



ASSETNIXA

# 10 Common Asset Handover Issues in Major Infrastructure Projects

---

A practical field guide for asset owners,  
project delivery teams and operators

[assetnixa.com](https://assetnixa.com)

Turning asset data into operational intelligence

# Data is rarely the problem. Usability is.

On major infrastructure programs the asset data already exists — captured in models, drawings, spreadsheets and systems across the supply chain. The problem appears at handover, when that data has to become something an operator can actually use to run and maintain the asset.

When handover data is incomplete, inconsistent or disconnected from the operator's systems, the cost lands squarely on operations: assets that can't be found, maintenance that can't be planned, and months of rework after practical completion.

Below are the ten issues we see most often on rail, road, utilities, telecommunications and major capital projects — and a practical way to avoid each one.

## The ten issues

### 01 Incomplete or missing asset data at handover

#### WHY IT MATTERS

Registers arrive with gaps — missing asset IDs, attributes, or whole asset classes — so the operator inherits blind spots from day one.

#### HOW TO AVOID IT

Define the required data set early in an information requirements specification, and verify completeness against it before acceptance — not after.

### 02 Inconsistent asset naming and numbering

#### WHY IT MATTERS

When the same asset is named differently across drawings, models and registers, nothing reconciles and automated matching quietly fails.

#### HOW TO AVOID IT

Agree a single naming and numbering standard (taxonomy) up front, and enforce it across every discipline and deliverable.

### 03 As-built vs as-designed mismatch

#### WHY IT MATTERS

Handover data that reflects design intent rather than what was actually built leaves operators maintaining an asset that doesn't exist as recorded.

#### HOW TO AVOID IT

Make as-built verification a gated requirement: field-confirm critical assets and reconcile changes before sign-off.

## 04 Poor spatial / GIS accuracy

### WHY IT MATTERS

If asset locations are missing or imprecise, field crews can't find what they're sent to inspect or repair, and GIS-based planning breaks down.

### HOW TO AVOID IT

Capture coordinates to a defined accuracy standard and validate spatial data against survey and GIS before handover.

## 05 Data scattered across disconnected systems

### WHY IT MATTERS

When information lives in spreadsheets, PDFs, drawings and separate systems, there is no single source of truth and no reliable answer to “what do we own?”

### HOW TO AVOID IT

Consolidate to a structured single source of truth that links documents, attributes and spatial data — not a folder of files.

## 06 No data validation or quality assurance

### WHY IT MATTERS

Errors, duplicates and gaps that go undetected at handover resurface later as failed work orders and unreliable reporting.

### HOW TO AVOID IT

Apply automated validation rules — completeness, format, referential integrity — and a clear QA sign-off before data is accepted.

## 07 Missing maintenance-critical attributes

### WHY IT MATTERS

Data captured for construction often omits what operations actually need — criticality, warranty, service intervals, spares — so the register can't drive maintenance.

### HOW TO AVOID IT

Specify operational attributes alongside construction data, and capture them progressively rather than retrospectively.

## 08 Late, end-of-project data capture

### WHY IT MATTERS

Assembling asset information in the final weeks creates rushed, error-prone handovers and costly rework — right when the program is under most pressure.

### HOW TO AVOID IT

Capture and validate data progressively through delivery, with milestone data drops instead of a single end-of-project dump.

## 09 Unclear data ownership and responsibility

### WHY IT MATTERS

When no one owns data quality between designer, contractor and operator, gaps fall through the cracks and accountability evaporates.

### HOW TO AVOID IT

Assign clear data ownership and acceptance responsibilities in the contract and the information delivery plan.

## 10 No alignment to the operator's asset management system

### WHY IT MATTERS

Handover data that doesn't map to the operator's CMMS, EAM or GIS has to be reworked before it can be loaded — delaying operational readiness.

### HOW TO AVOID IT

Design the handover data structure around the operator's target systems from the outset, so it loads cleanly.

## Where is your asset data today — and where does it need to be?

Assetnixa helps infrastructure owners and delivery teams turn fragmented project data into reliable, operationally-ready asset information. Book a free discovery call at [assetnixa.com](https://assetnixa.com) or email [contact@assetnixa.com](mailto:contact@assetnixa.com).