

Réunion d'information sur le programme CS2 et le 9^{ème} appel

Shock + Impact Lab. Mat & Struc.

Testimony PANTHER CLEANSKY2 project

26/10/2018

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SUMMARY

THIOT INGENIERIE
CS2 topic history
Call description
Project history







AT A GLANCE

- Shock physics experts
- 100% private company
- 8M€ turnover
- 30 years of experience
- 30 employees
- **20%** of TO for R&T projects



PUYBRUN

OUR ORGANISATION

Shock physics products

- Laboratory launchers
- Split Hopkinson bars
- Detonation chamber
- Acceleration generator
- High pressure special equipment





Laboratory

- 4 gas guns
- 3 Hopkinson bars benches
- 1 dynamic press
- 1 acceleration generator
- 3 operational teams





R&T

- 6 shock physics experts
 - 15 numerical simulation licenses

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AREA OF ACTIVITIES





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YOUR TEST

calculation

instrumentation



Next answer will be made in collaboration with dedicated expert









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CALL PRESENTATION



- Publication date : 15th November 2017
- **Topic title :** Characterization of the resistance of TiAl turbine blades to impact
- Topic number : JTI-CS2-2017-CfP07-ENG-01-29
- **Topic manager :** Safran
- **Duration :** 24 months



Investigate the impact resistance of TiAl turbine blade and develop dynamic model for the behavior and rupture of TIAl





- **15/11/2017** : publication of the topic
 - 17/11/2017 : internal meeting to validate the compliance with internal strategy
- **20/11/2017** : phone call with CHT



• **30/11/2017** : info day à Bruxelles (discussion avec project officer)







- **December 2017 :**
 - 1st work meeting with CHT to focus the key points of the call
 - Analyze of each work package and requirement



Redaction summary





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• January 2018 : redaction/ acronym choice



Performant Alternative To Nickel-based alloys for Turbine of HelicoptERs

- February 2018 :
 - Redaction
 - Financial offer
 - Final reviewing with CHT
- 22/02/2018 : submission on UE portal





- 08/05/2018 → WIN !!! With 14/15
- May / June / July →
 - discussion with Topic manager to refine technical proposal
 - Grant agreement preparation on UE portal
 - T0 validation between topic manager and us
- 07/09/2018 : grant agreement signature
- January 2019 : T0











THANK YOU FOR YOUR ATTENTION



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