

FRENCH DEFENCE INDUSTRY

Bilateral seminar

presented by Emeric d'Arcimoles, GIFAS



São Paolo – March 2015



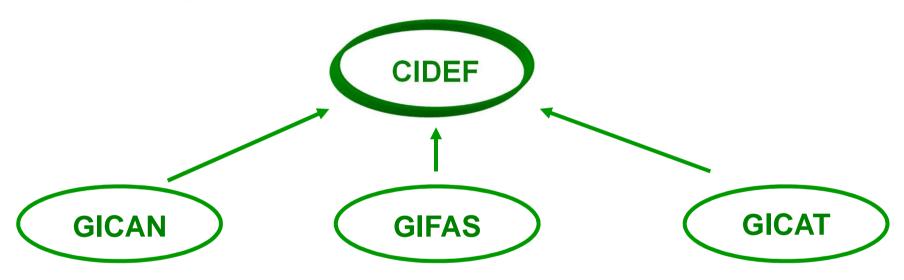
AGENDA

Introduction

- 1- Coordination between French industry and government (GIFAS experience)
- 2- Impacts of defence investment on civil applications
- 3- French and Brazilian industries: what we share



Advisory Council for French Defence Industries



Maritime security and safety; Naval, cruise or mercantile Shipbuilding Euronaval show Defence Aerospace
Defence and Security Electronic
Civil Aerospace

-

Paris Air Show

Eurosatory show

Land and Air-land

Equipments and

Systems

- Rotating chairmanship between the three associations
- 4 committees : Defence, European affairs, R&T and regulations



The French Defence Industry

- 17,5 B€ turnover in 2013
- 30 to 35% exported (France is # 3 for exportations in 2014)
- At the heart of the European industry
- Proven experience in industrial cooperation & technology transfers.
- A dynamic and autonomous supply-chain
- 165 000 employees
- An industry allowing French strategic autonomy



GICAN is the professional group representing the French marine industry. GICAN members are involved in naval defence, maritime security, safety and environment, and commercial shipbuilding

GICAN covers a wide range of activities in the shipbuilding industry:

- Civil shipbuilding and ship repair
- Military shipbuilding, weapons systems, maintenance and the related in-service support
- Military and civil ship equipment
- Maritime safety, security and environment
- Renewable marine energies and other offshore activities

Key figures:

- 165 member companies
- € 8.5 billion cumulated revenues
- 40,000 jobs
 - ✓ Organize EURONAVAL, the leading naval defence international exhibition and several French Pavilion in overseas defence exhibition

GIC

The French Land Defense & Security Industry Association

• Established in 1979, GICAT gathers the French companies working in (Design, Development, Production, Services) the Land and Airland Defence and Security areas (Armored Vehicles, Ammunitions & Weaponry, Crowd control, Crisis Management, Electronic Systems, Helicopters, Logistics, Missiles, UAVs, Training & Simulation)

More than 250 members :

- Worldwide companies : Airbus Defense & Space, Airbus Helicopters, Ineo, MBDA, Morpho, Nexter, Sagem, Thales, Renault Trucks Defense, ...
 - 80% of SMEs (Bertin, CILAS, Daher, Etienne Lacroix, Photonis, Soframe, ...)
 - Clusters: Ares FC, Eden, GIE NBC, GILEP
- 40 000 Employees Global Turnover 2013 : 5 Billion € (40 % Exportation)
- 60% of members have a dual activity in the areas of Security and Defense



Management, with the support of its subsidiary company COGES, of the Exhibitions Eurosatory, the first Land Defence and Security exhibition in the world, Expodefensa & APHS







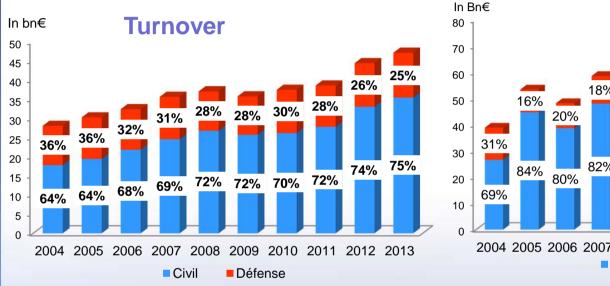
French Aerospace, Defence & Security Industry

A dual industry covering all sectors: aircraft, helicopters, engines, equipment, missiles, UAVs, launch vehicles, satellites and defence & security systems.

- 352 Gifas members (incl. 161 equipment manufacturers and 159 SMEs)
- 177,000 employees
- €47.9 billion revenues in 2013
- €73,1 billion orders in 2013
- Order book representing 5/6 years' production
- R&D: 14% of the turnover



Turnover and orders Aerospace, defence and civil, from 2004 to 2013





- Civil sector boom as a result of the increase in air traffic.
- Defence maintained a constant level in absolute term budget cuts compensated by exports and new markets.



Development of the Industrial and Technological Base: a joint concern (1/2)

- Preparing the future together:
 - Roadmap for R&T in the civil aerospace sector jointly defined by French industry and by French authorities: CORAC,
 - Similar approach in the space sector: COSPACE,
 - ONERA, the French aerospace research center, is an associate member of GIFAS,
 - Close relationship with DGA to define priorities,
 - Development of initial and continuing education programs: creation of engineering apprenticeship schemes with public schools.





Development of the Industrial and Technological Base: a joint concern (2/2)

- Strengthening of the supply-chain:
 - Facilitate consolidation through sectorial funds (Aerofund III),
 60% of which contributed by the industry (Airbus et Safran),
 40% held by a public bank,
 - Improve industrial efficiency with a large program financed by Industry and Government covering 23 French Regions and 400 SMEs,
 - Accompany and monitor defence SMEs through a government dedicated program supported by large companies (SME Pact).





As a result: an integrated, supportive, dynamic supply chain

- An industrial base of 161 major equipment suppliers and
 159 smaller firms making up the industry's supply chain.
- Consolidation of the industry with more intermediate-sized enterprises.
- SMEs in international markets:
- More than half of SMEs export
- Their export revenues increased from 22 to 27% between 2006 and 2013.





Defence investments in innovation bring ...

- Cost saving by sharing research infrastructure,
- → Education at high level by partnering with universities
- Competitiveness on a technical point of view
- → Competencies that can be used in the civil sector (ex : integration of complex systems like radars, aerodynamic capabilities, mastery of supersonic studies)



Defence investments in production provide ...

- Cost saving by sharing production lines
- → Flexibility in case fluctuation of demand
- Development of technical skills and workers

(ex : precision machining, composite material work)



Some flowdowns from defence to civil sectors

Carbon for missiles nozzles

Carbon breaks with 46% of market share on civil aircraft (>100 seats)

Optimization of conception and industrial processes for shipbuilding

Projects of marine turbine fields

C3I & C4I communications

Air Trafic Management (SESAR project)

Electronics componants (gallium arsenide) developed for radars and electronic warfare

Application in transports, automotive, optical fibers

IFF technologies (recognition of allied aircrafts)

Electronic toll on highway



What we share







-> Looking to have a full scope of Aerospace & Defense capabilities and products

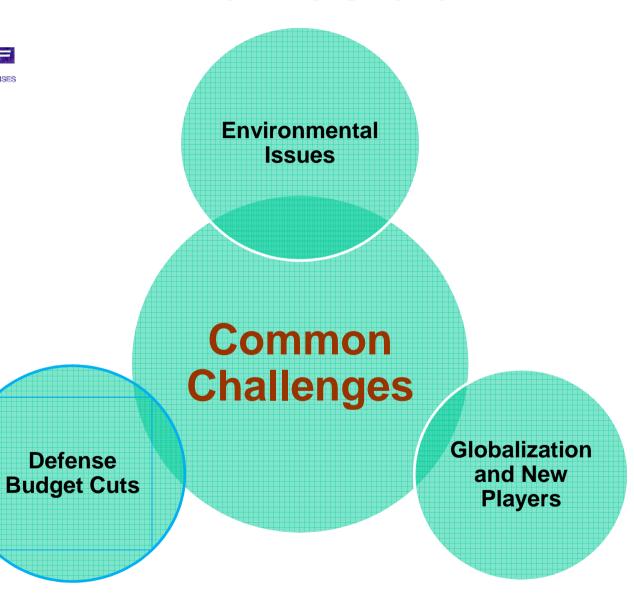








What we share





A call for cooperation



UNITED WE ARE STRONGER!