asc(s Cluster Workshop Vehicle Physics

“Physics-Based Product Optimization"

Business Park Leinfelden-Echterdingen
Mai 12, 2015 | 9:00 | Auditorium

Project Appetizers can cover one or more of the following topics:

• stationary / non-stationary flows
• laminar / turbulent flows
• incompressible / compressible flows
• flows with heat transfer / transport
• flows with chemical reactions
• multiphase Flows
• fluid-structure interaction
• multiphysics
• ... or related topics

Project Appetizers will be accepted until April 30, 2015.
### 1.1. Motivation / Challenge:
Text

### 1.2. Project Goal:
Text

### 1.3. Expected results:
Text

### 1.4 rough time schedule

<table>
<thead>
<tr>
<th>Kick-off Project</th>
<th>Milestone-1</th>
<th>Milestone-2</th>
<th>Milestone-3</th>
<th>Milestone-xy</th>
<th>End of the project</th>
</tr>
</thead>
</table>

Contact Person: John Doe

Potential partners*: company A, institution B

Funding project*: yes / no

Industrial project*: yes / no

Project duration (month)*: xx

Estimated budget (T€)*: xxx

*optional information

State: DD.MM.YYYY

Cluster 3 – Vehicle Physics
PROJECT APPETIZER

CAE degree of innovation
- Use of HPC
- IT
- Numerics / Mathematics
- Modelling
- Process + Data
- Visualization

CAE direction of impact
- Closing methodological gaps
- Improving performance
- Increase forecasting accuracy
- New application
- Coupling application areas

Requirements
- Legal requirements
- Customer requirements
- Internal regulations
- Cost-saving
- Faster product development

Environmental relevance
- Reduction of emissions
- Reduction of noise
- Resource-saving

CAE classification
- CAE simulation
- Optimization
- Numerics and robustness
- Multi physics
- Other

Please tick as appropriate.

Please send your Project Appetizer to alexander.walser@asc-s.de by April 30, 2015 at the latest.

Automotive Simulation Center Stuttgart e.V.
Nobelstraße 15 | 70569 Stuttgart
Phone: +49 (0) 711 699 659 – 0

Contact Person: Dipl.-Ing. Alexander F. Walser
General Manager asc(s)