



**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?

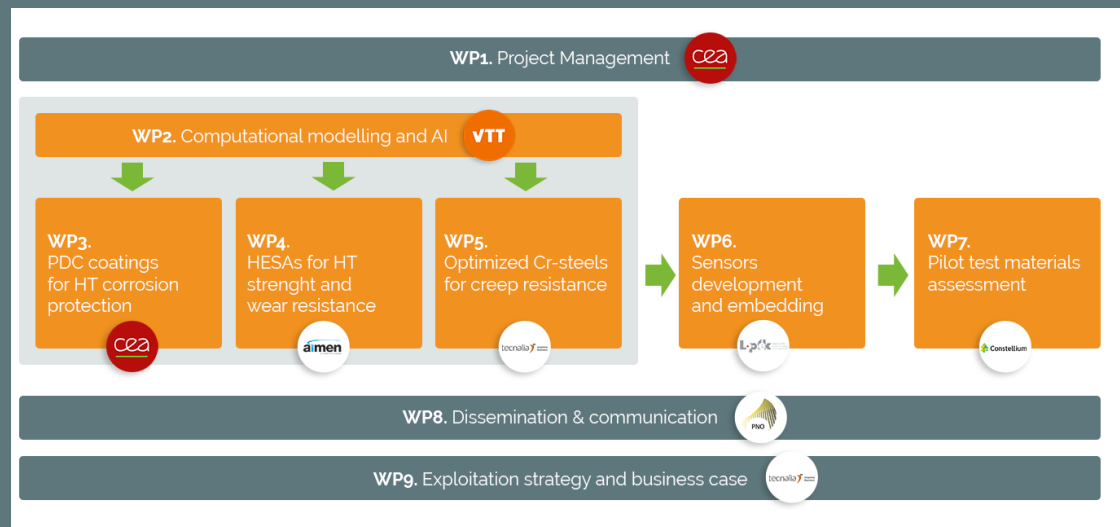
From theoretical parameters and requirements, a novel Integrated Artificial Intelligence aided Materials Toolbox will propose innovative and adapted high performance materials and protective coatings:

- 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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