



Shifting Gears Leveraging CNCF Tools to Streamline Operations at Toyota Connected

Toyota Connected



Founded to help transform Toyota from an automotive company to a mobility company through connected, shared, and intelligent services

10M+

VEHICLES ON DRIVELINK CONNECTED PLATFORM TOYOTA connected

5M+

TELEMATICS CALLS COMPLETED WITH CUSTOMERS

19B

TRANSACTIONS PROCESSED EACH
MONTH ON OUR CONNECTED
MOBILITY INTELLIGENCE PLATFORM

200+

U.S. EMPLOYEES

Technical Challenges





Tooling



Templates



Practices



Management

Organizational Challenges



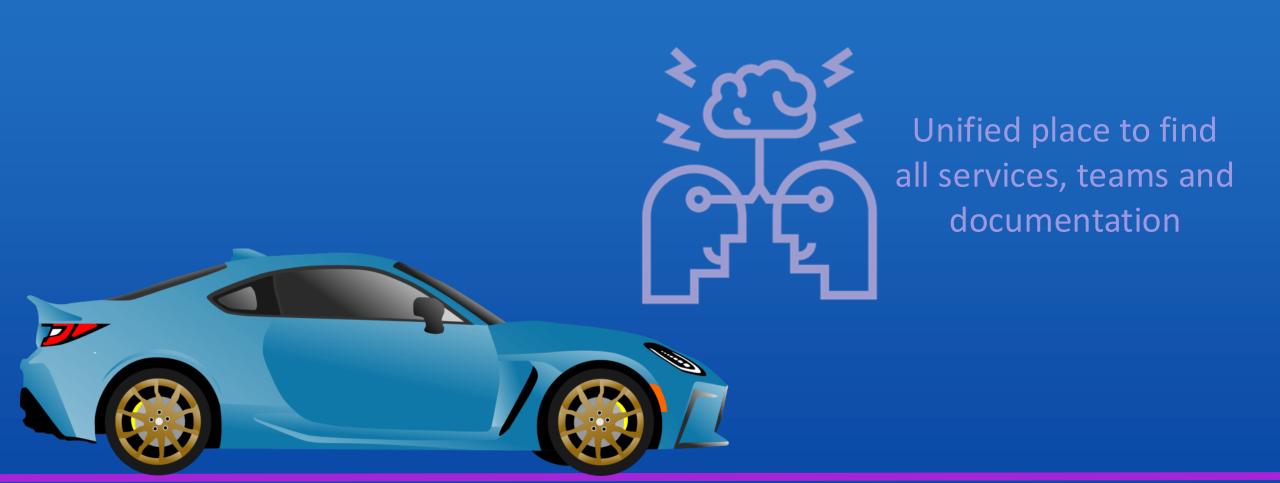
















Standardize developer workflows

















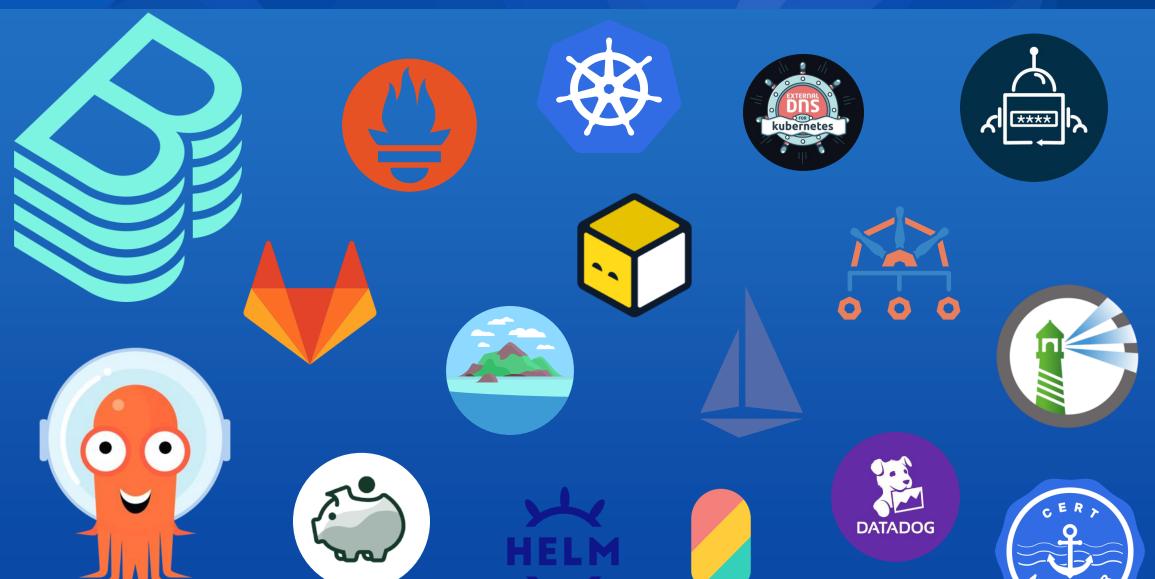




Maestro

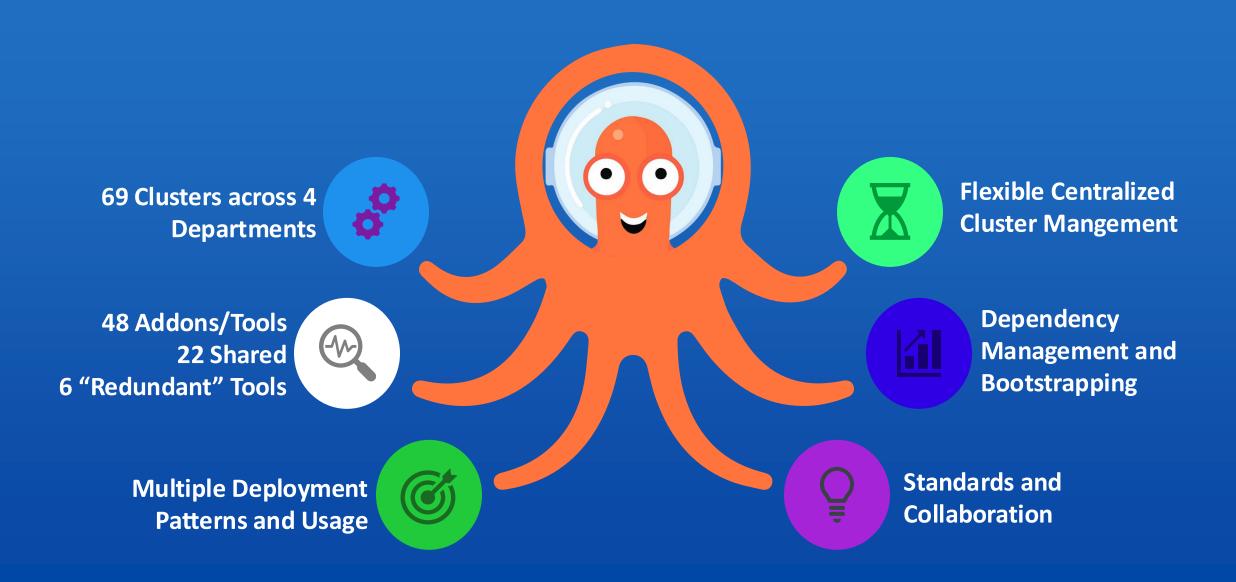
Enablers





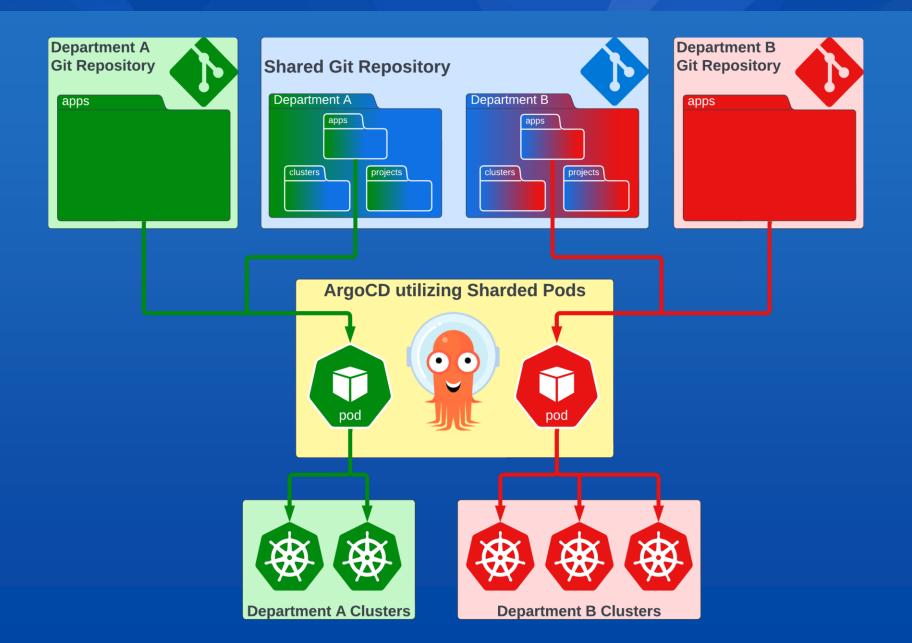
Multi Tenant ArgoCD





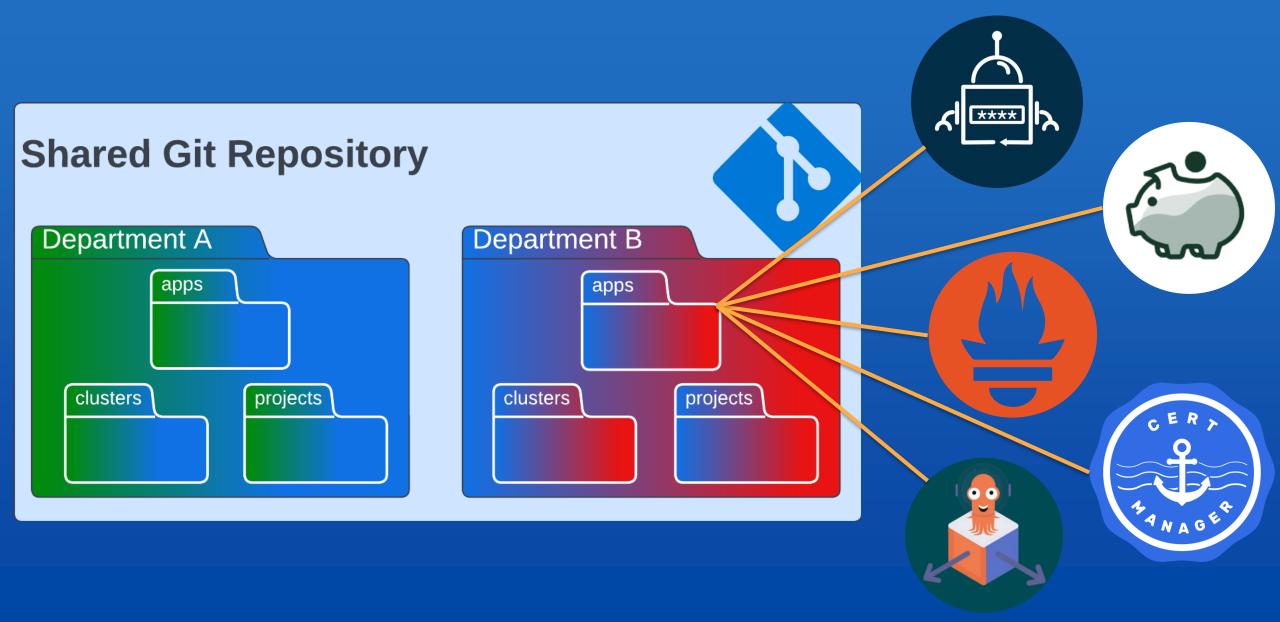
Flexible Central Management





Dependency Management and Collaboration





Other Major Tools Adopted



External Secrets Operator

Security – Modularity – GitOps – Department Alignment



Harbor

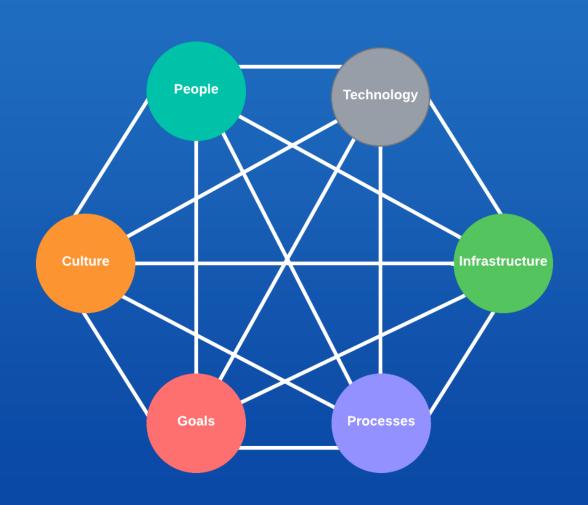
Security – Pull-Through Cache – Multi-Tenancy



OpenCost

Multi-Cluster – Collaboration – Cost Sharing







soh-shee-oh-TECK-nuh-kuhl



Team started with zero knowledge in TypeScript





Team started with zero knowledge in TypeScript

Assorted Backgrounds and Experience Levels





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Fill in the gaps



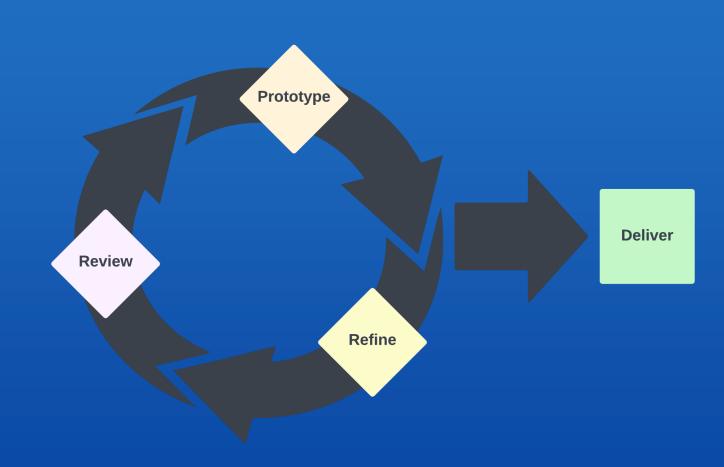


Team started with zero knowledge in TypeScript

Assorted Backgrounds and Experience Levels

Fill in the gaps

Rapid prototyping



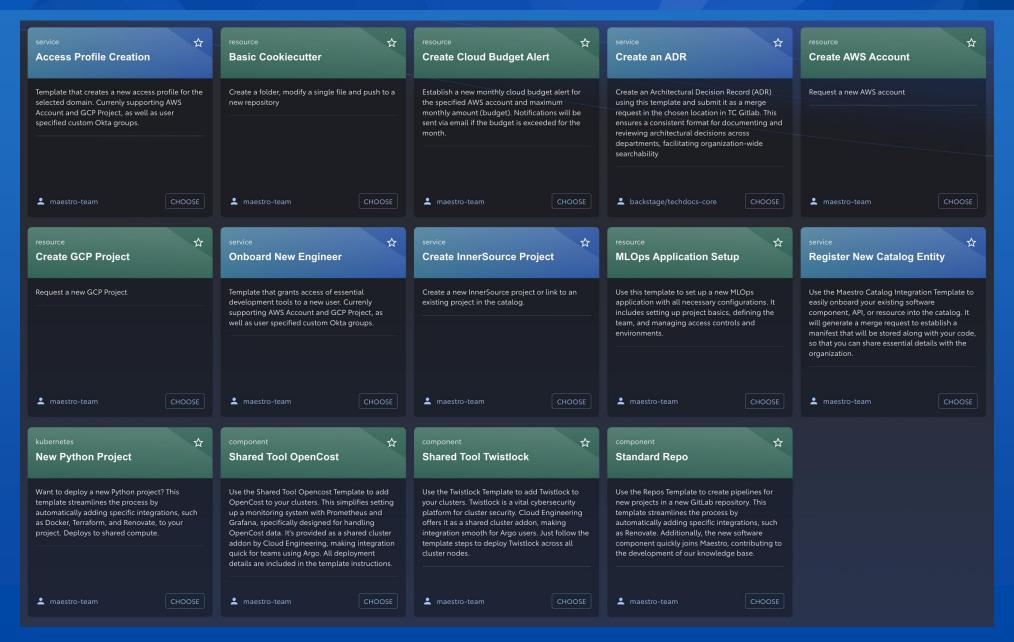
Maestro – In Concert





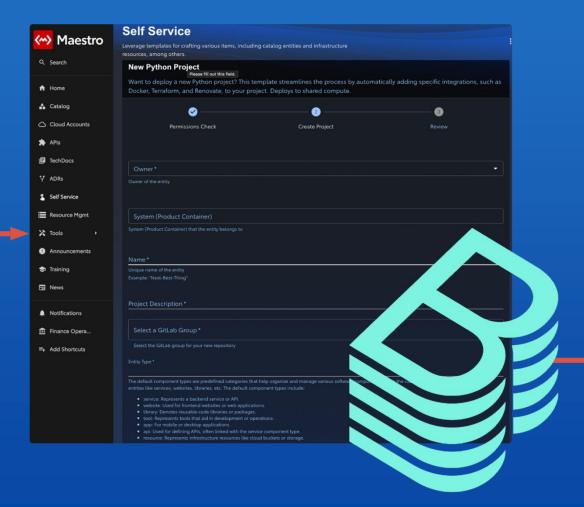
Self-Serve!



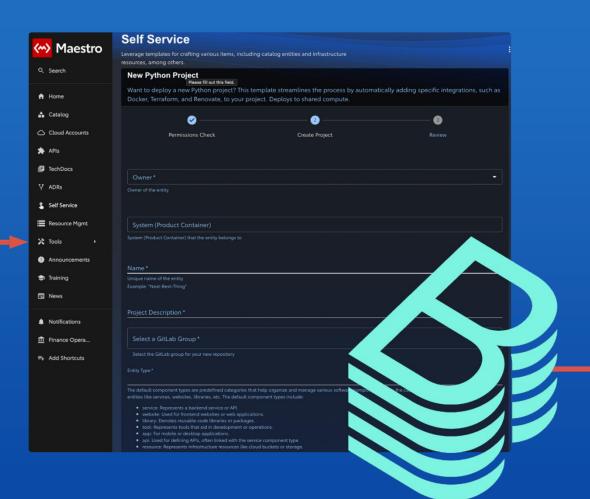


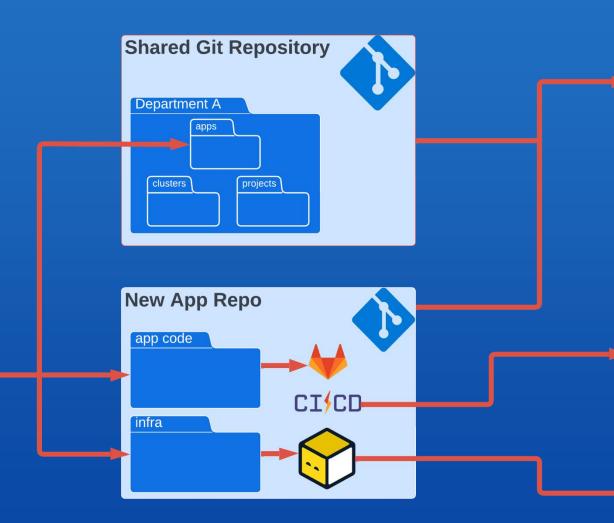




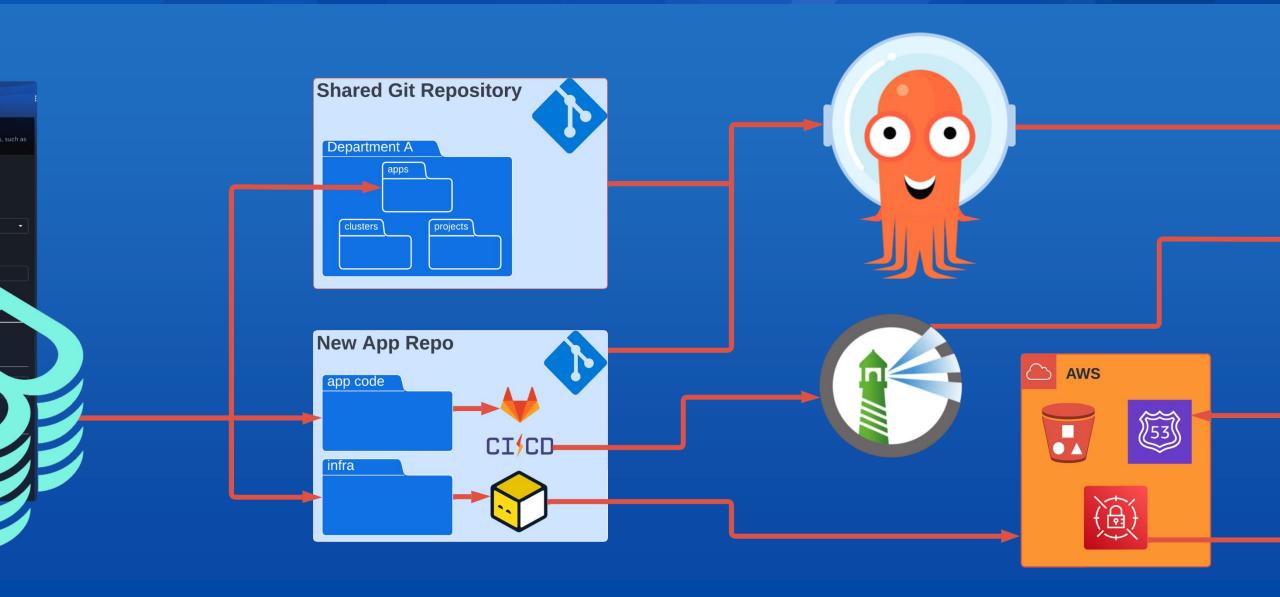




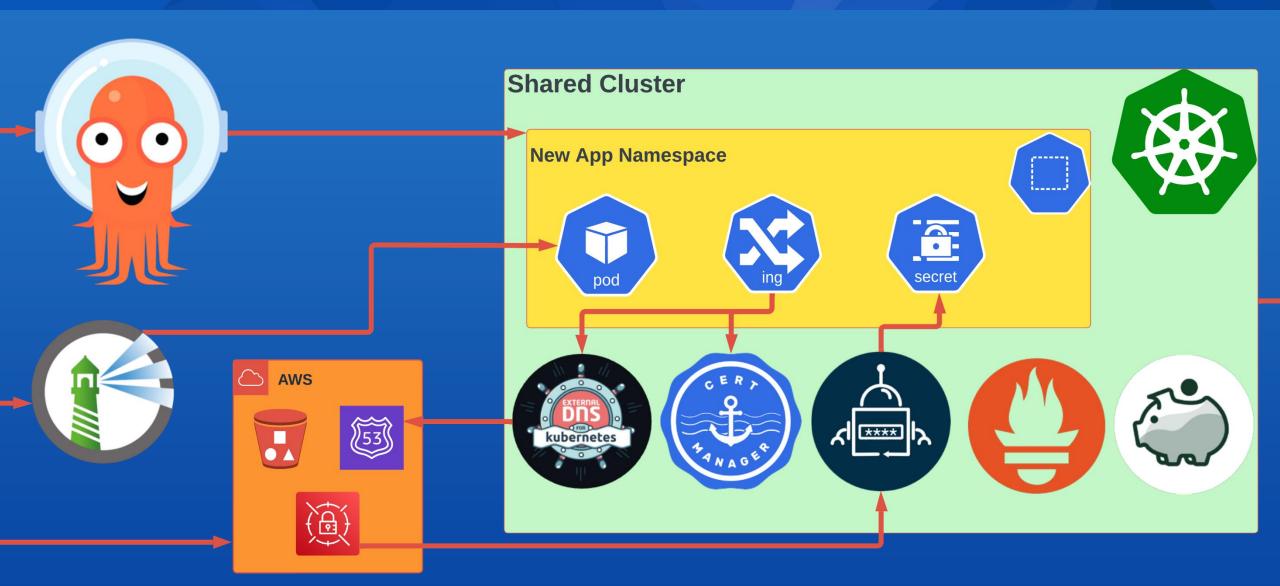






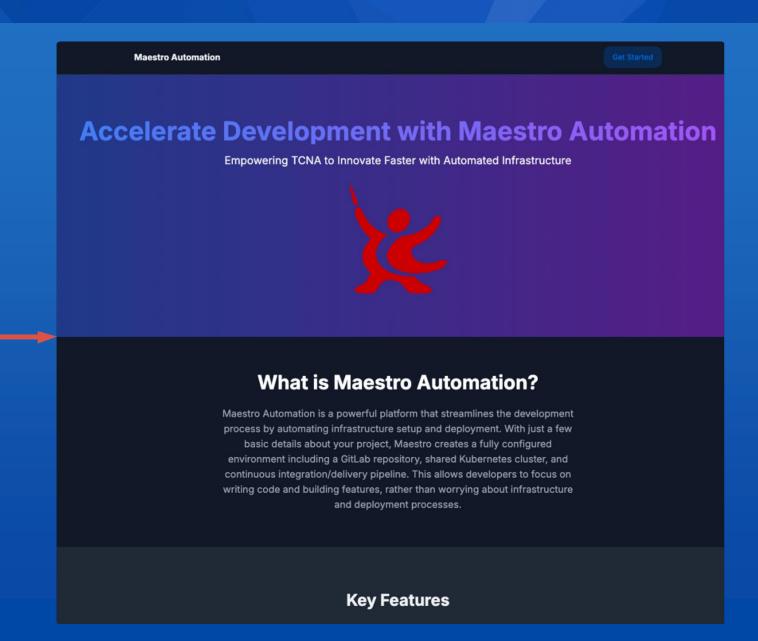












Outcomes













