

Nonlinear Device Characterization Project

More NIST Support for NNMSNVNALSNA Measurement Assurance

Don DeGroot

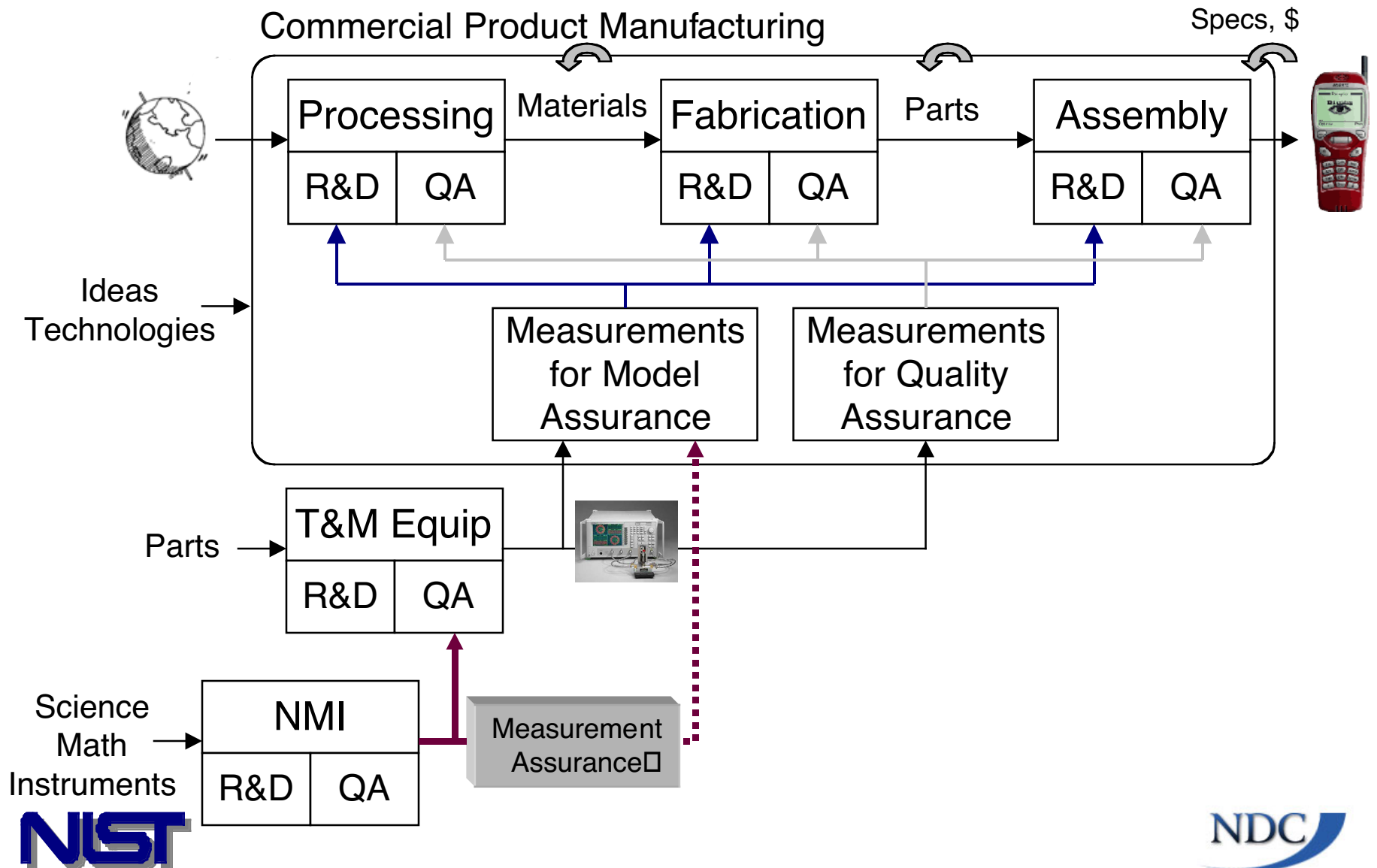
Jeff Jargon

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Where does an NMI fit in?



NDC Measurement Assurance Activities

- Stochastic Multi-Line/Reflect calibration (vna)
 - Completed (with, and at, VUB) a statistical calibration suitable as our benchmark for NVNA quality assessment.
- Nonlinear Superconducting Standard (phase)
 - Demonstrated physical artifact with calculable higher-order products.
- LSNA Measurement Comparison (users)
 - Collecting data on different NVNA systems (3, to date) and summarizing differences for nonlinear reference device set.
 - 12 devices, 26 reps, 10 connects, 9-10 hrs, 2.5 cm of paper