WHAT IS SRE?

SRE is a practice that brings together the worlds of software engineering and IT operations. By leveraging SRE principles, organizations gain several advantages, such as improved observability into service health to understand their performance better, improved collaboration between developers and ops personnel to reach goals faster, and increased automation capabilities with associated time-to-market benefits from greater transparency & visibility. Ultimately this makes operations an integral part of value creation while increasing reliability throughout a business's services & systems.

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SRE VALUE
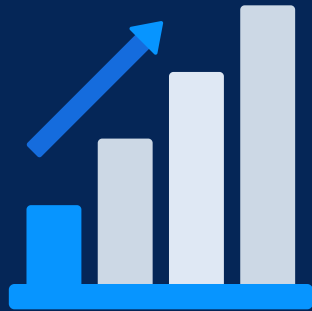
Increase Agility

- **FASTER DEPLOYMENTS, UPDATES & PATCHES**
- FLAT LEARNING CURVE
- LEVERAGE CONTAINERS & KUBERNETES
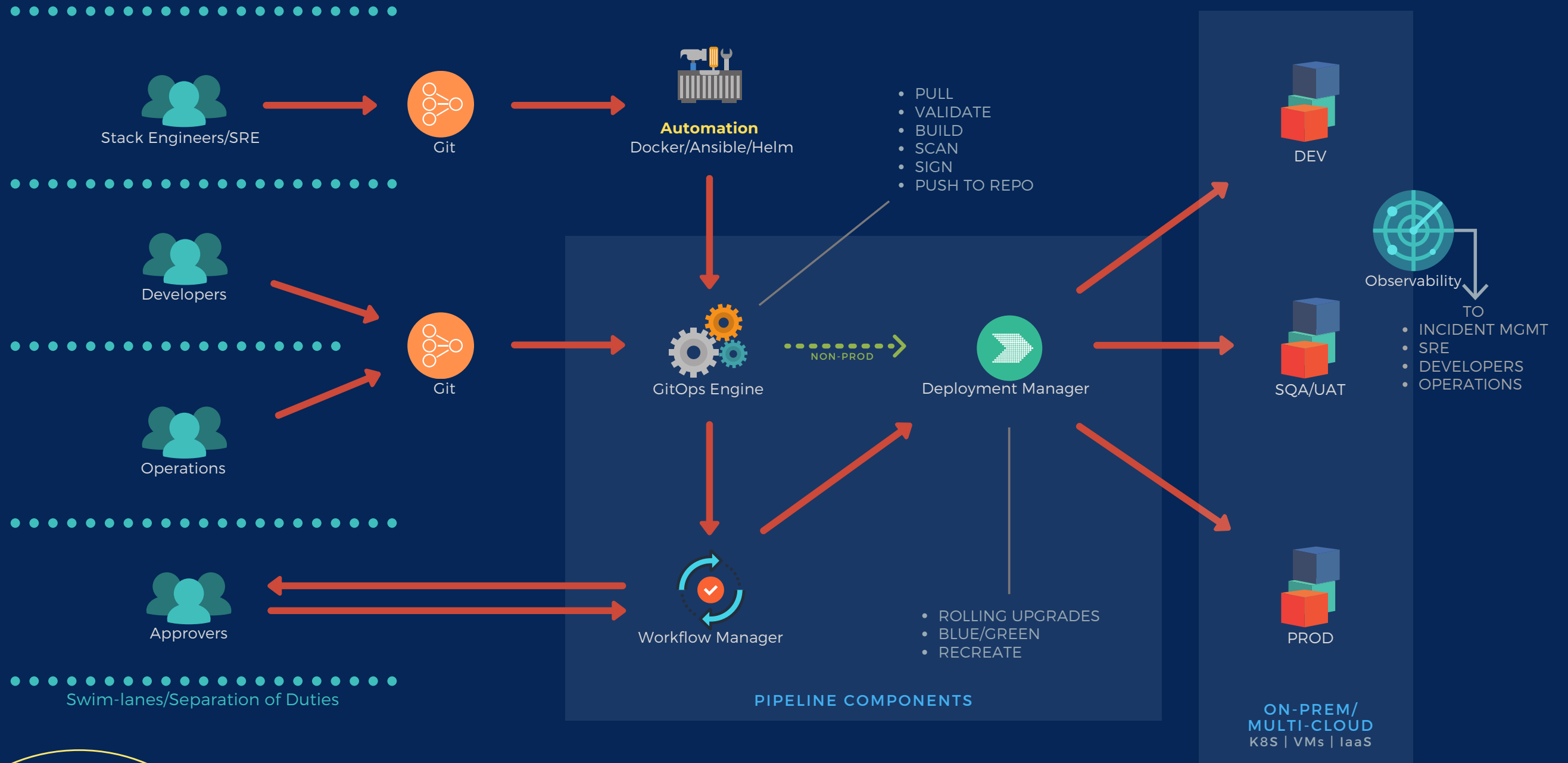- DEPLOY IN MINUTES INTO KUBERNETES ANYWHERE
- END-TO-END GITOPS

Reduce Risk

- **REDUCE SECURITY, RESILIENCY & OPERATIONAL RISKS**
- RISK MITIGATED CONFIGURATIONS
- HARDENED IMAGES
- ZERO PRIVILEGED ACCESS
- ENTERPRISE-GRADE CONTROLS

Reduce Cost

- **REDUCE STAFF, CLOUD, NETWORK, SOFWARE & OPERATIONAL COSTS**
- AUTOMATED MIGRATIONS, DEPLOYMENTS & OPERATIONS
- SELF HEALING + AUTOSCALING
- AUTO PATCHING/UPGRADING
- BUILT-IN OBSERVALIBILITY & AUDITABLITY

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REFERENCE IMPLEMENTATION

Stack Engineers/SRE → Git → **Automation** Docker/Ansible/Helm

- PULL
- VALIDATE
- BUILD
- SCAN
- SIGN
- PUSH TO REPO

Developers

Operations → Git → **GitOps Engine** → NON-PROD → **Deployment Manager**

Approvers ⇄ **Workflow Manager**

Swim-lanes/Separation of Duties

- ROLLING UPGRADES
- BLUE/GREEN
- RECREATE

PIPELINE COMPONENTS

DEV

SQA/UAT

PROD

ON-PREM/MULTI-CLOUD
K8S | VMs | IaaS

Observability

TO
- INCIDENT MGMT
- SRE
- DEVELOPERS
- OPERATIONS

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THANK YOU

Download whitepaper on SRE

lowtouch.cloud

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