

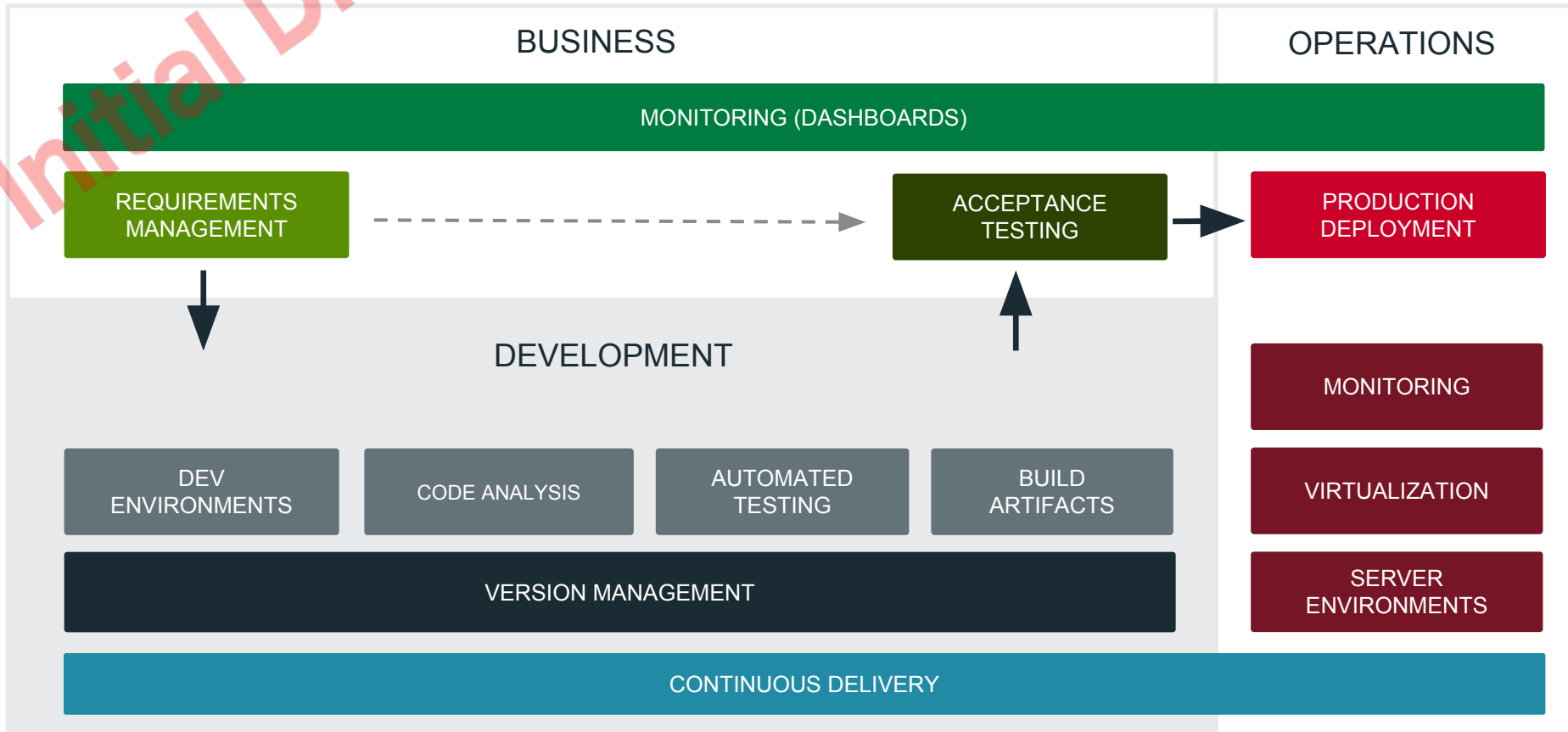
Initial Draft



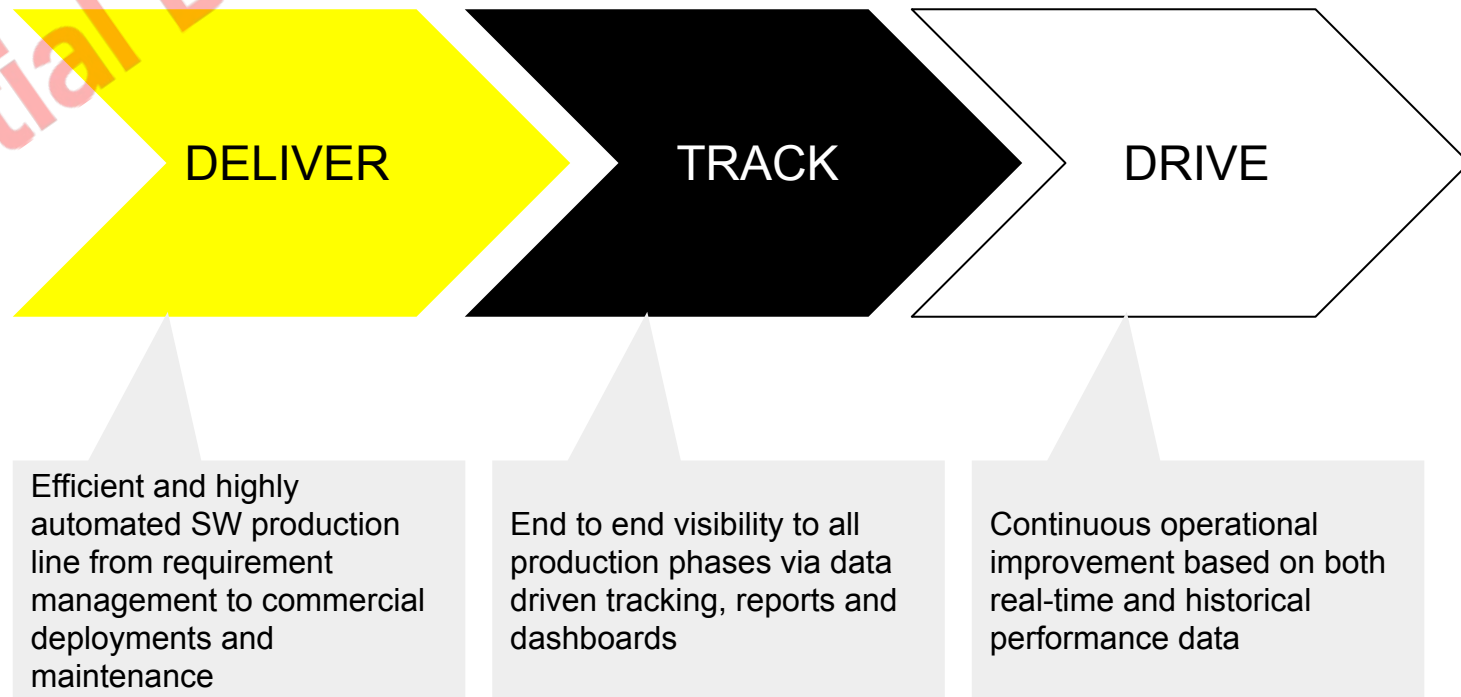
New Violin

DevOps development plan – initial findings

DEVOPS DEVELOPMENT MODEL



DEVOPS TRANSFORMATION JOURNEY



Initial Draft

VOLVO IT KPIs:

Reduce Lead-time
Increase Quality

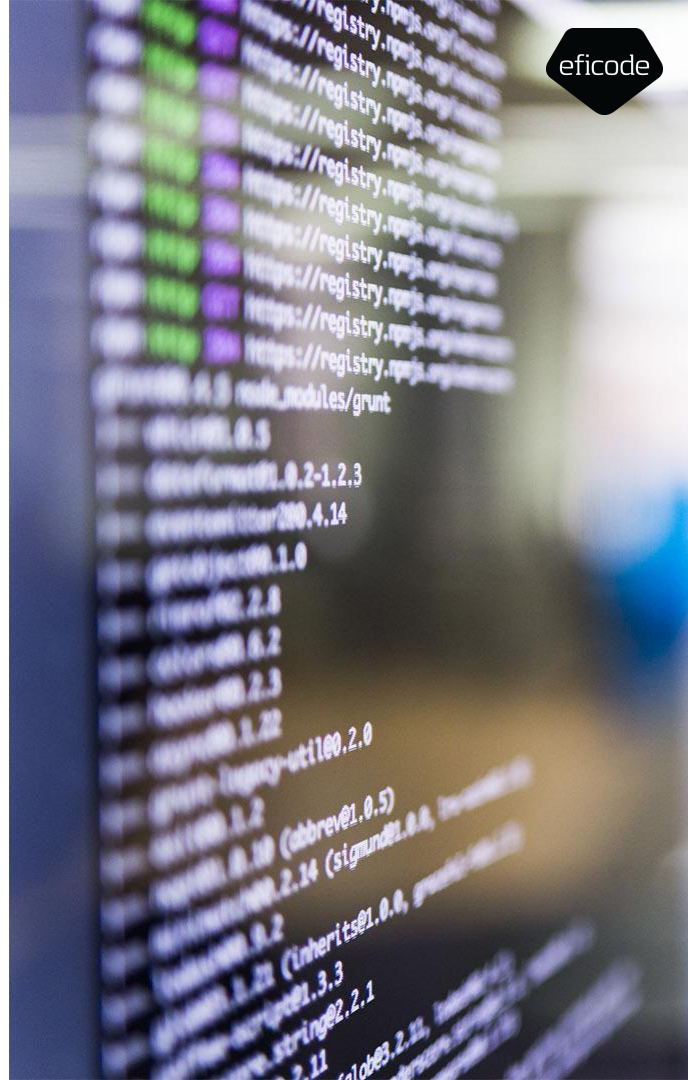
KEY FINDINGS - Personnel

- Competent technical team
- Good team spirit, will and possibility to improve
- Communication is working pretty good
 - Same location is beneficial
 - Slightly siloed knowledge in Dev and QA
- Appropriate roles on personnel
- Sharing people between projects
 - Good to acquire and share knowledge
 - May cause task switching and peaks



KEY FINDINGS - Culture

- Clear separation of responsibilities
 - Developers
 - Testers
 - AO-team
- Long and frequent meetings
 - Have meetings only when needed
 - Make meetings short



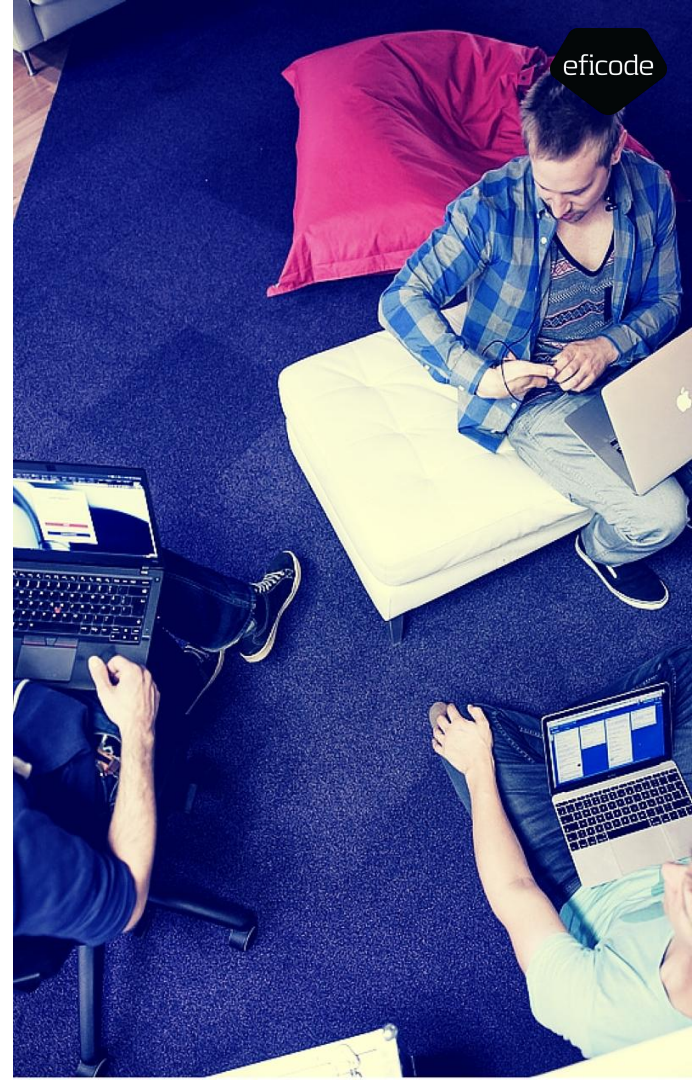
KEY FINDINGS - Processes

- Segregated process
 - First development
 - Then testing
 - Then deployment
 - Then operation
- By definition not Scrum, not Waterfall, not Kanban



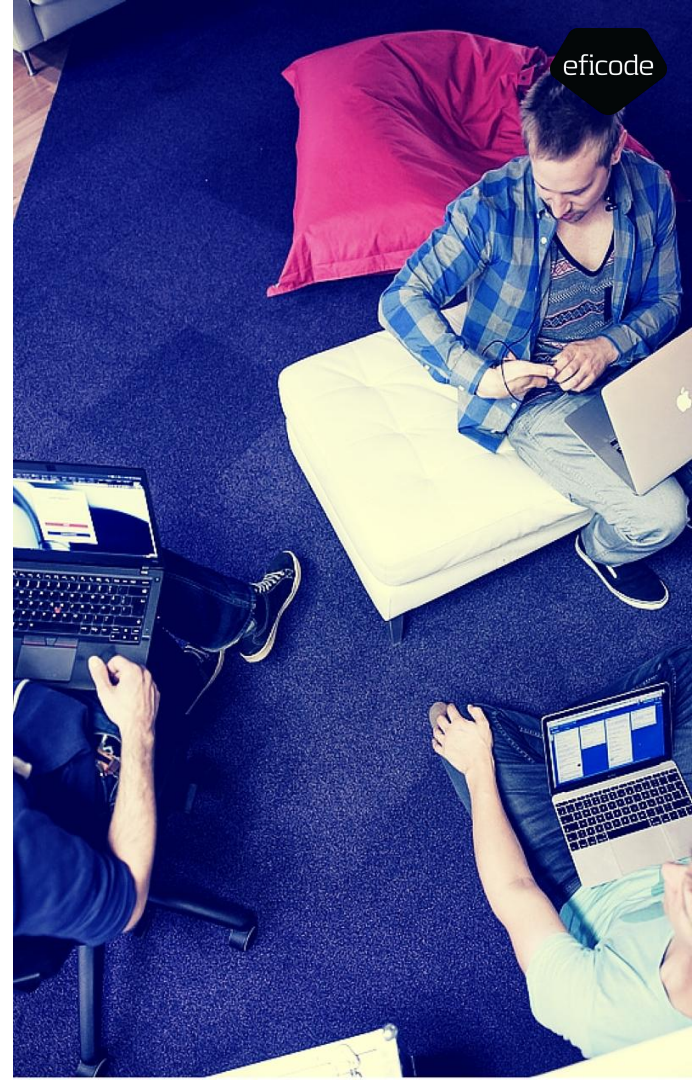
KEY FINDINGS - CI

- No real continuous integration
 - Manually triggered automatic component builds
 - Manual deployments of artifacts
 - No automatic test execution
 - Nightly build exist but not operational (yet)
- Version control
 - All in trunk
 - Tests and code separated
 - No feature branches
 - Release branches exist



KEY FINDINGS - CI

- No dependency management
- Dedicated CI machine missing
- Microsoft Team Services might be an alternative



KEY FINDINGS - Testing

- Test automation on a good level
 - Automation level high (~80%)
 - Coverage high (~80%)
- Direction towards 100 % test automation level
- Unit tests do not exist
 - SharePoint mocking makes heavy to do
- Test reporting is complicated
 - Some automated, some manual
 - Getting an overall view takes some effort



KEY FINDINGS - Testing

- Developers can't execute tests
 - Don't know how
 - Visual Studio ultimate required
 - Selenium is market leading open source tool
- Feedback cycle is long
 - Developers wait for QA to report test results
 - Automated regression test set missing



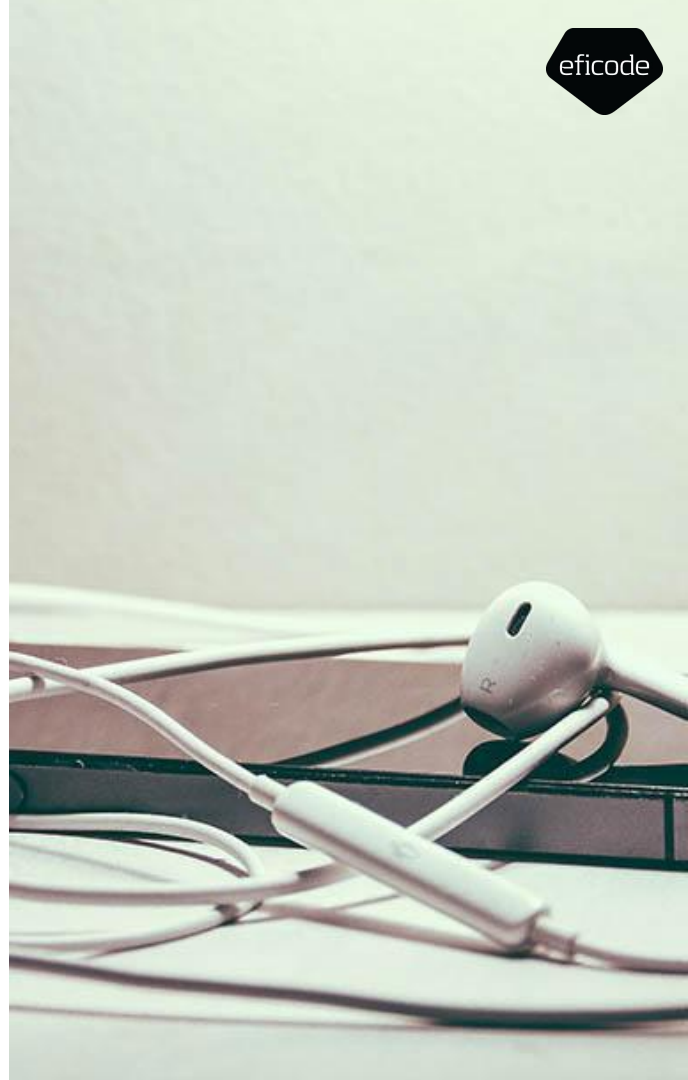
KEY FINDINGS - Releases

- Big and slow releases
 - Release cycle about 2 months
 - Many changes in a release
 - Either push feature to release or wait a long time
 - Emergency releases
 - Limited release date options
 - Releases cause downtime
- Inflexible and slow process
 - Manual process
 - Instructions documented in a Word doc
 - Minimum theoretical release cycle time 3 weeks
 - 10 day freeze before production



KEY FINDINGS – Cloud Strategy

- Azure & AWS offer SharePoint server on a click
 - Customizable servers
 - Feasible even now
 - Operations in Poland team
- Microsoft offers SharePoint online
 - No operations work
 - Microsoft dictates features and patches
- Pros
 - Cost reduction
 - Deploy automatically any time you want



KEY FINDINGS – WIDER ISSUES

- Tools are not optimal for development
- Collaboration with HCL
 - Slow response time
 - Inflexible processes



OTHER KEY FINDINGS

- KPI prioritization
 - Emphasis on stability
 - Pressure towards release infrequency
- Communication is mostly based on talking
 - Skype, face-to-face or meetings
 - Need to be present
- Good attitude towards new ways of working
 - Avoid complacency
 - Be stubborn



Initial Draft



THANK YOU