

# Fluid Actuation & Control Toulouse

## FACT SAS Cleansky 2 award testimony

10th call for proposals info day  
Toulouse, 7<sup>th</sup> of may 2019

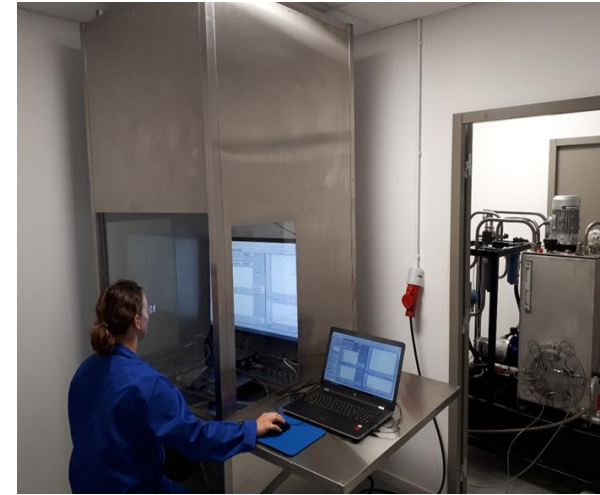
Guylain Ozzello, President



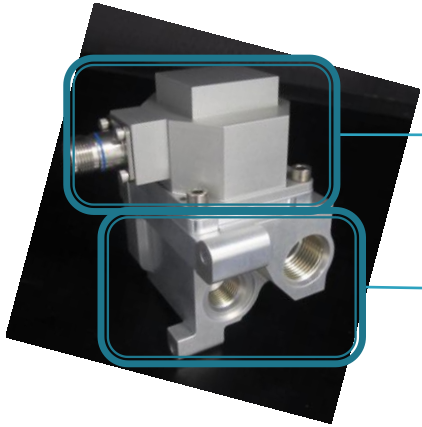
# About FACT SAS company



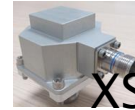
- ▶ FACT SAS born in march 2017, 100k€ euros capital , 7 employees, Toulouse area located
- ▶ Design, qualification, manufacturing of patented gaz & liquid Electrical Valves for Aerospace Industry
- ▶ Our innovative architecture allows cost reduction & reliability improvement
- ▶ Engines & Auxiliary Power Units
- ▶ Air Management Systems
- ▶ Inerting systems
- ▶ Fuel Systems
- ▶ Revenus
  - Demonstrators designed & qualified per spec to prove compliance
  - Fluid Systems design assistance
  - Manufacture of harsh environment fluid test benches
  - Serial production development



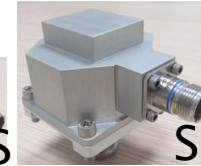
# FACT future Products line



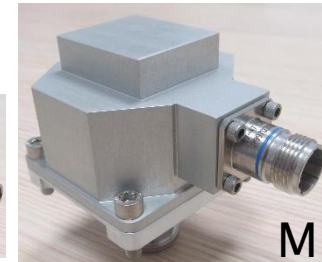
3 sizes standardized electronic free Hi-torque motors



XS



S



M

Liquid or gaz metering=> Per customer needs

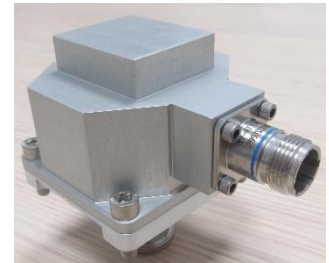
## ▶ DDV FACT added value functions

- Fluid metering valves
- Electrically assisted pressure regulation
- Low pressure actuators servovalves (butterfly valves, engine actuators)
- Extended range flowmeter
- Limited Angle Hi-torque motors



# Why FACT applies Cleansky 2?

- ▶ Requested product converge with our product road map
- ▶ Feasibility validated by Cleansky 2 project officer
- ▶ Customer diversification means
- ▶ Low number of competitors identified
- ▶ Talent acquisition=>load insurance
- ▶ Investments
- ▶ Green project
- ▶ Visibility given



# Proposal face main choices

- ▶ Do we need assistance for the proposal?  
Yes, but no money!

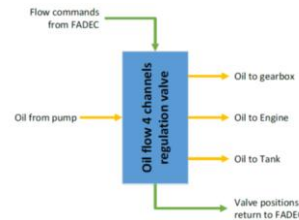
Aerospace Valley assist us to :

- find informations in EU portal
  - allocate properly the Budget
  - choose the right strategy (partner? )
  - comment the proposal
- 
- ▶ Which topic to compete?

# VOLTAYRE JTI-CS2-2018-CfP08ENG-01-35

Valve for Oil flow regulation with high Accuracy and Reliability

- ▶ Topic leader: Safran Aircraft Engines / UHBR demonstrator
- ▶ IA budget: 1,4M€, 29 months
- ▶ Design & manufacture Oil valve able to accurately split 14m<sup>3</sup>/h pump oil flow to 3 commanded one



- ▶ To TRL5=> partial qualification (temperature performance mapping, vibration, fire)
- ▶ Test bench design & Manufacturing (-40°C; +180°C, 16m<sup>3</sup>/H @70bar)
- ▶ An average of 5 full time engineer is necessary to achieve the project

# Proposal phasis

- Company presentation/ skills/ current TRL/ achievements
- Pre-study to show compliance/know how/technologies potential demonstration
- Trade off versus possible state of the art solutions (accuracy/weight/parts count/reliability)
- Capturable market with developed technologies against extra european competitors known technologies
- Patents verification, project planification & deliverables  
=>400/500 hours work, 100 pages blacked, Score 12/15 (4/4/4)
- ▶ EU main comments
  - Lack alternative solutions to mitigate risks
  - Not clear enough what's new/what's already existant
  - Lack of program manager function

# Grant preparation phase

- ▶ 12/7/18, 17H00: proposal on the portal
- ▶ 12/10/18: Reception of the intention to choose VOLTAYRE
- ▶ 04/02/19: Implementation agreement signature
- ▶ 22/03/19: 70% fund reception



# Cleansky 2 FACT expected benefits

- ▶ Safran Aircraft Engines relationship
- ▶ 4 more talented employees & training
- ▶ 3 new technologies TRL5
- ▶ Hot/cold High Flow oil test bench
- ▶ Software licenses / PC/ tools
- ▶ European project experience

# Thank you for you attention

## Questions?

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