Valorisation and dissemination of technologies for measurement, modelling and control in secondary metallurgy (DissTec)

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Objective of the Project

- The objective of the dissemination project DissTec is to revisit the most important European projects related to Secondary Metallurgy technologies carried out in the last two and a half decades.

- It would be useful to valorize, distribute and promote the exploitation of the results.

- It is a necessary step for preparing and communicating a roadmap for future research activities and priorities.
List of Topics

• Identifying the list of topics:
  • Measurement technologies for the quality relevant parameters of liquid steel
  • Process models
  • On-line control approaches
  • Connected auxiliary materials
  • Resources efficiency and environmental aspects
List of Aggregate

- The processes are categorized as follows:
  - Ladle furnace (LF)
  - Ladle stirring station (AS)
  - Vacuum tank degassing plant (VD)
  - RH degassing plant (RH)
  - CAS(-OB) plant (CAS)
  - VOD plant (VOD)
  - AOD converter (AOD)
  - Tundish (TUN)
Scoring

- The scoring of the projects has been based on the following four criteria:
  - **Zero**: if “the project idea does not work”
  - **One**: if “the project idea was in principle good, but industrial implementation was not possible at the time”
  - **Two**: if “the project idea is applied in at least one industrial plant”
  - **Three**: if “the project idea is state of the art and is applied in many plants”

# of projects scored zero:
- 2 projects (3%)
Seminars, Webinar and Workshop

- To disseminate the findings five Seminars, one for each partner, are planned with respect to the topics as presented above

<table>
<thead>
<tr>
<th>When</th>
<th>Who</th>
<th>Where</th>
<th>What</th>
</tr>
</thead>
<tbody>
<tr>
<td>27 April</td>
<td>CSM</td>
<td>Milan</td>
<td>Models for Secondary Metallurgy processes</td>
</tr>
<tr>
<td>22-23 May</td>
<td>MEFOS</td>
<td>Stockholm</td>
<td>Connected auxiliary materials</td>
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<tr>
<td>May / June</td>
<td>MPI</td>
<td>UK</td>
<td>Optimisation of Secondary Metallurgy practices wrt. models, measurement and control technologies (focus on clean steel)</td>
</tr>
<tr>
<td>June</td>
<td>BFI &amp; CRM</td>
<td>Vienna</td>
<td>Measurement technologies</td>
</tr>
<tr>
<td>14-15 Nov</td>
<td>BFI</td>
<td>Duisburg</td>
<td>On-line process control of Secondary Metallurgy plants (focus on EAF steelmaking)</td>
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Seminars, Webinar and Workshop

• In addition to the Seminars, two webinars are planned to introduce new technological breakthrough to European Industries

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<th>When</th>
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<tbody>
<tr>
<td>September</td>
<td>CSM &amp; BFI</td>
<td>Measurement technologies</td>
</tr>
<tr>
<td>October</td>
<td>MPI &amp; BFI</td>
<td>Level 2/3 Control Systems</td>
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Seminars, Webinar and Workshop

- As stated, one of the main objectives is to prepare a roadmap for future industry. The workshop is planned as the final step into the project as below:

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<th>When</th>
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<th>Where</th>
<th>What</th>
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<tbody>
<tr>
<td>10 Nov</td>
<td>BFI</td>
<td>Dusseldorf</td>
<td>Road map for future Secondary Metallurgy technology</td>
</tr>
</tbody>
</table>
Dessimination of materials

- The materials regarding the DissTec project (final reports, presentations and etc.) can be found in:
  - [http://www.bfi.de/de/projekte/disstec/](http://www.bfi.de/de/projekte/disstec/)

The picture presents part of the website!
Places and How to get there from Nordic Forum

- Uvån Hagfors Teknologi AB UHT
Places and How to get there from Nordic Forum

- FnB Market in Kista Galleria
Thank you!