



Innovative high performance Alloys and Coatings for
Highly Efficient intensive energy processes

WELCOME ADDRESS

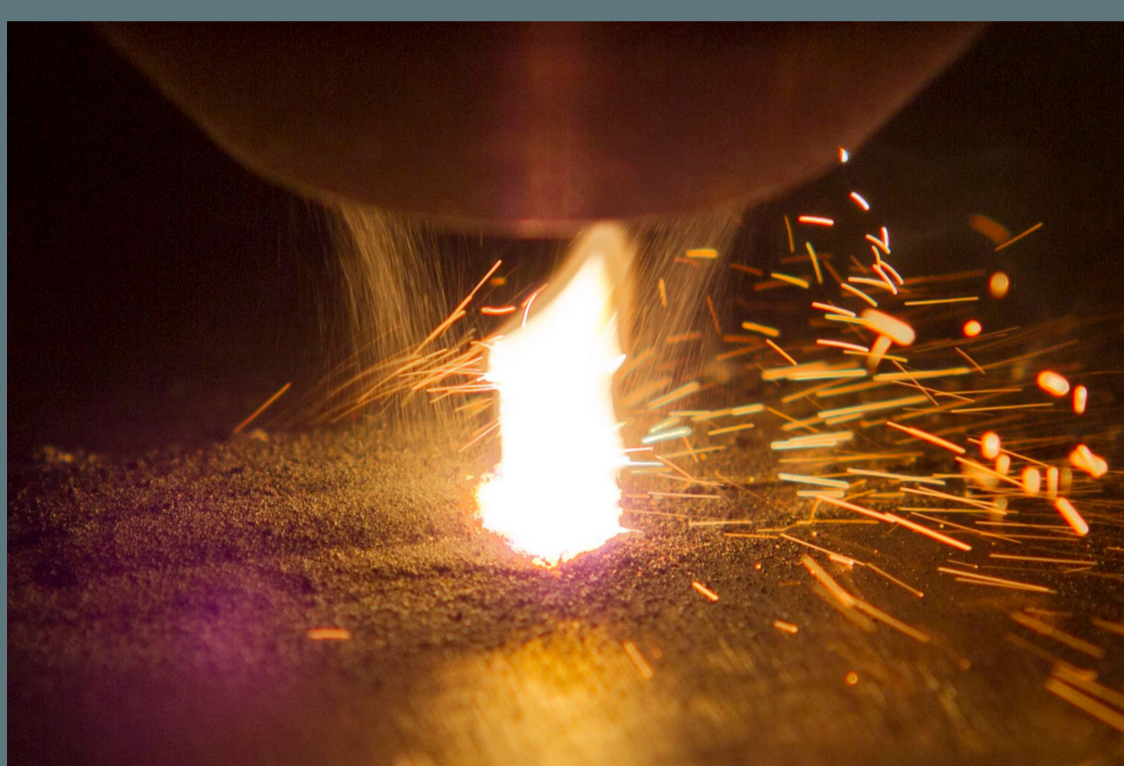
Welcome to our first ACHIEF Newsletter.
One of the many more to come!

ACHIEF project proposes innovative high-performance materials for Energy Intensive Industries to improve their energy performance by enabling process equipment to perform longer and with a better productivity. The project will highly impact the Energy Intensive industrial sector by:

- significantly improving the energy efficiency,
- reducing the CO2 emissions and utilization,
- increasing the lifetime of the equipment.

ACHIEF will participate in the strategic environment challenge of the European Union of decreasing Green House Gas emissions by 80/90% by 2050.

WHAT IS THE ACHIEF ABOUT?



ACHIEF project has received a grant of €5,8 million from the European Union's Horizon 2020 research and innovation programme to develop novel efficient materials-based solutions enabling to meet extreme and fluctuating conditions currently employed in Energy Intensive Industries (EII).

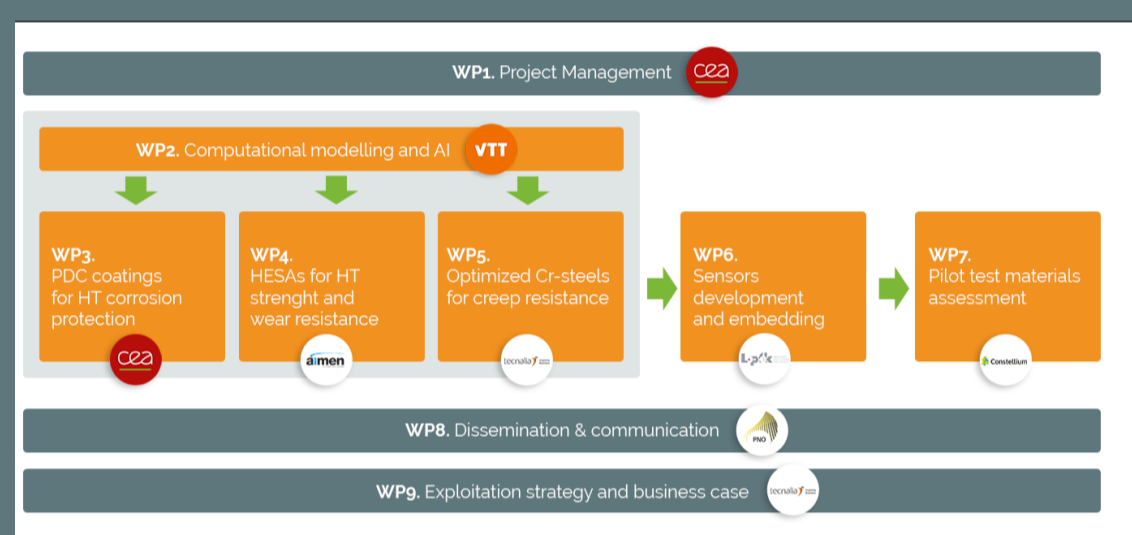
How will ACHIEF work?

From theoretical parameters and requirements, a novel Integrated Artificial Intelligence aided Materials Toolbox will propose innovative and adapted high performance materials and protective coatings:

- WPDC coatings with improved high temperature corrosion and erosion resistance.
- Advanced Cr-steels grade with 15% improved creep resistance and higher temperature corrosion resistance.
- Innovative high temperature and creep resistance materials based on HESAs models
- High performance coatings based on HEA-nanocomposites.

[Read more](#)

ACHIEF WORK PLAN



ACHIEF has an ambitious implementation plan for the next 42 months, starting as of October 1st, 2020. The work plan is divided into 9 work packages between 11 partners.

[Read more](#)

MEET THE CONSORTIUM



ACHIEF consortium has 11 partners from 6 European countries and Turkey covering the RTO and industrial worlds.

[Read more](#)

OFFICIALLY LAUNCHED

The ACHIEF consortium gathered for a very first time on 14.09.2020 for a 1-day kick-off meeting to officially mark the launch of the project. Due to COVID-19 pandemic situation in Europe, the meeting was held online.



[Read more](#)

UPCOMING EVENTS

[NorCast2021 | 01-02 September 2021 | Arendal, Norway](#)
[15th Nordic Aluminium Casthouse Conference](#)



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