

A building made of measured dots.

R-CON’s organizer lists 12–15 October for a reality-capture conference. This is a timely reason to explain building laser scans, without claiming conference results.

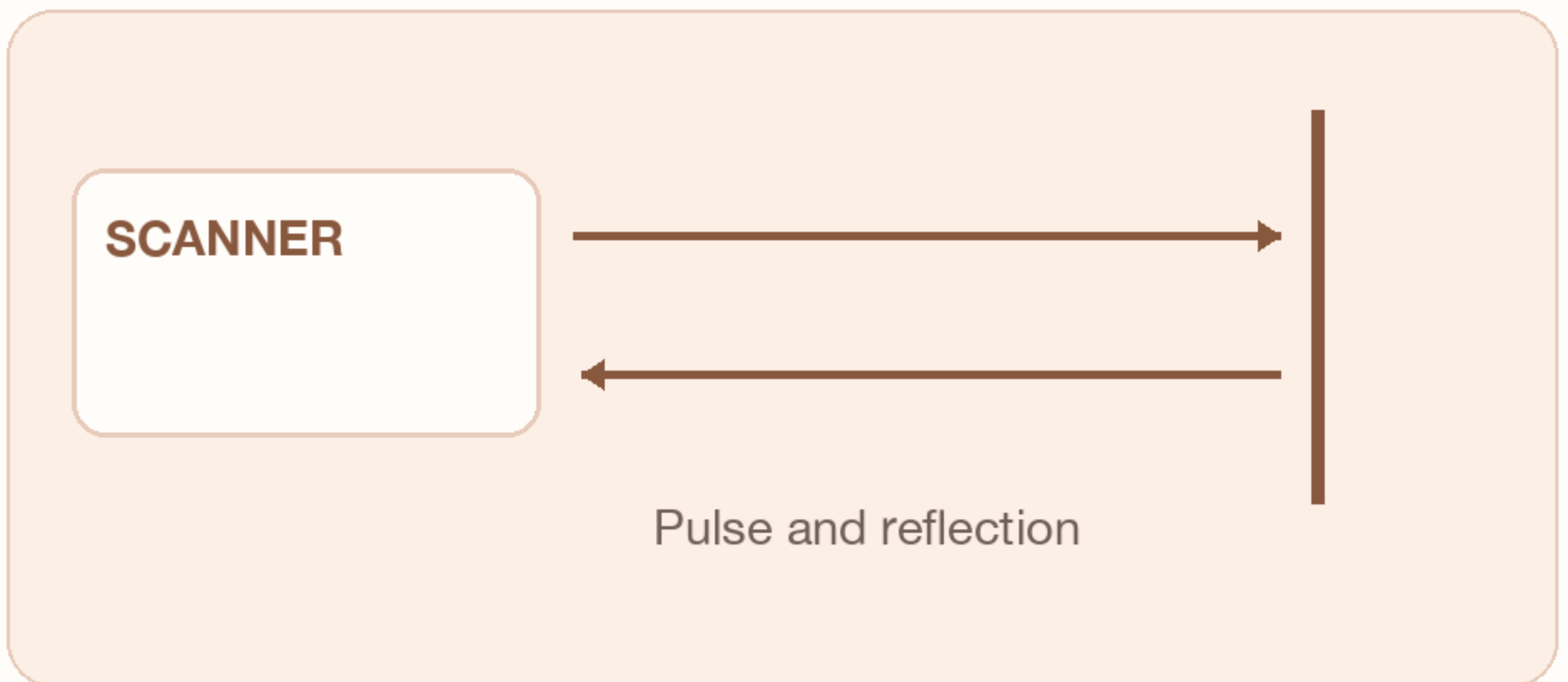


Illustrative points, not a real scan.

Original conceptual diagrams. No measured product/site result.

A laser helps measure distance.

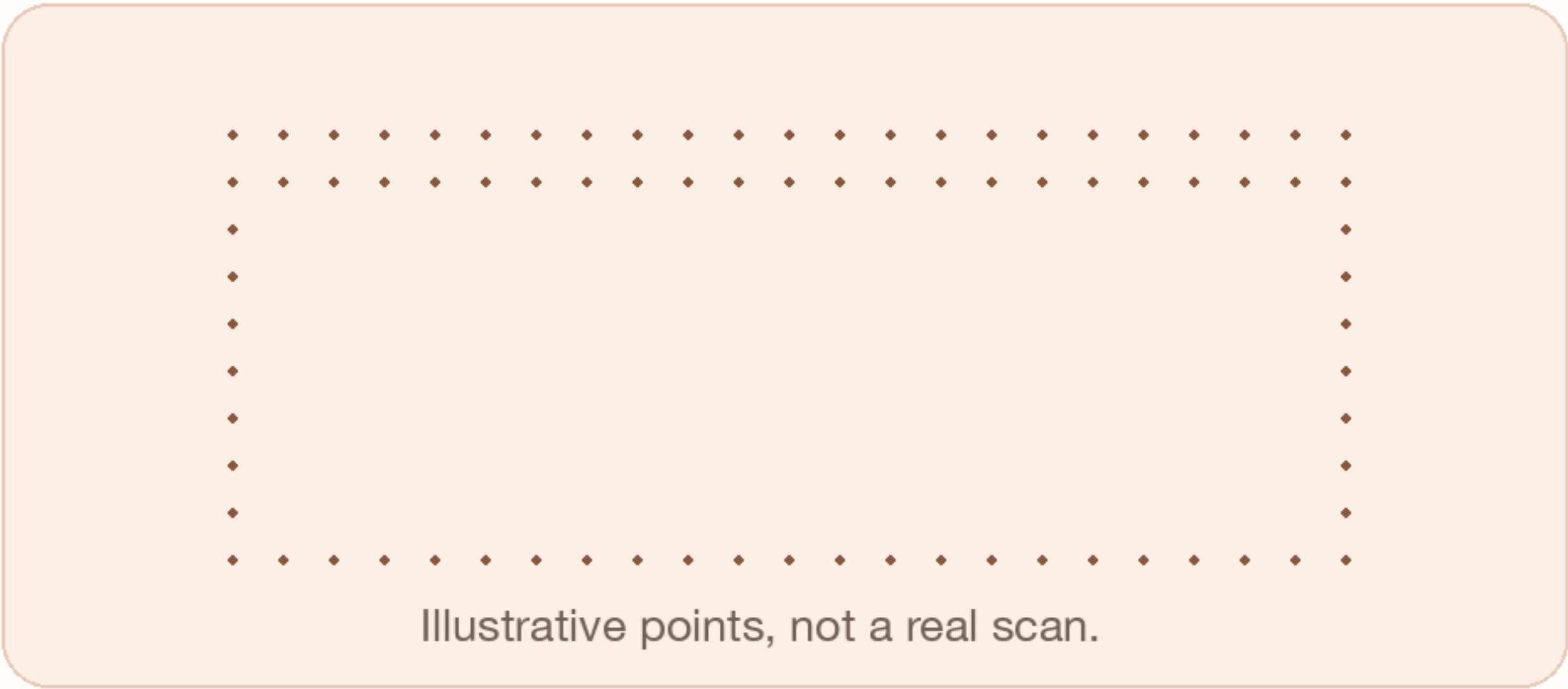
A time-of-flight lidar measures the delay between an emitted pulse and its reflection. Many measurements can locate surfaces in three dimensions.



Original conceptual diagrams. No measured product/site result.

Many points form a point cloud.

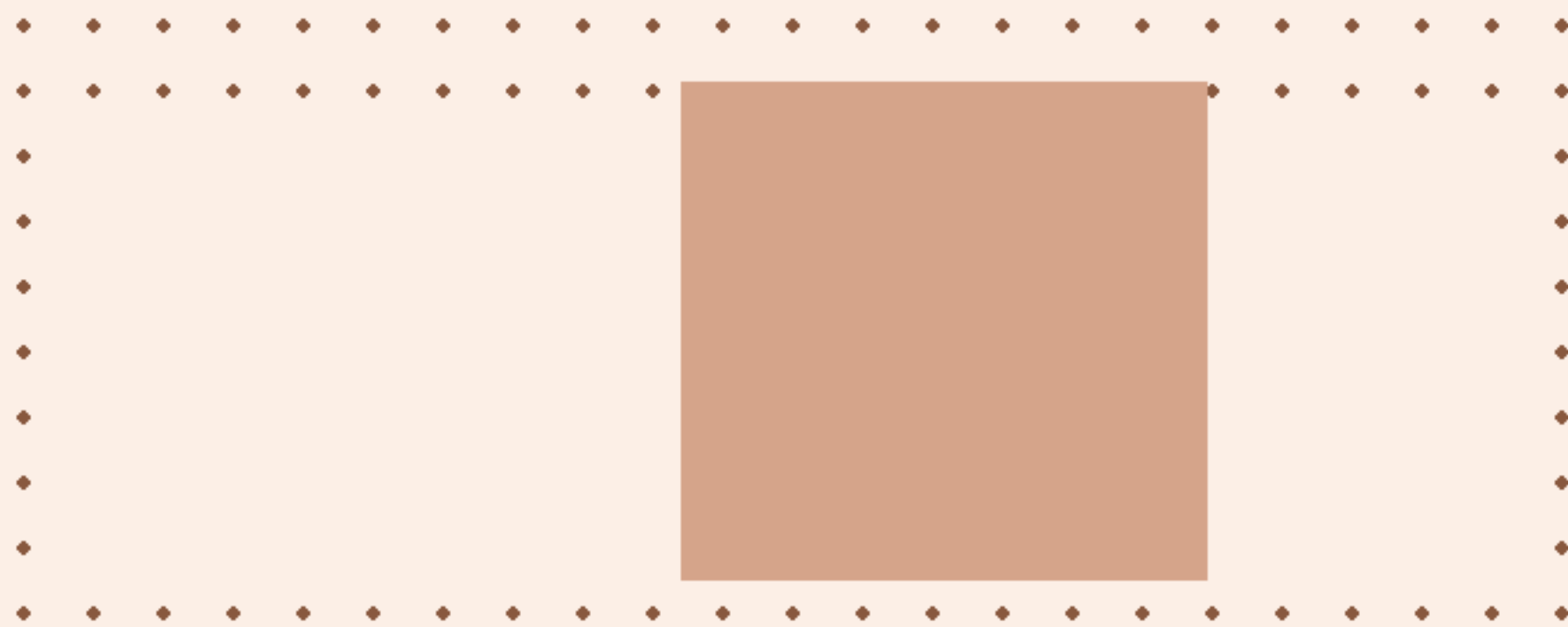
Each point records a position. Together, points describe sampled surfaces. The dots are not automatically named walls, rooms or equipment.



Original conceptual diagrams. No measured product/site result.

One view leaves hidden surfaces.

An object can block the scanner's view. More scan positions can add coverage. A realistic-looking view can still contain gaps.

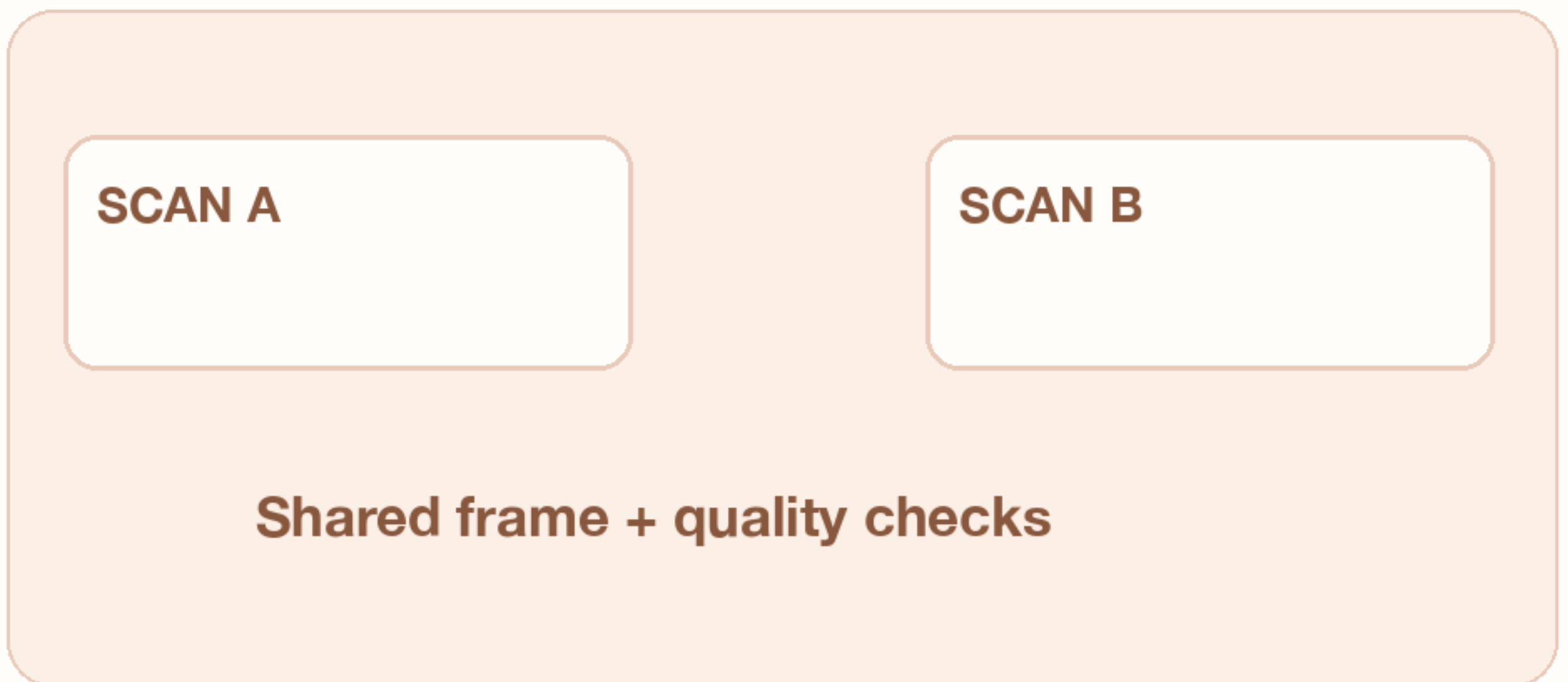


Sampled surfaces; gaps can remain.

Original conceptual diagrams. No measured product/site result.

Align the scans. Then check them.

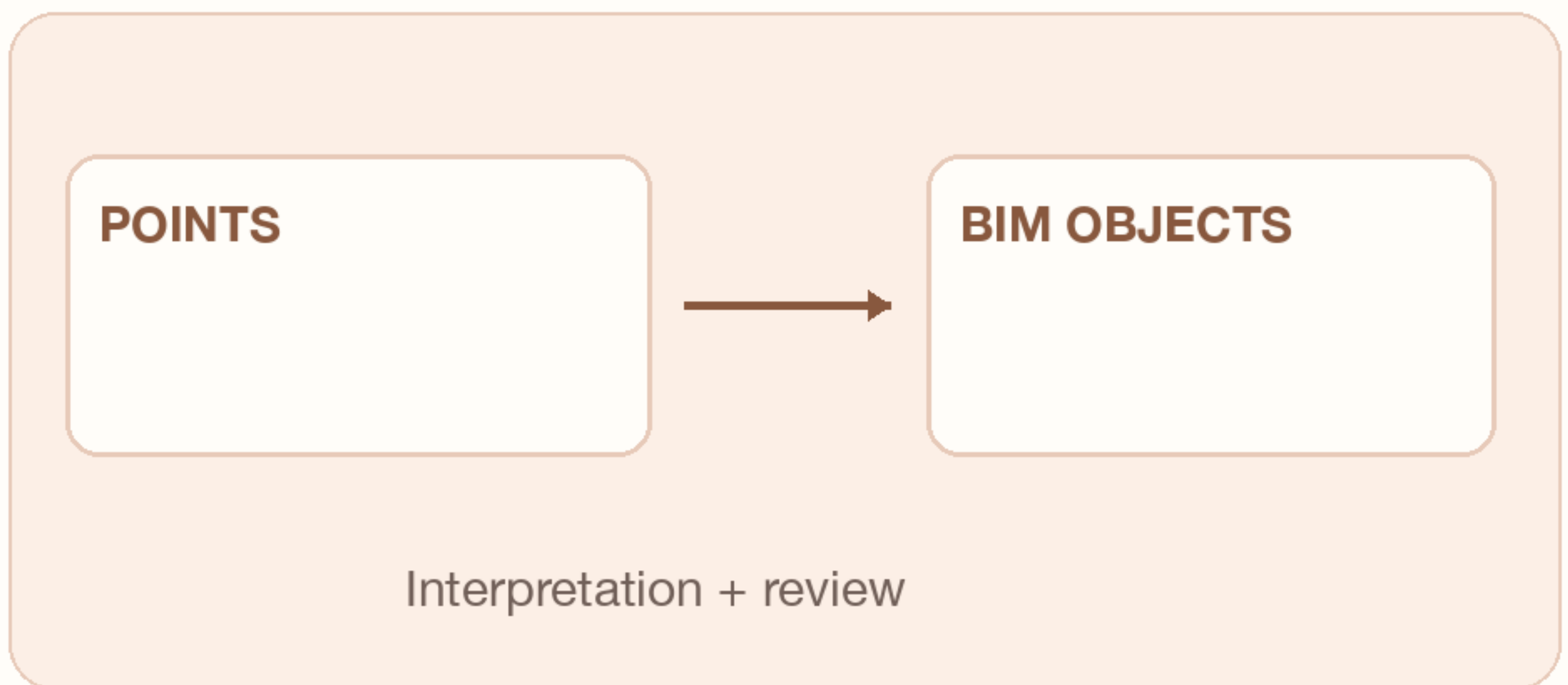
Registration brings separate scans into a shared frame. Software can use targets or common geometry. An attractive alignment still needs quality checks.



Original conceptual diagrams. No measured product/site result.

Points are not a finished BIM.

Building Information Modelling adds interpreted objects and information. Turning points into that model requires choices and review. A scan alone is not a live digital twin.



Original conceptual diagrams. No measured product/site result.

Check the record before the decision.

Our original handoff questions: when was it captured, what is missing, how was it aligned, and what independent checks support the intended use?

Capture date + coverage

Alignment + reference frame

Checks + intended use

Original conceptual diagrams. No measured product/site result.

A useful record. A bounded claim.

Use the scan as evidence for a defined question. It does not certify structural safety, hidden services or universal accuracy. No real building was surveyed for this post.

Capture date + coverage

Alignment + reference frame

Checks + intended use

Original conceptual diagrams. No measured product/site result.