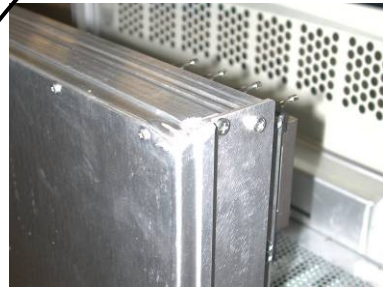
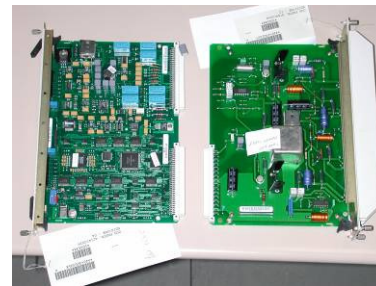


Repairing center



Repair
Center



**COMPEL
GROUP**

- Repairing Center
- Repairing “*Facts and Figures*”
- Repairing Flow
- Facilities for test
- Repairing example: British T
- Repairing: Areva example
- Repairing: on demand example

Repairing center



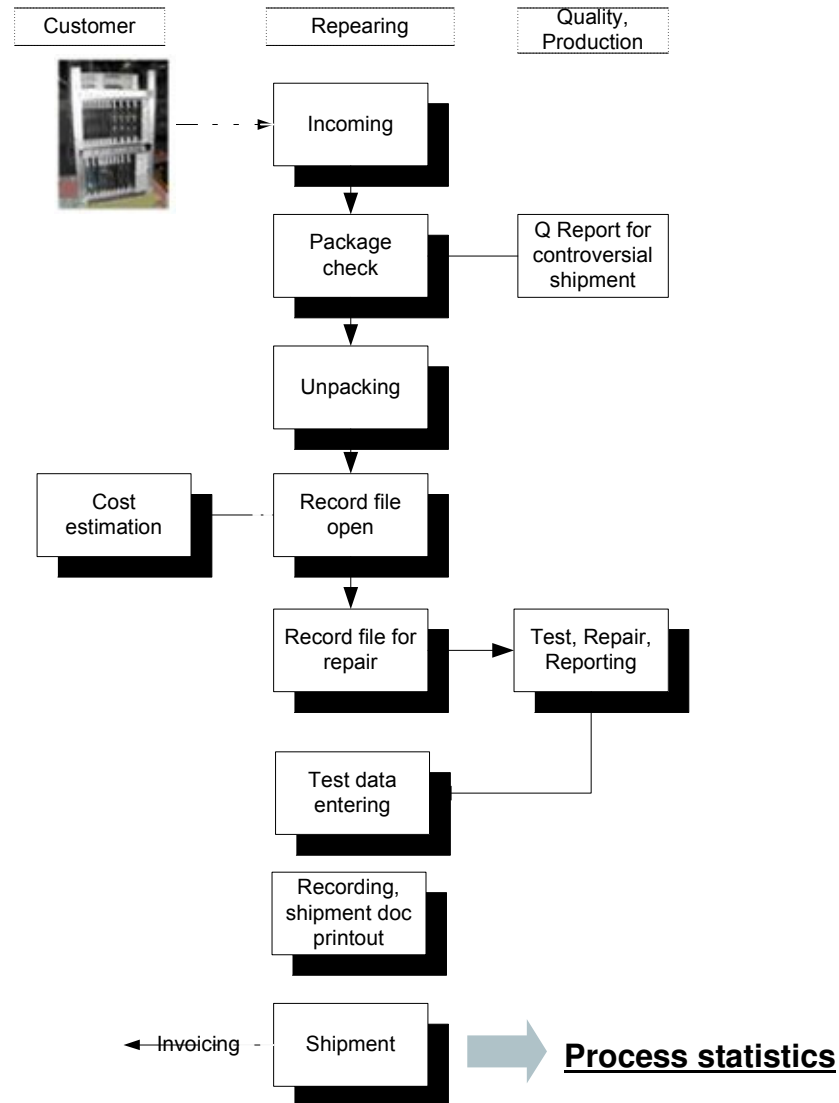
- **Headquarter of repairing located in L'Aquila (center of Italy)**
- **Customer Agreement based repairing**
- **Fault parts coming from:**
 - **Telecom sites**
 - **Customer's Local Companies**
- **Activities:**
 - **Receiving, cost estimate, test, repairing, Quality reporting, shipping of parts**
 - **Reporting of activities, statistics**

Repairing “Facts and Figures”



- Number of major customer with agreement: **3**
- Number of customer with repair on demand: **150**
- Mean time to repair: **20** days
- Main customers: Siemens SAG, AREVA, ENEL
- Covered Area: Europe, South Africa, North-america
- Budget figure 2005: **7%** of turnover
- Parts repaired 2005: **2500** functional parts
- Mean people involved: minimum **7**, additional resources according to needs
- Tools: LAN network connected test equipments, internally developed

Repairing Flow



Document example

Customer Agreement

DOA

Q report

Cost Estimation

Test report

Facilities for test



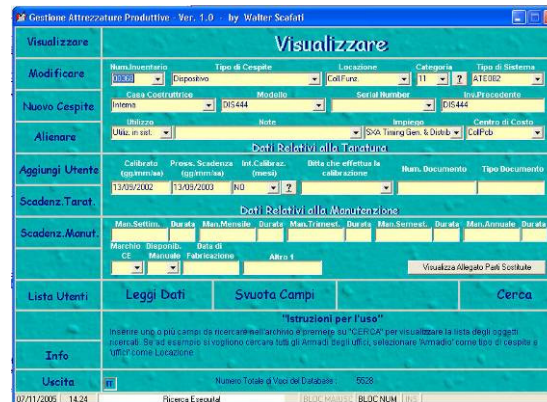
- Repair activities are based on large test benches availability
- Expertise goes from parts-module test up to system test
- All test steps are traced and reported
- LAN network connected test stations
- Resources: about 600 instruments, informatically managed with respect to their state of calibration



Manual test station



System test bench



Snap shot of instrumentation management tool
CN SYSTEM S.r.l. - Gruppo COMPEL ELECTRONICS S.p.A.

Repairing example: Cust 1



- Customer: Large Company . through local companies
- Final Customer: A Telecom Co.
- Product: Cross Connector
- Location: Ireland
- Terms of repairing: customer agreement
- Parts repaired per year: **300**
- Test Procedure: based upon Product specifications and/or international standards
- Test bench: internally developed (HW e SW), linked by Ethernet LAN
- People involved: **3**
- Documentation: Test Results and Test Report; repair time statistics
- Mean time to repair: **20** (gg)

Repairing: Cust 2 example



- Customer: Large Company through local companies
- Final Customer: Many
- Product: PLC (Power Carrier Line)
- Location: Europe
- Terms of repairing: customer agreement
- Parts repaired per year: **350**
- Test Procedure: based upon Product specifications and standards
- Test bench: internally developed (HW e SW), linked by Ethernet LAN
- People involved: **2**
- Test Results documentation and Test Report; average repair time statistics

Repairing: on demand example



- Customers: Many,
- Product: PLC (Power Carrier Line); power supplies; et ot.
- Location: Europe, mainly Italy
- Terms of repairing: on demand
- Parts repaired per year: **1000**
- Test Procedure: based upon Product specifications and standards
- Test bench: internally developed (HW e SW), linked by Ethernet LAN
- People involved: **3**
- Test Results documentation and Test Report; average repair time statistics
- Mean time to repair: **15** (gg)