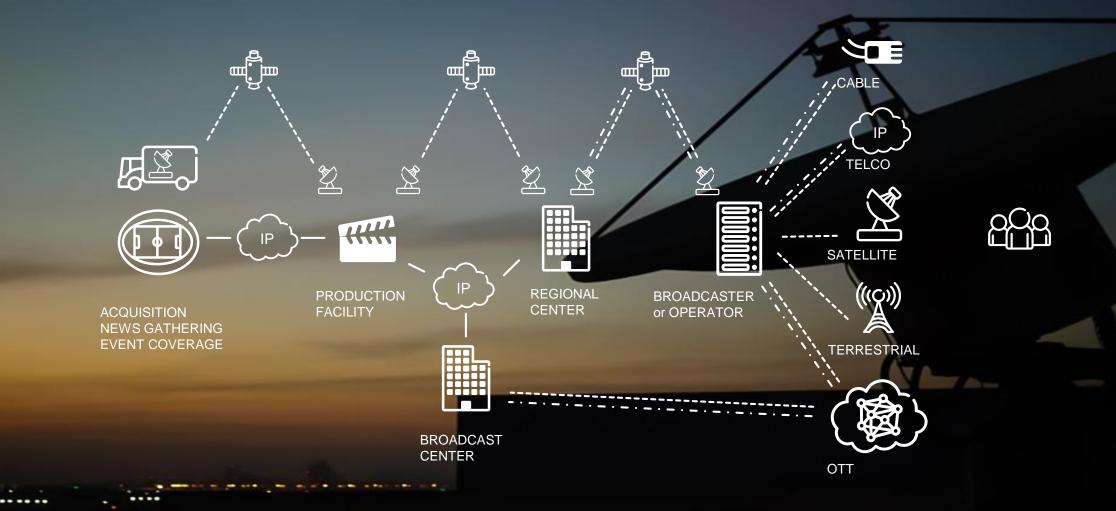


# CI @ ERICSSON TV

Daniel Laird Head of Software Control / Processing

#### WHAT DO WE DO?



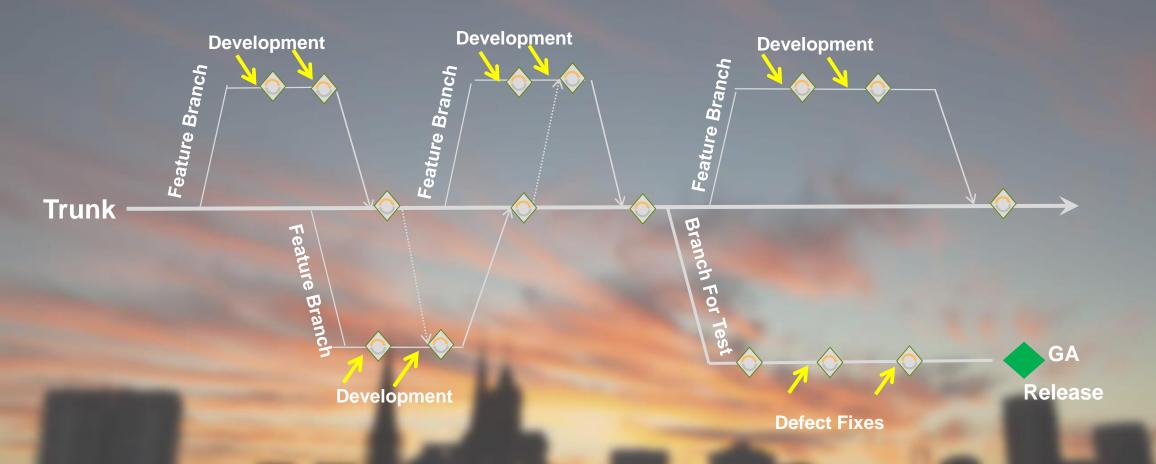
#### KEY CHALLENGES



- > Branch based Development
  - Not true CI, but a commercial necessity
  - Engineering 'Agility' is not the same as 'Customer Agility'
- > Bespoke Test Environment generation
  - Engineers building bespoke infrastructure to test features is costly
- Works For Me.....
  - Bespoke Test Environments leads to 'Works For Me' problems
  - Unable to replicate problems or easily scale testing as required.

### CI TESTING DURING DEVELOPMENT







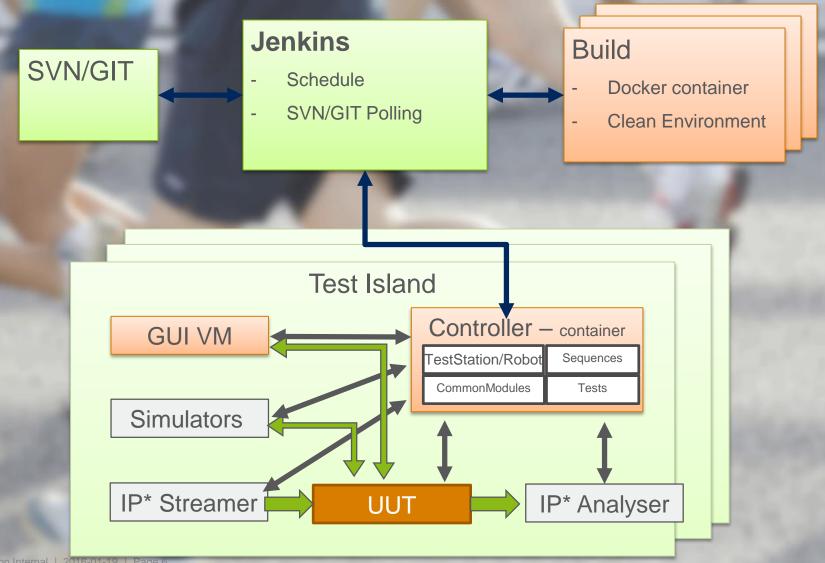
#### ISOLATED TESTING - "ISLANDS"



- Multiple test nodes to allow testing in parallel
- > All test nodes (islands) Isolated from each other
- All equipment in an 'island' is cleaned before test start
- Repeatable start condition
- Island equipment certified by "Commissioning test"
- Minimal configuration of test equipment (basic OS, IPs etc)
- Test Transport Streams (Source Material) is automatically deployed
- Jenkins Labels are used to specify the contents of the island.
  - Could talk about Jenkins for a long time.

## WHAT IS AN ISLAND?







#### "MANUAL RUNS"



- Engineers can run their own builds with debug increased
  - Product code uploaded from user PC
  - Test code uploaded from user PC
  - Individual tests can be run
  - Debug levels can be controlled
- If test runs correctly 'manually on the rig', it will run when committed to source control.
- Solves the "works for me" problem



# **ERICSSON**