



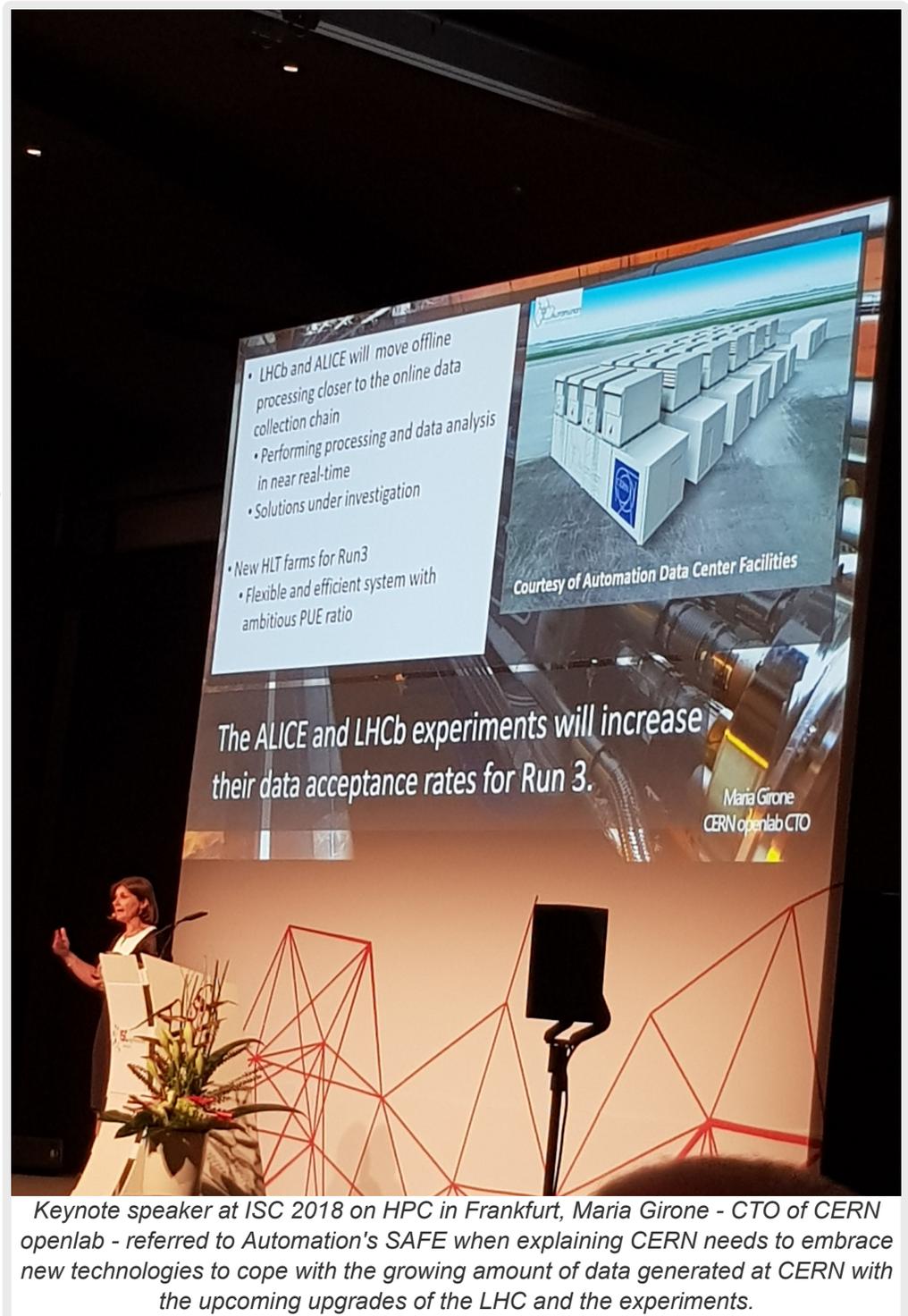
Automation gets order from CERN

22 Jun 2018 Halle - Halle-based Automation wins an order for the expansion of the data centres for 2 experiments at CERN. Thanks to the 10 modules, more information can be collected and managed at a reasonable cost and within a short delivery period. Furthermore, the modules will be installed on top of the experiments (Near Source).

It is beyond doubt that CERN, the European Organization for Nuclear Research, uses High Performance Compute (HPC) for its data processing and storage. The scientific and technical staff develop, build and monitor the perfect functioning of the particle accelerators. In addition, they provide support for the preparation, performance, analysis and interpretation of data from complex experiments.

CERN has decided not to build new or additional (traditional) data centres, but to use Prefabricated Data Centre Modules to carry out the upgrades instead. The advantages of these modules are obvious:

- Fast, flexible and efficient solution that complies with the highest quality standards
- A solution that complies to the high performance requirements of CERN-ICT
- 12-week delivery period
- Optimized performance configurations when it comes to power, density and energy efficiency
- Near Source: the modules are installed on top of the experiments, which implies a huge saving on the transfer of data



Keynote speaker at ISC 2018 on HPC in Frankfurt, Maria Girone - CTO of CERN openlab - referred to Automation's SAFE when explaining CERN needs to embrace new technologies to cope with the growing amount of data generated at CERN with the upcoming upgrades of the LHC and the experiments.

Each Prefabricated Data Centre provides a 2 MW net IT load with an estimated annual average pPUE below 1.075. Herewith, the Automation SAFE-ECO solution achieves a value far below the 1.10 pPUE requirement in terms of energy efficiency thanks to the integration of a cooling system that is specifically adapted to the weather conditions in Central Europe.

By way of comparison: a traditional data centre with a power of 2 MW has a pPUE between 1.35 and 1.8. Or, in other words: a traditional data centre consumes 25% more energy than a Prefabricated Data Centre.

A wide range of segments and businesses are already using Prefabricated Datacenter Modules:

- For Proximus the SAFE ECO system with 'fresh air' is currently being installed to support the FTTH project. The existing buildings will gradually be replaced with the modules, which, in addition, comply to the severest noise-level criteria for material in residential areas.
- 2 SAFE ECO 'Indirect Evaporative Cooling' units have already been installed in Mainz, Germany. The energy saving for this customer is estimated at at least 90,000 euro per year for a 100 KW net IT load data centre. There is also room to install 8 extra modules.

Furthermore, 600 personalized modules have been installed all over the world in a wide range of industries and applications, such as Industrial IoT, Telco, HPC and ECO.

Automation will be present at the ISC Exhibition in Frankfurt for HPC from 25 to 27 June at booth C-1222. In addition, the Project Manager of LHCb, Niko Neufeld, will be giving a presentation, on 27 June, in which he will explain why he has chosen Automation's Prefabricated Data Centre Modules.

The first 2 CERN modules will be delivered in September.

Source: Automation

[Back to Table of contents](#)

Primeur live 2018-06-26

Middleware

Cray announces new AI workflow software suite and reference configurations to jump-start AI and analytics deployments ...

InfiniBand accelerates the world-fastest HPC and Artificial Intelligence supercomputer at Oak Ridge National Laboratory ...

InfiniBand to connect world's top Arm-based supercomputer at Sandia National Laboratory ...

Cray announces scalable Flash storage solution for Lustre workloads ...

Gidel launches lossless compression IP that reduces storage needs by over 50%, utilizing only 1% of the FPGA, with low power consumption ...

Solid Sands and AbsInt combine tools strengths ...

Hardware

Asetek to showcase adaptable liquid cooling technology at ISC18 ...

Automation gets order from CERN ...

Satavia to utilise Verne Global's hpcDIRECT platform to deliver mission-critical environmental intelligence to the aviation sector ...

New platform offers customized computing for future workloads ...

Fujitsu completes Post-K supercomputer CPU prototype and begins functionality trials ...

TOP500

Atos and the CEA place Tera 1000, the most powerful research supercomputer in the European Union, in the world's top 15 ...

Four new systems in the most recent TOP500 list but overall persistence of slow down phenomenon ...

The Cloud

Adaptive Computing partners with Google Cloud to offer seamless HPC Cloud bursting to GCP with Moab/NODUS Cloud bursting ...

XTREME-D debuts revolutionary IaaS for accessing HPC in the Cloud via gateway appliance ...

Company news

CoolIT Systems demonstrates industry leadership through ongoing liquid cooling collaborations with OEM partners ...

DDN announces A3I solutions: parallel data platforms for AI ...

Lenovo attains status as largest global provider of TOP500 supercomputers ...

Supermicro, RedHat and Solarflare set world record performance mark with double-digit latency improvement on financial applications ...

News flashes 2018-06-26



LE GOUVERNEMENT
DU GRAND-DUCHÉ DE LUXEMBOURG

The EuroHPC JU will have its seat Luxembourg [Focus on Europe](#)

News flashes 2018-06-23



No supercomputer in the European Union in the top 3 of the world? For BSC that is a choice, says Mateo Valero [Focus on Europe](#)

