

How Did a Large International Defense Contractor Accelerate Software Delivery in 9 Months?

NORTHROP GRUMMAN

Founded in 1939

#96 on Fortune 500 with
~97,000 employees

Based in Westfalls Church, VA

International company with
14 locations in the USA

BACKGROUND AND CHALLENGES

Northrop-Grumman (NG) needed to modernize software delivery to better meet the needs of the Department of Defense (DoD) and other clients that support national defense work. The company had struggled with standardization efforts with their developer teams, resulting in longer delivery times.

NG had been working internally to create common tools and systems used by over 10,000 development teams across both NG and the DoD, however they had low adoption rates due to a highly distributed model of working and the classified nature of each program. This resulted in inconsistent developer experiences from team to team and from sector to sector, since teams could use a wide variety of tools, practices, processes, and organizational structures. Liatrio was engaged to help accelerate NG's software delivery processes and practices.

LIATRIO PROPOSED & EXECUTED



Creating immersive learning experiences with Dojos and real product work, to increase understanding and usage of software delivery tools and practices



Scaling Dojos, allowing multiple teams to focus on improving software product delivery and capabilities at the same time



Facilitating self-directed experiences by creating Dojo hands-on learning modules (digital platform)



DOJO

Liatrio established the Dojo practice at NG and implemented the full framework for successful execution and sustainability.

Dojo Team Outcomes

- Pipeline creation and pipeline adoption
- Developed stand alone pipelines/tooling for air gapped systems
- Testing automation using multiple testing frameworks (Robot, Eggplant)
- Hands-on learning with new tools such as Kubernetes and Docker
- Created metrics collections and dashboards for common DORA measurements
- Security scanning for vulnerabilities within code (Fortify, Sonarqube)
- Built stronger scrum practices (Agile, Kanban) for teams to help deliver code faster with less defects

Over 9 Months

12 & 109
Teams Employees



successfully graduated from the Dojo



LEARNING PLATFORM

Liatrio created learning modules to assist individual team members not part of an active development team, in order to allow members to learn topics within a short period of time.

- Created learning journey maps to help guide team members to select the specialty that best met their needs
- Developed content and labs to provide hands-on learning experiences
- Integrated the learning platform into NG's Transformation Portal to both help users navigate and to deliver a seamless user experience



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