

Overview of audience response systems (AR systems) at the University of Freiburg (as of January 2022)

	eduVote (campus license 2022-2024)	LiveVoting ILIAS	SMILE: Smartphones in teaching
Description	eduVote is an AR system that is integrated directly into PowerPoint via add-in and is therefore easy to use. You can create it directly when editing your presentation. According to the provider, the number of participants in the survey is not limited and it has already been used successfully with more than 1000 participants ... In this case, however, it is recommended to connect the teacher's computer to the Internet via a LAN connection.	The ILIAS object "LiveVoting" is an AR system integrated in ILIAS. LiveVoting can be used in face-to-face courses to enable more interactivity between teachers and participants/students. In general, LiveVoting can be used to enable more interaction even in courses with a high number of participants (> 300 participants). The integration in ILIAS makes it possible to create the LiveVoting directly when preparing the ILIAS course.	SMILE offers the possibility to use the smartphone as a teaching aid. With the help of the quiz module, teachers get an overview of how well the lecture content was understood. Students, on the other hand, can provide feedback at any time, either via live feedback or via the "Question & Answer" module, without interrupting the flow of the lecture.
Registration teachers?	Teachers register via the website www.eduvote.de by entering their official e-mail address. When registering, it is necessary to agree to the terms and conditions (https://eduvote.de/en/agb.html) and the privacy policy (https://eduvote.de/en/impressum.html). ¹	LiveVoting can be created directly via the ILIAS learning platform, no additional registration is necessary. https://ilias.uni-freiburg.de	Teachers of the University of Freiburg can log in via Shibboleth with their university account. https://www.smile.informatik.uni-freiburg.de/ (in german)
Registration participants?	Participants take part via the eduVote app or via a browser via vote.ac ; there is no registration; to participate, the ID provided by the teacher is entered; participation via QR code is also possible.	Participants take part via a link or QR code. It is not necessary to be logged in on ILIAS.	Access via "token", if "Allow guest access" has been activated by the teacher. Otherwise, login via Shibboleth (see teachers), which also allows students to access previous activities in SMILE.

¹ "The following data is collected as part of the registration process: 1) e-mail address; At the time of registration, the following data is also stored: 2) date and time of registration; When using eduVote, the following data is also stored: 1) date and time of last use, 2) total votes collected; As part of the registration process, consent is obtained from the user to process this data. At no time are the questions asked or answers given stored on servers of Buchholz Wengst GbR."

Question types	<ul style="list-style-type: none"> - Single/multiple selection - Word cloud 	<ul style="list-style-type: none"> - Single/multiple selection - Text input (e.g. for collecting terms/ideas) - Order / sorting entries - Prioritization by sorting orders - Estimating numbers 	<ul style="list-style-type: none"> - Single/multiple selection - Cloze <p>Further modules available:</p> <ul style="list-style-type: none"> - Feedback - Q&A - Quiz - Gamification (integration of points, levels & leaderboards in the quiz module)
Presentation of results	<ul style="list-style-type: none"> - Various chart options are available (individual customization through Excel functionalities) - Word cloud - Highlighting of the correct answers is possible 	<ul style="list-style-type: none"> - Depending on the question type - Simple bar charts, not further configurable from teacher's perspective 	<ul style="list-style-type: none"> - Depending on the question type, automatically generated
Hosting / GDPR	The servers are operated by SimpleSoft (Buchholz Wengst GbR), according to the provider GDPR-compliant	Runs on the ILIAS system of the University of Freiburg	The Department of Computer Science, Chair of Computer Architecture, is responsible for the data in Freiburg. https://smile.informatik.uni-freiburg.de/CoC/
Tutorials and support	Telephone and e-mail support is provided by SimpleSoft. There is a detailed text instruction: https://eduvote.de/en/ueberblick.html and a PDF-tutorial: https://eduvote.de/downloads/Dozenten-Hilfe_en.pdf as well as video tutorials, e.g. this one: eduVote with the PowerPoint Add-In (in German): https://www.youtube.com/watch?v=86WVhfFa5-k	Telephone and e-mail support is provided by the E-Learning Service Center. Instructions are available via the toolbox: https://ilias.uni-freiburg.de/goto.php?target=wiki_wpage_1961_6_1631765&client_id=unifreiburg	Support is available to teachers and students via the "Help" page (in German): https://www.smile.informatik.uni-freiburg.de/de/help.html Tutorials are also available (in German): https://www.smile.informatik.uni-freiburg.de/de/tutorial.html and here (in German): https://www.youtube.com/channel/UCFKDSWxEsD1NXyawXGGUlag/feed

	eduVote votes in the browser and on a second screen (in German: https://www.youtube.com/watch?v=ReetD5k_mh0)		
Advantages	<ul style="list-style-type: none"> - Integration into existing PowerPoint presentations via PowerPoint Add-In - Results can be viewed previously via a second screen - You can start the vote directly via a button on the PowerPoint slide - Customization of the design of the survey results is possible (access to Excel features) 	<ul style="list-style-type: none"> - You can integrate multiple questions in one LiveVoting - More diverse question types 	<ul style="list-style-type: none"> - In addition to the classic lecture questions, it offers further modules, such as a live feedback, the possibility to ask live questions, as well as gamification features - Students can submit new quiz questions themselves
Neutral	<ul style="list-style-type: none"> - Add-in must be installed first - Registration via eduvote.de 	<ul style="list-style-type: none"> - Start of the vote via ILIAS (the teacher has to log in first) 	<ul style="list-style-type: none"> - Creation of quizzes and retrieval of (live) results is always done via the browser or the teacher's client.
Disadvantages	<ul style="list-style-type: none"> - Campus license required 	<ul style="list-style-type: none"> - The display of the results cannot be customized 	<ul style="list-style-type: none"> - The display of the results cannot be customized

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