

**MPTB stakeholder day - REACH obsolescence risk and supply chain management for space programs**

# **CNES APPROACH FOR M&P ACTIVITIES FOR FRENCH SMEs**

**Christian DURIN  
CNES Toulouse – DSO/AQ/MP**

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## M&P CNES APPROACH FOR SMEs

- REACH
- CAPABILITY APPROVAL
- SUPPORT FOR R&T STUDIES
- TECHNICAL INFORMATION EXCHANGE
- EXPERTISE SUPPORT
- PROMOTE NATIONAL/EUROPEAN SOURCES
- ENCOURAGE TECHNICAL REFERENCE DATA SOURCE AT EUROPEAN LEVEL

# M&P CNES APPROACH FOR SMEs

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## REACH

**For 10 years, we have done a lot of work in the frame of national and international collaborative WG. We think that MPTB is the right tool to deal with this new (but not ended) constraint.**

**At national level, we work with our primes but we have also a specific attention to our SMEs and labs. Our contributions are:**

- **Help them to identify REACH risk on their products**
- **To work on alternative solutions through dedicated studies**
- **To inform them through organized meeting**
- **To be proactive as much as possible**

# M&P CNES APPROACH FOR SMEs

## Capability approval

Since 1996, CNES manages capability approval (ASF) for French industrials. 47 certificates are running with primes, SMEs and we have results exchange with ESA. We are working within the framework of 2 standards: ECSS and ESCC.

PCB/SMT, hybrids technologies and materials fields are covered.

The goal of this quality approach is:

**For CNES**

- better understanding industrial/SME's capacities
- increase confidence

**For SME's**

- decrease CNES inquiry (for each projects)
- use the certificates for non CNES projects
- protect confidentiality

# M&P CNES APPROACH FOR SMEs

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## Support for R&T studies

Each year CNES funds R&T studies within many different domains in particular materials and processes (M&P). Industrials and SME's could propose subjects and selected one + CNES proposals allow us to work together on:

- New materials,
- New processes,
- New technologies (AM),
- M&P obsolescences,
- Materials impacted by REACh replacement
- Space constraints effects on materials (radiations)
- ...

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## Technical Information exchange (CCT days)

CNES organizes regularly information days to give feed back to suppliers. Many different subjects can be treated regarding running M&P activities. During the last years we have organized:

- Reach
- AM
- Long term storage
- Thermoplastic (2017) <http://cct.cnes.fr/evenements>

## Expertise support

An other way to work with SMEs is to interface at expert level and CNES can offer its support in particular in this field of M&P.

We can also perform some tests in our labs.

# M&P CNES APPROACH FOR SMEs

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## Promote National/European sources

For some project having a unique materials source is considered risky.

CNES and primes have decided to encourage some French SME's to propose equivalent/new products for our applications.

Steps:

1. list of risky materials
2. identification of substitute
3. validation tests of this new product (qualification at project level)
4. diffusion/storage of results and use
5. identification of “no solution available” case and propose solution in research frame

# M&P CNES APPROACH FOR SMEs

## Unique technical reference data source

At CNES level we have a tool running (MATREX) in order to save our M&P data from projects, R&T studies, tests. Our partners can access to it to gather technical information or to put some in. The goal is:

- To save time on data already available and well known and to focus more on critical items: New products, new suppliers, formulation evolutions, risky materials...
- To have a unique reference data source (to be confident in data's)
- To replace (and complete) ECSS Q-ST-70-71 technical data sheets
- To be able to face (follow) new constraints

→ We are working on the same approach at European level (PM discussion)