

DSI-NRF Centre of Excellence for Integrated Mineral and Energy Resource Analysis – CIMERA

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The third ERA-MIN JOINT CALL on Sustainable Supply of Raw Materials in Europe
(2015)

Coal char as a substituting material of natural graphite in green energy technologies – CHARPHITE

Prepared by Prof Nikki Wagner (UJ, RSA), Prof Bruno Valentim (U.Porto, PO)
Dr Charlotte Badenhorst (PhD student on the project), and many other
collaborators.

16 July 2021

Horizon Europe Launch Event in South Africa

https://youtu.be/_glvDBpnMac

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Project CHARPHITE: Coal char as a substituting material of natural graphite in green energy technologies

Starting date: 1 April 2016
End: 30 September 2019

Requested funding: 903,838 €
Total costs: 903,838 €



Testimonial



Co-funded by the Horizon 2020 programme of the European Union

COMPETE 2020 PORTUGAL 2020 FCT Fundação para a Ciência e a Tecnologia

Project CHARPHITE

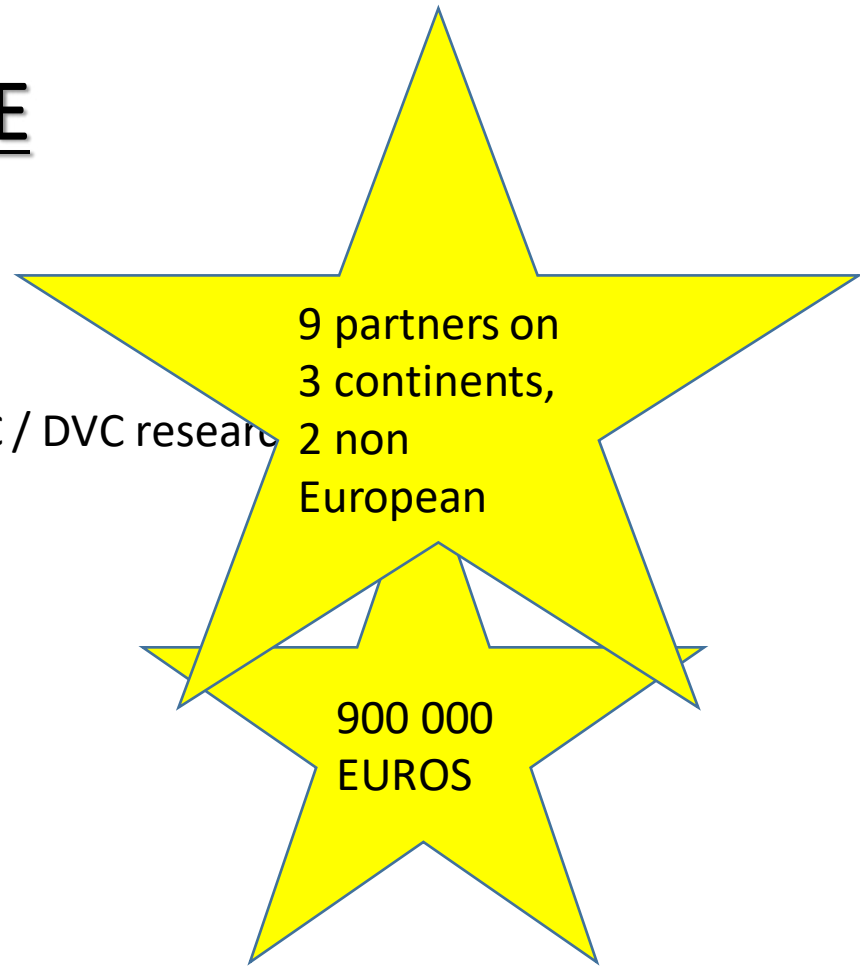
70 views • Feb 15, 2021

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https://www.youtube.com/watch?app=desktop&v=_glvDBpnMac&feature=youtu.be

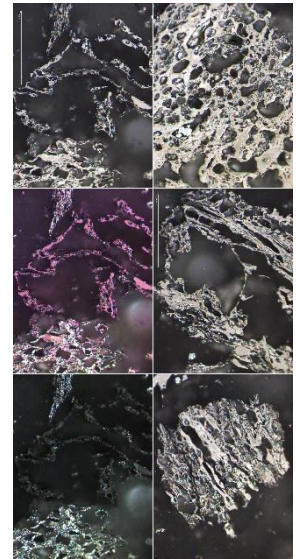
SUMMARY OF EXPERIENCE

- Proposal commenced April 2015 driven by PI
- Inform the SA National funder (DSI)
- Obtain acknowledgement by institution (DVC / DVC research)
- Submission May 2015
- 1st round eligibility successful July 2015
- Successful outcome Oct 2015
- Commencement April 2016
- 3 years
- Application to DSI for co-funding (90:10)
- Source PhD candidate
- DSI outcome Feb 2016
- Project commencement 2016
- PhD student completed mid 2019



LEARNINGS

- Opportunity to work with an international team
- Opportunity to travel to consortium countries for progress meetings
- Opportunities for growing research and general exposure
- Opportunities to present results at international conferences



- Work packages with clear R&R
- Be aware of the teams role, strengths and weaknesses, collaboration opportunities.

Direct Outputs in SA:

- 1 PhD thesis: the student is now a PDRF at Uni of Porto
- International conference presentation (WOCA, Texas, 2019)
- 2 publications in internal journals.

ONGOING OUTPUTS

Collaborators are continuing to refine findings and producing further papers and conference outputs