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Reimagining Language Learning in Higher Education: Key-Roles for Technology



Christine Appel and Susana S. Fernández

Abstract The COVID-19 emergency lockdown in 2020 presented an unprecedented 1 challenge that brought technology to the foreground. This chapter discusses the role 2 of technology in language learning at higher education in the aftermath of the abrupt 3 shift to emergency remote teaching due to the pandemic crisis. The chapter briefly Δ introduces the area of language learning, including current trends in pedagogical 5 approaches, focus points and learning objectives as well as the state of the art in 6 computer-assisted language learning. Thereafter, three different but complementary 7 strands for digital tools in language learning at higher education are discussed: digital 8 tools as communication channels, as channels for delivering instruction and as 'cogni-9 tive partners'. We argue that language education can advance the use of technologies 10 in education in general and the acquisition of twenty-first century skills by higher 11 education students, but we also discuss the need of redefining what it means to be a 12

¹³ proficient speaker of a language in light of the numerous tools available.

14 **1 Introduction**

The time is right to discuss technology and education, as the COVID-19 emergency lockdown in 2020 presented an unprecedented challenge that brought technology to the foreground. At very short notice, educational environments all around the world were forced to convert all their teaching practices to an online modality. Language education was no exception and language educators, regardless of their previous experience with online teaching, had to suddenly reorganize their teaching and switch

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to online environments, often with limited guidance and resources. After the first shock and with the experience accumulated since spring 2020, it is now time to look forward and reflect on how language education can profit from the lessons learnt during the rapid technological adjustment demanded by the pandemic. While emerging challenges and opportunities for language education will be our focus, the article will also provide food for thought for scholars from other educational areas.

In this article, we intend to focus on the interface of technology development and language learning/teaching at higher education by adopting a future-oriented perspective on how this area of education may develop in the near to middle-term future and by focusing on potential accelerators and barriers.

We will discuss some of the main difficulties encountered during the abrupt 31 conversion to online mode during the pandemic, a period that some authors have 32 referred to as emergency remote education [16], pointing out the need to distin-33 guish it from previous experiences of online education given that it was imposed 34 by traumatic circumstances and those involved were under psychological pressure 35 and anxiety. Some of the main challenges include the struggle to include all students 36 [16], the adoption of new teacher and learner roles, maintaining quality in teaching 37 and learning and managing emotions [63]. We will provide examples from the emer-38 gency remote teaching period, as well as from regular online and blended teaching 39 approaches and virtual exchanges, describing best practices that have led to the 40 current developments. Many of these issues revolve around the adequate match of 41 pedagogical activities with synchronous and asynchronous modes of interaction, and 42 the available technologies to facilitate these. 43

New challenges do not only emerge from crisis but also, perhaps paradoxi-44 cally at first sight, from advances in language technologies. For instance, despite 45 widespread use of technologies such as machine translators and grammar correctors 46 among students, these technologies are often poorly understood by both teachers 47 and learners, which makes teachers and administrators swing between prohibition 48 and reluctance to deal with the issue. Therefore, we will also suggest paths towards 49 the integration of language technologies in language education, including a raised 50 awareness of their limitations and risks. 51

Our empirical point of departure for the present discussion comes from two rather 52 different higher education contexts: a traditional university with physical and blended 53 classes (Aarhus University, henceforth AU) and a full online university (Open Univer-54 sity of Catalonia, henceforth UOC). The former had to reorganize its teaching online 55 literally overnight at the outbreak of the pandemic. This process highlighted the need 56 for a better understanding of the role of technology as a mediational tool in language 57 learning as educational technology already available, but so far not fully exploited, 58 was forced to the foreground in response to a sudden change in the learning setting. 59 As so many other higher education institutions around the world, AU had to address 60 the strenuous circumstances surrounding students, teachers, and other staff members, 61 but they were able to continue teaching with few adjustments to the systems already 62 in place. On the other hand, one could say that UOC in many ways continued "busi-63 ness as usual", except for the fact that all actors involved-students, teachers, and 64 coordinators—were affected by the pandemic, which hit Spain badly and brought 65

about some particularly harsh lockdown measures. In terms of university mecha-66 nisms, the health crisis precipitated the application of online examinations, which 67 had already been piloted but was still not entirely deployed in March 2020. 68

The structure of the chapter is as follows: we will briefly introduce to the area of 69 language learning, including current trends in pedagogical approaches, focus points 70 and learning objectives, as well as the state of the art in computer-assisted language 71 learning. Thereafter, we will propose three different but complementary strands for 72 digital tools in language learning at higher education: as communication channels, 73 'cognitive partners' and means for delivering instruction. 74

2 Introduction to the Area of Foreign Language Learning 75 and Teaching: Current Trends in Pedagogical 76 **Approaches, Focus Points and Learning Objectives** 77

At present, the overall aim of foreign language education is to develop the student's 78 ability to perform appropriately, fluently, and precisely in the target language, orally 79 and / or in writing, in a variety of situations. Learners are therefore considered not 80 only just learners, but language users and social agents from the very beginning. 81 In previous decades, the emphasis was on the development of linguistic compe-82 tence, i.e., pronunciation, vocabulary, and grammar, with a greater focus on declar-83 ative knowledge (knowledge about the language) than on procedural skills (being 84 able to use this knowledge in communication) [24]. This focus has characterized 85 traditional language teaching, e.g., the well-established and widespread Grammar-86 translation method, where grammar teaching, translation practice and guided exer-87 cises were considered key to acquiring and developing the language. The change 88 in perspective from language knowledge to language use has been gradual, slow, 89 and characterized by several perhaps contradicting approaches that still to some 90 degree coexist. At higher education level, the communication-oriented approach can 91 be combined with a primary focus on system knowledge and theory, particularly in 92 the context of, for example, language teacher or translator/interpreter training [2, 93 3, 34], in contrast to language courses simply aimed at promoting higher education 94 students' language competences as additional competence (e.g. English courses for 95 Engineering students), where less explicit declarative language awareness is needed. 96 The present widespread communicative approach to language learning [21, 55] 97 expands our understanding of language to comprise, in addition to linguistic compe-98 tence, pragmatic knowledge and skills, communicative strategies and learning strate-99 gies, as well as discursive knowledge and skills of conversation and text structure 100 (see Fig. 1). This includes all the linguistic aspects that are required for a learner to 101 develop and use the target language communicatively and brings the communicative 102 contexts in which the target language is to be used to the foreground. 103 Focus on communicative competence [20] implies the need for communicative, 104

task-based teaching methods [33, 60], where students are given the opportunity to 105

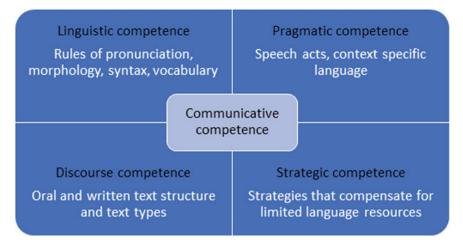


Fig. 1 Aspects of communicative competence (adapted from Henriksen [47]: 57)

¹⁰⁶ use the language actively (solve "tasks"), engage in a variety of communicative ¹⁰⁷ situations and work with different types of authentic, multimodal texts. Particularly, ¹⁰⁸ the understanding that language learners need to use the language out in the world ¹⁰⁹ and interact with people beyond their own local environment, both as end goal for ¹¹⁰ language education, and along the way in order to train exactly this ability, has ¹¹¹ evidenced the need for an "intercultural" approach, and this has given rise to a new ¹¹² competence dimension.

Through the work of Michael [18], the concept of communicative competence has 113 been enriched with an additional competence, intercultural competence, giving rise 114 to the now well-established notion of Intercultural communicative competence as all-115 encompassing goal for language education, and bringing the intercultural dimension 116 to the forefront [19]. The idea is that students must not only be able to use the 117 language in a context-adequate fashion but must also possess the ability to interact 118 with language users from other cultures [78]. "Cultures" is understood not only as 119 national cultures, but much more broadly as any kind of grouping that we as humans 120 belong to, be it related to national origin, religion, sexual orientation, professional 121 interests, hobbies, or the like. This expands the view of language learning to include 122 dimensions of identity and personal development. 123

The shift in the understanding of language learning, from a narrow focus on 124 linguistic competence to communicative competence and later intercultural commu-125 nicative competence, has been accompanied by large pendulum swings and the 126 emergence of new theoretical positions [59]. The first major shift was from the 127 Behaviourist view of language learning, as the acquisition of habits, to Cogni-128 tive approaches focusing on the learner's complex acquisition processes, including 129 hypothesis development and testing as the driving force in the development of 130 the student's interlanguage (emerging language), and Sociocultural approaches that 131 emphasize the fact that language acquisition takes place in a social context with 132

the help of others. Interaction with other learners or users of the language plays,
 therefore, a major role in the collaborative learning process as understood today, and
 support from both teachers, learners and digital tools has become crucial, particularly
 in the form of feedback.

137 **3** State of the Art About CALL

Computer-assisted Language Learning (CALL) studies the use of technology in 138 language teaching and learning since the early 1980s. Since then, and as computers 139 have evolved into a variety of devices that have become a part of our everyday lives, 140 the study of CALL has developed rapidly, evolving from early studies about the use 141 of CD-ROM materials for language learning to the present studies of remote emer-142 gency teaching during the COVID-19 pandemic. Much has happened in-between, 143 and CALL has become a broad area of study encompassing many dimensions [57], 144 computer-mediated-communication (CMC) being one of the dimensions that has 145 attracted special attention from instructional designers and researchers. Along the 146 years, alternative terms have emerged, such as Technology-Enhanced Language 147 Learning (TELL), network-based language learning or information and commu-148 nication technologies for language learning [58]. In this chapter, we use the term 149 CALL as a broad term including all the above. 150

Computers have become an unavoidable actor for instruction in foreign/second 151 languages, as they allow both learners and teachers to access materials and courses, 152 interact with others, write in their target languages, use the language in and out of the 153 classroom with speakers around the world, and even take their language tests-all 154 of this exponentially enhanced by the ever-growing spread of the internet [25]. Otto 155 [73], in her historical review of technology for second language learning, paints a 156 compelling picture of how the fundamental media for language learning and teaching 157 (text, audio, video and images) have remained constant, unlike their technological 158 formats and their role in instruction (p. 21). She describes an evolution of CALL from 159 delivery via localized technologies (starting with mainframe computers in the 1960's) 160 to the network-based means of today, where access is available anywhere and at any 161 time. Advances in technology have allowed computers to gradually respond more 162 and more to today's pedagogical and methodological requirements. For a number 163 of years, and up to the early 1980s, computers provided mostly drill-like prac-164 tice in the form of flashcards for vocabulary learning, uncontextualized grammar 165 exercises and translations, having the role of "drill-master and tutor", due to the 166 fact that the technology was not yet able to cope with more complex communi-167 cation and interaction. The inclusion of games for instruction in the 1980's was, 168 according to Otto, one of the first attempts to move away from drilling and to add 169 an element of fun. At the same time, the growing focus on communication brought 170 about the production of materials that exploited authentic media, including films, 171 news programs, documentaries, commercials, and satellite technology allowed for 172 broadcasting programs for language learning. Language corpora also became more 173

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and more deployed about this time, giving way to data-driven language learning, as concordancing programs allowed searching for words and constructions in their natural context of use. Advances in corpora included the construction of learner corpora, which made it possible to identify learning problems to be addressed in the classroom [44].

The arrival of the Internet in the early 1990s is a colossal landmark, which 170 contributed to cementing the role of the computer as tool and medium. One of 180 the Web's many contributions is the emergence of Learning Management Systems 181 (LMSs) or Course Management Systems (CMSs) (see also Sect. 4.3) and VoiP 182 or video conferencing programs, allowing to host synchronous and asynchronous 183 learning activities, administer tests and store materials. This enabled the delivery of 184 online, blended and hyflex (simultaneously online and in the physical classroom) 185 instruction, widespread modalities which are exploited in a variety of settings and 186 have been a game-changer at the outbreak of the COVID pandemic, as they allowed 187 instruction to go on despite a worldwide lockdown that secluded teachers and learners 188 from learning institutions. These instruction forms have the potential of leading to 189 transformative language learning, fostering inclusiveness by making room for vulner-190 able, marginalized groups to get a voice, thus contributing to decolonizing language 191 education [42]. Likewise, CMC, already mentioned, was fostered by the raise of the 192 World Wide Web (and enhanced by the Web 2 or social web in the 2000s, and by 103 mobile devices such as phones and tablets that allow for constant connectivity) and 194 arose in the mid-1990s as an area of study, still present today, particularly regarding 195 communication in social media and digital literacy [46]. 196

This evolution of the computer's role presented in Otto's [73] historical review was 197 accounted for by Warschauer [82] and Warschauer and Healey [83], who proposed 108 three CALL phases: structural/behaviouristic, communicative/cognitive and integra-199 tive/sociocognitive. In a slightly more critical version, Bax [8] termed the phases as 200 Restricted, Open and Integrative. Regardless of terminology, both conceptualiza-201 tions of CALL's development strive towards normalization: "CALL finally becomes 202 invisible, serving the needs of learners and integrated into every teachers' everyday 203 practice" (Bax [8], p. 27). From a pedagogical point of view, Bax's three types of 204 CALL do not exclude each other and are in fact coexisting, as different pedagogical 205 approaches do also coexist today. Although a tutor-like/behaviouristic function may 206 still be justified in certain contexts, the real potential of CALL nowadays lies in 207 its enabling learners to take initiative and become more autonomous, in facilitating 208 communication with others and in widening the possibilities of virtual exchange and 209 distance education. This potential is not only held in formal teaching and learning 210 contexts but has also given rise to a myriad of opportunities for informal learning. 211 Mobile Assisted Language Learning (MALL), a subset of CALL, studies the use of 212 Apps for language learning from devices such as smartphones or tablets that have 213 become popular amongst learners who choose to learn a language outside a formal 214 context. Social networking sites devoted to language learning have also tapped into 215 the potential of large numbers of language learners on the web looking to have contact 216 with native speakers of their target language [53]. 217

CALL's affordances, today more than ever, call for teacher training in the use 218 of information and communication technologies, a discussion that has come to the 210 fore with the pandemic. Pre- and in-service teachers need not only technological 220 skills, but also knowledge of how to use the technology and for what purpose from 221 a pedagogical perspective [47]. At the same time, they need to reflect on their role 222 in the digital learning environment, not so much as being in charge, but rather as 223 facilitators and advisors [23]. Recently, and especially after the pandemic, there are 224 new demands for wellbeing to be included in the curriculum of teacher training 225 programs, in response to the stress that a lack of training in this respect can cause in 226 teachers [63]. 227

4 Three Strands for Digital Tools in Language Learning

In this section we intend to zoom into what we consider the three main areas where technology, in the form of digital tools, is defining and redefining language instruction both at higher education and beyond. We are referring to digital tools, which allow language users and learners to communicate with each other despite geographical distance; digital tools, which become partners in cognition for language learners and users; and digital tools used for delivering language instruction. For each case, we discuss their affordances and challenges.

4.1 Digital Tools as Communication Channels: Virtual Exchange for Intercultural Competence

Online teaching across disciplines connects with an understanding of technology primarily as a tool for communication that helps orchestrating learning. In the case of language learning, the internet also gives access to a rich 'context' for the target language [52], most notably through 'virtual exchanges' [71]. This teaching practice gained consolidation during the pandemic and is arguably the practice with the strongest potential for improving the students' 'linguacultural' [78] proficiency.

"Online intercultural exchange" (OIE) is a pedagogical tool that consists in 244 bringing together learners from different locations so that they can get to know 245 each other, exchange information, or work together to solve a common task. In the 246 pedagogical literature, there is normally a differentiation between putting into contact 247 whole classes of learners-often divided into groups-, called telecollaboration, or 248 pairing two learners, normally referred to as *tandem*. In the case of both techniques, 249 the practice is quite extended around the world for foreign language learning at all 250 levels of the educational system, but it is still under development. The understanding 251 of foreign language learning as communication and as a site for personal intercultural 252 development has made this kind of communication across geographical locations an 253

attractive possibility for language teachers, with humble beginnings through "pen pals" in less technological decades, e-mail exchanges in the beginning of the internet
era, to the many digital communication channels—synchronous and asynchronous—
that we have today. OIE can also take place between learners of the same foreign
language who are placed in different geographical locations and use the language
that they are learning as a lingua franca to communicate with each other.

The literature on OIE emphasizes two main purposes of this pedagogical tech-260 nique: developing language skills and promoting intercultural competence [70]. 261 Indeed, numerous studies have shown the advantages of OIE for these purposes 262 (see e.g., Belz [10]; Belz and Thorne [12]; Morollón Martí and Fernández [67] for 263 language skills, included pragmatic skills, or Belz and Kinginger [11], O'Dowd 264 [37], Fernández and Pozzo [68] for intercultural competence and cultural awareness, 265 among many others), but we believe that this is far from the whole picture. OIE 266 offers a perfect setting for learners to develop not only language and culture related 267 competences, but more broadly the whole spectrum of twenty-first century skills 268 (also known as "non-cognitive skills," "whole child development skills," "soft skills," 269 "transferable skills," "transversal competencies," "life skills" and "social-emotional 270 skills" [43]), defined as: 271

abilities and attributes that can be taught or learned in order to enhance ways of thinking,
learning, working and living in the world. The skills include creativity and innovation, critical thinking/problem solving/decision making, learning to learn/metacognition, communication, collaboration (teamwork), information literacy, ICT literacy, citizenship (local and
global), life and career skills, and personal and social responsibility (including cultural
awareness and competence) [13].

Besides 21st century skills, OIE has another obvious potential learning outcome: 278 the acquisition of content knowledge of any kind, according to the exchange design 279 and to the kind of information exchange or kind of common project work that learners 280 are set up to perform. In educational settings (like in Denmark), where language 281 education is conceptualized as language and culture education (see e.g. the language 282 curricula from the Danish Ministry of Education [30]), there is an element of content 283 learning (be it history, society, politics, geography, among others) embedded in most 284 language classes, and more often than not OIE projects will include an element of 285 content learning (see e.g. [36, 37] for a project where AU students learn Argentinian 286 history-besides language and intercultural skills-through OIE). 287

With this broader view of OIE in mind, it is clear to us that this technique, 288 which emerged in language education with language and culture skills in mind, 289 is in fact equally useful and relevant to other subject areas in education, including 290 higher education, as it allows the development of much more than just language 291 and cultural/intercultural competence. Today, there are OIE projects around the 292 world, which are initiated in other educational fields than language studies (see e.g. 293 the Soliya project at https://soliya.net/, or see O'Dowd [69] and Dooly and Sadler 294 [32], who argue for the integration of OIE in teacher education), but this is an area 295 where language education has been at the forefront and no doubt has contributed to 296 advancing pedagogical development in other education areas as well. 297

As explained in the previous section, OIE has been practiced in language education (and beyond) for some time, and the two universities which are at the core of this article are of course no exception.

For a traditional university like AU, the first telecollaborative projects were 302 connected to Ph.D.-projects [49, 66], which later became an inspiration source for 303 a more permanent practice in the respective departments (French and Spanish). The 304 beginnings were plagued with technological difficulties and insecurities (related to 305 e.g. unstable internet connections, malfunction of recording programs, lack of exper-306 tise in using the digital tools), a well-known problem in OIE [70], as well as orga-307 nizational difficulties related to the collaboration with teachers and students from 308 other institutions and locations (e.g. difficulties in agreeing on a date and time for 309 the synchronous sessions, different understandings of punctuality, discrepancies in 310 instructions given by the teachers involved on each side) [36], but as everything 311 else, experience was gained and insecurities were overcome along the way, and this 312 experience was part of the background that facilitated AU language teachers and 313 students' rapid transition to online teaching on the 13th of March 2020, when the 314 country went on lockdown. From that date on and during the following 1¹/₂ year, 315 most teaching was performed online via zoom or other communication platforms, 316 much like students had tried in their OIE activities. This time, students were commu-317 nicating with each other and with their teachers instead of with partners from other 318 locations, or rather they were doing both things, as OIE activities continued for some 319 of the students and were the only opportunity for mobility (virtual mobility). The 320 reopening of campus and the return to presential classes is welcomed by students, but 321 the use of communication technology has become an integral part of the students' 322 and teachers' pedagogical toolbox and will continue to be present both for in-house 323 and international communication. 324

For a fully online university such as UOC, in which students are engaged in the 325 use of ICTs as their main means of communication with their teacher and classmates. 326 as well as with the institutional administrative academic services. OIE is a means to 327 broaden horizons by providing contact with students who are native speakers of other 328 languages and belong to other cultural settings, providing an ideal arena to develop 329 the twenty-first century skills mentioned above. OIE projects are also seen at UOC 330 as an opportunity to pilot new technologies and modes of online collaboration before 331 streamlining these practices in regular language courses with higher stakes related 332 to their degree examinations. Thus, early experiences in tandem language learning 333 projects in UOC started in 2008 (see [4, 7]) using Skype, web-based materials for 334 activity instruction and input, and a Skype recorder to be able to carry out post-task 335 reflection activities. While UOC learners were supposed to be familiar with the use 336 of technology for education, the use of VoiP (Voice over Internet Protocol) tools 337 was still incipient in Spain back in 2008 and presented some challenges. In addition, 338 tandem partners in the UK and Ireland were not used to online language programmes, 339 which meant that technological difficulties with downloading and installation of 340 programmes had to be dealt with. User guides were developed and a forum for 341

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technological issues was set up. However, the main hurdle to be overcome was not technological but related to foreign language anxiety (FLA), a common phenomenon in many learners when it comes to speaking practice [15, 48, 75]. On the other side of the coin, one of the main outcomes was a huge sense of accomplishment and empowerment once learners were able to overcome their initial reticence along with the anxiety experienced at the prospect of having to converse with a native speaker of their target language [4].

The early OIE experiences in UOC led to the development of tools and a pedagog-349 ical approach for online speaking interaction practice within the framework of the 350 SpeakApps project [5], which were incorporated to foreign language online class-351 rooms and employed for learner-learner interaction. The main feature in this approach 352 is the conceptualization of synchronous work. When UOC was founded in 1994 as a 353 100% online university, its motto was that students could learn from anywhere and 354 at any time. This, together with the available technologies at the time, meant that 355 teaching and learning were fully asynchronous, which posed a challenge for foreign 356 language courses, in particular when it came to teaching and assessing speaking inter-357 action skills. The approach taken in the early 2010's was to introduce synchronous 358 speaking interaction activities within pairs or small groups of learners, guiding the 359 interaction with a tandem tool that distributes content to guide the conversation in real 360 time, fulfilling the role of the teacher in face-to-face classrooms. Interactions were 361 recorded so that learners could carry out post-task reflection activities and teachers 362 could provide feedback or assessment. 363

The introduction of speaking tasks in the language courses of the Centre for 364 Modern languages at UOC, along with the increasing popularity of online courses in 365 Spain, meant that the number of students signing up for language courses increased 366 rapidly, posing a challenge to the organization of OIE activities. The logistics of 367 finding OIE partners for thousands of learners was just not feasible. A different 368 approach was implemented, adapting an emerging new popular model for online 369 courses around 2012, Massive Open Online Courses (MOOCs). Thus, in 2014, the 370 first edition of tandemMOOC English-Español was offered. This course was aimed 371 at learners of English who were L1 speakers of Spanish and learners of Spanish who 372 were L1 speakers of English. The course was designed as a complement to inter-373 mediate (or upwards) English and Spanish as a foreign language courses providing 374 speaking opportunities for learners. The main dynamic was the tandem roulette: 375 taking advantage of the massive element of the MOOC, it was possible for learners 376 to connect at any time and be paired with a random tandem partner. As learners were 377 connected, carefully designed tasks for tandem language learning were launched to 378 guide the conversations in a way that would make the most out of the learning potential 379 of these encounters: pushing learners beyond their level so that they would be forced 380 to get help from their tandem partners, exploiting thereby their dual learner/expert 381 roles. 382

UOC's *tandemMOOC* has evolved over the years (for a detailed description see Appel and Pujolà [6]) to be offered annually. In April 2020, an additional edition was offered to cater for the needs of language learners of English and Spanish who were confined to their homes during lockdown. This was a unique edition carried out under

strenuous circumstances and, aside from the usual benefits of OIE outlined earlier in this section, it gave learners from different parts of the world the opportunity to talk about the trauma they were experiencing and share their stories [28, 35]. 389

4.2 Digital Tools as Partners in Cognition 390

In this section we refer to specific digital tools that can act as 'partners in cognition', 391 that is, tools that can "aid in cognitive processing, can support intellectual perfor-392 mance and enrich individuals' minds" ([80], p. 2). Partners in cognition tools include 393 calculators, equation solvers, spreadsheets, simulations and the like. For language 394 learning, electronic dictionaries (which apart from definitions and contexts of use 395 give access to pronunciation models) would be a prime example, among a large 396 number of other technologies. 397

In the past decades developments in Language Technology has given rise to a 398 myriad of tools that can support language learners in their target language use. These 399 technologies exploit the fact that computers can now process, understand and produce 400 human languages in both written and spoken form and apply these capabilities to 401 tools and apps that are increasingly easy to access and use (https://nors.ku.dk/english/ 402 research/languagetechnology/). Such technologies include, among others, programs 403 that can convert speech to text, text to speech and text or speech in one language to 404 speech in another language-allowing people to have conversations in languages they 405 do not master-, grammar- and style-checkers, corpora-based lexica, word prediction 406 and machine-translation. These tools are reshaping the workflow and competences of 407 language professionals like translators and lexicographers but are also increasingly 408 integrated in everyday practice through word processors and keyboards for mobile 409 phones. Although these technologies all share the fact that they were not created as 410 pedagogical tools, they are increasingly relevant for language students and teachers, 411 as they are diligently used by learners as a learning resource. At the same time, 412 they can be seen as a challenge to learners' development of language competencies, 413 as these technologies do a good part of the job, reducing learners' cognitive load, 414 but making them dependent on the technology in order to perform [22]. Language 415 technologies have become increasingly accurate, to the point that writers can get 416 support for finding the right word, rephrasing a sentence, or directly translating from 417 a better mastered language. Besides increased accuracy, these tools are ever more 418 easily available, as they are, for example, currently integrated in widespread programs 419 such as Microsoft Word and Google Docs. 420

Even though availability and affordability can no doubt be seen as conducive to 421 inclusiveness and equal access for a wide range of learners, these tools can still widen 422 the gap between more and less resourceful learners-resourcefulness understood in 423 this case as cognitive or academic rather than economic. When algorithms can support 424 language choices, strategic learners can use language tools to improve their processes 425 for producing language, but the same tools can also be used by less thoughtful learners 426 with exclusive focus on the product, without understanding the language options at 427

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hand and the underlying technology. Language technologies offer a range of more
or less suitable solutions and therefore require strong competences about language
use and cultural appropriateness [29].

Just to provide an example of the challenges that the increasing availability of 431 language technologies can pose, we can mention the case of the Centre for Modern 432 Languages at UOC. Here, the abusive use of language technologies has so far led 433 to a revision of the definition of plagiarism in continuous assessment and the inclu-434 sion of systems to detect cases as varied as automatic translation of texts written by 435 others, reading aloud these translations, having somebody stand next to the learner 436 while recording a video prompting what to say, or submitting a video with the 127 learner's image but dubbed by somebody else. On a more positive note, the Centre 438 for Modern Languages at UOC has included in its syllabi the teaching of strategies 439 for using electronic dictionaries, online translators, and search engines as informants 440 of collocations, tapping on their potential to support autonomous language learning. 441

Language technologies make assessment of language competences rather blurry, 442 which calls for a rethinking of what it means to master a language. While examination 443 forms can try to prevent the use of language technologies, these same technologies 111 are here to stay for students and teachers. However, it is still uncharted territory 445 how these technologies should be integrated in language learning curricula beyond 446 specialised niches such as translation. Digital tools as 'cognitive partners' is an 447 open question at this stage because the introduction of language technologies is 448 fuelled by changes that teachers (let alone administrators) are experiencing rather 449 than promoting. The pandemic has indeed made it more difficult to negotiate rules 450 of engagement with these tools and to promote their understanding, as distance 451 learning posed an additional obstacle. Post pandemic normality will call for continued 452 efforts in integrating language technologies in ways that promote learning as well as 453 performance. 454

455 4.3 Digital Tools as Channels for Delivering Instruction

The late 1990s brought Language Management Systems (LMS), also referred to as VLEs (Virtual learning environments), to higher education. These web-based software applications provide a framework to support all the aspects of teaching and learning processes, from administration and course design to delivery, tracking, and communication, and have facilitated the development of blended and online language learning courses over time.

Blended courses can vary from hybrid models that combine face-to-face and online delivery, assigning a percentage of sessions to each format, e.g., 70/30% [1] to models that thoughtfully integrate face-to-face and online learning [39]. In the context of language learning, [41] identified some concerns about online learning by language learners engaged in blended learning formats. These concerns were related to the development of speaking interaction skills, the relationship with classmates and teachers, time management and student understanding, and it became clear that Reimagining Language Learning in Higher ...

different students had different preferences based on their personality traits (e.g., shyness). The development of new technologies since then has surely changed how learners see some of these aspects, and already in Owston [74] called blended learning spaces the new normal in higher education. Regardless of how some aspects of faceto-face classrooms are adapted to the online environment, what stands out is the fact that the incorporation of online learning brings about the rupture of traditional classroom walls, opening learning environments to the outer world [17, 42, 54] and thereby leading to a variety of new opportunities of contact and interaction with the target language and culture.

Online courses bring the notion of blended instruction to its full online version, 478 offering education to individuals who may not be able to attend face-to-face teaching 479 due to a variety of reasons such as jobs, family duties, geographic location, etc. Tradi-480 tionally, distance education would cater for these individuals' needs albeit numerous 481 challenges such as isolation, lack of support and a consequent drop in motivation [38] 482 due to its primarily self-study approach. It has even been suggested that "distance 483 education has been more evolutionary than revolutionary" ([84], p. v), but technology 484 has turned the tables: not only has the transition to online learning brought multiple 485 solutions to the shortcomings of previous distance education experiences, but it has 486 also facilitated new pedagogical approaches. Online learning environments have the 487 potential to enable learners to be more autonomous and to increase opportunities to 488 use the target language, thus facilitating student agency. Indeed, online learning has 489 been associated with the development of twenty-first century soft skills [13]. 490

There are also issues that have had to be addressed in the context of fully online 491 language courses and have resulted in innovative enhanced solutions that have even-492 tually made its way to blended learning. These issues revolve around the provision of 103 input, feedback, and examinations. Multimedia interactive materials include audio 494 and video, which are essential for the teaching of languages and allow for imme-495 diate automatic comprehension checks and a certain degree of personalization when 496 tracking systems monitor the learner's progress. In terms of feedback provision, 497 the initial obstacle of distance has given rise to tools that allow for the integration 498 of rubrics, i.e., error categories accompanied by explanations, video- and audio-499 annotations, or screencasting that can illustrate how the teacher models a good prac-500 tice, etc., opening up for a myriad of new and richer methods for teachers to provide 501 feedback, and for guiding and supporting peer-feedback. Language exams need to 502 cover the different competences involved (see the Common European Framework of 503 Reference for Languages—CEFR [26, 27]) and can result in long, time-consuming 504 and costly processes that include, among others, oral examination sessions with the 505 attendance of external examiners. While online language learning courses have been 506 slow to integrate all the language competences proposed by the above mentioned 507 CEFR, video streaming and the latest video conferencing technologies have allowed 508 for a full integration of all these competences, including speaking interaction. 509

A successful example of the integration of speaking skills in online education is the Centre for Modern Languages at UOC. At UOC, more than 6.000 students register for language courses each semester. Of these, over 5.000 take English as a Foreign Language (EFL) courses, the vast majority as a compulsory subject in Author Proof

their degrees. In this setup, the roles of instructional designer and teacher are clearly 514 differentiated, since some of the subjects can have between 1000 to 3000 students, 515 who are distributed into classrooms assigned to teachers who work part-time for 516 the university. Subject coordinators work full time and are responsible for designing 517 the course, which comprises activities, materials, evaluation, and teacher training 518 actions (e.g., related to marking standardisation in order to ensure homogeneity 510 across classrooms). This university, founded in 1994, is the first online university to 520 our knowledge and prides itself on teaching online, and not at a distance, claiming 521 that its online teaching brings students closer to the teacher and student fellows, while 522 allowing each student to work at their own pace from anywhere in the world. Students 523 belong to a classroom assigned to a teacher and to a group of students who work 524 in pairs and/or small groups towards their learning goals. In the earlier years, due 525 to technological limitations, the evaluation results of these courses could only guar-526 antee accreditation for writing and reading skills, but, as the technology evolved, 527 by 2010 listening and speaking skills, production as well as interaction, were being 528 taught and evaluated online. The key to the management of the teaching of speaking 529 skills was to reconceptualize synchronous sessions. In order to enhance speaking 530 practice, students were asked to work in pairs synchronously with the assistance of 531 a tool that distributed contents in real time. Interactions were recorded for teachers 532 to provide feedback and/or evaluate at a later stage and for learners to carry out 533 reflective post-task activities. This meant that all students were actively engaged 534 in speaking activities without infringing on their time flexibility and time manage-535 ment, since they only had to arrange to meet with one other student (or with two or 536 three for small group work) for a given task. These speaking activities together with 537 collaborative writing tasks meant that students got to strengthen their relationship 538 with other members of the class, as end-of-course surveys during the first years of 539 implementation indicated. This was paramount in a fully online environment since 540 stronger bonds with classmates can be a deterrent of abandonment. 541

While initiatives at the forefront of online teaching and learning were pushing 542 innovative pedagogical solutions to the challenges of fostering online interaction, a 543 new format of online teaching, Massive Open Online Courses (MOOCs), came to 544 the scene in the early 2010s. MOOCs gained significant attention with promises to 545 provide free education to large numbers of students. In 2014, the term LMOOC was 546 coined to refer to MOOCs in language education [61]. While MOOCs failed to be 547 as open as initially promised and acquired a more commercial focus as a student 548 recruitment strategy, they did bring about a wealth of studies on elements of online 549 language learning such as motivation [9], flipped learning [85] or interaction [62, 79] 550 among others, and they gave impetus to the use of video for online instruction [65]. 551 However, there is also a concern about the quality of the pedagogical design ([45], 552 p. 4) and the lack of interaction and collaboration in environments with large numbers 553 of learners. In particular, the integration of speaking interaction activities is missing 554 with a few exceptions (see above description of UOC's tandemMOOC, Appel and 555 Pujolà [6]). 556

The evolution of the COVID-19 pandemic and the gradual opening of campuses after total lockdown brought to the forefront the so-called Hyflex (hybrid flexible)

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instruction, consisting of classes administered simultaneously to students present in 550 the classroom and students connected online through the livestreaming of the class-560 room session. Hyflex instruction has existed before COVID-19, ever since apt VCS 561 (video conferencing) technologies have been available. Leijon and Lundgren [56], 562 just before the pandemic, present a study of hyflex instruction where they focus on 563 the different spaces that get activated (physical, representational and interactional) 564 and describe different teacher strategies for coping with the hyflex classroom— 565 some more successful than others, as teachers can experience constrained mobility 566 in the classroom (because of camera and microphone settings), disconnection with 567 the online students and a general loss of control, as some functions normally get 568 delegated to a facilitator (a supporting teacher or student) who takes care of camera 569 settings, administers the chat and, in general, establishes a link between the class-570 room and the online participants. Studies of hyflex instruction in higher education 571 during the pandemic are starting to emerge (e.g., [14, 51]) and more will surely follow. 572 Bogatyrets [14] presents a very positive evaluation of hyflex and focuses on the bene-573 fits of this type of instruction for the students, allowing them flexibility to choose 574 the kind of environment they feel comfortable with in order to manage their risk 575 tolerance. She also highlights the importance of an instruction design that favours 576 the integration of both types of participants, for example through group projects 577 where the students are grouped across their attendance modalities, preventing strat-578 ification between in-person and online learners. Explicitly teaching about group 579 dynamics, problem-solving and project management are also presented as crucial 580 strategies to make hyflex more effective. Kohnke and Moorhouse [51] focus on 581 five themes that emerge from their study: communication challenges, particularly 582 across attendance modalities, flexibility and return to normalcy as positive elements 583 (compared to full online instruction); ownership of own learning and being actively 584 involved; discussions of the different video conferencing platforms and the impor-585 tance of tools allowing collaborative activities; and motivation for hyflex in the future 586 (characterized by mixed feelings). 587

In the context of the two universities that we are discussing in this article, hyflex 588 instruction became a reality for the first time ever during the second half of 2020 at 589 some of the language studies at AU. At this point in time, the campus was partially 590 open for face-to-face teaching, but the requirement of 2-m distance between partici-591 pants meant that the classrooms originally assigned for a given class could not contain 592 all the students at the same time. A shift system was therefore adopted to give every-593 body the possibility to alternate between face to face and online participation. Apart 594 from this very systematized alternation of participants, the hyflex modality proved 595 useful in a more informal fashion in the sense that it allowed students who found them-596 selves in self-isolation, either because they presented COVID symptoms, were tested 597 positive, or had been in contact with infected people, to participate online instead 598 of missing instruction. Evaluations from students and teachers were not particularly 599 enthusiastic of hyflex, and with the full reopening of campus and the upheaval of 600 restrictions in august 2021, hyflex is practiced only sporadically for students who 601 are sick or for some reason have a lower threshold of risk-tolerance. We believe 602 that, in the future, it might become relevant to reactivate hyflex, but it might require 603

AU to invest in more suitable technology, equipping all classrooms with VCS facil-604 ities. While digital tools can act as channels for delivery, they can create the risk of 605 perpetuating limitations in brick-and-mortar classrooms if becoming too closed to 606 the outer world, to potential interlocutors and to the newest technological develop-607 ments, a problem in some LMS platforms that tend to put up a digital wall around 808 the members of a higher education institution. The challenge is to open these spaces 609 while still facilitating students building their own PLE and communicating with the 610 outer world, thus supporting students in becoming global citizens. 611

Imagining the Future: Challenges, Drivers, Obstacles, and Opportunities

In the aftermath of the COVID-pandemic, as universities are slowly opening their 614 doors to face-to face teaching again, a new expression affecting all aspects of our lives 615 has become part of our day-to-day conversations: the "new normality". There seems 616 to be a general agreement that even if we are going back to normal, this normal 617 will be changed, and language teaching will not be an exception. Even the most 618 resistant-to-technology students and teachers have now experienced online teaching. 619 It is true that remote emergency teaching was sudden, was short of resources and 620 training and was indeed impregnated with trauma, but lessons can be learnt and the 621 path to facilitating the normalization of CALL and the consolidation of the use of 622 technologies and pedagogies that have been "incubated" and developed for the past 623 20/30 years has been set. While universities will regain the pulse of student crowds 624 on campus, technology will be more present in the classrooms, and blended, hybrid 625 and online programmes will coexist. 626

During the COVID-19 lockdown, virtual exchange was in high demand. This, 627 coupled with the growing interest in the past years reflected in numerous initiatives 628 and European projects (e.g., Unicollaboration or Evolve) and collections of publi-629 cations (e.g., [31, 72]), means that the ground is ready for virtual exchange to take 630 the much needed step of normalization, being streamlined and fully integrated into 631 language programmes in higher education. Some of the challenges that are being 632 faced are how to scale up virtual exchange and give credit for student work in this 633 context. 634

In relation to language technologies as partners in cognition, we can envisage that their use will grow rather than decrease, and that new technologies will constantly present new affordances for language performance and thereby pose new challenges regarding how to adapt them in learning contexts in ways that promote rather than deter learning. At the same time, their presence and role in examination contexts will need to be revised in order for exam tasks to reflect real-life language use without losing their validity.

There are many exciting new venues of research to enhance online instruction, from the use of robots referred to as RALL—Robot assisted language learning—to

provide instant and contextualized support to learners interacting with course mate-644 rials, to the application of Augmented reality /Virtual reality to materials that can 645 provide learning experiences linked to emotions that can consolidate this learning. 646 It will be possible to acquire sensitivity to cultural differences, pragmatic strate-647 gies, and understanding of other cultures through experience in this kind of environ-648 ment. The inclusion of learning analytics technologies in learning environments is 649 also yielding a wealth of new information that is leading to a better and more in-depth 650 understanding of online learners' experience in these environments. 651

Blended and online learning will be increasingly present, although hyflex learning poses a number of challenges that have still not been resolved. The threat of possible future pandemic outbreaks, paired with the normalization of telework, which might mean a higher spread of population in territories, makes it likely that the need for hyflex will remain if not increase, so solutions, both technological and pedagogical, will be needed for the successful collaboration of in-classroom and online students.

Related to instruction, there is hope that teacher training will take new impetus, the
seeds of which were already being laid right before the pandemic with a focus on the
wellbeing of teachers in light of their new roles in online and blended instruction [40,
64]. The area of emotions in language learning and teaching [77, 81], also surging in
the past 10 years, can only be expected to keep growing after such traumatic times
lived during the pandemic.

Up to the covid lockdown, a recurrent warning of risk in CALL was reinventing 664 the wheel as new technologies were developed, falling into the pitfall of applying 665 older pedagogies and dressing up restricted versions of CALL (in Bax's [8] words) 666 with more visually appealing features and interfaces that, despite the new make-up, 667 remain pedagogically restricted (see e.g. Pujolà et al. [76] for a study on the use of 868 Genially for gamification falling back into Bax's definition of restricted CALL). The 669 goal is to move one step beyond and stop thinking about how to use a new technology 670 and instead adopt the mindset that technology will continue to develop and that our 671 focus needs to shift back to pedagogy, as technology is part of our new normal. 672

At this point, what is probably the crucial question that can provoke a paradigm 673 shift is how we can move the focus from thinking in terms of how technology can 674 be used in language education to how technology has changed the way we use and 675 learn languages. What does it mean to learn a second language in a world where 676 technologies can translate text, correct our grammar errors when we write or convert 677 speech to text and text to speech automatically? How do we define proficiency in 678 a language when technology can do most of the job for us? The answers to these 679 questions are key to defining how we shall examine and grade learners seeking for 680 accreditation of their language competences. Even the long-standing definitions of 681 second language versus foreign language have become obsolete, when it is possible 682 to dive into another culture and language via online means from any location in the 683 world and when the pairing of language and country becomes more and more a thing 684 of the past. 685

Last but not least, while CALL will develop into new exciting areas and will continue to influence the future of face-to-face communication and education, the question is, perhaps, whether CALL is also becoming obsolete in the sense that

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language education—and education in general—by default entails the use of tech nology. We are certain that CALL will have to better define itself in the future and
 reimagine its place in education.

692 6 Conclusion

It is our belief that language education gets expanded and redefined by technology and that it, thereby, also contributes to promoting the students' digital literacy and to boosting their twenty-first century skills, including intercultural understanding, true collaboration with others, risk-taking and higher order thinking.

We also believe that language education, with its long experience and pioneering spirit for adapting and adopting current technologies, can play a key part in redefining the role of technology in higher education at large, both by enlarging the context for learning and by providing new tools that act as 'partners in cognition'. But language education cannot do it alone: there is a need for strong alliances across disciplines and 'epistemic cultures' [50].

We have also seen along the chapter that technology imposes some challenges on 703 language education. For example, we need to rethink learning goals and examination 704 forms in the light of emerging changes in language technologies and practices. This 705 means, on the one hand, integrating a more thorough understanding of technology 706 for language learners and teachers, but possibly, on the other, identifying practices 707 that can be 'technology-free' and only rely on the student's own memory, voice, and 708 body language. Although we have earlier mentioned affordances of technology in 709 connection with inclusiveness and connectivity, there are still some pressing issues 710 regarding privacy, plagiarism, and the slow progress of open source, which poten-711 tially undermine these ideals. The Internet is getting increasingly closed with the 712 emergence of premium versions, and not all countries have the access to internet that 713 is necessary for active and equal participation. 714

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