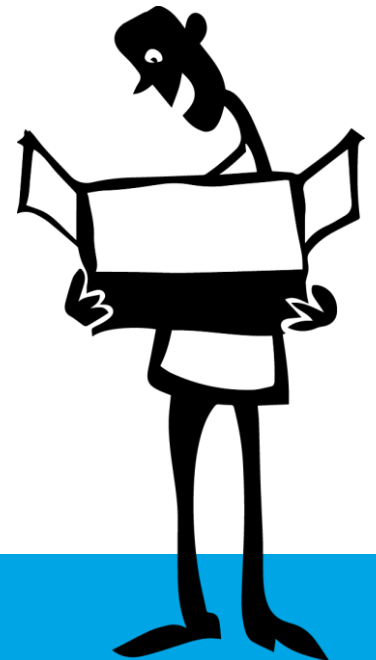


# Etteplan Test Day 2018

Successful production ramp-up  
Tester suppliers view

Ilpo Harjumäki 13.6.2018



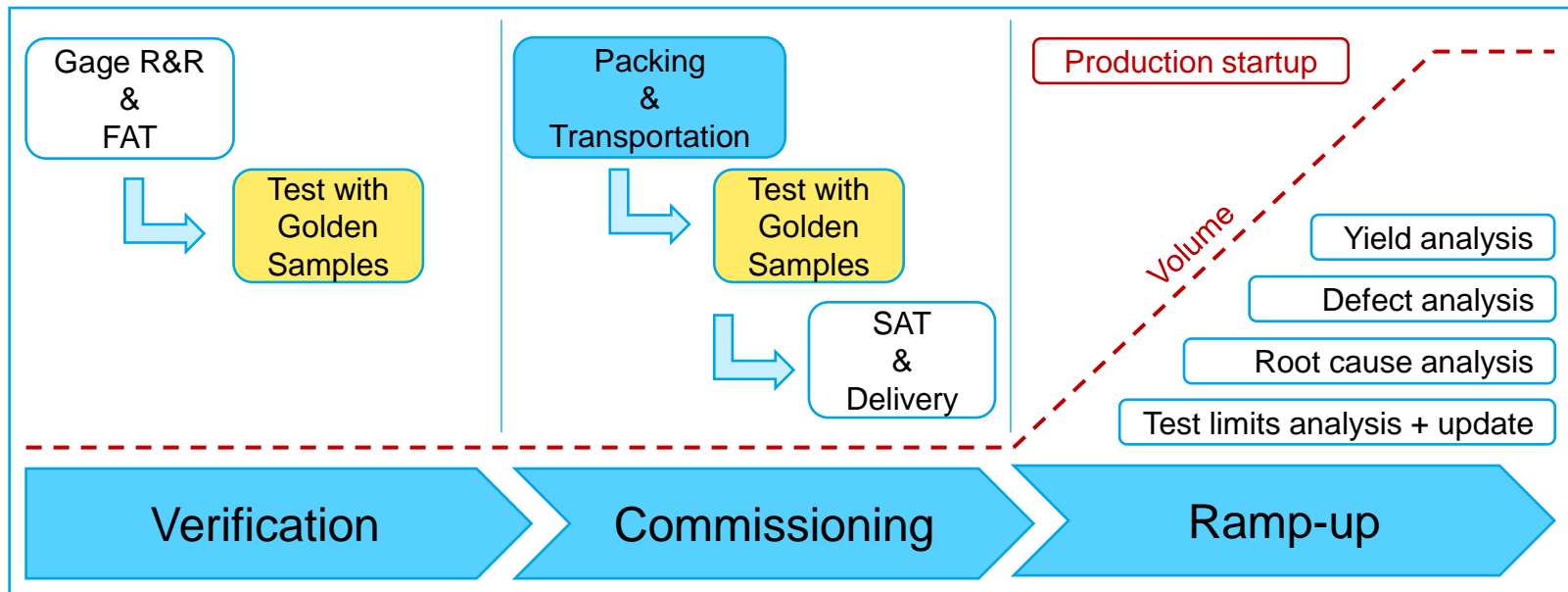
# What to Ramp-up?

- Mainly Functional Test System
- Ramp-up or Commissioning?
- Can we even talk about Tester ramp-up?
  
- Perhaps in other presentations?
  - Products and production
  - Stock and/or inventory
  - Production equipment's like pick n' place or soldering machines



# Process for successful production ramp-up

- Gage R&R proves that tests are repeatable
- FAT (Factory Acceptance Test)
- Golden Samples proves your system functionality
- SAT (Site Acceptance Test) document – Receipt of delivery
- Support with Production Ramp-up

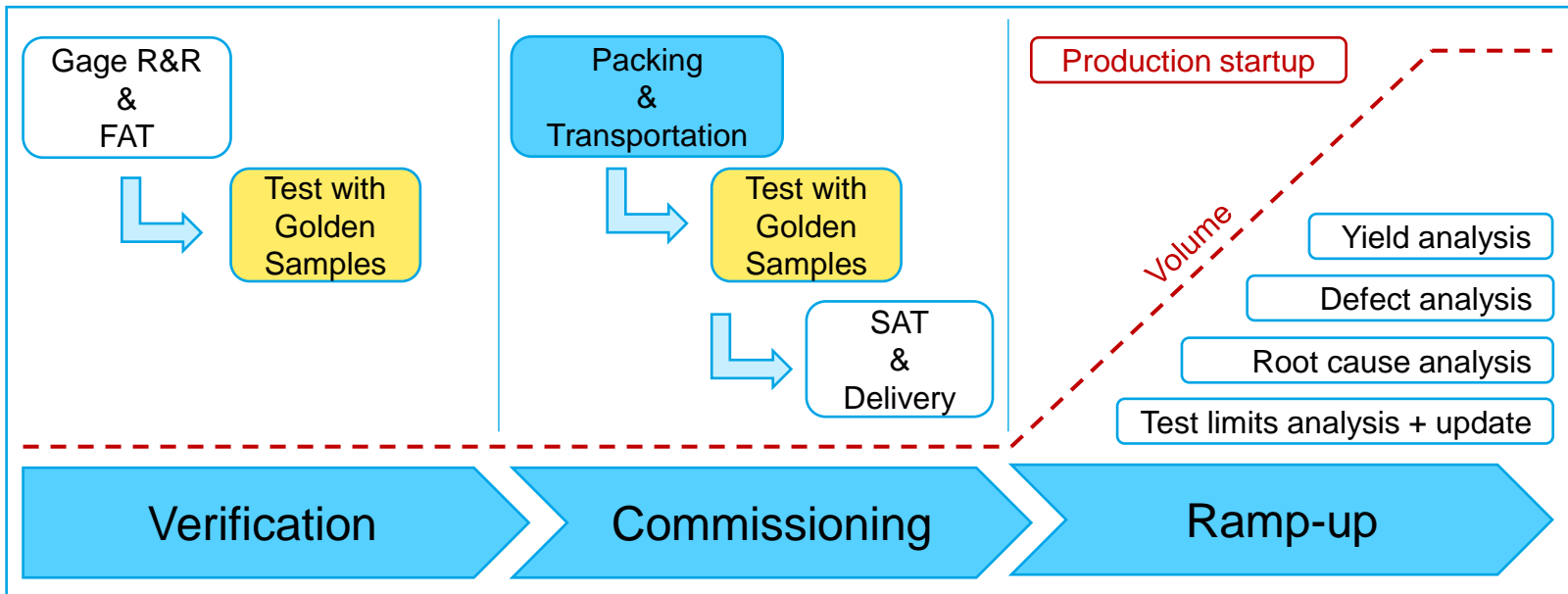


# What are the risks in ramp-up?

- Some cardboard and DHL – What else would you need? 😊



- No products for Gage runs → Tester Repeatability or performance unknown
- Transportation defects → Verify that delivery process hasn't interfered to system functionality or reliability.
- New product will damage tester → SAT and Hand Over before starting production testing
- Different manufacturer for proto boards and 0-series



# Engineering with a difference

