


## DA-HPC-OR: Data Analysis for Improving High Performance Computing Operations and Research

<p><b>Project partners</b></p>	 <p>Presentation at "HPC-CH Logging and Monitoring" Workshop 2019</p>
<p>University of Basel, University of Freiburg, University of Strasbourg</p>	
<p><b>Project duration / Awarded funding</b></p>	
<p>01.09.2018 – 29.02.2020 / 43.200 €</p>	
<p><b>Short description of the project</b></p>	<p>This project brings together interdisciplinary and trinational competences in the fields of high-performance computing, law, and data analysis. Scientists analyze the usage logs of high-performance computer centers used by universities, to optimize their use and support computational research. International regulations in this area are also the subject of studies.</p>
<p><b>Concrete implementation of the project</b></p>	
<ul style="list-style-type: none"> <li>• Employed a researcher to specify the monitoring requirements and to perform an initial analysis of monitoring data.</li> <li>• Employed a doctoral student from law to control the data protection requirements for the monitoring data at two computing centers: sciCORE and University of Freiburg.</li> <li>• Initiated an international workshop series on Monitoring and Operational Data Analytics (MODA) at the ISC High-Performance conference; the first edition held online in <a href="#">June 2020</a> and the second edition planned as a physical meeting in June 2021.</li> </ul>	
<p><b>Project results and continuation of collaboration</b></p>	
<ul style="list-style-type: none"> <li>• Setting up of monitoring activities at the University of Basel.</li> <li>• Legal analysis of the local, national and European data protection regulations.</li> <li>• Analysis of monitoring data at University Basel to identify the root cause of a cyberattack.</li> <li>• The DA-HPC-OR consortium grew into the ALCO consortium (Science Offensive 2018 proposal, unfunded), and into an even larger consortium interested in Monitoring and Operational Data Analytics (MODA) (see mentioned series of workshops above).</li> </ul>	
<p><b>Further information</b></p>	
<p><a href="#">Website</a> and <a href="#">Presentation</a> of the project</p> <p>Published project paper <a href="#">"Data Analysis for Improving High-Performance Computing Operations and Research. A Eucor Seed Money Project"</a></p>	