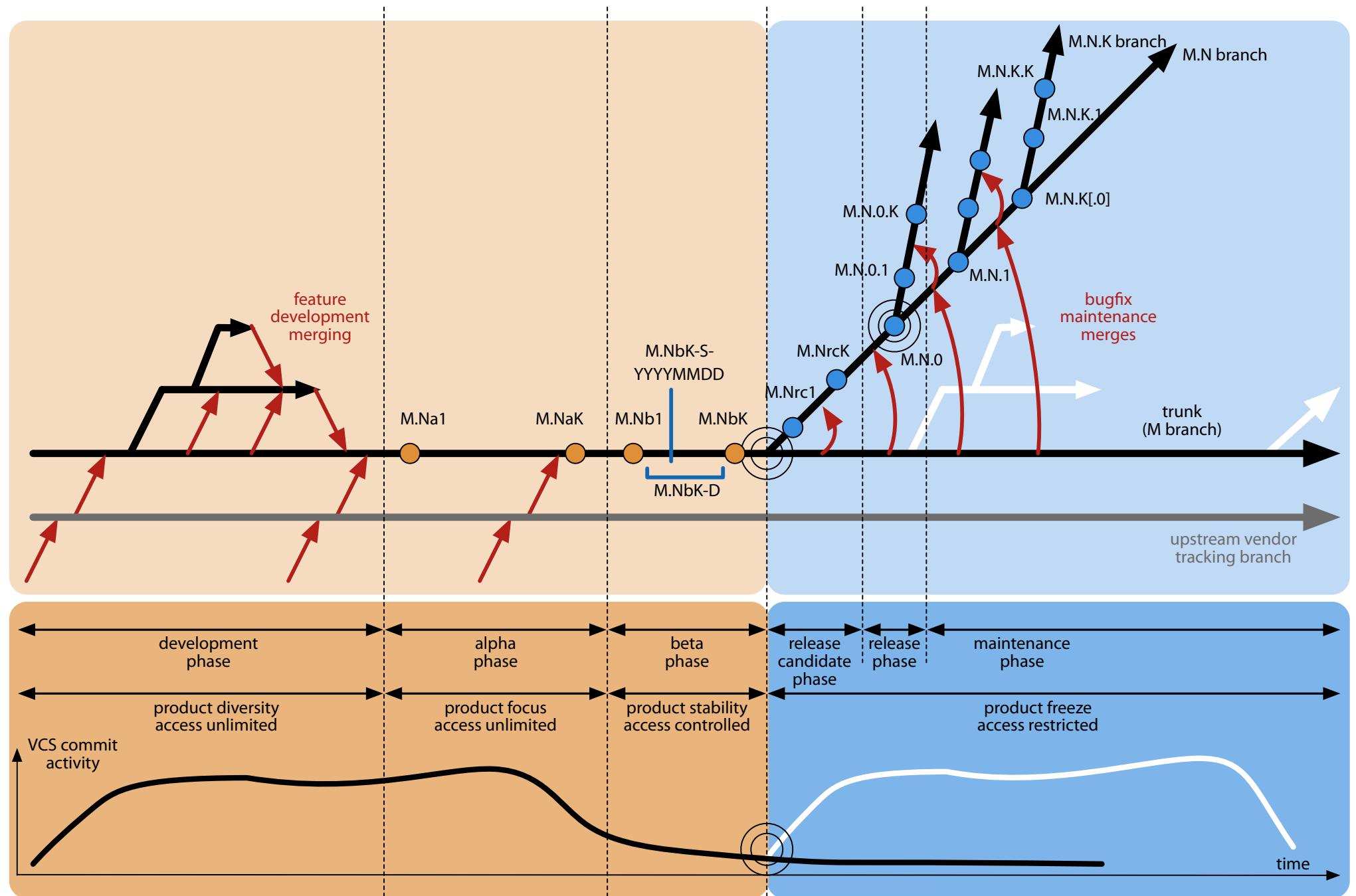




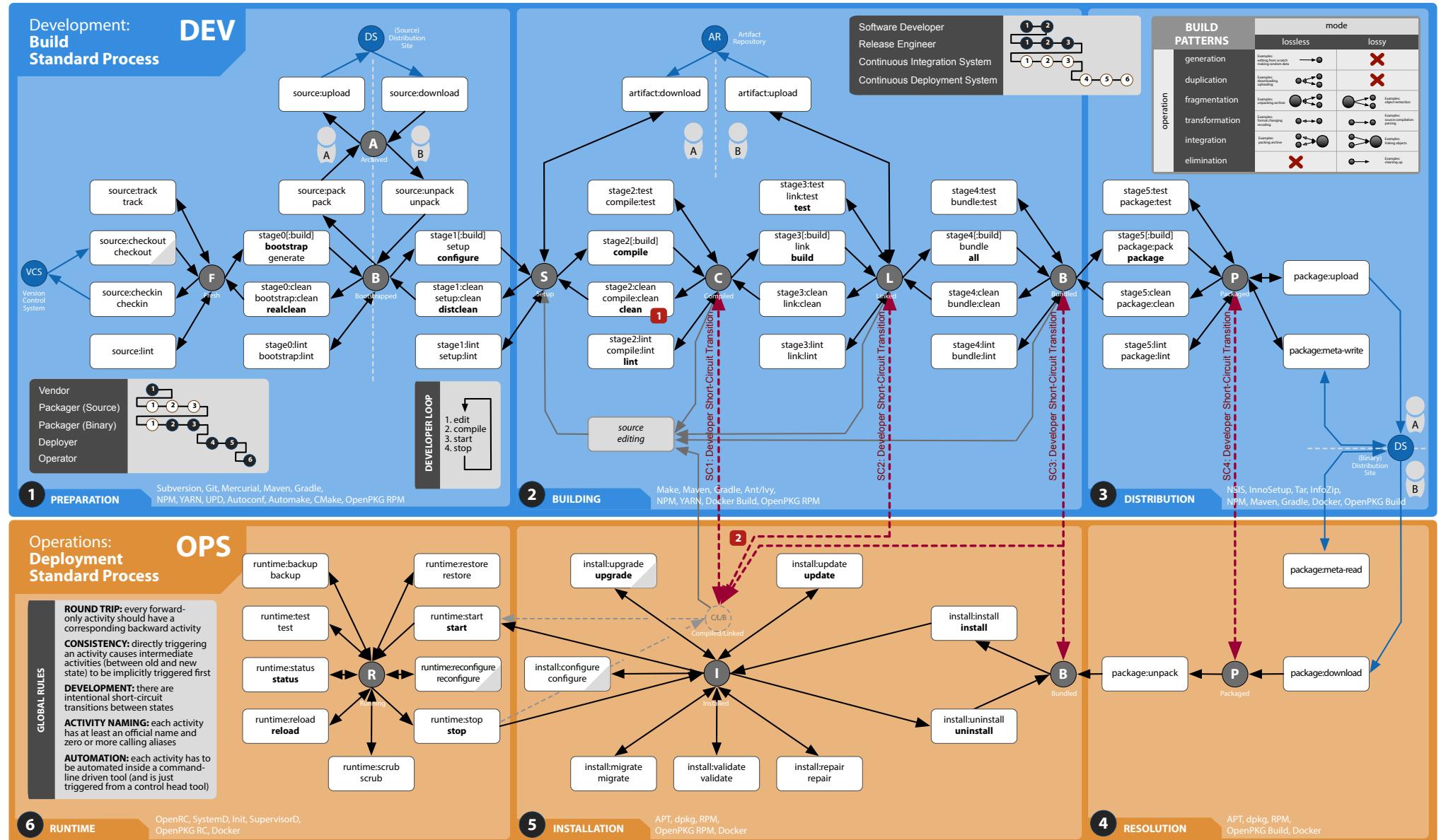
TECHNISCHE
UNIVERSITÄT
MÜNCHEN

Software Engineering in Industrial Practice (SEIP)

Dr. Ralf S. Engelschall



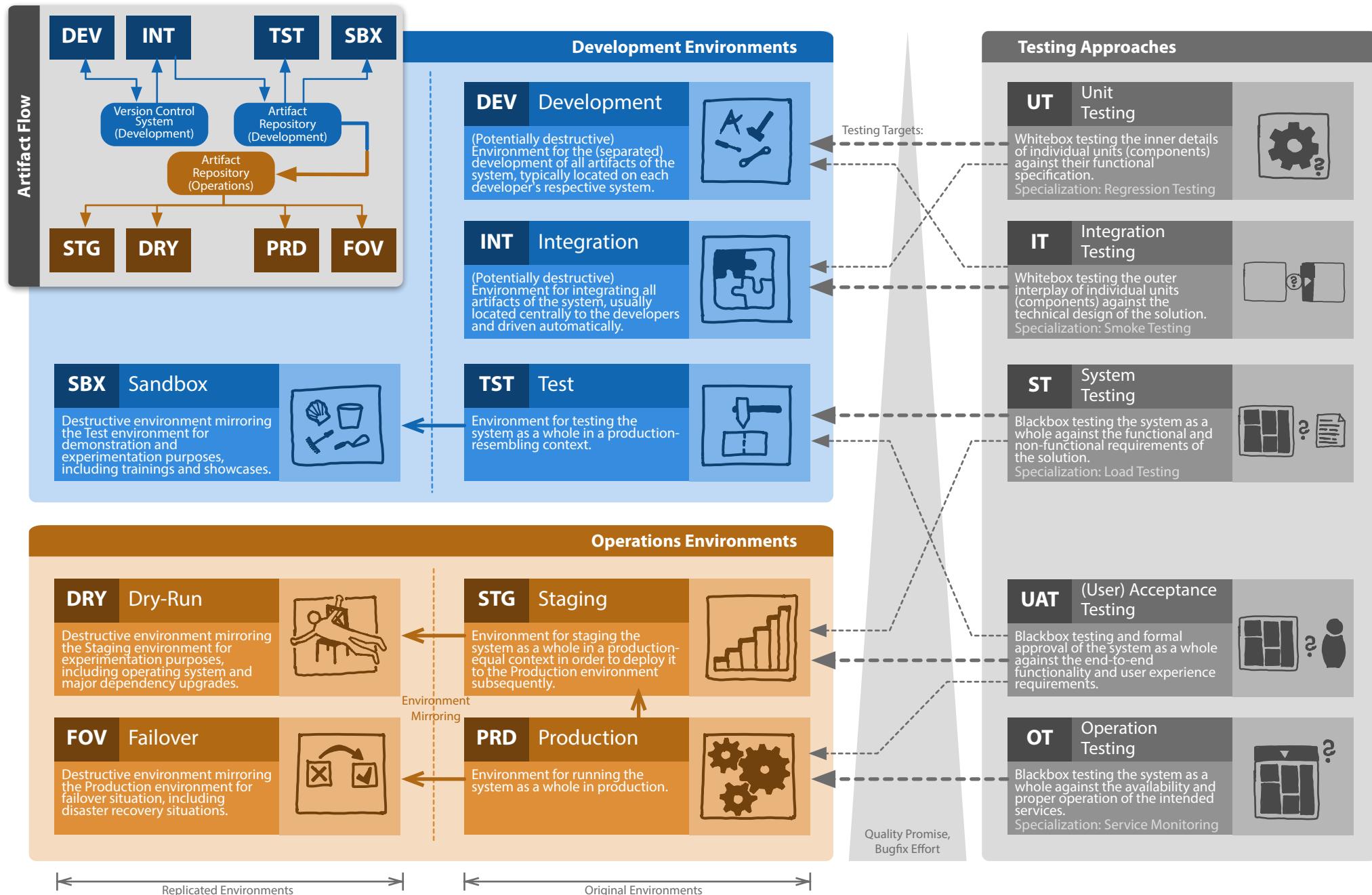
Assembly Process Architecture



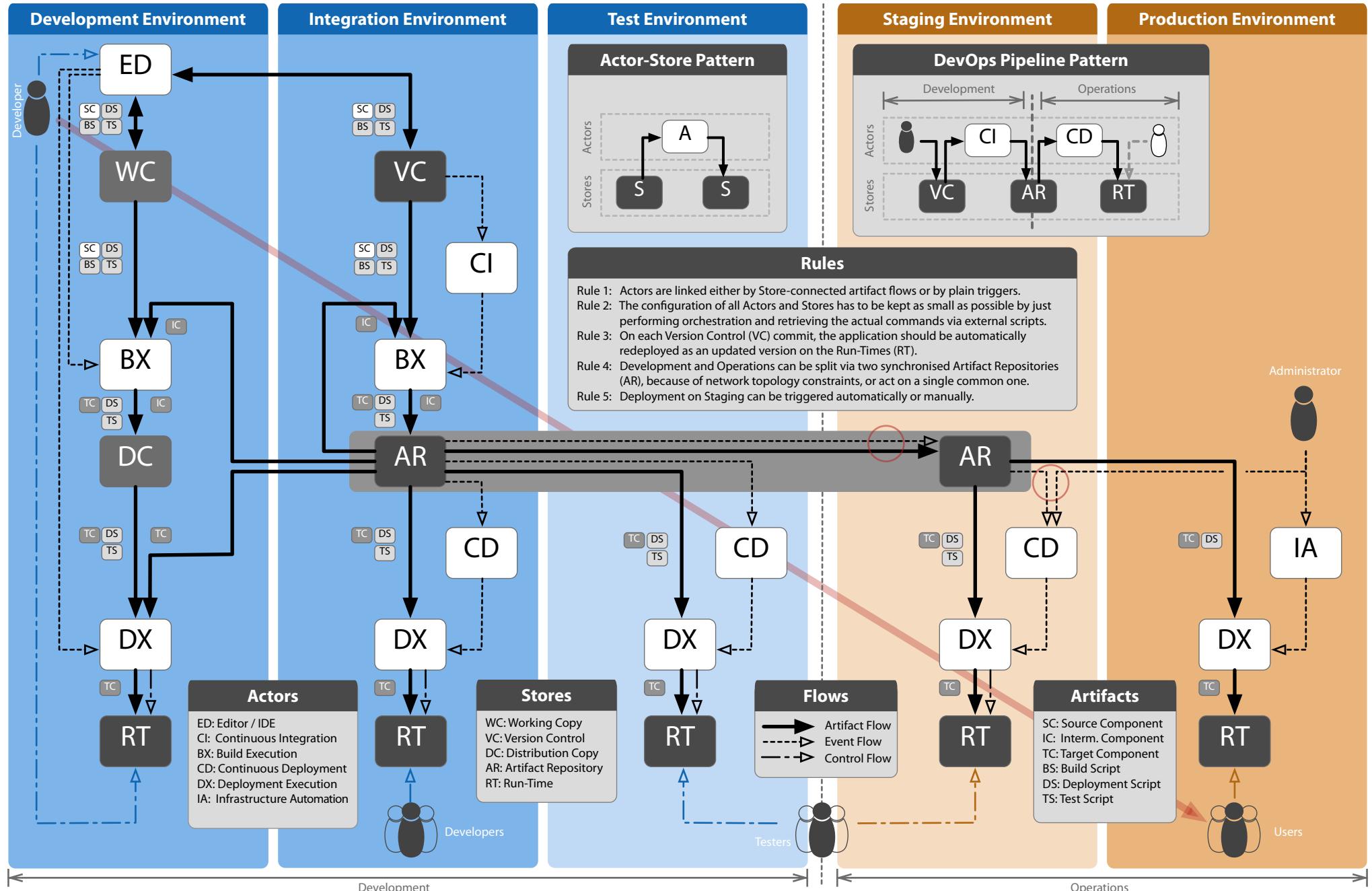
X External State/Resource
X Process State

→ State Transition
-→ State Transition (short-circuit)
→ State Transition (external)

XXX Process Activity (semi-automated or automated)
XXX Process Activity (manually or semi-automated)



DevOps Toolchain



Evolution Stage		What?
WF	Wireframe	WS Walking Skeleton
		Realization of all technical, fundamental aspects of the solution, ensuring the domain specific aspects can be realized later on top of it without problems.
PT	Prototype	MVP Minimum-Viable Product
		Early version of solution with just enough functionality to enable full turn of Build-Measure-Learn loop with minimal amount of effort and time.
PoC	Proof of Concept	FP Full Product
		Pure realization of most-risky aspects of the solution, proofing their feasibilities. Might still be based on a different technology than WS, MVP and FP.
		Final version of the solution with all intended functionality and targeting the mainstream market.

arbitrary technology target technology

Version Number		When?
M	Major Version	Major Version of solution. Usually bumped on major technical or domain-specific changes only. A bump resets the Minor Version and the Revision, too.
N	Minor Version	Minor Version of the solution within the Major Version. Usually bumped on new features. A bump resets the Revision, too.
R	Revision	The Revision of the Release Phase within Major and Minor Version. Bumped for every A/B/C/R Release Phase.

Release Phase (p)		When?
A	Alpha	Early version of the solution with incomplete and unstable functionalities to get feedback on product. Usually tagged as "M.NaR" (R > 0).
B	Beta	Early version of the solution with complete but still unstable functionalities to stabilise product. Usually tagged as "M.NbR" (R > 0).
C	Candidate	Mature version of solution with complete and stable functionalities to catch last-minute problems. Usually tagged as "M.NrcR" (R > 0) around RTM.
R	Release	Release version of the solution with complete and stable functionalities, available for production use. Usually tagged as "M.N.R" (R >= 0).

Points-In-Time (PiT)		When?
DEV	Development	Arbitrary permanent points-in-time during development. This is the default tag for the source code. Intended for no availability releases.
SNP	Snapshot	Distinct temporary point-in-time for a release of the current version without a version increase. Intended for limited availability releases.
REL	Release	Distinct temporary point-in-time for a release of the current version with a version increase. Intended for early and general availability releases.

Product Edition		which?
CE	Community Edition	STD Standard Edition
		Edition of the solution for the Open Source Community. Contains just the base functionality and has limited volunteering support.
EE	Enterprise Edition	PRO Professional Edition
		Edition of the solution with both the standard and extra functionalities and has full commercial support.

Availability Scope (S)		Who?
XA	No Availability	EA Early Availability
	No public availability of solution at all. The scope for all Development and sometimes Snapshot point-in-times.	Early public availability of solution for early market. Usually for Beta or Release Candidate levels or for Release and initial Release Update levels.
LA	Limited Availability	GA General Availability
	Limited public availability of solution. Usually for releases after the End-of-Life-Announcement (EOLA) or for releases with specific customer features.	Late public availability of solution for mainstream market. Usually for Release and sometimes just for Release Update levels.

Distribution Channel		Where?
BLEED	Bleed Channel	STABLE Stable Channel
	Distribution channel for all daily snapshots ("YYYY.MM.DD") with experimental features turned on. Intended for testing purposes only.	Distribution channel for all quarterly releases ("YYYY.QN") with experimental features turned off. Intended for fast mainstream market and production use.
EDGE	Edge Channel	SOLID Solid Channel
	Distribution channel for all monthly releases ("YYYY.MM") with experimental features turned on. Intended for early market or testing purposes.	Distribution channel for all (half-)year releases ("YYYY[N]J") with experimental features turned off. Intended for slow mainstream market and production use.

