BUILDING A CULTURE OF TESTING AND DEVOPS

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KEY HIGHLIGHTS

Improved Product Stability
Increased code coverage from 9% to 70% to minimise production errors and accelerate innovation.

Streamlined Delivery
Automated deployment pipelines across 100% of services, boosting agility and responsiveness. Total services deployed automatically increased from 15% to 100%.

Strategic Partnership
Build Circle's expertise drove architectural modernisation, the build of Indra's Device Management API, and Data Lake initiatives.

"The changes Build Circle implemented have transformed our development process. We're not just writing better code; we're doing it together, more efficiently, and with a greater sense of ownership and pride."

Matt Noonan, Head of Cloud Engineering, Indra.

The Challenge_

Indra faced increasing complexity in its software and systems as it expanded in the electric vehicle (EV) charging market. Rapid growth had outpaced internal processes, leading to challenges with system reliability, limited test coverage, slow deployments, and a lack of cross-functional collaboration.

The existing development environment was siloed, manual deployments introduced errors, and limited automated testing made it difficult to maintain confidence in system performance as new features were added. Indra needed to modernise its engineering culture, improve code quality, and accelerate innovation while maintaining system stability and uptime.

The Solution_

Build Circle partnered with Indra to establish a DevOps-driven culture of testing, automation, and continuous improvement. The team implemented a robust automated testing framework that increased code coverage from around 9% to 70%, ensuring greater reliability and faster feedback loops. They automated the entire deployment pipeline, achieving 100% automation across services and significantly reducing manual intervention.

Collaboration across teams was restructured to promote shared ownership of code, testing, and deployment. In parallel, Build Circle supported the modernisation of Indra's system architecture, including the creation of a Device Management API and a scalable Data Lake to enhance data integration, monitoring, and analytics capabilities. End-to-end testing environments were established to validate system performance in real-world conditions before release.

Outcomes_

- Test coverage increased from 9% to 70%, dramatically improving software reliability.
- Deployment automation reached 100%, enabling faster, error-free releases.
- Improved collaboration and ownership across development and operations teams.
- Enhanced architectural foundations with the Device Management API and Data Lake.
- Shortened innovation cycles and reduced downtime through continuous integration and testing.

Indra joined forces with Build Circle to overhaul its software development practices in response to rising complexity, reliability concerns, and customer expectations in the EV charging domain. The project introduced a comprehensive testing regime (boosting code coverage from ~9% to ~70%), fully automated deployment pipelines (moving from 15% to 100% of services), and broke down silos by realigning how teams collaborate and own their work. It also modernised Indra's architecture, notably via a Device Management API and a Data Lake initiative, while implementing end-to-end real-world system testing to ensure product stability under live conditions. The result was much faster innovation cycles, reduced risk of errors or downtime, greater team ownership, and overall operational agility.