

STANDARD LOAN ASSETS MONITORING

Use Cases Across Lending & Asset Finance Segments

Real-time asset tracking, verification, and condition monitoring — powered by BLE tags, GPS, and IoT sensors — applied across ten common lending and asset-finance scenarios. Each use case outlines the business challenge, how continuous monitoring solves it, and the resulting benefit to the lender.

1. Commercial Vehicle & Fleet Loans
2. Construction Equipment Finance
3. Agricultural Machinery Loans
4. Industrial Machinery & Equipment Finance
5. Inventory & Warehouse Financing
6. Leasing & Asset Rental Companies
7. Two-Wheeler & Consumer Vehicle Loans
8. Repossession & Recovery Operations
9. Loan Against Property (Movable Assets)
10. NBFC Portfolio Risk Monitoring

1. Commercial Vehicle & Fleet Loans

CHALLENGE

Financed trucks, buses, and commercial vehicles often operate across states, making it difficult for lenders to verify the vehicle still exists, is being used as declared, and hasn't been sold or re-hypothecated without consent.

MONITORING SOLUTION

- GPS trackers provide continuous live location and route history
- Geofencing alerts if the vehicle crosses unapproved state or operational boundaries
- Ignition and usage logs confirm the vehicle is active and not idle/abandoned

BENEFIT

Lenders detect unauthorized sale, diversion, or abandonment early, reducing loss-given-default and supporting faster recovery action when needed.

2. Construction Equipment Finance

CHALLENGE

Excavators, cranes, and loaders financed for a specific project site are sometimes moved to other sites, sub-leased informally, or left idle without the lender's knowledge.

MONITORING SOLUTION

- IoT sensors track engine hours and operational utilisation
- GPS confirms the equipment remains at the sanctioned project location
- Condition sensors flag abnormal wear, overuse, or neglect

BENEFIT

Financiers gain assurance that equipment value is being preserved and used productively, supporting accurate risk-based pricing on renewals.

3. Agricultural Machinery Loans

CHALLENGE

Tractors and farm equipment financed under subsidy-linked or seasonal loan schemes are hard to physically verify given rural, dispersed locations and limited field staff coverage.

MONITORING SOLUTION

- Low-cost BLE tags enable low-power, long-range asset tagging suited to rural terrain
- Periodic location pings confirm the asset remains with the borrower
- Utilisation data supports seasonal repayment scheduling aligned to actual usage

BENEFIT

Reduces the cost and frequency of manual field visits while improving portfolio visibility across geographically scattered rural borrowers.

4. Industrial Machinery & Equipment Finance

CHALLENGE

Machinery financed for factories can be relocated, sold as scrap, or used as collateral for multiple loans (double financing) without the original lender's knowledge.

MONITORING SOLUTION

- Fixed IoT/BLE tags with tamper-detection alert if removed or disabled
- Centralised platform cross-checks asset ID against other financiers' records where integrated
- Condition and operational data logged for periodic valuation updates

BENEFIT

Significantly lowers fraud risk from double-financing or asset stripping, protecting the lender's security interest over the loan tenure.

5. Inventory & Warehouse Financing

CHALLENGE

Loans secured against stock-in-trade or warehouse inventory face the risk of stock being sold, moved, or misrepresented in volume between physical audit visits.

MONITORING SOLUTION

- IoT-enabled warehouse monitoring tracks stock movement in and out in real time
- Smart sensors estimate inventory volume/weight to flag discrepancies against declared stock
- Automated alerts trigger when inventory drops below the agreed security cover

BENEFIT

Enables continuous inventory verification instead of quarterly or monthly audits, closing the gap where under-collateralisation typically goes undetected.

6. Leasing & Asset Rental Companies

CHALLENGE

Leasing companies renting out equipment, vehicles, or machinery need to track dispersed assets across multiple lessees and locations to manage utilisation, maintenance, and recovery.

MONITORING SOLUTION

- Real-time fleet-wide dashboard shows location and status of every leased asset
- Usage-based tracking supports accurate billing for hourly/usage-linked lease models
- Automated end-of-lease location confirmation simplifies asset retrieval

BENEFIT

Improves asset utilisation rates and reduces revenue leakage from unreturned or misused leased assets.

7. Two-Wheeler & Consumer Vehicle Loans

CHALLENGE

High-volume, lower-ticket-size loans make individual manual verification uneconomical, yet this segment often carries higher delinquency and skip-tracing risk.

MONITORING SOLUTION

- Compact GPS/BLE tags provide low-cost, scalable tracking across large loan books
- Automated alerts flag vehicles that go untracked or leave a defined home-city radius
- Integration with collections systems prioritises field visits only where risk signals appear

BENEFIT

Makes monitoring economically viable at scale, improving recovery rates on high-volume retail portfolios without proportionally increasing field costs.

8. Repossession & Recovery Operations

CHALLENGE

Once an account turns delinquent, recovery teams often struggle to locate the financed asset quickly, leading to costly delays and higher loss-given-default.

MONITORING SOLUTION

- Real-time last-known-location data is available instantly to the recovery team
- Historical movement trails help predict likely current location
- Remote immobilisation features (where enabled) support safe, faster repossession

BENEFIT

Cuts the time and cost of physical asset tracing during recovery, directly improving recovery rates and reducing NPA-related losses.

9. Loan Against Property (Movable Assets)

CHALLENGE

Where movable machinery or equipment is bundled as collateral alongside property in secured loans, lenders lack an efficient way to verify that the movable component remains intact.

MONITORING SOLUTION

- IoT tagging of movable collateral run alongside the property-based loan record
- Periodic condition and presence checks logged automatically into the credit file
- Alerts raised if a tagged movable asset is removed from the mortgaged premises

BENEFIT

Strengthens the overall security cover of composite loans, reducing the risk of undisclosed collateral erosion between valuation cycles.

10. NBFC Portfolio Risk Monitoring

CHALLENGE

NBFCs managing large, diverse asset-backed portfolios need a consolidated view of collateral health across thousands of accounts to satisfy internal risk and regulatory reporting.

MONITORING SOLUTION

- Centralised dashboard aggregates asset status across the entire financed portfolio
- Risk scoring flags accounts with declining asset condition, unauthorized movement, or usage anomalies
- Exportable reports support audit, provisioning, and regulatory disclosure requirements

BENEFIT

Gives risk and credit teams portfolio-wide early warning visibility, supporting proactive provisioning decisions and reducing slippage into NPA categories.