

## Part Two

Amid accelerating digitalisation and growing global interconnectivity, higher education is undergoing a fundamental transformation—one that reshapes not only how knowledge is accessed and exchanged but also how learners engage, collaborate, and co-create meaning within virtual environments. Building on the conceptual and pedagogical foundations laid in Part 1 – where the principles, practices, and impact of Collaborative Online International Learning (COIL) and Virtual Collaborative Learning (VCL) were introduced – Part 2 looks decisively toward the future. At its core, this part engages with a critical question: *What lies ahead for VCL in an era increasingly defined by Artificial Intelligence, critical digital pedagogies, and persistent regional and global disparities in access and implementation?*

The purpose of Part 2 is threefold. First, it investigates the emerging role of AI in transforming the virtual learning landscape, focusing on how intelligent technologies can enhance personalisation, learner autonomy, and collaborative dynamics in online education. Yet this is not merely a matter of technical enhancement – it is a profound pedagogical inquiry into how AI intersects with the human dimensions of learning, including trust, engagement, equity, and agency.

Second, this part examines how VCL can serve as a platform for cultivating transversal key competencies essential for lifelong learning, such as critical thinking, intercultural awareness, communication, and adaptability. These competencies are explored through the lens of VCL and wider digital learning strategies, revealing both the opportunities and tensions in aligning educational aims with rapidly evolving societal needs. Part 2 also raises the important question of whether Virtual Collaborative Learning (VCL) promotes inclusive, equitable education or reinforces inequality and exclusion, depending on its design and implementation.

Additionally, this part features regional implementations and case studies – illustrating how VCL is being adapted to diverse socio-cultural and institutional contexts. These examples underscore that while VCL holds promise as an inclusive and scalable educational model, its success is contingent upon local relevance, institutional preparedness, and meaningful cross-border collaboration.

Collectively, the contributions in Part 2 portray VCL as a dynamic and evolving educational practice. They highlight the importance of research-informed design, interdisciplinary engagement, and ethical foresight in shaping the future of collaborative digital learning. More than simply reacting to technological advancements, they call on educators, researchers, policymakers, and institutional leaders to play an active role in directing these transformations.

As VCL enters its next phase – augmented by AI and embedded in increasingly complex educational ecosystems – Part 2 serves as both a roadmap and a reflective space. It challenges us to reimagine virtual collaborative learning as not only technologically advanced but also human-centred, socially just, and globally responsive in a rapidly changing world.

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