

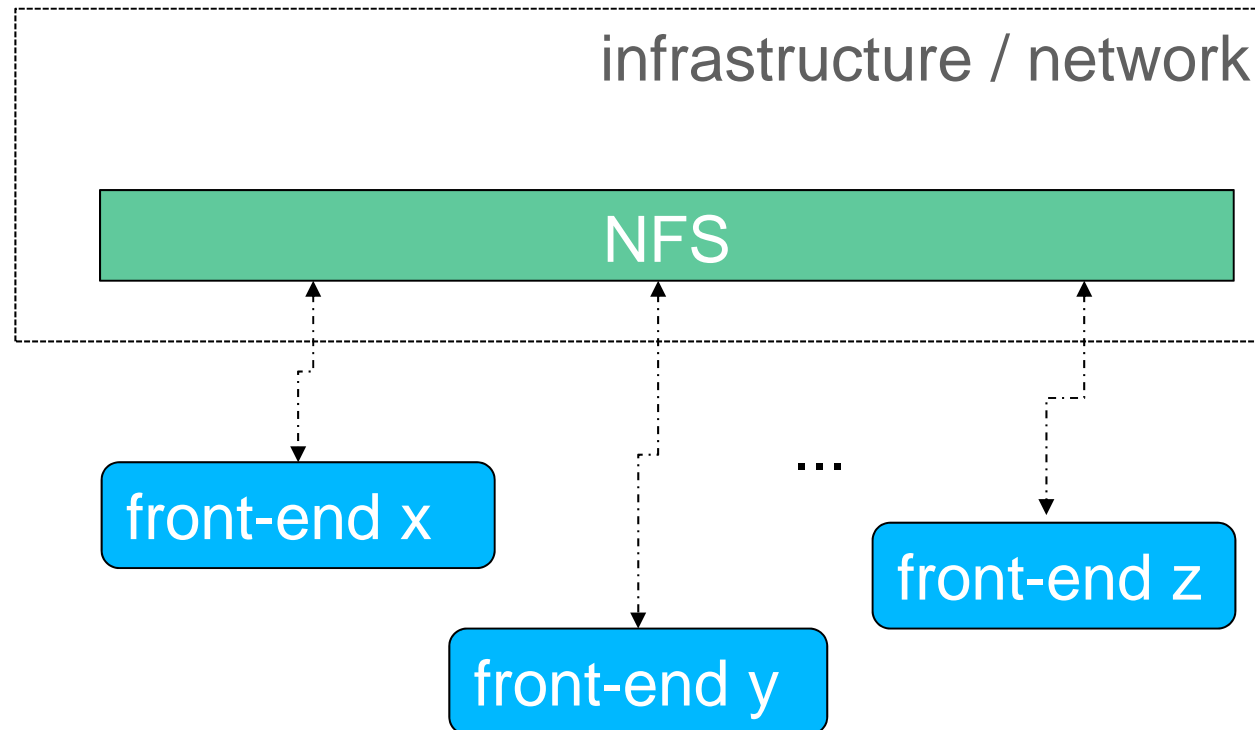
FESA3 Deployment Process and Rollout @GSI

Motivation

- Deployment of **operational** FESA3 binaries (deployment units consisting of FESA3-classes) must be possible and maintainable
- Synchronously it must be possible to test development equipment software not only locally

Environment

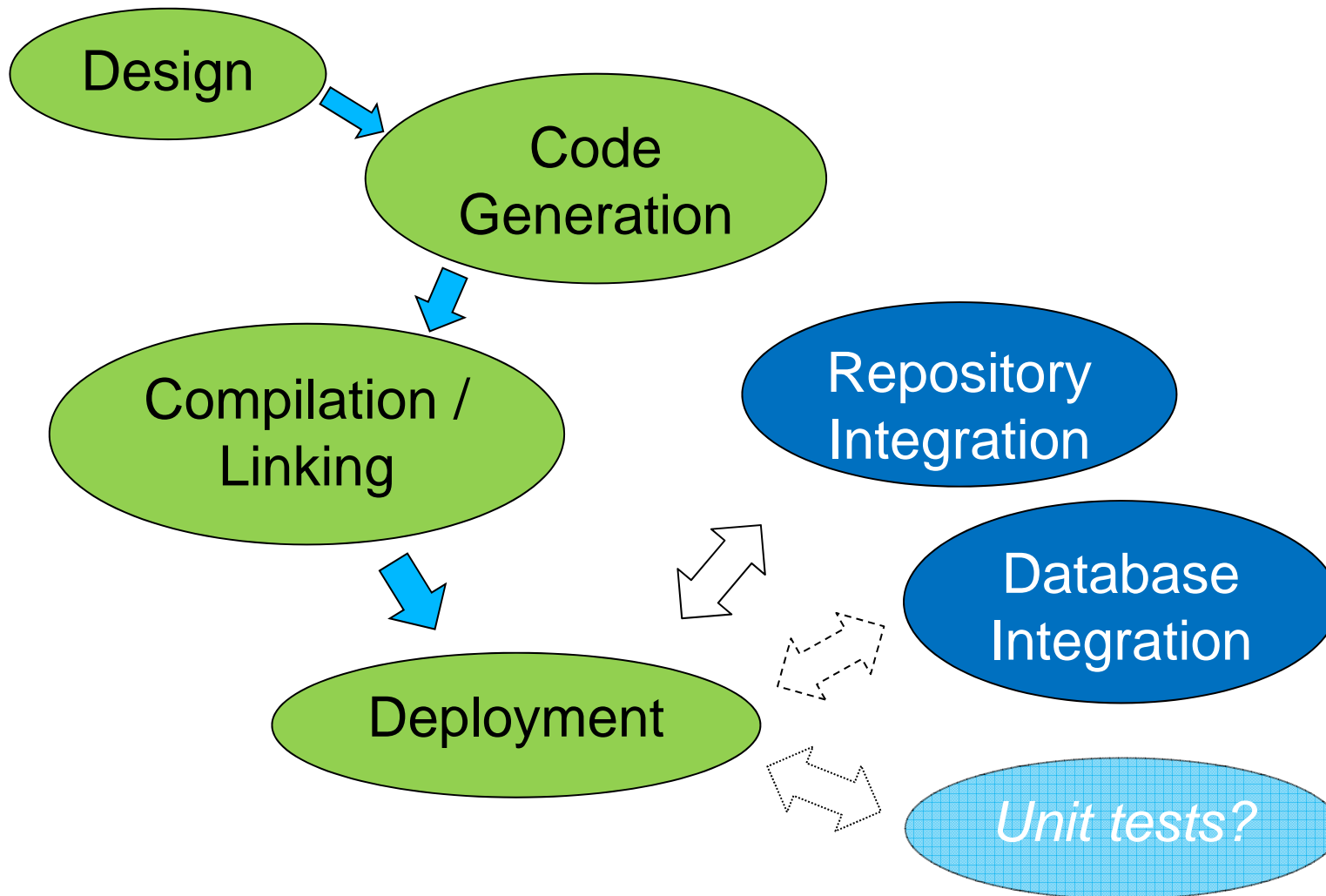
- Expected front-end integration @GSI



- location of
RAM disc for
SCUs,
deploy-units
and
instantiation
files

- SCUs

Basic Steps in FESA3



Basic Steps in FESA3

- Code generation ("synchronization") OK
- Compilation / Linking OK
- Repository check (→ versioning / tagging) TEST
- *New idea: Run unit-tests per class if available? ???*
- Deploy binaries, instantiation and timing configuration file to desired location OK
- *Update database entries (property names, fields, units of parameters, ...)* PLAN?

Rollout for FAIR

- Up to 2000 front-ends are expected
- **Minimum requirements:**
 - releases / updates of operational software on a selection of devices only
 - Example: deploy a new version of Magnet-Software for devices with new hardware only, keep old version for old devices
 - roll-back of previously released software
 - operational front-end software may not be overwritten by accident, whereas desired updates or bug-fixes must be allowed

Rollout for FAIR

- Open Questions: how can this be maintained in a convenient and less error-prone manner?
 - database utilization in this case?
 - operational front-end software must be reproducible (→ e.g. from source tags in repository)
 - How can all this achieved?
 - What is the part of FESA(3)?



- Questions?
 - Ideas?