

How an EV OEM Gained Instant Battery Traceability

Without manual audits or compliance delays.



The Stakeholders

Who is this solution for?



An EV OEM Scaling Rapidly

A major electric vehicle manufacturer navigating rapid production growth under rising regulatory scrutiny.

CURRENT CHALLENGES

-  Dependent on multiple battery manufacturers
-  Operating under increasing Battery Pack Aadhaar pressure
-  Struggling with manual verification delays



An OEM Ready to Scale with Confidence

An electric vehicle manufacturer determined to grow without friction, audit anxiety, or operational slowdowns.

THE OUTCOMES

-  Instant, trusted verification for every battery pack
-  Audit-ready compliance without last-minute scrambling
-  BPAN alignment that moves at factory speed

What Was Breaking the System?

System breakdowns in the battery supply chain



The OEM Struggled To:

- ✓ **Verify battery authenticity**
Confirming origin and build quality
- ⚙️ **Validate certifications**
Ensuring specifications match standards
- 🗄️ **Access lifecycle data**
Tracing history from manufacturing to pack



Reality on the Ground

Manual processes creating bottlenecks



Static PDFs



Spreadsheets



Email Chains



Manual Audits



THE RESULT

Slow approvals & delayed decisions

The Internal Problem

Behind the scenes inefficiencies

Operational Bottlenecks



Engineering Stalled

Teams constantly waited on data availability before proceeding with integration.



Document Chasing

Compliance teams lost hours manually tracking down PDFs and certifications.

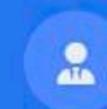


Fragile Trust

Supplier trust depended on verbal explanations rather than verifiable proof.

OEM INSIGHT

“We don’t need more data. We need verified, instant access.”



Head of Compliance
Major EV OEM

What Was at Risk

Why it mattered for the OEM



POTENTIAL PROGRAM IMPACT

₹100–300

Crore

Estimated cost of delays in OEM vehicle programs due to compliance friction.

Operational Risks

-  **Repeated compliance rework**
Teams stuck in loops fixing documentation
-  **Increased regulatory scrutiny**
Manual errors inviting deeper audits
-  **Weak traceability**
Struggling to meet Battery Pack Aadhaar norms

BUSINESS RISK

-  **Battery data delays were becoming a critical bottleneck.**

Why ARVO

More than a tool - A strategic partner



What ARVO Understands



OEMs need scan-based verification

Instant truth without sifting through paperwork or waiting for emails.



Manufacturers need one-time digital compliance

Input data once during production, accessible forever by authorized partners.

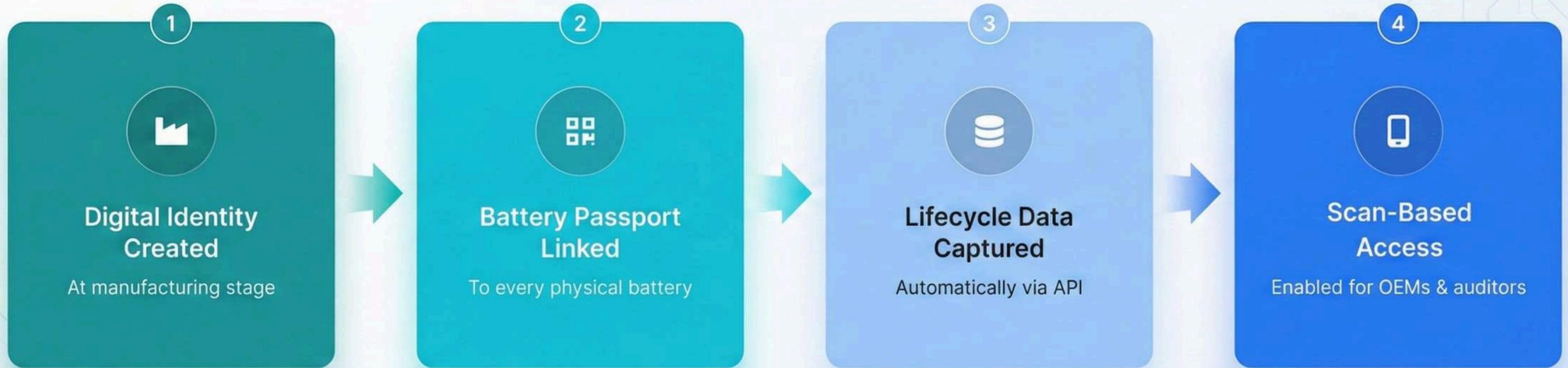


Battery Pack Aadhaar demands lifecycle visibility

Full traceability from cell origin to end-of-life recycling potential.

ARVO's Implementation

How does the Battery Passport work?



DATA STRUCTURE

Aligned with **Battery Pack Aadhaar** expectations.



THE TRANSFORMATION

 One scan → complete battery truth

Solution in Action

What changed for the OEM?

Instant Digital Access

One scan provides immediate verification of:



Authenticity

Verified origin proof



Certifications

Digital compliance docs



Specifications

Tech specs & chemistry



Lifecycle & Traceability

Full journey history

ELIMINATED FRICTION

- ✗ No manual audits
- ✗ No document chasing
- ✗ No repeated explanations



"OEM teams could verify batteries in seconds"

The Results

Measurable impact across the supply chain



Impact for the OEM

- ✓ **Reduced audit cycles**
Eliminated weeks of manual verification steps
- ✓ **Faster supplier approvals**
Instant digital validation of new batches
- ✓ **Higher trust with manufacturers**
Relationships built on transparent data
- ✓ **Clear BPAN-ready visibility**
Fully prepared for Battery Pack Aadhaar



For Manufacturers

- ✓ **Fewer compliance requests**
Reduced email back-and-forth
- ✓ **One-time data setup**
Input once, verify everywhere
- ✓ **Stronger OEM confidence**
Became preferred suppliers

The Win-Win Outcome

Both OEMs and manufacturers benefited from instant verification, eliminating friction from the supply chain.

From Risk to Advantage

The complete shift in operations

BEFORE ARVO



Compliance =
Friction

Manual audits, delays, and uncertainty.



AFTER ARVO



Compliance =
Built-in Trust

Instant, verified, and always accessible.



KEY LESSON

"When battery data is always available and verifiable, **verification becomes instant** — not operational."

Ready to transform your supply chain?

Take the next step with ARVO



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