




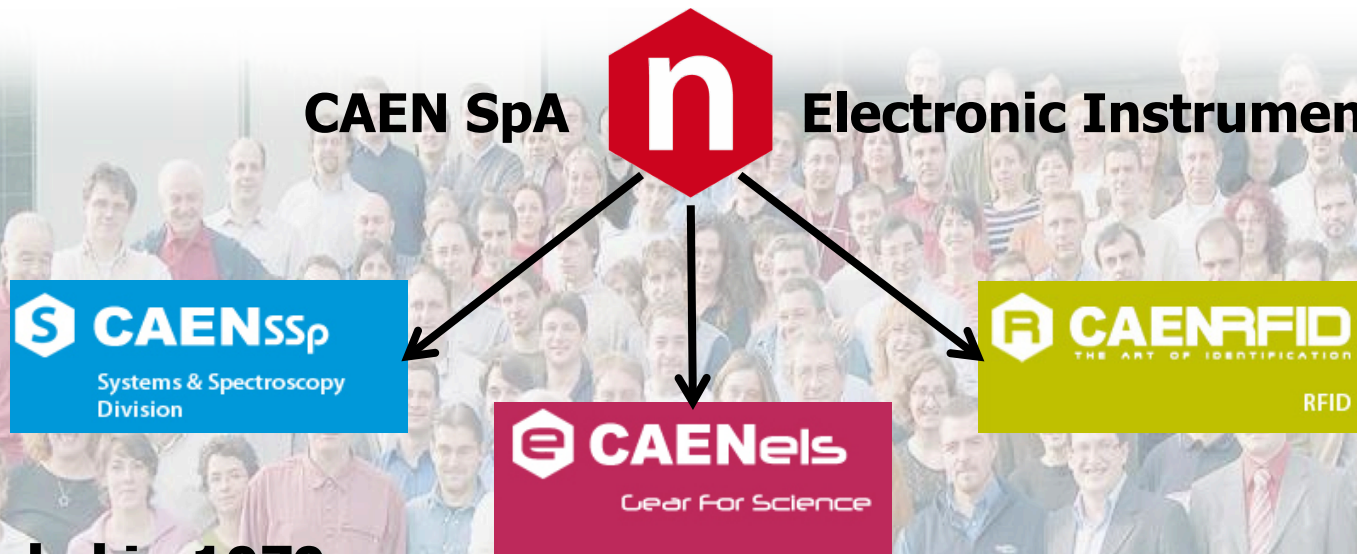
Electronic Instrumentation

FTK Workshop

Pisa, 12/03/2013



CAEN Network's Companies



Founded in 1979

100 people

Headquarters and main operation unit in Viareggio, Italy; operation unit in Elba Island

Core business: Electronic Instrumentation for Physics experiments (world leader)

Spin-off activities:

Microelectronics-Aerospace (1995), RFID (2003), CAENels (2010), CAEN SSp (2011)

➤ Worldwide sales network

CAEN offices in Italy, Germany, USA

Distributors in more than 30 countries

➤ Portfolio: 1000 customers

➤ Includes world leading research centres

Europe: CERN, INFN, GSI, ESO, ISIS, Ganil, PSI, ...

USA: FNAL, SLAC, Los Alamos, BNL, JLab, ...

Asia: J-Park, KEK, Riken, IHEP, TIFR, ...

Africa: iThemba Labs, ...

- For 30 years CAEN has been providing Scientists and Engineers with the most advanced electronic instrumentation for any particle or radiation detectors
- Strong of an extremely close collaboration with the world major research laboratories CAEN is proud to produce the best tools for:
 - High Energy Physics
 - Astrophysics
 - Neutrino Physics
 - Dark Matter Investigation
 - Nuclear Physics
 - Material Science
 - Medical Applications
 - Homeland Security
 - Industrial Applications
 - and more ...



- **Power Supply**
 - High Voltage and Low Voltage Systems
 - Multichannel NIM, VME and Desktop HV Modules
- **Signal Conditioning & Read-out Electronics**
 - Preamplifiers, Digitizers, TDC, Logic, ...
 - VME, CAMAC, PCI/PCI-Express, NIM and Desktop Front-End/Data Acquisition Modules
 - Digital Pulse Processing
- **Powered Crates**
 - Low Ripple Linear NIM powered Crates
 - New Hi-End VME64/VME64x Crates
- **Custom Developments**

- More than 250 products



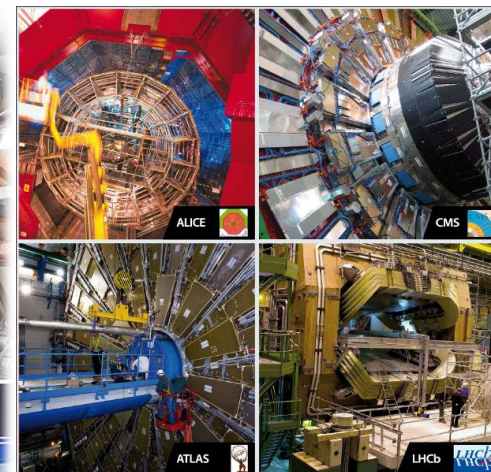
- Custom developments up to **40%** of CAEN production (not included in the catalogue)

1998 – 2008

SYNERGY for SUCCESS

*10 years of joint efforts
to achieve top performances*

- **6.500 electronic units delivered**
190.000 sub-boards
- **Designed for Hostile Environments**
Magnetic Field resistant (up to 5000 Gauss)
Radiation tolerant
- **Experiments:**
CMS, ATLAS, ALICE, LHC-B, TOTEM







CAEN is honoured and proud to announce that was awarded with the highest tribute from the CMS collaboration, the

CMS Crystal Award of the Year 2009

The award honours companies which have made outstanding contributions to the construction of the CMS experiment and seals the successful synergy between CAEN and the CERN projects over the past years.

CAEN SpA was honoured with the "CMS Crystal Award" for the achievements in the realisation of the contracts for the CMS Detector, including the modules powering the largest silicon detector ever built. The important acknowledgement recognizes the company's design and manufacturing capabilities achieved in the quality of the delivered products.

- R&D Division at the forefront of technology
- Excellent pre- and post-sales support either remote or on-site
- Flexibility and capability of facing new markets and new products (Spin-offs)
- Capable of providing custom solutions



Electronic Instrumentation

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