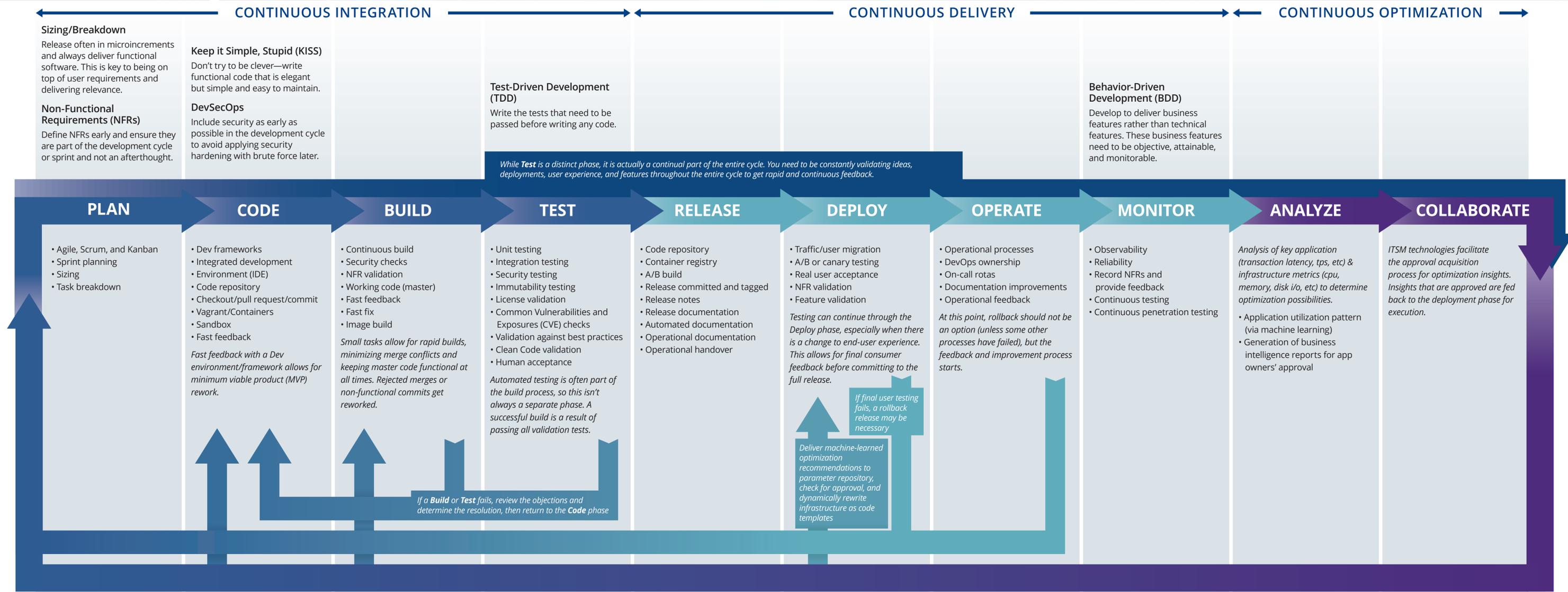


# THE CI/CD FRAMEWORK

The arrival of modern technologies like containers and the emergence of architectures like *Continuous Integration and Continuous Delivery* (CI/CD) have made the practice of software development increasingly complex—and overwhelming. There is no best practice guide, no one size fits all, and good looks different for everyone.

The framework below endeavors to demystify these complexities and create an accepted, best-of-breed lifecycle that provides a solid foundation, around which you can build your organization's plan—and achieve your goals.



<b>SCRUM &amp; AGILE</b> asana, Planview LeanKit, servicenow, Jira, Trello	<b>CONTAINERS</b> Vagrant, docker, PrivatePacker	<b>BUILD PIPELINES</b> Travis CI, GO, Jenkins, circleci, GitLab, Bamboo	<b>DEVOPS TOOLS</b> CloudBees, PIPELINES, docker, Jenkins	<b>CODE REPOSITORIES</b> GitHub, Amazon S3	<b>KEY MANAGEMENT</b> Vault, Red Hat Ansible	<b>SECURITY</b> Falco, kubeScan, TUF, NewVector, Notary, clair, BLACKBUCK, anchore, sysdig	<b>MONITORING</b> Dynatrace, APPOINTMENTS, OPERATRACK, Prometheus, Splunk, New Relic, OPENMETRICS, INSTANA, zenoss	<b>OPTIMIZATION</b> Densify	<b>CHANGE MANAGEMENT &amp; ITSM</b> PagerDuty, matters, Jira Service Desk, servicenow, zendesk, cherrwell
<b>FRAMEWORKS</b> React, ANGULAR, Laravel, GWT, Ember, spring, Symfony, Rails	<b>INTEGRATED DEVELOPMENT ENVIRONMENTS (IDES)</b> zend, Emacs, Visual Studio, Selenium, eclipse	<b>TESTING</b> JS Hint, ESLint, sonarqube	<b>DEPLOYMENT AUTOMATION</b> Jenkins, Consul, HELM, Bamboo	<b>CONTAINER REGISTRIES</b> HARBOR, Red Hat OpenShift, Docker Hub, Amazon ECR, ARTIFACTORY, Google Cloud Container Registry	<b>DEPLOYMENT &amp; CONFIGURATION MANAGEMENT</b> BOSH, puppet, CHEF, Red Hat Ansible, SALTSTACK, Terraform, Packer	<b>ORCHESTRATION</b> Nomad, Cloudify, digital.ai	<b>KUBERNETES ORCHESTRATION</b> kubernetes, Amazon EKS, VMware Tanzu, AWS, RANCHER, Red Hat OpenShift, OKE		
<b>SOURCE CONTROL</b> GitHub, Bitbucket, GILLAB		<b>SECURITY VALIDATION</b> aqua, sysdig, PRISMA		<b>PARAMETER REPOSITORIES</b> AWS Parameter Store, Azure Key Vault, Google Secret Manager	<b>OVERLAY/SERVICE MESH</b> Istio, envoy, NGINX, AVI				