

# The New Rules of Operational Software

Why industrial + asset-rich organisations are moving beyond legacy platforms to build faster, smarter operational systems.

Technology Briefing (Overview).

## The Problem: Operational Software Is Now A Constraint.

Operational technology is meant to improve performance, but for many businesses, it's slowing it down.

Across operations, teams are working inside a patchwork of:

- Legacy OT systems (CMMS, SCADA, fleet, etc.)
- IT platforms (ERP, finance, CRM)
- IoT devices + sensors
- Databases
- Spreadsheets, paper + workarounds

These systems don't work together, so people fill the gaps.

### The Result.

Software creates work, rather than remove it. This is the '[Operational Ceiling](#)', technology stops accelerating ops and starts slowing them.

### Common Warning Signs.

- Manual data entry between systems
- Delayed or unreliable reporting
- Shadow tools (spreadsheets, paper, etc.)
- Long timelines for simple changes
- Integration projects for basic use cases

At this point, adding more software doesn't fix the problem: it compounds it.

## The Legacy Approaches: Why They Don't Work Anymore.

Most organisations cycle between three competing options:

### 1. Off-the-Shelf Software.

- Forces you to adapt to the system
- Expensive, slow to implement
- Still doesn't reflect real operations + patchwork of tools
- Average cost: ~\$80k+ per project (including configuration + integration)
- Typical timeline: 2-6+ months

### 2. External Custom Development.

- Highly tailored, but slow and costly
- Long-term dependency on developers
- Innovation bottleneck
- Average cost: \$200k+ per project
- Typical timeline: 12-24 months

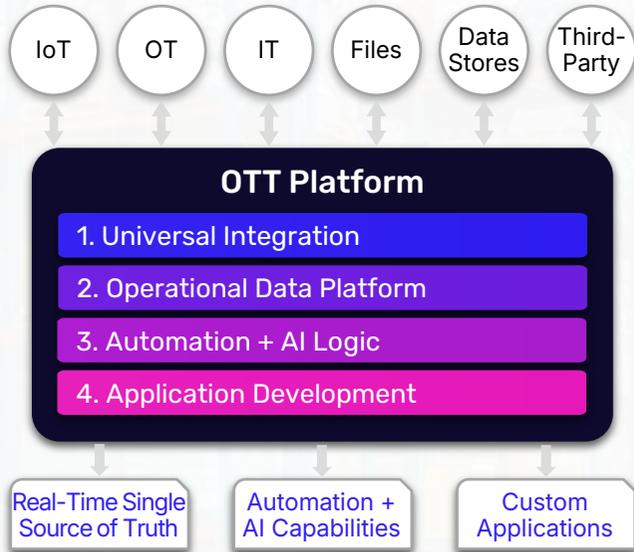
### 3. Internal DIY Development.

- New no-/low-code platforms appear to make development faster
- Breaks down in real-world environments
- Requires maintenance + base platform capability augmentation, e.g. add integration platform, workflow tool, etc.
- Average cost: \$60k-\$150k internal effort
- Typical timeline: 6-12+ months

All three approaches share the same flaw: they treat software as a project with an end-state - not an evolving capability.

## The Shift: From 'Rip-and-Replace' to 'Wrap and Extend'.

Instead of replacing systems, build on top:  
[Over-the-Top \(OTT\) Operational Layer.](#)



These gives you 2 new options:

### 4. OTT Augment.

- Keeps your existing systems in place
- Adds real-time, automation + AI to them
- Improves operational fit of legacy tech
- Average cost: ~\$22k per project
- Typical timeline: 3-6 weeks to 3 months

### 5. OTT Replace.

- Replace rigid/bad system with perfect fit
- Use OTT base for wider integration + data
- Focus on operational functionality
- Average cost: ~\$25k per project
- Typical timeline: 4-8 weeks to 1-3 months

## The New OTT Approach: What an OTT Layer Enables.

The difference is not just cost, it's how quickly you can deploy and get value from the systems. This minimises risk and enables a staggered approach, improving adoption.

### What This Layer Actually Enables.

There are added benefits to adopting an OTT approach beyond operational benefits:

#### 1. Universal Integration:

Acts as a universal integration platform, capable of connecting all your technologies and data stores together; handling protocols, latency + formats.

#### 2. Operational Data Platform:

Ingest and normalise your data in real-time, creating a single source of truth and making it available in dashboards + to existing tools.

#### 3. Automation + AI Logic:

Workflow automation capabilities sits on top of all your systems, adding automation and AI to all your existing assets and systems.

#### 4. Application Development:

Build custom operational applications directly on top of your systems, making it possible to build + deploy in weeks.

Unlike the first 3 options, these approaches don't require you to replace existing systems, won't lock you into vendor roadmaps, or risk ROI with untested long deployments that fail to deliver the returns promised.

## The Real Business Case: What Most Businesses Miss.

Most organisations evaluate software based on licensing, but it's not accurate.

The biggest drivers are:

- Integration with current systems
- Implementation timelines/consultants
- Operational disruption + training
- Vendor dependency
- Ongoing change/development

Factored in, the economics change and traditional approaches take months-to-years. Modern OTT approaches deliver value in weeks, whilst giving [you the ability to keep improving without starting again.](#)

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Explore all five operational software approaches, with real cost comparisons, timelines + where each works best.

Get practical frameworks + a step-by-step path on how you can utilise it.

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