

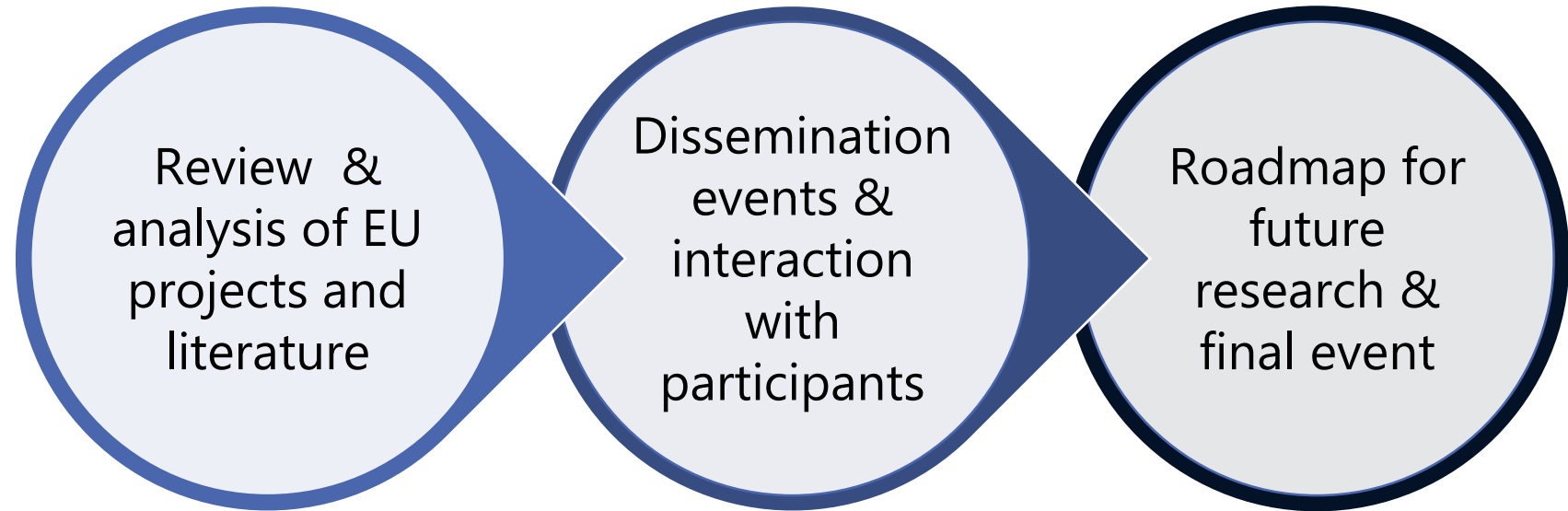


# Measuring techniques in Continuous Casting (laboratory)

*Introduction to Valcra project & webinar*



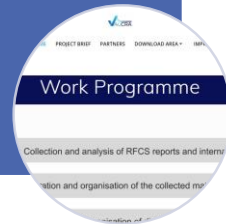
**VALorisation and dissemination of RFCS projects results and experience in steel surface quality issues: on as-cast CRACKs formation**



## Media

- [www.valcra.eu](http://www.valcra.eu)
- Project information
- Event schedule/registration
- Download of deliverables
- Download of presentations
- Download of webinar videos

Valcra Website



- <https://www.linkedin.com/company/31417305>
- Get updated information on VALCRA events and deliverables

ECCN – European continuous casting Network on LinkedIn



- <https://www.linkedin.com/groups/13794289/>
- Participate to technical/scientific discussions
- **Get answers asked in webinars**

Valcra discussion Group on LinkedIn



## Deliverables D2.1, D2.2, D2.3

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### D2.1

### Complete list of relevant reports and papers

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- Classification of projects and literature to identify the main topics covered by EU funded research
- Spreadsheet list of **32 projects**
- Spreadsheet list of **60 papers**

### D2.2

### List of topics

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- Analysis by argument of the collected reports

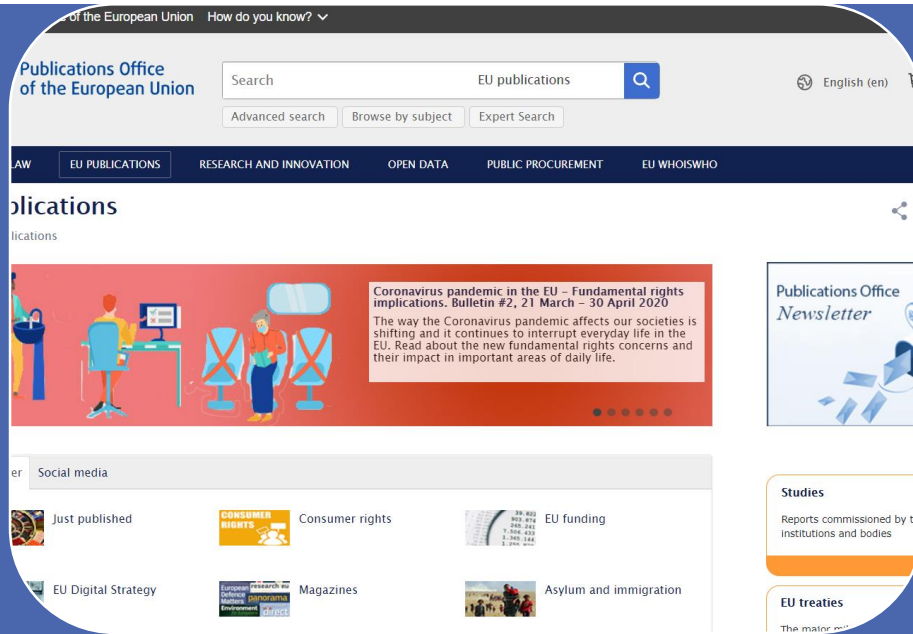
### D2.3

### Classification and ranking of projects

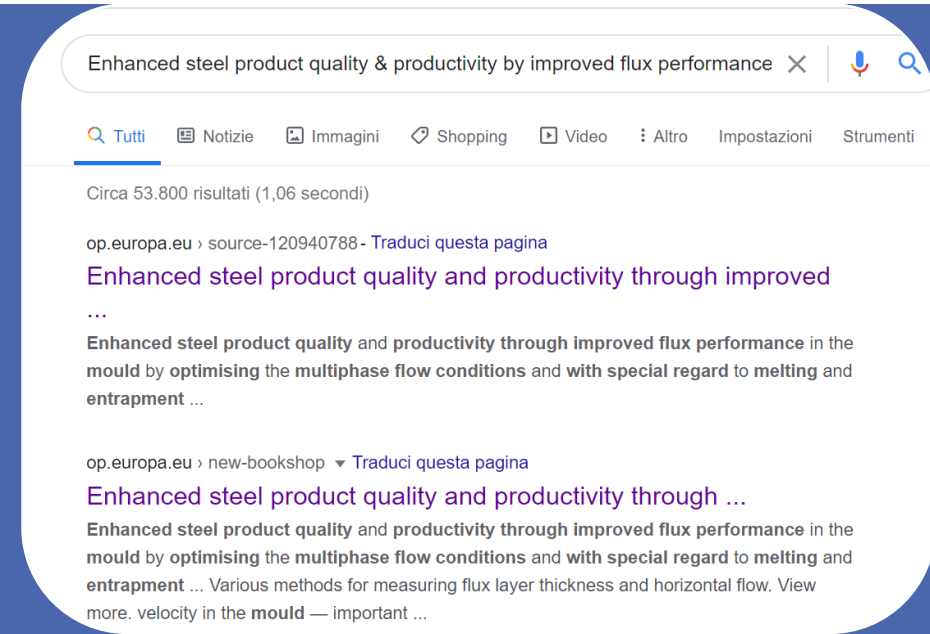
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- Assessment of the RFCS projects
  - Success of project
  - Industrial/economic impact
  - TRL evolution

## Deliverable D2.1: how to get the ECSC/RFCS final reports



From EU Bookshop:  
<https://op.europa.eu/en/web/general-publications/publications>  
 Search full project title



Google full project title  
 Leads to EU Bookshop

Download pdf is free - Reports are available in most cases

## Deliverable D3.1

### D3.1

### State of the Art for each Research Topic

#### TOPICS:

- Basic Knowledge
- Modelling
- Process Optimization
- Mould powders
- Process control & sensing

#### STRUCTURE OF REPORT:

1. Evolution of the state of the art in the last 25 years
2. Best practices or solutions
3. Future developments

#### APPENDIXES:

- APPENDIX A: Summary of computational and physical modelling performed in European funded projects over the last 20 years
- APPENDIX B: Links between cracking and casting conditions

## Measuring techniques in Continuous Casting (laboratory)

10.20 – 10.40

- **Investigation of unsteady and asymmetric flow phenomena in continuous casting moulds by physical modelling**
- Kersten Marx – BFI, Germany

10.40 – 11.00

- **Pilot Scale Simulator Based on Liquid Metal to Study Flow Related Issues on Continuous Casting**
- Pavel Ramirez Lopez – SWERIM, Sweden

11.00 – 11.10

- **COFFEE BREAK**

11.10 – 11.30

- **Slab Surface Defect Detection Techniques**
- Stuart Higson – Material Processing Institute, UK

11.30 – 12.00

- **Questions and discussion**
- **End of webinar**

## Interacting during webinar



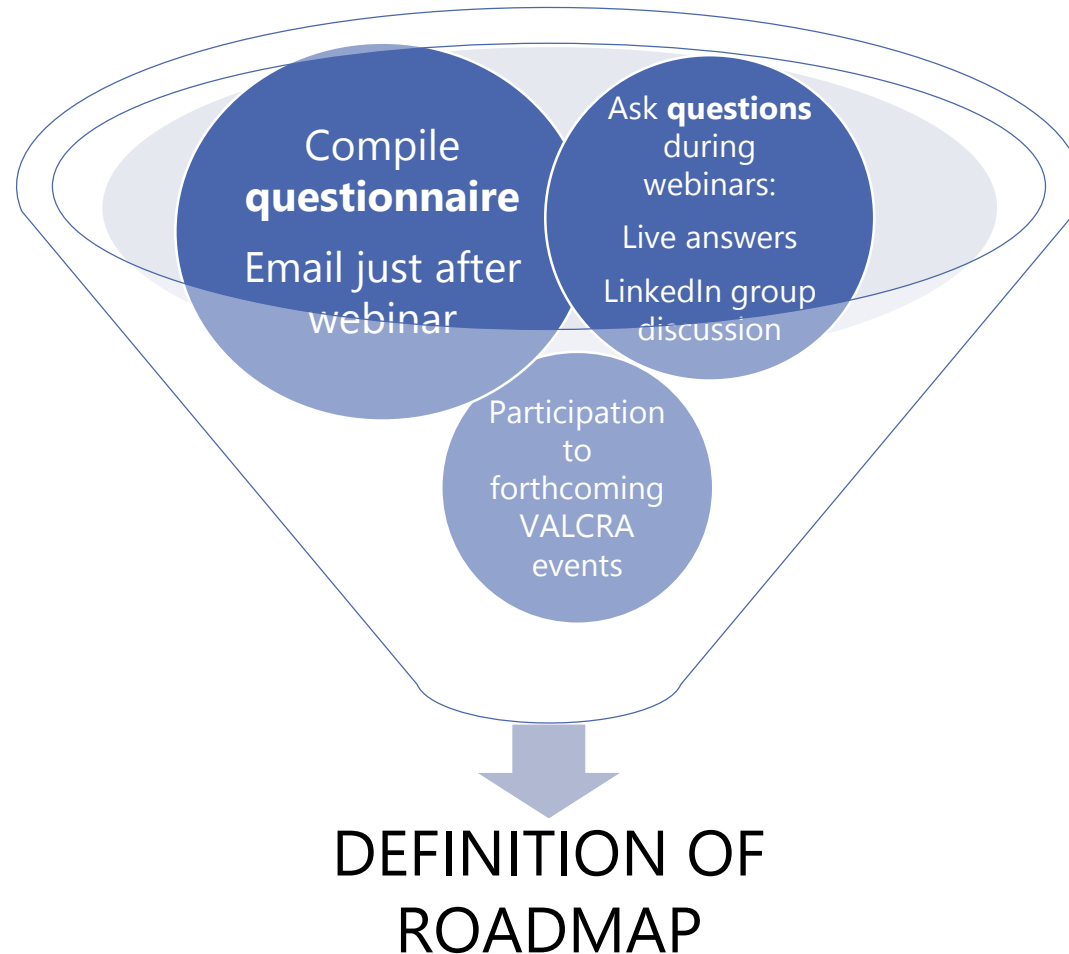




Enjoy the webinar!



## Build together the Roadmap for future research



## To-do list for webinar participants

### Stay updated

Follow LinkedIn page  
ECCN

Check [www.valcra.eu](http://www.valcra.eu)  
for event schedule &  
new documents

### Interact

**Compile ROADMAP  
questionnaire**

Request access to  
Valcra discussion  
group & **get answers**  
to your **questions**

### Stay informed

Download project  
**deliverables** from  
[www.valcra.eu](http://www.valcra.eu)

Download webinar  
**presentations &  
videos** from  
[www.valcra.eu](http://www.valcra.eu)

## Past and future events

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VIDEO

### Influence of microalloyed content on the billet continuous casting cracking

- Video of the workshop organized by Sidenor
- Link to view video at [www.valcra.eu](http://www.valcra.eu)



VIDEO

### Cracks in continuous casting: highlights of 25 years of RFCS research

- Video of the webinar organized by RINA-CSM
- Link to view video at [www.valcra.eu](http://www.valcra.eu)



WEBINAR

### The role of mould powders in continuous casting: properties and operating conditions

- Web live event
- **1<sup>st</sup> September**
- Organised by Material Processing Institute and RINA-CSM



WEBINAR

### Numerical Modelling in continuous casting

- Web live event
- **30<sup>th</sup> of September**
- Organised by SWERM



WORKSHOP

### Roadmap Workshop

- Event in presence
- Session of ECCC Conference 21<sup>st</sup> - 23<sup>rd</sup> October in Bari, Italy
- Organised by RINA-CSM



Thank you for your attention!

