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SHIWA technology to enable the integration and collaboration of various workflow systems used in Europe

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User communities from all around Europe use many kinds of different workflow languages. Communities develop their workflows using one of the workflow engines. Workflow development, testing and validation are a time consuming process and it requires specific expertise. These limit the number of available workflows, so it is important to reuse them. Workflows developed for one workflow system is normally not compatible with workflows of other workflow systems. In the past if two user communities using different workflow systems wanted to collaborate, they had to create the workflows from scratch to transform them to the desired workflow languages. This situation can be resolved by emerging new workflow interoperability technologies. The goal of SHIWA is to develop such technologies.

According to the new SHIWA technologies publicly available workflows can be used by different research communities working on different workflow systems and are enabled to run on multiple distributed computing infrastructures. As a result workflow communities are not locked anymore in to their selected workflow system and their supported distributed computing infrastructure.

SHIWA develops, deploys and operates the SHIWA Simulation Platform to offer users production-level services supporting workflow interoperability. As part of the SHIWA Simulation Platform the SHIWA Repository facilitates publishing and sharing workflows, and the SHIWA Portal enables their actual enactment and execution in all the DCIs available in Europe.

In the talk we shortly introduce the SHIWA technology and explain the benefits users can get from it. Since SHIWA can integrate practically any kind of workflows and workflow systems used in Europe this talk is very relevant for the users and developers of every workflow system.

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