



What is Geo-contextual automation?

Geo-contextual automation is the use of technology to automate a material's status and location. Construction project stakeholders using **Octave Loop Material Readiness** are empowered with real-time supply chain visibility, thereby removing impediments to productivity. That means workers have the materials they need when needed and spend more time on tools. We call that *material readiness*.

1 

Tagging

An RFID tag or barcode is attached to an item, and a mobile device is used to associate that specific tag to that specific material.

2 

Tag reads

Readers (vehicle-mounted, gate, handheld, etc.) confirm or update the material's status and location automatically.

3 

Notification

This enables an automated project status workflow and notifies all stakeholders throughout the material's lifecycle.

4 

Status

With gate reads or geo-fencing logic, Loop Material Readiness automatically updates any status changes.

5 

Location

Once locations are updated via GPS, they are available on a map within the Loop Material Readiness app.

6 

Finding

A mobile device guides the Loop Material Readiness user directly to the tagged material.

What are the Benefits?

Construction schedule certainty

- Full supply chain visibility
- Real-time material data by location enables better construction pull mechanisms

Productivity gains in construction hours

- On-time material delivery to the workplace
- Reduce craft labor wait times

Reduction of material search labor

- 9x reduction in material location times
- Find, pick and issue to construction faster

Reduce re-procurement

- Re-procurement due to lost or improperly stored material can be a thing of the past
- Prevent scrap and surplus at the project's end