ACSIEL MIL-AEROSPACE WG
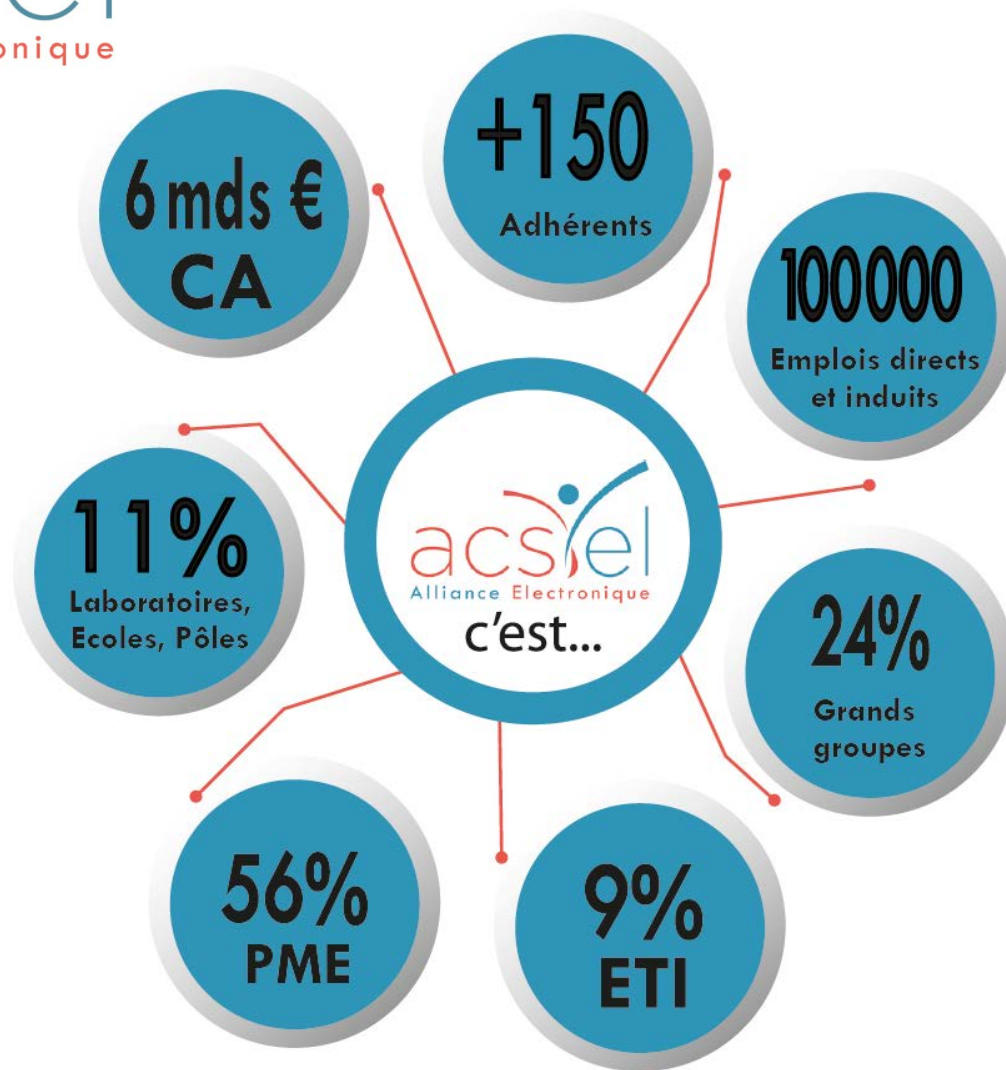
Representing the sector of excellence for Hi-Rel components from France

ESA/ESTEC

CTB Plenary May-June 2016

Space Components Days Octobre 2016

ACSIEL at a glance

6 mds € CA

+150 Adhérents

100000 Emplois directs et induits

11% Laboratoires, Ecoles, Pôles

acsiel Alliance Electronique c'est...

24% Grands groupes

56% PME

9% ETI

ACSIEL President :
Gérard Matheron
(Directeur STMicroelectronics Crolles)
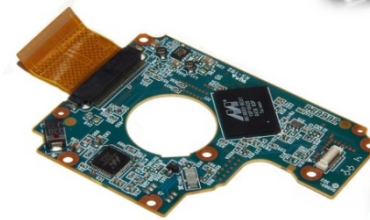
ACSIEL members

- **Active Components**

- **Passive Components**

- **Electromechanical Components**
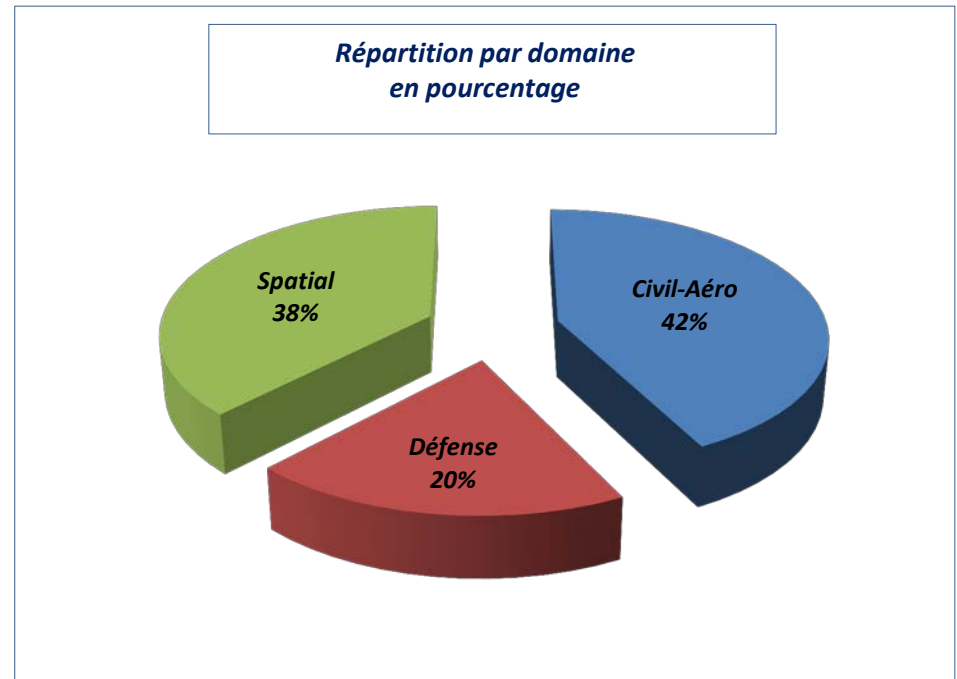
- **Interconnect Components**

MIL-AEROSPACE ACSIEL WORKING GROUP

- **Started in 2012 :** *Chairman is Alain ROUGIER (RAKON)*

- **Regrouping most Space & Defense component manufacturers having activities in France :** *~500M€ revenues*

- **Welcoming French delegations like CNES, DGA at managing committee**

- **Inviting at working sessions primes (THALES, TAS, ADS, …) and all supply chain players**

- **Aiming at developing positive synergies between the different players of the MIL-AEROSPACE ecosystem through different initiatives**

  - **Market-related (Export, Market survey, System evolutions, …)**

  - **Technology-related (Design, Assembly, Analysis, …)**

  - **Communication-related (Exhibitions, conferences, …)**

ACSIEL MIL-AEROSPACE WG related figures

- Yearly sales of 400-500M€ (2015)

- Market segments :
  - ⇨ **Civil Avionics**
  - ⇨ **Defense : Military (Air – Ground – Nay)**
  - ⇨ **Space : satellites, launchers**

Répartition par domaine en pourcentage

Spatial 38%

Civil-Aéro 42%
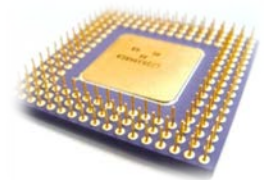
Défense 20%

Source : ACSIEL

(Hi-Rel) MIL-AEROSPACE Product offer

- **Active Components**
  - Integrated Circuits (ICs)
  - Discrete Semiconductors

- **Passive Components**
  - Capacitors Resistors, Magnetic Components
  - RF and Hyper Components , Sensors
  - Quartz Resonators

- **Interconnect Components**
  - PCBs and susbtrates
  - Connectors, Cables, …

- **Sub-systems**
  - Memory modules
  - Quartz and SAW oscillators
  - Specific sub-systems

Sector of excellence in France (Space-grade components) with
European and World leaders

- **Active Components**
  - Integrated Circuits (ICs)
  - Discrete Semiconductors

- **Passive Components**
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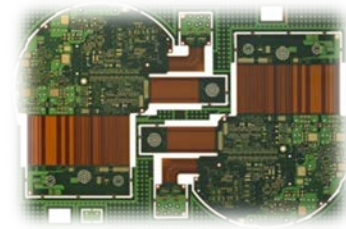 - RF and Hyper Components , Sensors
  - Quartz Resonators

- **Interconnect Components**
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- **Sub-systems**
  - Memory modules
  - Quartz and SAW oscillators
  - Specific sub-systems

ACSIEL MIL-AEROSPACE WG main objectives

To develop new valuable **operationnal synergies** **between the main players of the Electronics Components sector from the Space, Defense and Avionics markets**

- Between small, mid-size and large companies from the sector
- Involving prime customers from the Hi-Rel sector (Thales, Safran, Airbus, …)
- Linking with national agencies and directions from this sector (DGA, CNES, …)
- With the other players (Laboratories, poles of competitiveness, regional associations, …)

To represent /interface and defend this Sector of Excellence in France and outside

MIL-AEROSPACE WG Organisation

- **Steering Commitee (GT) :** WG Plenary (Quaterly meetings)

- **Two Sub Working Groups de travail (SGT)**
  - Generally dedicated participants per company – Special guests
  - Quatertly meetings
- **Hi-Rel Components Database** for WG participants

''SGT-BIZDEV''

- Market studies and surveys (Qualitative and quantitative data)
- International business Development
- New product requirements per market segment and per application

''SGT-R&D''

- R&D Partnerships
- Management of Technology challenges per domain

Ex : radiation management, component report on PCB, Thermo-mechanical simulation, Hybrid circuits management, Reliability, COTS usage in Space applications, …

ACSIEL WG latest initiatives (2015-16)

- Worldwide market survey on space equipment and space components (2015-16)
- Promote component industry beyond European boarders
- Get represented at ESCC Working Groups (Passives & beyond) to interface with ACSIEL teams
- Discuss with ESCC bodies how to define (2016)
  - Component qualification flow equivalent to QML-Q for better European component industry competitiveness
  - Component qualification flow (below QML-Q) to adress megaconstellations market and required cost competitiveness