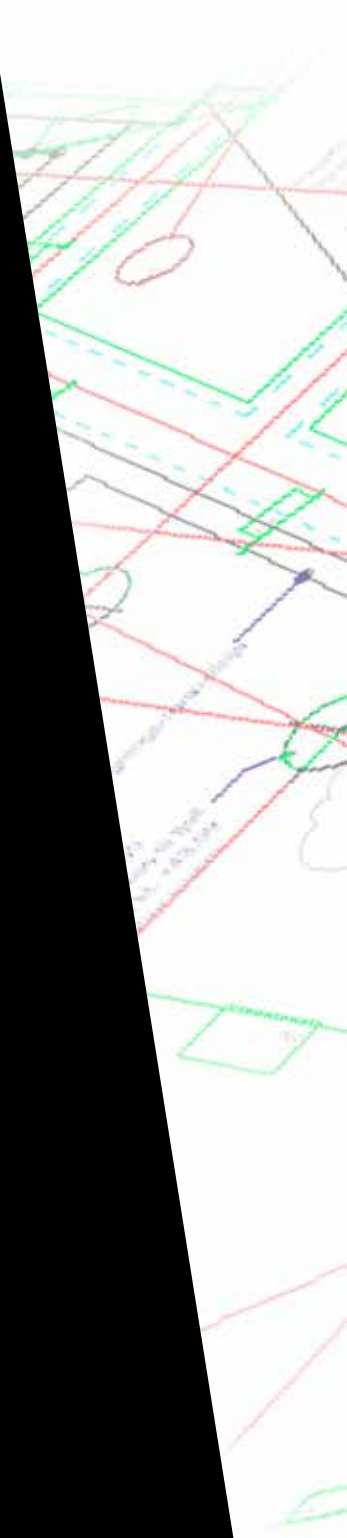
Makin' a Difference



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Panasonic
TOUGHBOOK
N: 6673769.85
E: 639812.52
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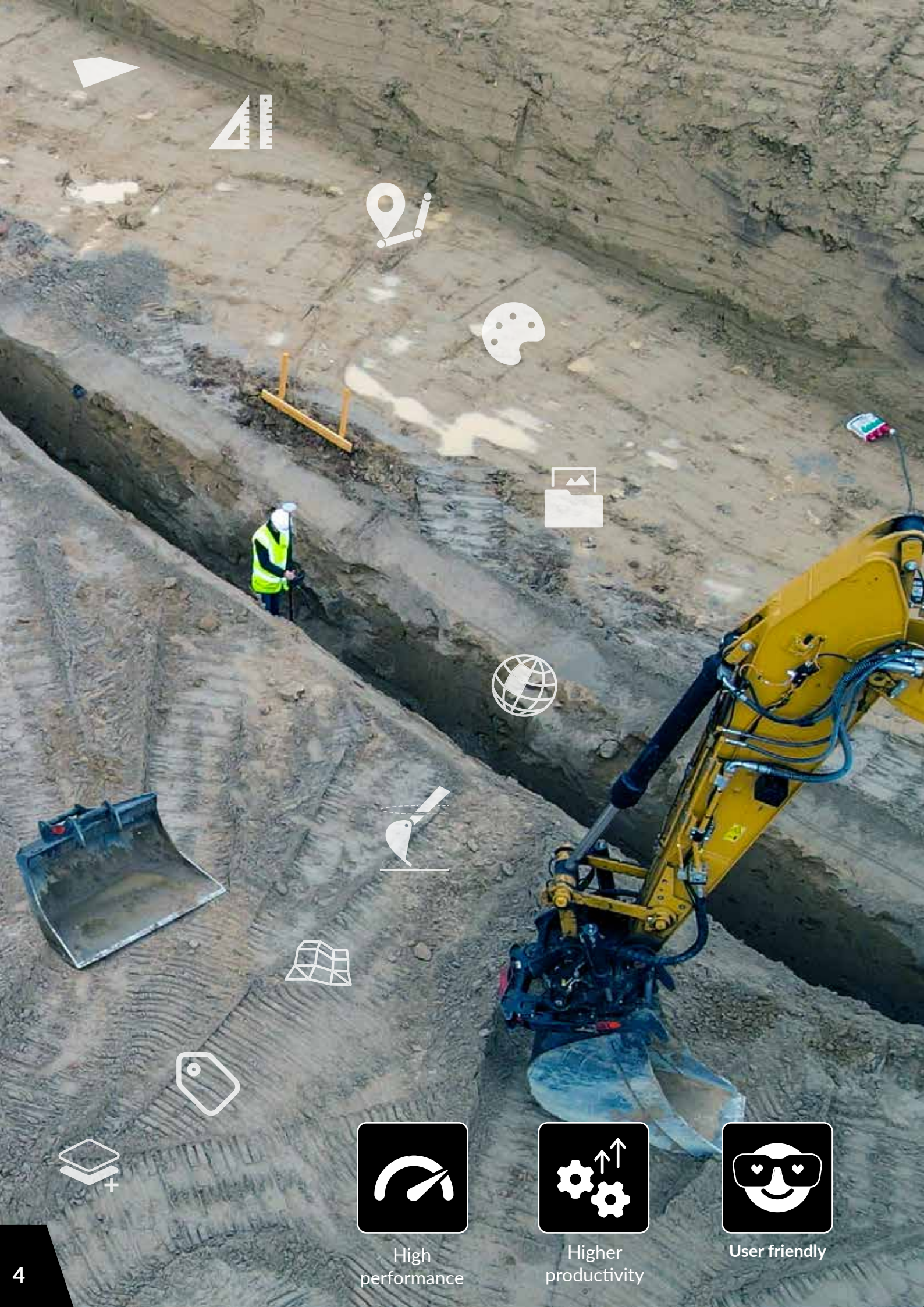
3D



High performance

Higher productivity

User friendly

Why Makin?

Efficiency and productivity at a glance

The Makin' solutions support a wide range of construction machines used in civil and infrastructure projects, where efficiency, precision, and documentation compliance matter most. And Makin is more than machine control. With Makin' Survey and Makin' PerFormans, Makin delivers workflow tools that help the construction industry manage projects digitally. All solutions are built on the same software platform and with Makin' Cloud integration for a comprehensive site control solution.

Makin is a flexible and modular software based on a solid IT architecture. It prioritizes user-focused development, minimizing time-to-market and aiming for high performance on both software and hardware.

Makin prioritizes workflows, features, and tools to enhance customers' daily operations. With auto calibration, remote support, real-time monitoring, and detailed logging, it minimizes errors, maximizes uptime, and drives productivity to new heights.

Makin supports industry-standard design file formats with optimized software and hardware capable of handling both small and large models effortlessly. It delivers a seamless experience, offering both a minimalist and comprehensive project overview—without requiring any file modifications. The system is fast, responsive, and highly reliable.

Makin prioritizes user experience with an intuitive interface, easy-to-recognize icons, and customizable features. The interface adapts to user needs, allowing complexity to scale up or down as required. The goal is to deliver a system that offers in-depth functionality for advanced users while remaining accessible for beginners.

The Evolution of Data

used in the construction industry

[30 years ago]

Guided by data

Using data as a tool

[5 years ago]

Collecting data

Accuracy and automation

Today

Data in action

Machine control has undergone significant advancements over the years, from simple guidance systems to the inclusion of GNSS, sensor technology, and telematic integrations for enhanced accuracy and efficiency in excavating operations.

Overall, the evolution of machine control has moved towards greater automation, precision, and integration with digital technologies, making heavy construction operations more efficient, accurate, and productive.

Today, advanced machine control systems generate Big Data for enhanced documentation, analysis, and site optimization.

Entry-level system

All standard machines

Niche applications

Makin' Tool Guidance

Entry-level guidance

BENEFITS:

+ Entry-level guidance system
+ All standard machines
+ Niche applications

= **Costs savings and increased productivity**

A versatile solution that provides easy-to-use GNSS guidance.

Makin' Tool Guidance

Our system is compatible with various construction machines, including but not limited to: Box Blade, scraper, skid steer, and niche applications. It caters to a diverse range of equipment, ensuring universal applicability across different job sites.

Makin' 2D Excavator

Intuitive interface for machine operators

BENEFITS:

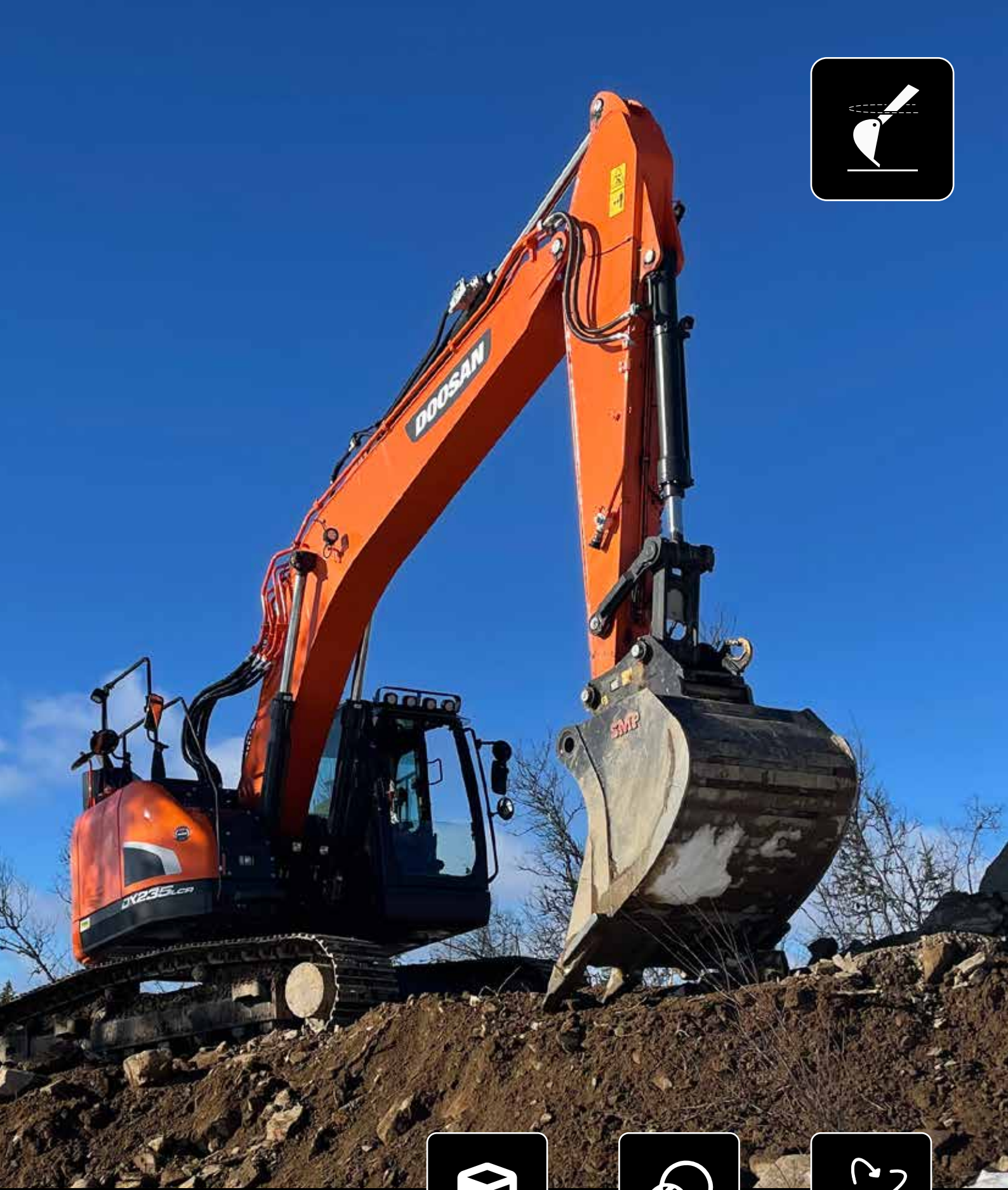
Better overview
\+ Higher efficiency
\+ Less rework
\+ Better communication

= **Time and costs savings**

Gain efficiency and maximize output of your excavator with the highly flexible, fully upgradeable:

Makin' 2D Excavator system

Benefit from an intuitive unique visualization of your construction project that provides you with a seamless workflow and high efficiency.



3D consistent Makin' user interface

Fast visualization of cut/fill values

Tilt, rotation and multi boom support

Icons for all menus

Integration platforms

Full cloud integration

Makin' 3D Excavator

Full 3D visualization - guidance of your project

BENEFITS:

Better overview

\+ Higher efficiency

\+ Less rework

\+ Better communication

= **Time and costs savings**

Gain efficiency and maximize output of your excavator with:

Makin' 3D Excavator system

Benefit from an intuitive unique visualization of your construction project that provides you with a seamless workflow and high efficiency.

Makin' 3D Wheel Loader

Higher versatility and accuracy

BENEFITS:

+ Fine grade in reverse
+ Higher accuracy
+ Prevent over- and under-cutting

= **More use of your wheel loader**

Our wheel loader solution incorporates innovative features designed to support and improve your workflow.

Use the new functions: **Switch tool point**, **adjust blade wear** on both the front and back blades to obtain higher accuracy, and the new **attack angle** to prevent over or under cutting.

Fine grade
in reverse

High
accuracy

Prevent over and
under cutting

Full cloud integration

Compaction on the fly

3D consistent Makin' user interface

Makin' Compactor

Designed for faster, safer, and fully documented compaction

BENEFITS:

+ Full cloud integration
+ Compaction on the fly
+ Consistent with Makin' 3D

= **Full compaction documentation**

Makin' Compactor

Makin's compactor solution is built on Makin's proven software ecosystem, delivering seamless integration, exceptional ease of use, and unmatched versatility.

Makin' Survey

Intuitive surveying - full project visualization

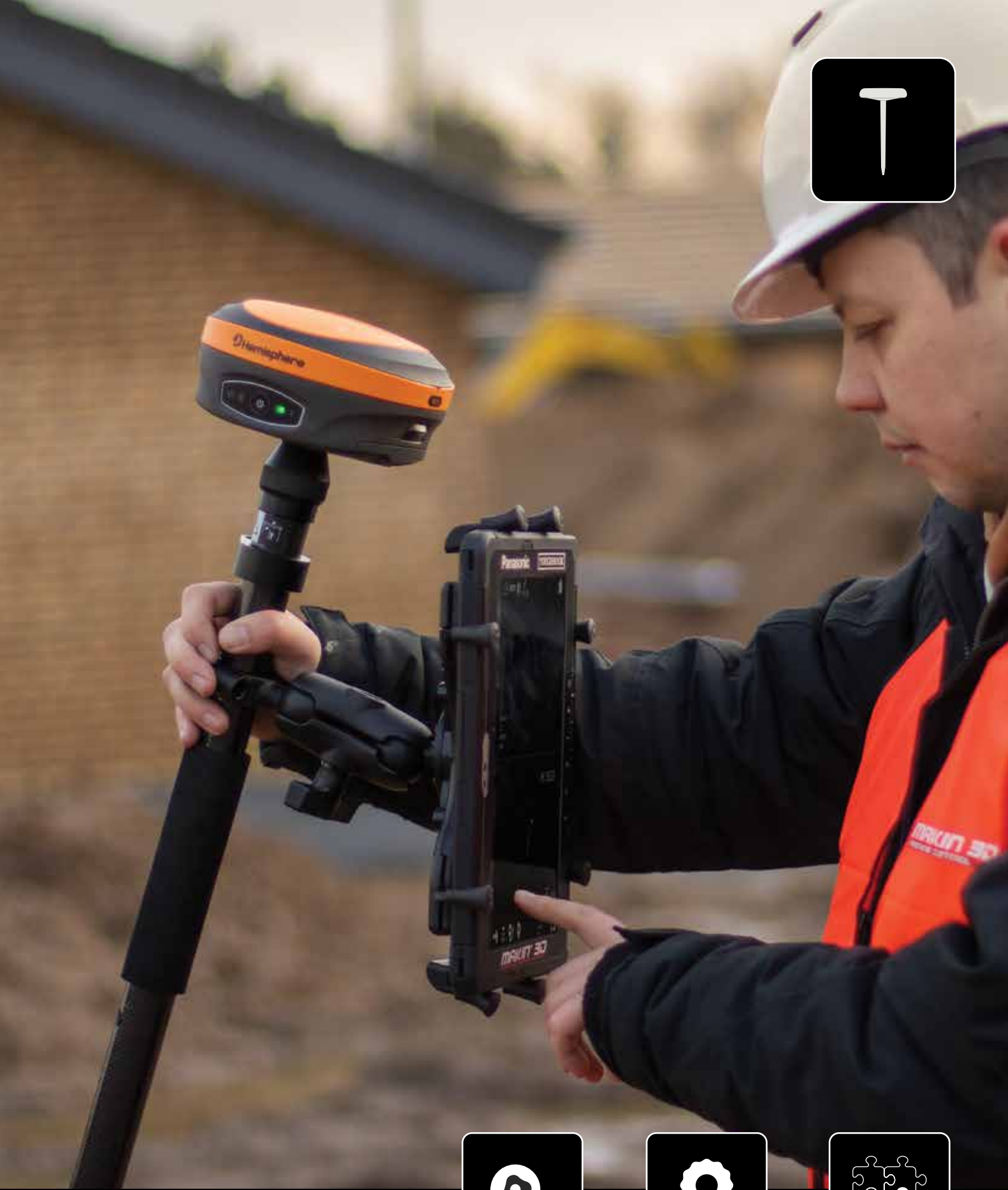
BENEFITS:

+ Better overview
+ Faster design updates
+ Instant documentation
+ Fewer misunderstandings
+ Better communication

= **Time and costs savings**

Makin' Survey is Makin's rover solution for surveying tasks such as stake-out of points or lines, modification or extension of design data or documentation of the work.

With Makin' Survey, the surveyor can collaborate with the machine operator and the site personnel. Tilt compensation is available as an option.



Easy usage

Top-notch rover

Integration platforms

Bluetooth connectivity

Decimeter accuracy for quality control

RTK GNSS with NTRIP

Makin' PerFormans

Makin' informed decisions faster - tracking construction projects

BENEFITS:

Access to up-to-date data creates:

+ Better communication
+ Less rework
+ Better decision-making
+ Fewer misunderstandings

= **Time and costs savings**

Increase quality control, performance, and gain efficiency in your construction activities with the fully worflow-integrated:

Makin' Performans solution

Benefit from an intuitive and unique visualization of your construction project, and maximize the uptime and productivity for your machines and operators.

Makin' Cloud

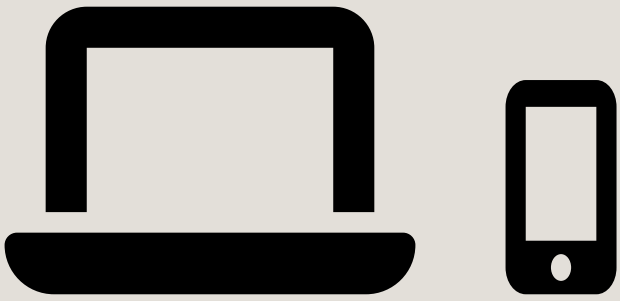
Fully digital workflows

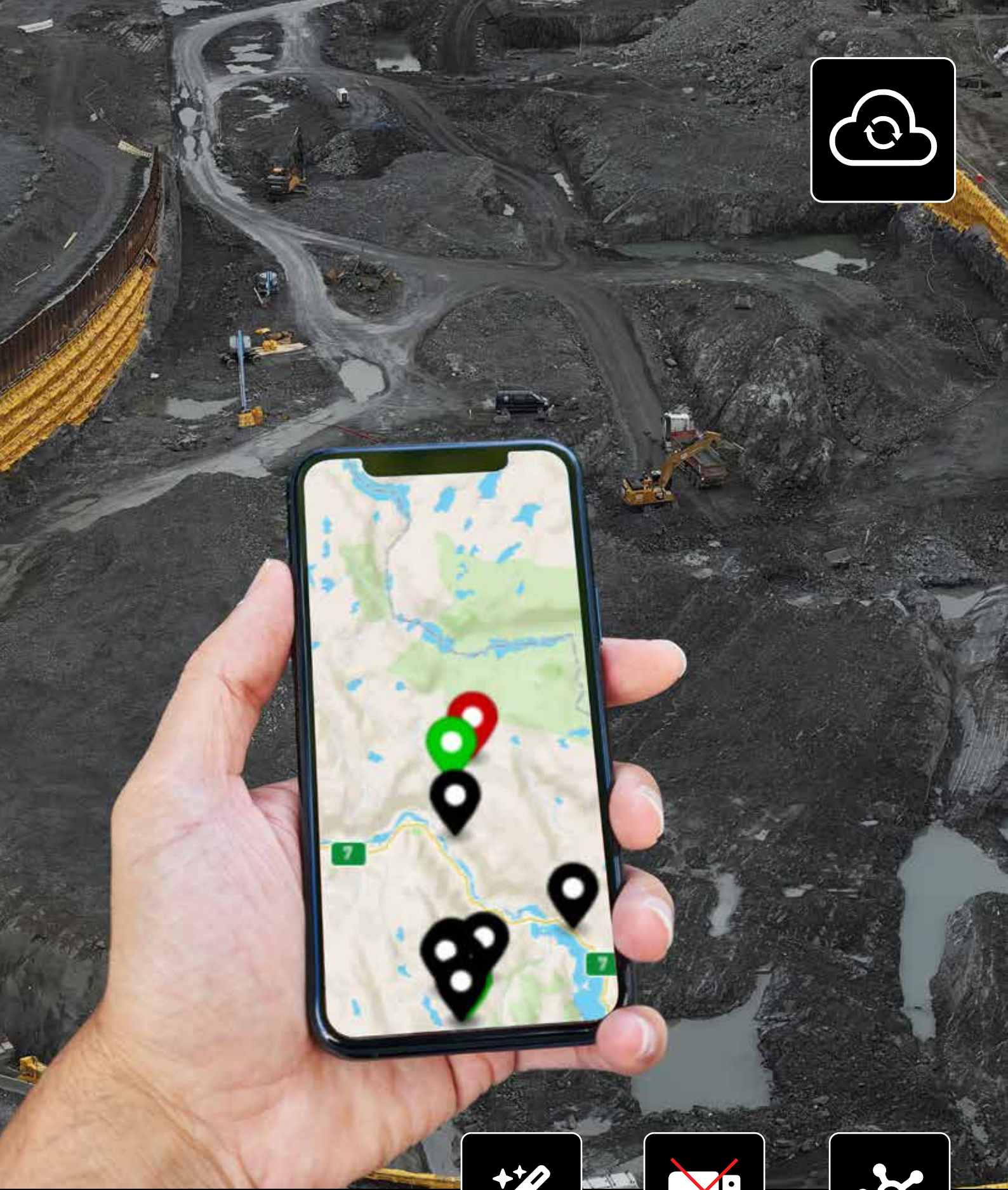
Makin' 3D is a fully cloud-based system, eliminating the need for manual synchronization or physical USB updates. Enjoy seamless, real-time access to the latest data and improved collaboration—anytime, anywhere.

Software updates are automatically delivered to all Makin units on the customer's project, ensuring they stay up to date. Design files stored in the cloud are instantly accessible to all connected assets, streamlining workflows and enhancing efficiency.

Logged as-built data are effortlessly shared across Makin' units and can be accessed in real-time via Makin' Cloud by key project stakeholders. Filter and export detailed as-built information, according to your needs. This provides a clear, real-time project overview, simplifies progress tracking, and eliminates the risk of duplicate measurements, ensuring precise results. It also clearly identifies areas where additional measurements are required, boosting overall efficiency.

All operators and users of a Makin' unit can easily communicate through Makin' Cloud, using the chat function, or provide internal support and collaborate with users via remote control. All interactions and information are securely stored.

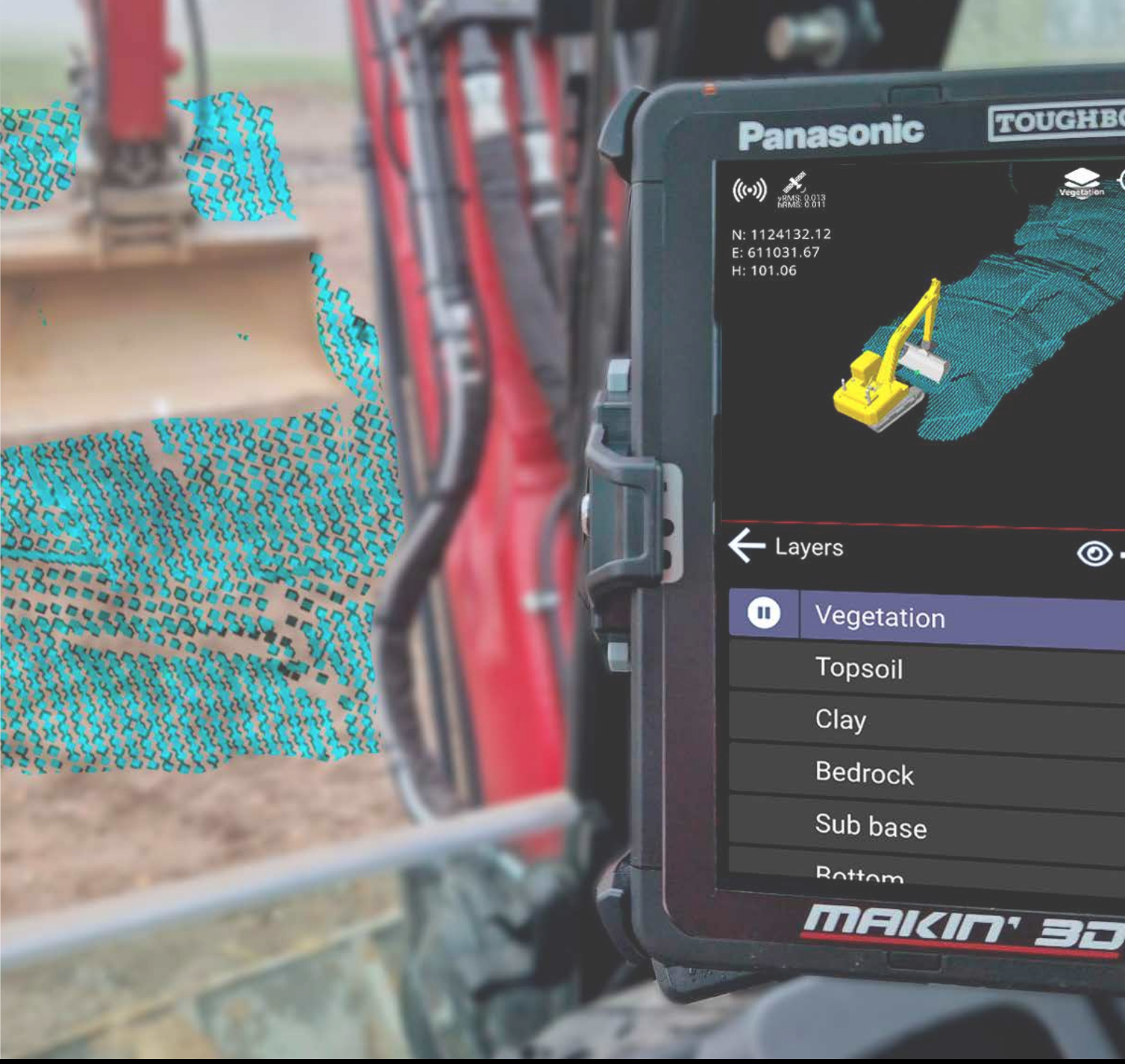




Auto-update of software on all Makin units

No extra gear or servers needed

Projects update visible to all connections in real time



Dense point cloud

Measurement from lowest point

Automatic surface log & documentation

Makin' Surfaces

Efficiency and productivity at a glance

Makin' Surfaces enhances operator overview and efficiency by automatic as-built surface documentation and graphical visualization of project progress and completion status.

The operator is continuously guided by a color-coded plot showing the bottom of the cut relative to the reference surface.

The documented as-built surfaces are available on Makin' Cloud for exporting and post processing.

Makin' Surfaces increases project productivity and reduces the operator workload through effortless, continuous documentation of all excavation progress.

BENEFITS:

Accuracy

\+ Better documentation

\+ Less rework

\+ Better saftety on site

\+ Dynamic project planning

\+ No weather dependency

= **Time and costs savings**

Makin' Uptime Packages

Unlock the power of Makin's Uptime Solutions

Makin understands the critical importance of uptime in the heavy construction industry. Makin' Uptime Packages are designed to provide unparalleled reliability, support, and peace of mind to our customers.

Why invest in the Makin' Uptime Packages?

Gain valuable insights into the total cost of ownership, facilitating informed decision-making and easing financing.

Our extended product coverage options eliminate the risk, providing added security and confidence for the total lifecycle of the system.

Packages must be purchased per system and within the manufacturer's warranty period.

Renew for one year or more according to your needs.

BENEFITS:

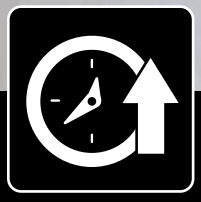
+ Peace of mind
+ Total costs of ownership insights
+ Risk reduction

= **Increased uptime of equipment**

MAKIN' UPTIME PACKAGES	CORE	PRO	ADVANCED
Manufacturer's warranty coverage for system function or malfuntioning parts for up to 24 months	+	+	+
Automatic software updates	+	+	+
Extended product coverage up to 5 years		+	+
Option for product coverage up to 8 years			+
Optional service contract		+	+
Replacement of parts		+	+
Comprehensive coverage including accidental failure			+

Peace of mind

Risk reduction



Maximize uptime

Makin' Synergy

Integration with the contractor's applied design and project tool providers enables seamless data sharing across all Makin units, further enhancing efficiency on large-scale projects with mixed machine control fleets.

When working on construction sites with machines equipped with machine control solutions from various manufacturers, integration with design offers real-time data sharing between all parties to ensure project success.

SKYMAP

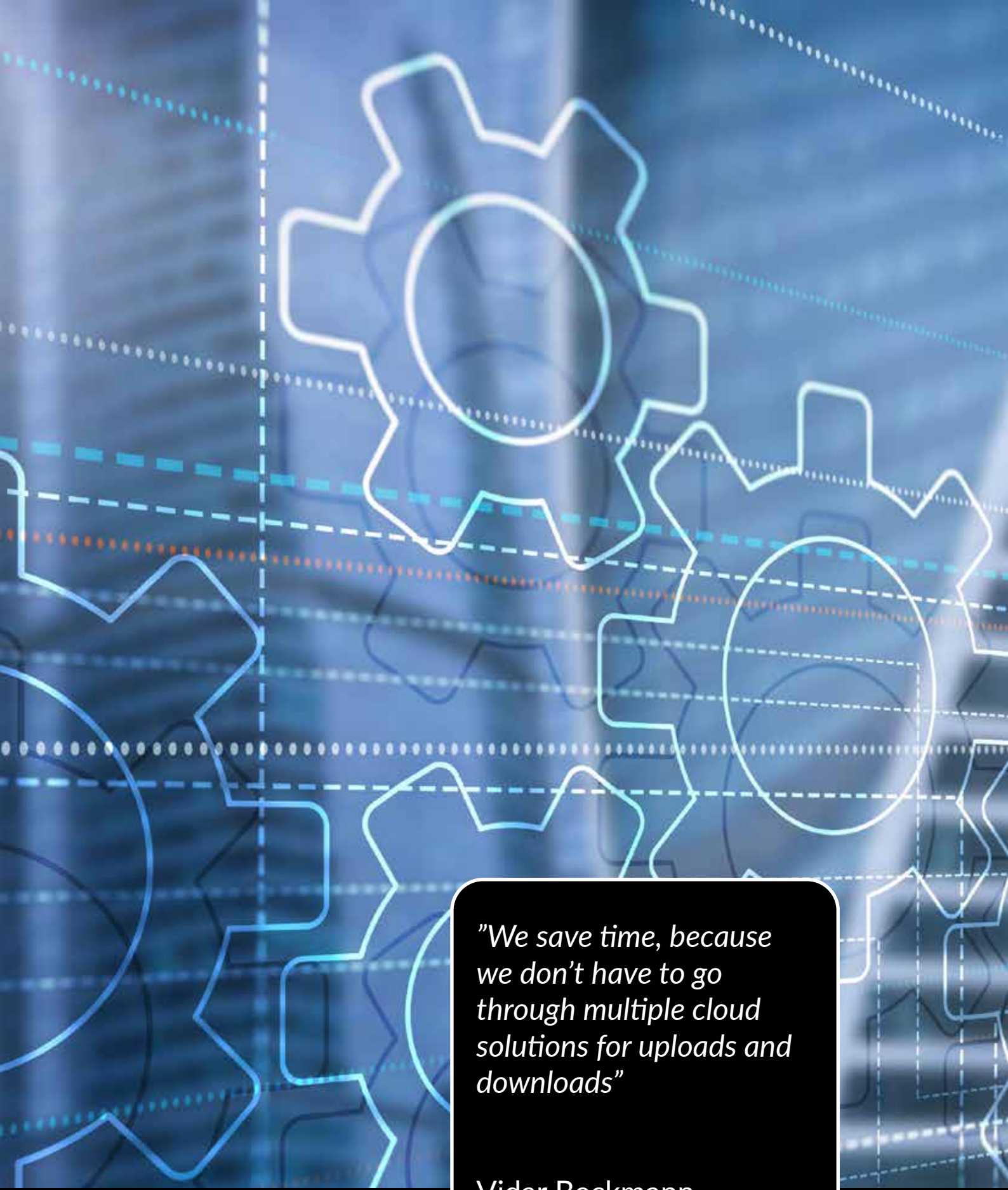
Makin' 3D is supported by Skymap
Integration between Makin's machine control ecosystem and Skymap's terrain modeling platform significantly benefits construction workflows. The integration improves data consistency, and efficiency, and enhances project control.

Makin' 3D is supported by Volue Gemini
Dataflow from Makin' 3D excavator and Makin' Survey can now be sent directly from Gemini Terrain, and as-built data from Makin' 3D can be received and handled directly.

You activate the functionality in Gemini Connected.

Infrakit

Makin' 3D is supported by Infrakit
Makin's integration with Infrakit offers mixed fleet management on a single platform to increase efficiency. Exchange design files from Infrakit and send as-built documentation and machine localisation to Infrakit automatically.



”We save time, because we don’t have to go through multiple cloud solutions for uploads and downloads”

Vidar Beckmann,
Isachsen Anlegg

>>>

Customer Story

Stefan Lindby replaced 18 machine control systems with Makin' 3D

Swedish Construction company "Väg och Byggnadsgrus på Gotland AB" is located on the Swedish island in the Baltic sea Gotland. The family-owned company was founded by grandfather Gösta and is now run by third generation. Business is doing well, and about seven months ago, they decided to make the biggest investment in the history of the company. They decided to buy no less than 18 Makin' 3D machine control systems, not only to increase productivity but also to improve the overall profitability of the company.

They had considered changing their machine control systems for a while. Their existing systems were starting to get outdated resulting in more and more repairs and costly downtime.

They had bought a machine that already had a Makin' system installed. They didn't know the system, and called the Swedish Makin' dealer, Maskin System's support, to get help to get started and soon realized that Makin' 3D is a more modern machine control system with easy project flows throughout the entire workflow. Stefan decided to compare the different suppliers on the market and was curious about the functions and advantages that were available.

- *We thoroughly evaluated the system that we needed, and we explored the functions that were available and how they could help us*, Stefan explains.

The decision was not easy. Many hours were used for discussions, tests and evaluations. They also knew that they needed a supplier that they could trust and count on for good cooperation in many years to come. The choice was finally made. They chose Maskin System and their system Makin' 3D.

- *The most positive thing is that all of our machine operators understand it but also that our office personnel have access to all the project information. Everything is updated in real time, everybody is informed, and the workflow is much more seamless.*

When it comes to hardware, explains Stefan, what is most remarkable is the extremely strong performance of the GNSS receiver. It works flawlessly even inside the forest, where others normally block. This has been a key factor, because all of our machines are running 3D with GNSS.

Delivering 18 machine control systems to a company on an island was a rock'n'roll experience

Gotland is an island, as we all know, and everybody within our industry understands that it can be quite a hassle to deliver and install an entire 18 systems.

But Maskin System managed to do just that in record time! Four technicians delivered 16 systems in four days, and the remaining two systems were delivered shortly after. Stefan describes it as an amazing rock'n'roll experience.

- It took some long working days and many visits to McDonald's Drive Thru, but it was quite a fun experience for both parties.

When we asked Stefan if he had reservations about choosing Makin' 3D, he paused for a while and then explained that there was some concern about making one of the company's biggest investments in a relatively new machine control system, and not knowing the exact second hand value.

- Makin' 3D is developed in Scandinavia and has been on the market for fewer years compared to other suppliers that are "worldwide", so it is easier to calculate.

But only time will tell, and Stefan is not concerned.

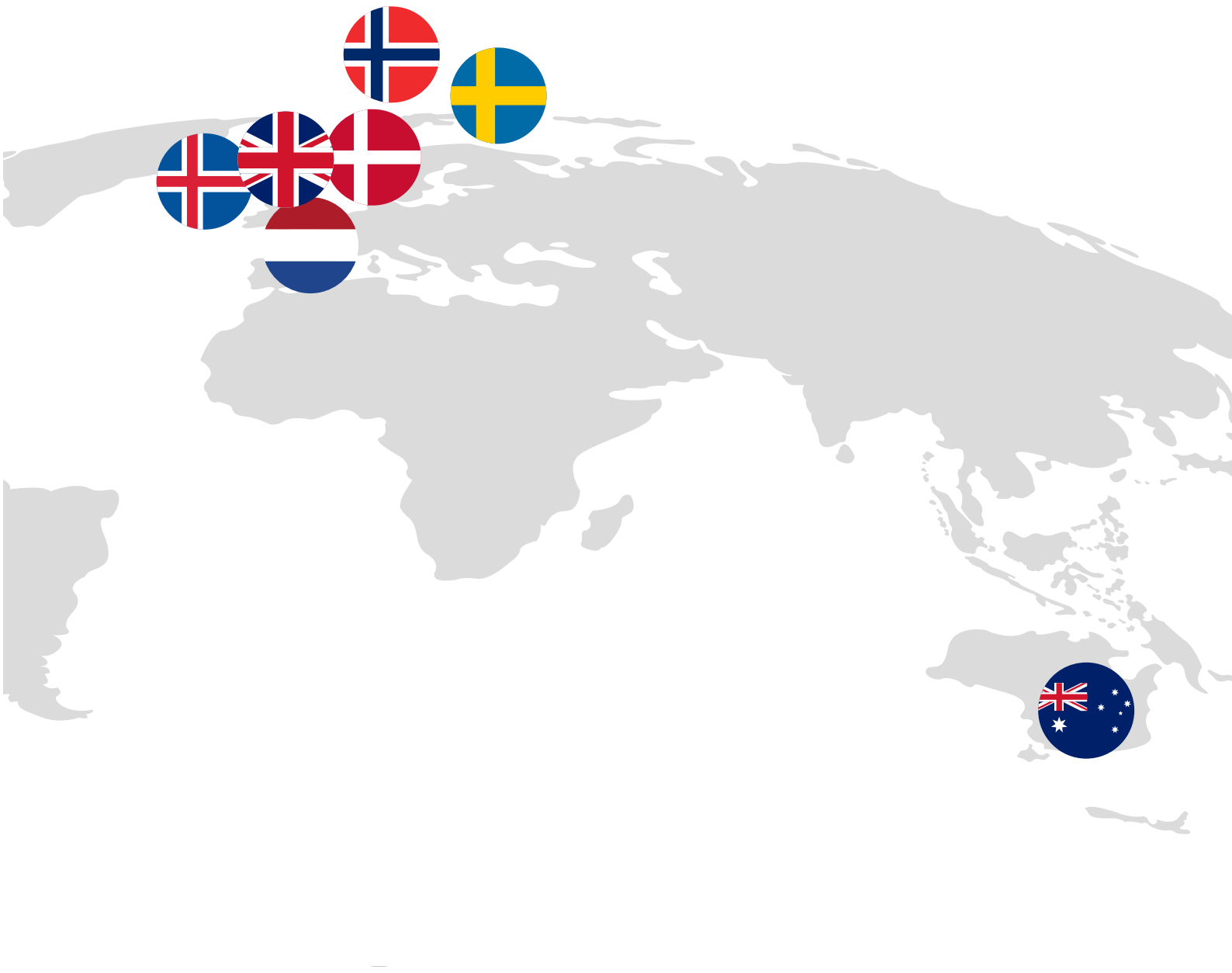
Makin' Surfaces will bring even more value to Makin' 3D

- We strongly believe in Makin, and we see them take a larger and larger market share and show strong growth rates. With the release of Makin' Surfaces, which is a solution that automatically calculates volumes, the future looks even brighter.

A large part of the project is about calculating volumes. Stefan explains that it will become increasingly important because surveyors spend about 10 to 12 hours per project measuring mass volumes. Automation of this function directly in the system can bring important savings, and the efficiency in the project can be increased.

- We are also helped by the fact that during the seven months that we have used Makin' 3D, we have only required service once for one cable and one sensor.

That has by far exceeded my expectations, **says Stefan.**



Where to find Makin

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Makin’
a Difference

- Filling the digital project needs in heavy construction

Makin’ social contact with you

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MAKIN

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