

SMS CONCEPT

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→ **Turbomeca has implemented SMS since January 2012.**

→ **Targets driving our SMS approach:**

- Contribute to reduce by 50% the UISFD of our engines in 10 years
- Use our unique Quality management system as vector of Safety low signal
- Manage the risks
- Improve safety culture

→ We have structured our approach through 5 axes:

- Promote safety
- Identify the pareto of our influent factors
- Deploy the risk analysis on the shop floor
- Build a worldwide SMS network in our company
- Measure the maturity of our SMS

→ Promotion:

- More than 2000 people trained on SMS worldwide
- Continuous promotion through:
 - Newsletters ●
 - Humoristic posters ●
 - Safety Innovation Trophy ●

→ Contributing factors to flight safety issue are identified ●

→ Risk management completed over 100% of MRO activity

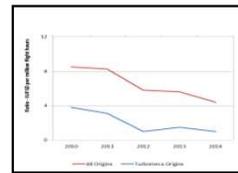
→ Network:

- 17 SMS managers nominated in all TM subsidiaries and new production activity
- Regular conference calls with all sites
- Yearly SMS seminar with network and customers

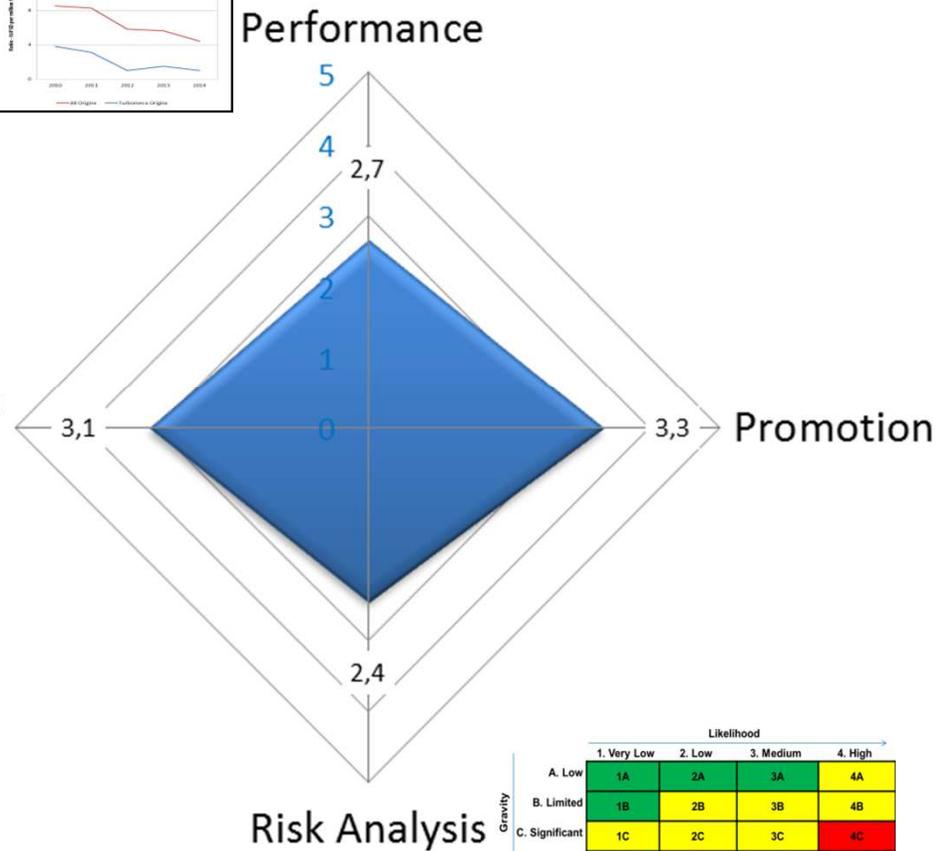


SMS CONCEPT RESULTS

→ Turbomeca teams are challenged to reach SMS maturity target



Safety Innovation (S.I.)



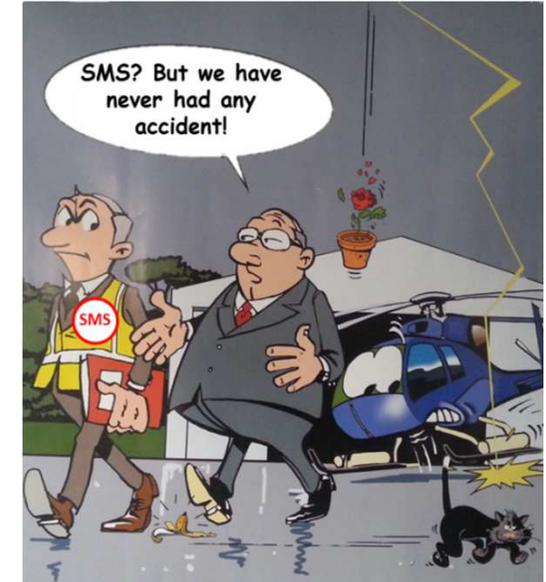
Gravity	Likelihood			
	1. Very Low	2. Low	3. Medium	4. High
A. Low	1A	2A	3A	4A
B. Limited	1B	2B	3B	4B
C. Significant	1C	2C	3C	4C
D. Critical	1D	2D	3D	4D

→ Confusion between SMS and QMS



→ Confusion between SMS and HSE

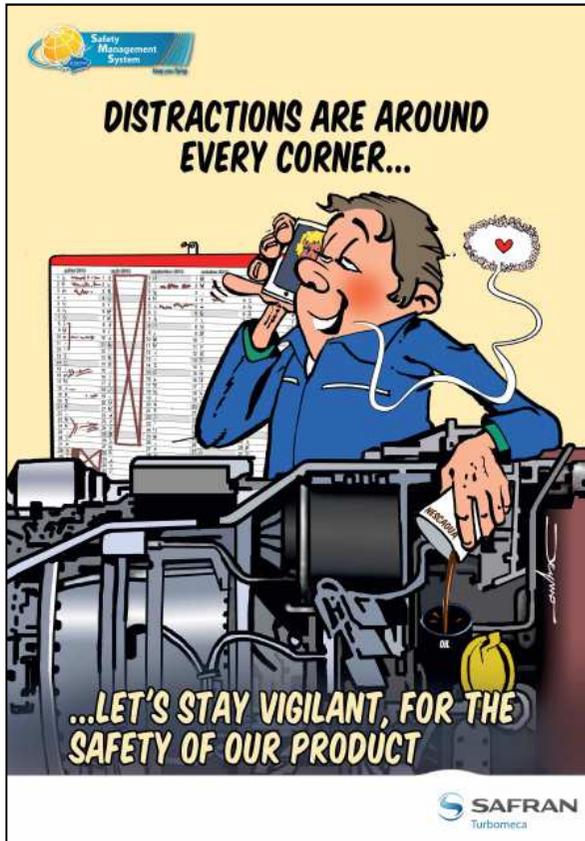
→ Why SMS? We have no safety issue



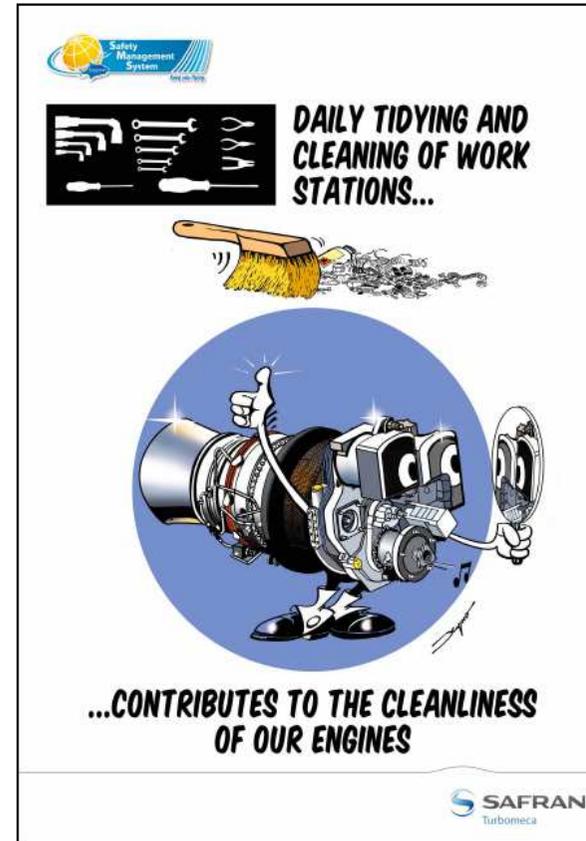
- **Strong commitment from top management**
- **Be practical** ⇒ **manage the risks on shop floor**
- **Go beyond simple observation: human factors**
- **Give feedback to the teams**



→ Implement your SMS to manage risks linked to:



Human factors



Organisation

A way to succeed culture change

SMS CONCEPT OUR NEXT CHALLENGES



→ **Complete and succeed SMS deployment in Production**

→ **Start SMS project in design activity**

→ **Improve the safety culture of the company: “think out of the box”**



**Support all helicopter business to trend together
to zero accident**



BLANKING ALL CASING AND PIPE ORIFICES AFTER EACH USE...

...CONTRIBUTES TO THE FLIGHT SAFETY OF OUR ENGINES

* FOD : Foreign Object Damage

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RESPECTING EXPIRY DATES OF PRODUCTS ...

... IMPROVES THE RELIABILITY OF OUR ENGINES

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FEEDBACK ON EVENTS:

ONE OF THE PILLARS OF THE SMS

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Simplicity, Clarity, Accessibility...

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safety in the air starts from...

safety on the ground

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NON-PUNITIVE ENVIRONMENT

The key to Flight Safety

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INNOVATION SAFETY 2014 – WINNER



**ATTENTION
BE CAREFUL !!!**

IF YOU SEE AN OPERATOR WEARING A VEST:



DO NOT DISTURB

**HE CANNOT RISK A DISTRACTION – OUR
CUSTOMERS AND THEIR CUSTOMERS
DEPEND ON IT.**

