

## PRESS RELEASE

### **Enterprise Building Capture of a 60,000m<sup>2</sup> Hospital on an iPhone Pro — At a Fraction of the Cost and Time of Professional Scanning Hardware**

*Metaroom has digitized a 60,000m<sup>2</sup> hospital in Germany using iPhone Pro devices, delivering a fully structured, planning-ready parametric model. The technology that made it possible is now available as a public beta — without the cost and complexity of professional scanning hardware.*

Puch bei Hallein / Salzburg, June 4, 2026 — Amrax, the company behind Metaroom®, today announced what it believes to be the largest parametric building model ever captured using a smartphone. The Amrax R&D team scanned a 60,000m<sup>2</sup> hospital in Germany across multiple sessions — while the building remained fully operational — combining all captures into a single, structured 3D model delivered as a planning-ready model. It was commissioned in connection with a Siemens project and sets a new benchmark for what mobile scanning technology can achieve in the field of professional building digitization.

To mark this milestone, Amrax is making Metaroom's Enterprise Building Capture available as a public beta — the same technology built internally to complete the hospital project, now accessible to professionals working on large-scale buildings worldwide.

#### **From a Single Room to an Entire Building — Without the Hardware Costs**

Professional building digitization at this scale has traditionally required a significant hardware and services investment. Terrestrial LiDAR scanners from industry-standard providers cost between €20,000 and €100,000 per device — and the hardware is only part of the equation. Scan-to-BIM post-processing by specialist firms routinely costs several times more than the scanning itself. For a project the size of a large hospital, the total cost of professional scanning and modeling typically reaches around €500,000.

Metaroom changes this calculus directly. Teams can scan floor by floor using an iPhone Pro or iPad Pro — no specialist device, no additional investment — and combine those sessions into a single, unified parametric building model in the Metaroom Workspace. Crucially, the model is generated automatically and is available immediately upon completion of the scan — no weeks of manual modeling from a point cloud. The result is not a visual mesh or a photorealistic render: it is a structured model in which every wall, door, window, and opening is represented as an intelligent, measurable object with precise geometry. In the current beta, models can be exported as IFC or as a 2D floor plan (PDF), ready for use immediately in BIM, MEP, energy consulting, lighting design, and facility management workflows. Additional export formats — Metaroom supports more than 40 in total — will follow in subsequent releases.

#### **The Technology Behind It**

Metaroom is built on Apple's RoomPlan API as its scanning foundation, extended by a proprietary technology stack developed by the Amrax R&D team. The platform fuses LiDAR depth data with camera-based computer vision, processed through deep learning models for indoor semantic segmentation — automatically identifying and classifying architectural elements including walls, doors, windows, and openings. This transforms raw scan data into structured, editable building geometry rather than an undifferentiated mesh.

The Enterprise Building Capture feature adds a proprietary multi-session alignment engine based on SLAM (Simultaneous Localization and Mapping), enabling independently captured scan sessions — taken on different days or by different team members — to be merged into a single geometrically consistent model across floors and

wings. The hospital project was the first large-scale real-world deployment of this system, validating the approach under fully live building conditions: the hospital remained in operation throughout, with no areas closed or taken offline for the scan.

"The hospital project was a genuine engineering challenge. We were working with 60,000 square meters across multiple floors of a building that could not be interrupted for documentation," says Martin Huber, CEO of Amrax. "Our team built the Enterprise Building Capture feature to solve a problem that existing tools — including professional hardware setups — could not be solved efficiently. The result exceeded what we believed was achievable with smartphone hardware alone, and we are proud to make it available to the market."

### **What This Means for Building Professionals**

The distinction between a mesh model and a parametric model is critical for anyone using spatial data for planning rather than visualization. Mesh-based outputs — the standard output of many mobile and professional scanning tools — produce a three-dimensional visual representation of a space. They are accurate to the eye, but contain no structured data. A wall in a mesh is a surface where objects blend together, losing clear boundaries. A wall in a Metaroom model is a geometric object with a defined position, height, and thickness — data that BIM managers, MEP engineers, energy consultants, and facility managers can work with directly in their planning tools.

Traditional scanning workflows — even with professional hardware — produce point clouds that must be manually modeled into usable geometry by specialists, a process that can take weeks. Metaroom delivers a fully functional, structured 3D model automatically, the moment the scan is complete.

At the scale of a hospital or a large commercial building, this difference determines whether a scanning workflow replaces the manual documentation process entirely or merely adds a visual layer on top of it. Metaroom's Enterprise Building Capture is designed for the former.

"Large buildings are precisely where digitization workflows break down most often," says Martin Huber. "Existing floor plans are outdated. Site visits are repeated. Redrawing takes weeks. With the Enterprise Building Capture feature, a team can digitize a 60,000-square-meter hospital in days and hand off a model that goes straight into planning — no redrawing, no manual measurement, no repeated site visits."

### **Availability and Beta Access**

Metaroom Enterprise Building Capture is available today as a public beta. Professionals working on large-scale digitization projects — including hospitals, educational institutions, industrial facilities, campuses, and mixed-use developments — can register a Metaroom account and get immediate access to the beta at [www.amrax.ai](http://www.amrax.ai)

To see how Enterprise Building Capture works in action, register for the **live webinar on June 18, 2026**:

English session at 4:00 PM CET, [register here for english](#)

German session at 1:00 PM CET, [register here for german](#)

The Metaroom Scan App is available on the Apple App Store for iPhone Pro and iPad Pro. Enterprise Building Capture is accessible through the browser-based Metaroom Workspace.

### **About Metaroom by Amrax**

Metaroom is a mobile scanning and modeling platform that uses LiDAR, computer vision, and AI to generate precise parametric 3D models and 2D plans — directly on an iPhone Pro or iPad Pro. The platform includes the

Metaroom Scan App and the browser-based Metaroom Workspace, with export support for more than 40 formats including IFC, DXF, GLB, and PDF. Metaroom integrates with leading planning and design tools including Autodesk products, DIALux, Graphisoft, Bluebeam, and Siemens Xcelerator. It is used by architects, BIM managers, MEP engineers, lighting designers, energy consultants, and facility managers in more than 175 countries. Amrax is headquartered in Puch bei Hallein, Austria.

More information: [www.amrax.ai](http://www.amrax.ai)

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*Note to editors: Metaroom Enterprise Building Capture is available as a public beta from June 4, 2026. The hospital project referenced in this release was completed in May 2026. High-resolution assets are available on request. Metaroom's scanning technology utilizes the LiDAR sensor and camera systems available on iPhone Pro and iPad Pro devices.*