

● EXECUTIVE SUMMARY

# ₹112+ Crore Revenue Protected. Zero Shipment Delays.

How ARVO helped a Tier-1 battery manufacturer prevent revenue loss while meeting Battery Pack Aadhaar norms

- ✔ Compliance failure risk eliminated without slowing OEM deliveries.





## CHALLENGE

# Supplying Multiple Global OEMs Under Pressure

A leading Tier-1 battery manufacturer faced a critical balancing act: delivering thousands of units to diverse global OEMs while meeting strict, individual compliance standards for every single shipment.

## THE SCENARIO

Each OEM demanded unique, verifiable proof of origin and manufacturing quality. Managing these requirements manually created a massive operational bottleneck.

### The Stakes

Any delay in providing this data meant shipments sat in the warehouse—putting millions in revenue at risk due to missed delivery windows.

## ⚠ THE REVENUE LEAK

### The Bottleneck: **Manual Reporting & Disconnected Systems**



#### **Disconnected Data Silos**

Staff spent hours digging through disparate legacy systems to manually locate origin and quality data for specific serial numbers.



#### **Incomplete Documentation**

Missing data points triggered endless back-and-forth emails between factory and HQ, stalling the verification process.



#### **Delayed Revenue Recognition**

Shipment approvals lagged behind production, causing finished goods to pile up in the warehouse instead of converting to cash.

### MANUAL VERIFICATION PROCESS



SHIPMENT DELAYED

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#### THE FINANCIAL RISK

“Finished inventory waiting for verification is **revenue waiting to happen.**”

 **DIGITAL PRODUCT PASSPORT**  
COMPLIANCE & TRACEABILITY STANDARD

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Serial Number	BATT-2024-X99
Chemistry	Li-Ion NMC 811
Origin Status	 <b>VERIFIED</b>

 Government Mandated Traceability

 THE REGULATORY BARRIER

## The Shift: The "Battery Pack Aadhaar" Requirement

New government tracking requirements demanded fast, reliable traceability for every unit. The manufacturer needed to achieve this compliance without adding operational burden.

### OPERATIONAL GOAL



#### PHYSICAL LEGACY

Paper trails and physical stickers that were prone to damage, loss, and manual data entry errors.



#### DIGITAL IDENTITY

Immutable, cloud-based digital identities ensuring zero downtime and instant verification.

## 🔧 THE SOLUTION

### The Fix: A Digital Passport for **Every Single Battery**

#### IMPLEMENTATION

ARVO replaced cumbersome paper trails with a secure, cloud-based digital passport system. We moved from static data to dynamic, verifiable identities.

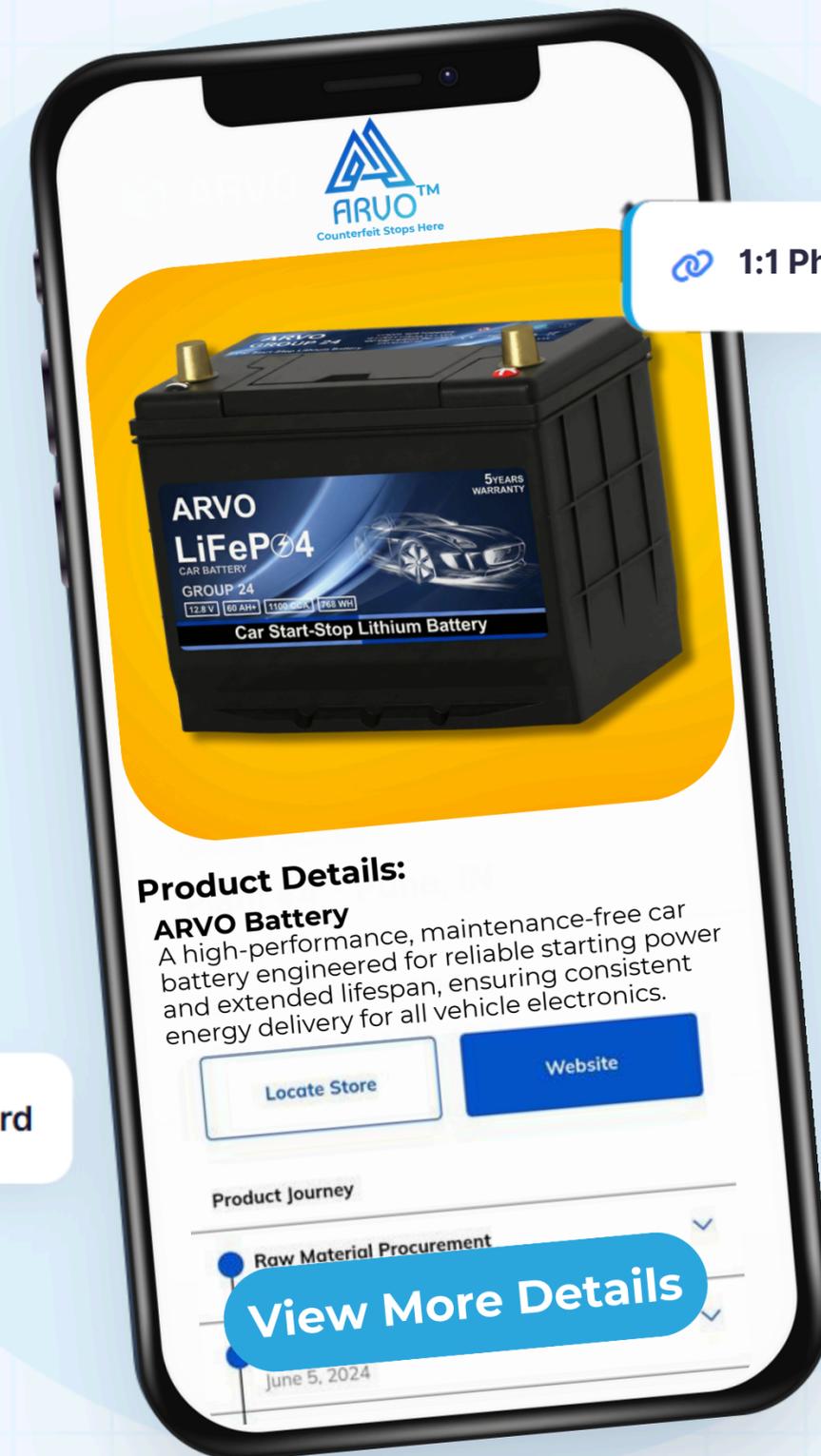
#### CORE MECHANISM

Every battery unit received a unique digital identity, permanently tied 1:1 to its physical serial number via a secure QR link.

#### THE RESULT

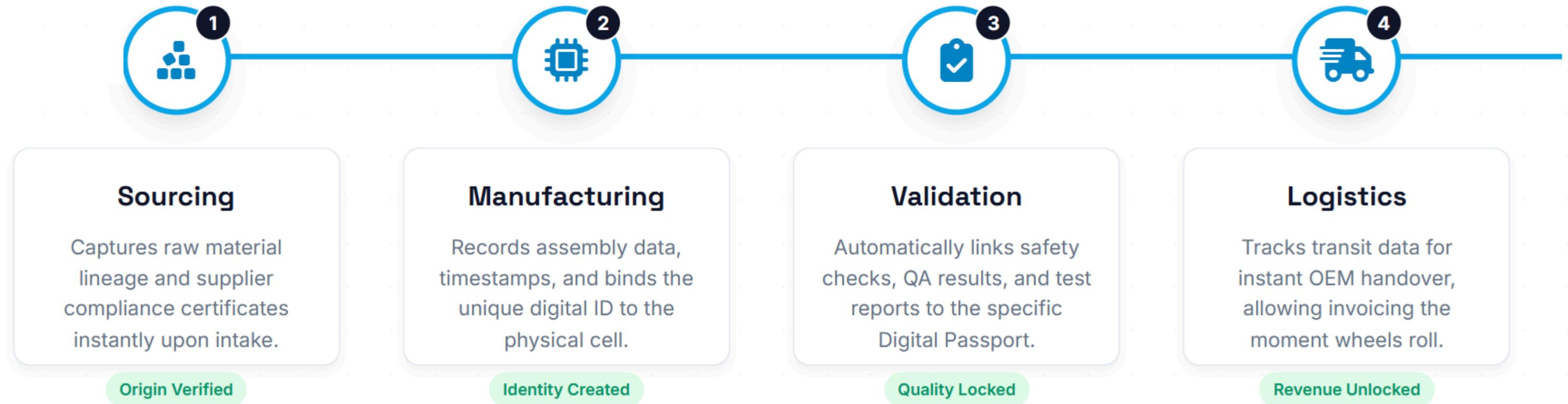
Instant, immutable proof of origin and quality accessible anywhere in the supply chain, ensuring data is never lost or disputed.

Immutable Record



## How It Works: 360° Visibility

From raw materials to final delivery, the Digital Passport creates an unbreakable chain of custody, ensuring data is ready before the battery ever leaves the factory.



## THE ONE-SCAN ADVANTAGE

### Instant Transparency for Every Stakeholder



#### Instant Accessibility

A secure QR scan instantly reveals the full, verified digital record to authorized personnel. No searching emails, no file requests.



#### Role-Based Visibility

Control exactly who sees what. Logistics partners see delivery data, while OEMs access full quality reports and origin certificates.



#### Zero-Friction Handovers

Physical assets and digital proof move together. Handovers happen in seconds with a simple scan.



**Enterprise-Grade Security:** Sensitive proprietary data remains hidden from unauthorized scans.

## Digital Passport

ID: ARVO-8839-XJ



### Verified Authentic

Last Scan: Just Now

Product Name      Li-Ion Pack Series 7

Origin                      Plant A, Gujarat

Mfg Date                      12 Jan 2026

Compliance                       Passed

Test Report                      [View PDF →](#)

FINANCIAL IMPACT

Revenue Protected  
₹ 112+ Crore

By eliminating compliance bottlenecks, ARVO secured the full value of the contract and prevented inventory stagnation.



### Eliminated Rejections

#### 100% COMPLIANCE AUTOMATION

Zero inventory was rejected for missing documentation or non-compliance.



### Accelerated Cash Flow

#### DAYS TO SECONDS

Verification time slashed, allowing invoicing to happen immediately upon delivery.



### Zero Disputes

#### TOTAL TRANSPARENCY

Immutable data eliminated quality disputes, securing the full contract value.

## BEFORE: FRICTION

Manual Reporting & Disconnected Systems



### High Friction

Manual data entry created errors and massive backlogs.

× INEFFICIENT



### Revenue Risk

Unverified inventory sat in warehouses, delaying cash flow.

⚠ CASH TRAPPED

Compliance as a COST CENTER

VS

## AFTER: FLOW

Automated Digital Passport Standard



### Zero Disputes

100% automated compliance eliminated quality rejections.

✓ TRUST SECURED



### Instant Cash Flow

Verification in seconds meant invoicing upon delivery.

↗ ACCELERATED

Compliance as a COMPETITIVE ADVANTAGE

KEY LESSON

“When verification is instant and trusted, compliance becomes a **competitive advantage.**”

Ready to protect your revenue with the Battery Pack Aadhaar standard?

 [Book a Demo to Kickstart Your Passport →](#)

Next Step: Kickstart Your Passport Integration



Instant Implementation



Secure Data Architecture



OEM Compliant