

A victim to legacy?

Too successful?

The digital transformation of oil and gas continues apace, with platforms, digital twins and even AI, but many of the underlying production and operations workflows remain reliant on custom built applications and data stuck on legacy systems.

Some were built more than a decade ago, often as just a proof of concept, and have evolved to become integral to operational safety and performance as their inputs and outputs feed business-critical workflows.

Many operators have become reliant on them.

Today, few in the organisation understand how these custom-built applications, developed in Access, Excel or the Code of the Day, work and or how to maintain them; they exist unsupported, well past their end of life – and can't be updated, upgraded or migrated.

Preserving legacy, but at what cost?

With limited options, brownfield operators who may have inherited these applications through divestment by the supermajors, are left exposed:

- **Lack of resilience**

Without the necessary back-up and resilience some pose a risk to delivery of production targets, other potentially to operational integrity. Cybersecurity risks increase when applications reach end of life, lack support and are poorly understood, creating enormous headaches for IT departments driving compliance.

- **Lack of capability**

With an ageing workforce, we meet more and more engineering managers kept up at night worrying about who will be able to run, let alone maintain these systems built in old versions of Excel and Access, or using old coding languages that no-one remembers.

- **Missed opportunities**

The scale of these risks for operators is matched by the huge opportunities on offer from the latest technologies tools for efficiency, productivity and value creation.

Eigen can help

We bring together a unique blend of oil and gas domain expertise and digital technology knowhow:

- **Latest technologies:** we draw from a range of technologies, some built by Eigen, like Ingenuity, others open-source like Neo4j's graph technology, InfluxDB timeseries database and Node-Red's workflow engine.
- **Design expertise:** We are design thinking practitioners and have in-house user experience specialists to ensure we design tools that users love because they deliver value.
- **Modern methods:** We operate robust change management and control processes to accelerate deployment without compromising on continuity.
- **Cloud migration:** We build resilient, secure and compliant cloud-based solutions.
- **World-class support:** Our globally co-located teams provide expert support and problem resolution to keep your operations up and running .

Value delivery in action

Check out our case studies how we helped an operator replace a legacy production reporting workflow and another where we re-engineering a production efficiency process to save time and retain business-critical knowledge.

Summary

Operators trust Eigen to extend the life of their business-critical applications, improve their user experience, increase functionality and resilience and move them to the cloud for increased flexibility, security and reduced total cost of ownership.

For more information on Upgrading legacy applications, [contact Joel Chacon](#), we'd love to help.