

SAFRAN AIRCRAFT ENGINES DEPLOYMENT



CATHERINE CATARINA-GRACA
SUPPLIER MANAGEMENT SYSTEM COORDINATOR
SAFRAN AIRCRAFT ENGINES

**Safran,
a world leader
in aerospace**

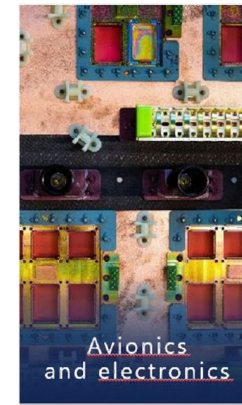
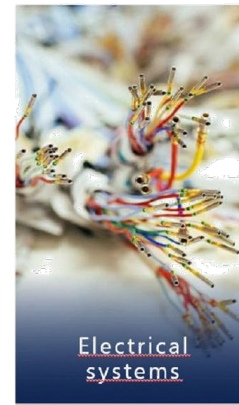


SAFRAN GROUP Activities

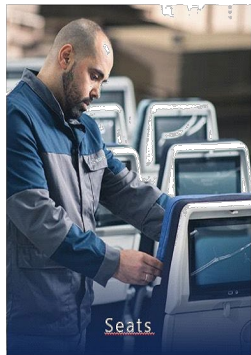
Aircraft propulsion: proven innovation and reliability to support aircraft manufacturers and airlines



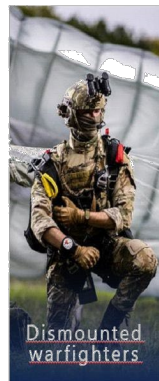
Aircraft equipment: a complete range of products and services



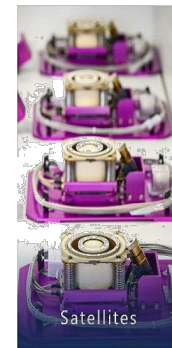
Aircraft interiors: an extended range for all types of aircraft to enhance passenger comfort



Defense: protecting citizens through technology



Space: state-of-the-art technologies to drive progress



* through ArianeGroup, a 50/50 joint company between Safran and Airbus, and its Arianespace subsidiary

SAFe : A Safran Project

SAFe = A « ONE SAFRAN » project

ONE AMBITION

ONE BRAND

ONE PERFORMANCE



One Safran

SAFe = 3 main documents

- ❑ SAFe 2020 issued Dec 2020
- ❑ One Safran Company leads the deployment for the whole group

- ❑ Activity Sector
- ❑ Activity Type

Code	Activity Sector label
S1	Civil & Military engines
S2	Civil & Military aviation and space equipment and systems Unmanned aerial vehicles (UAVs)
S3	Cabin / Seats
S4	Non-aeronautical defense
S5	Automotive / Railway
S6	Other sectors

Code	Activity type label
A	Build-to-print Provider
B	Build-to-spec Provider
C	Dealer, Stockist, distributor,
D	Aeronautical maintenance service Provider
E	Non production service Provider
F	Production Interoperations Service Provider
G	Manufacturer of catalog parts, Standard, Standardized (COTS)

GRP-0087
Procedure of quality requirements for external providers including CSR charter

GRM-0123
Provider Handbook

GRF-0033
Compliance matrix to requirements



Statements

AS13100 issued March 2021

AS13100 will be flown down **to Only S1 Suppliers.**

Few Safran companies are concerned :
mainly **Safran Aircraft Engines**

**SAFe won't Be modified before 2024 to prevent mixing
messages -> Supply Chain**

On Going Project since June 2021

Safran Aircraft Engines Deployment

Milestones

Milestone 1: GAP analysis being conducted. Member company committed to deployment by Dec 2022.

Milestone 2: Project Plan Identified and Approved by Member Executive.

Milestone 3: Communication plan executed internally

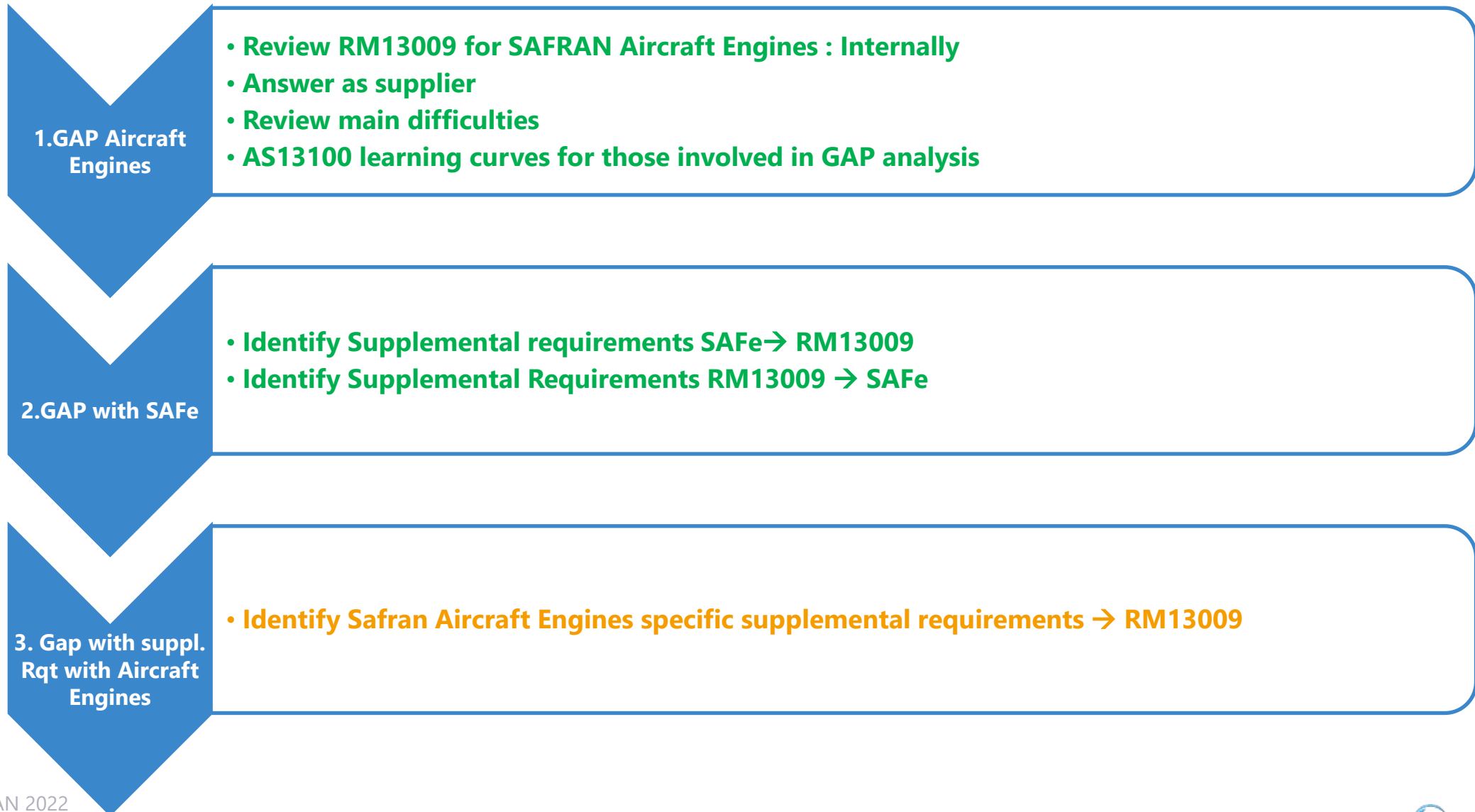
Milestone 4: Communication plan executed to supply base.

Milestone 5: Training plan executed internally

Milestone 6: Training plan executed to supply base

Milestone 7: AS13100 Flowed to supply base in accordance with Company plan

Safran Aircraft Engines Deployment - **MILESTONE 1**



Safran Aircraft Engines - MILESTONE 1 – GAP with SAFe

CS - Restricted

Measure GRP-0087 vs AS13100 – CHAPTER A

This page show AS13100 additional requirements not in SAFe :

Example 1 :

7.1.3.1

The organization shall use a cross-functional approach to develop project plans when implementing new plant, facilities, or equipment.

MORE AS13100

Example 2 :

8.3.3.3

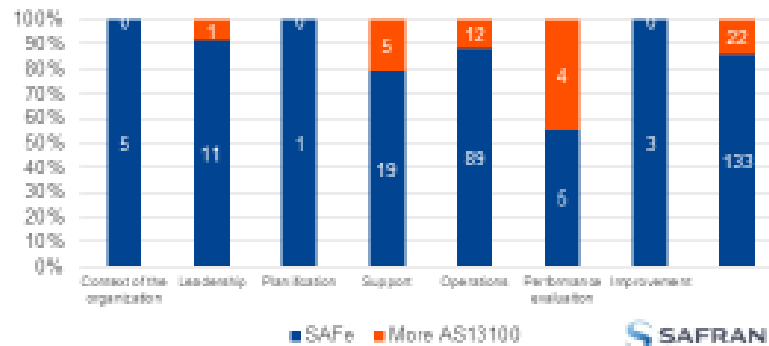
The organization shall configure and plan Design Reviews appropriate to the project considering magnitude, complexity, novelty, risk, etc., (8.3.4.3) and include those milestone dates in the design and development plan.

MORE AS13100 (some elements in (8.3.3a + Chapter 12 (APP-0087 + GRM-0123))

Strictly More AS13100
Fuller in AS13100

133 SAFe requirements common

22 AS13100 additional requirements (to be reviewed)



24 Safran – March 2nd, 2022 - Quality Committee
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Chapter B :

APQP: Few GAPS Action Plan launched and finalized

Measure GRP-0087 vs AS13100 - CHAPTER A

This page show SAFe additional requirements that are not included in AS13100 :

Example :

5.1.1e

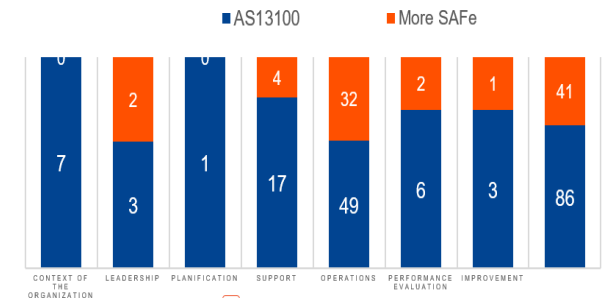
The Provider's commitment on these two items shall be formalized through the signing of Safran's Charter for Responsible Purchasing (document available onto Safran's Website under the reference GRF-0164).
The Provider shall also initiate the invoices dematerialization to eliminate paper invoices. It shall use a structured format such as "Electronic Data Interchange" (EDI).

A

MORE SAFe

86 common AS13100 requirements (represented by "AS13100")

41 additional SAFe requirements (represented by "More SAFe")



MILESTONE 1 – GAP with SAFe - EXAMPLES



Section 7.2.1 Requires organizations to provide **On the Job Training** that includes;

- customer requirements,
- Internal requirements
- regulatory requirements

This requirement also applies to contract and agency personnel.

Persons whose work can directly affect quality shall be informed about the consequences on nonconformance to the customer.



Section 7.2.2 defines the **Auditor Competence Requirements** including;

- Qualifications
- Experience
- Maintenance (Ongoing professional development)

RM13005 will provide further details.



Section 7.2.4 requires the organization to ensure that Quality Leaders attend the AS13100 Requirements on-line course and the **AESQ Quality Foundation Training Course**. The course includes training in;

- Applicable Regulations
- Customer Requirements
- APQP & Process Control Quality Tools

This course is also recommended for other key personnel.



AS13100 defines the requirements for **Supplier Evaluation, Selection, Control and Performance Monitoring**.

(Section 8.4.1)

The organization shall verify that the correct metallic raw material is used e.g. through the use of **hand held spectrometry**.

(Section 8.5.1.4.1)



Safran Aircraft Engines - **MILESTONE 1 – SAME AS SAFE-EXAMPLES**



Organization's are required to include **Human Factors** within the scope of their QMS
(Section 4.4.3, 5.1.1.1, 5.2.1.1 and 7.3.1)

Chapter B

APQP PPAP



Defines the use of **8D Problem Solving** for customer escapes.



Compliance to **AS9146 FOD Prevention**

Safran Aircraft Engines – **MILESTONE 1 TO MILESTONE 4**



Section 4.3.5 requires the organization to conduct a **Compliance Assessment** of their QMS to ensure that it captures all of the requirements of AS13100 and customer specific requirements.

The results of this review are to be provided to the customer upon request.

Any compliance gaps must be highlighted to the individual customer and a resolution agreed.

Reference Manual RM13009 provides information to support this requirement.

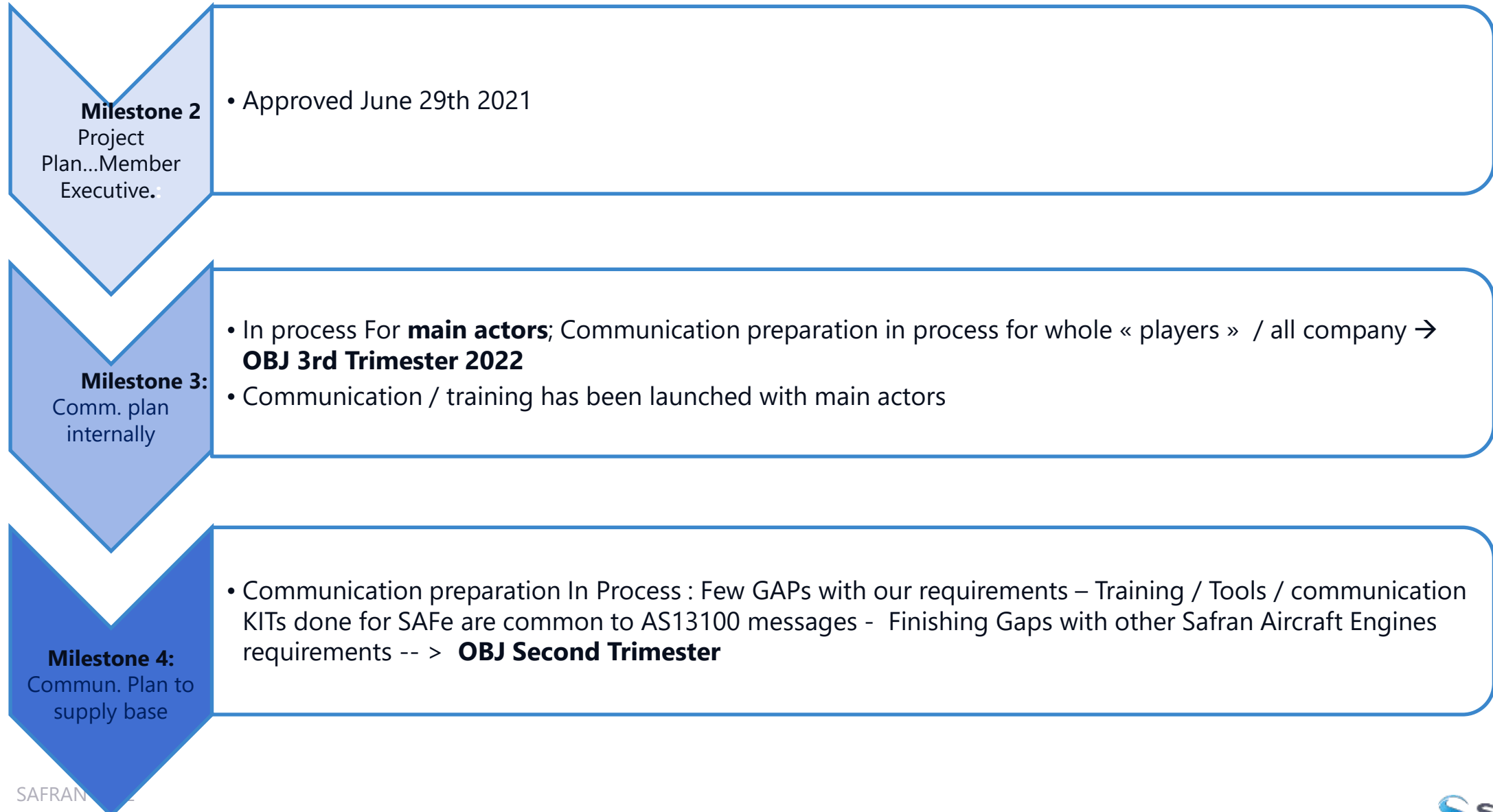
GRF-0033
Compliance matrix to
SAFe requirements

SAFe Compliance Matrix already exists:

Part of communication kit is : comparison of these 2 excel files:

- **If SAFe Matrix is completed → Excel file with missing requirements to fullfill AS13100**
- **If RM13009 is completed → Excel file with missing requirements to fullfill SAFe**

Safran Aircraft Engines Deployment - **MILESTONE 2 ; 3 AND 4**



Safran Aircraft Engines Deployment - **MILESTONE 5 ; 6 AND 7**

Milestone 5
Training plan
executed internally

- Already started with main Actors but will be extended during Summer 2022

Milestone 6:
Training plan
executed to supply
base

- Starts September 2022

Milestone 7:
AS13100 flow down
to supply chain

- Will be flown down Summer 2022 with communication Kit and equivalences with SAFe / Safran Aircraft Engines specific requirements → Saves Time