

E-learning infrastructure and user support for higher education in Croatia

June 9th 2020, TF-EDU virtual mini conference
Zvonko Martinović, University Computing Centre (SRCE)



E-learning Center @ SRCE

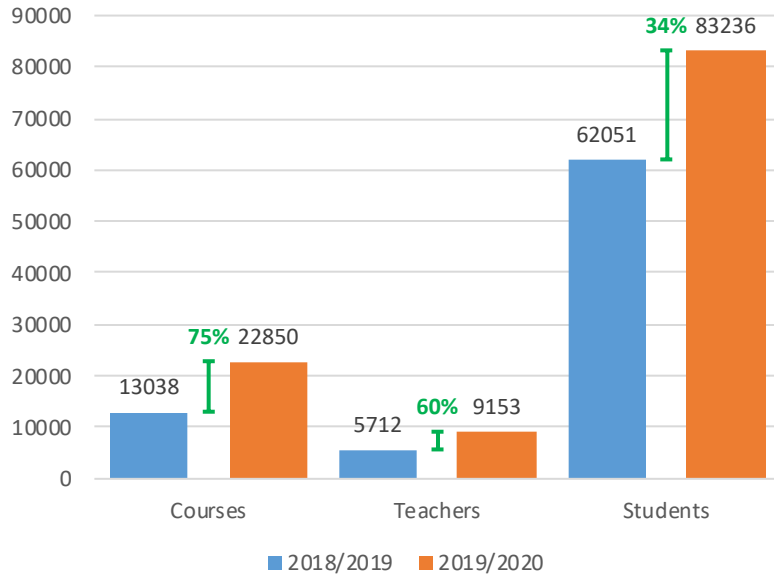


- <https://www.srce.unizg.hr/en/elc>
- The E-learning Centre was established at the University Computing Centre of the University of Zagreb in 2007.
- The Centre holds a central role in the systematic implementation of e-learning at HE in Croatia
- Basic objectives of the E-learning Centre are:
 - to provide support to teachers, students, e-learning teams and institutions
 - to provide and maintain a reliable and generally accessible university platform for e-learning
 - to support the university network of people involved or interested in e-learning
 - to promote and foster the e-learning implementation
- Systems ELC provide to our users:
 - Merlin – University e-learning platform (<https://merlin.srce.hr>)
 - Webinars (<https://connect.srce.hr>)
 - MoD, MuS, e-portfolio, Moodle2Test, Moodle2Demo...

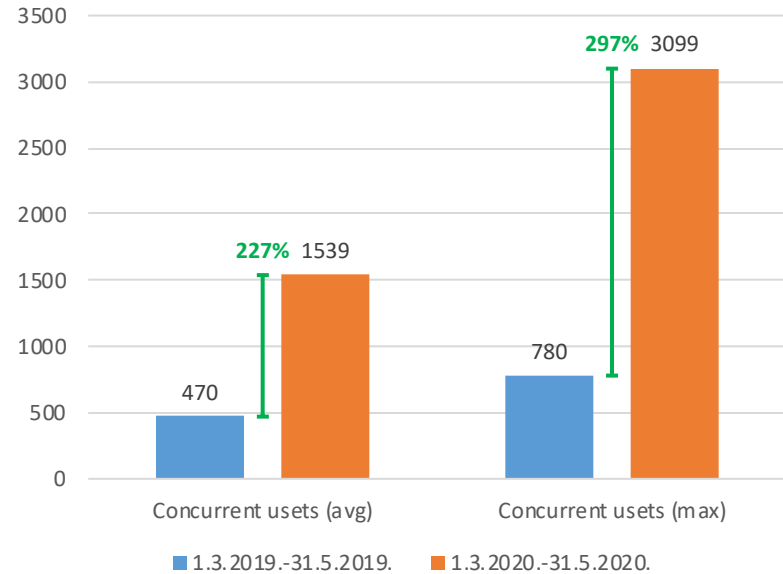


E-learning system Merlin (Moodle with custom addins)

Merlin usage

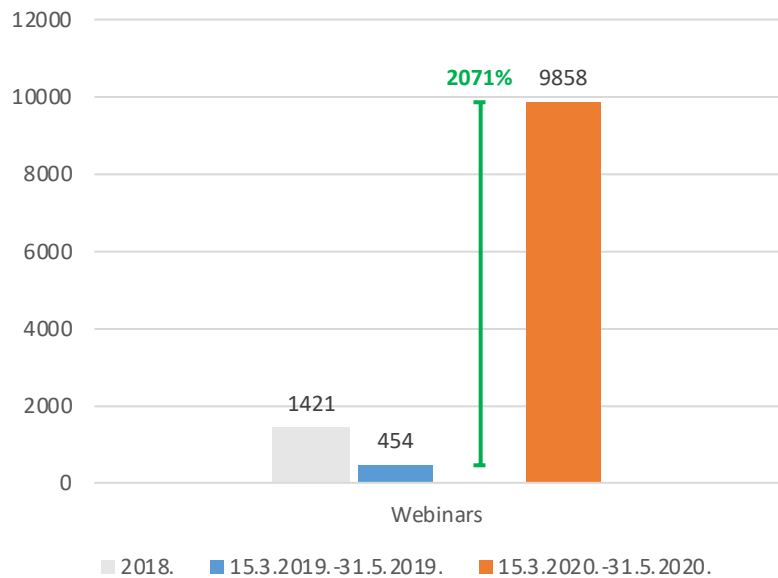


Merlin concurrent users

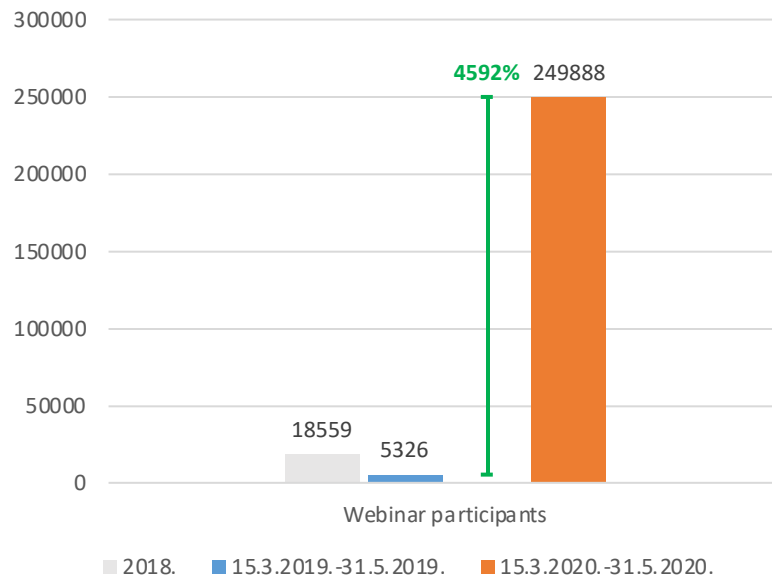


Webinar system (Adobe Connect with 52 Named Host licences)

Webinar usage

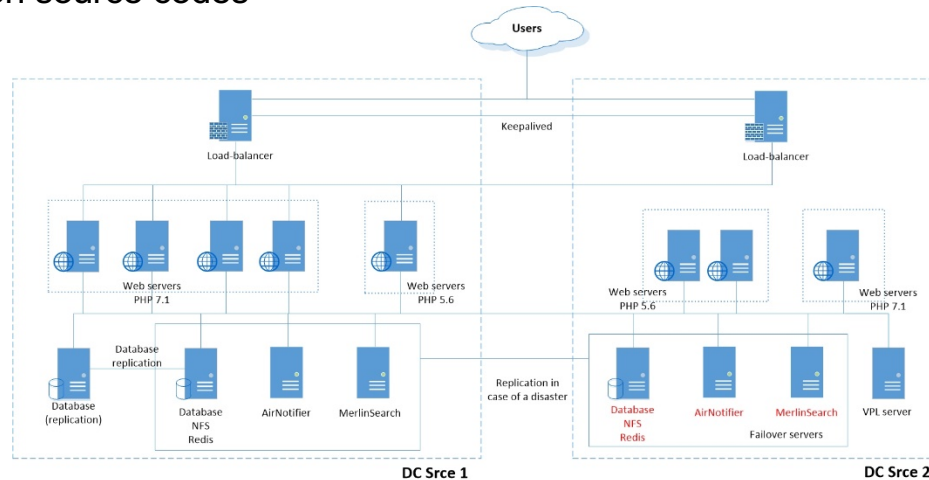


Webinar participants

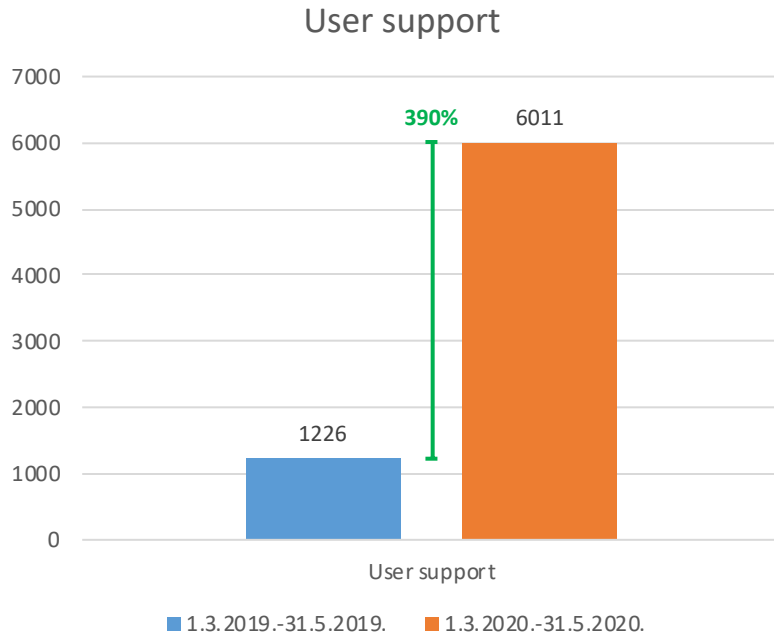


Server architecture

- Huge increase in system resources (CPU, RAM, disk space...)
- Added new server for NFS and Redis (previously running on DB server)
- Fine tuning of all vital services (HaProxy, PHP-FPM, Apache, PostgreSQL...)
- Tuning of application source codes
- ...



User support (email, phone, consultations...)



- Created a set of instructions to facilitate online exams
- Created a set of show instructions on different webinar systems
- Opened an existing online course without limitations
- Added number of new features to Merlin
- ...



Plans for the next 3-6 months

- Upgrade system Merlin to Moodle 3.9
- Review of webinar systems on a market to facilitate more concurrent users
- Further server architecture optimisation
- Better integration with existing services
- New online courses
- ...



<http://www.srce.unizg.hr/en/elc>

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