



# **INTERNATIONAL CONFERENCE ON CTE-STEM 2025**

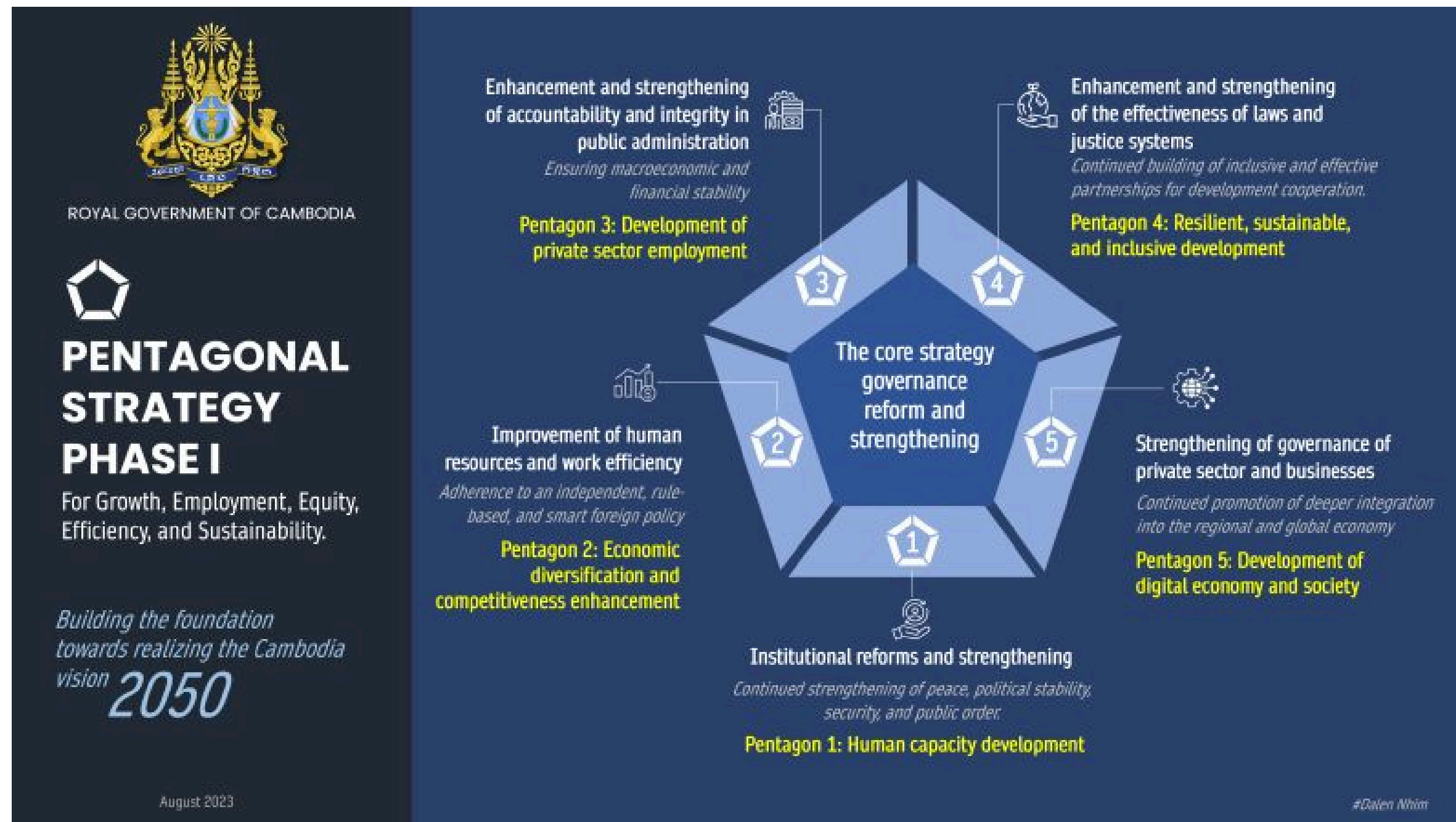
**TRANSFORMING EDUCATION IN CAMBODIA: ADVANCING  
STEM THROUGH EDUCATION TECHNOLOGY**

**JUNE 18, 2025**

**DEPARTMENT OF DIGITAL TRANSFORMATION**

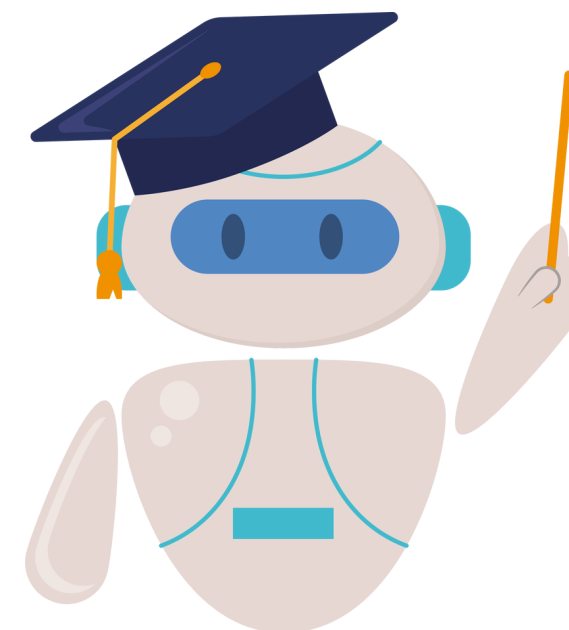
# CAMBODIA'S DIGITAL JOURNEY

Cambodia's education transformation is guided by the Pentagonal Strategy Phase I, which places innovation, science, and technology at the heart of national development. We are building a knowledge-based society, underpinned by equity, inclusion, and sustainability.



# CAMBODIA'S DIGITAL JOURNEY

- Our digital acceleration gained momentum during the COVID-19 pandemic. We responded with bold steps—developing national digital learning platforms, integrating digital literacy into curricula, supporting blended learning models, and a lot more. This crisis became a catalyst for change.
- However, what distinguishes this moment globally is the exponential impact of AI in education. AI is advancing how we approach computational thinking and STEM education. In Cambodia, we recognize the transformative power of these technologies—but also the importance of deploying them ethically, responsibly, and inclusively.



# STRATEGIC TRANSFORMATION: POLICY FRAMEWORK

- To steer Cambodia's digital transformation in education, the MoEYS has established a robust policy framework over the past decade, including:
  - STEM Education Policy (2016)
  - ICT in Education Policy was introduced (2018)
  - Lifelong Learning Policy (2019)
  - Digital Education Strategies for Schools (2024)
  - School-Based STEM Framework (2025)
- This vision redefines the role of schools from traditional centers of instruction to dynamic hubs of innovation, collaboration, and community-driven change. It fosters active participation from students, educators, and local stakeholders in shaping inclusive, future-ready learning environments. Central to this transformation is the co-creation of digital ecosystems that support lifelong learning and cultivate responsible digital citizenship.



# KEY FOCUS AREAS FOR DIGITAL TRANSFORMATION

- **Innovative and Inclusive Infrastructure:** MoEYS is transforming schools into dynamic, technology-enabled learning environments, particularly in underserved areas, to foster equitable access to STEM education.
- **Teacher Capacity and Professional Learning:** Large-scale Continuing Professional Development (CPD) programs equip educators with modern STEM pedagogy, digital skills, computational thinking strategies, and project-based learning methods. These are supported by Professional Learning Communities (PLCs) that promote peer mentoring, collaboration, and innovation in teaching practices.
- **Curriculum Modernization and Skills Alignment:** The national curriculum is being reformed to integrate computational thinking, digital literacy, and problem-solving competencies that align with labor market needs and global trends.



# DIGITAL PROFESSIONAL DEVELOPMENT FOR TEACHERS





# ICT TEXTBOOKS FOR SECONDARY EDUCATION

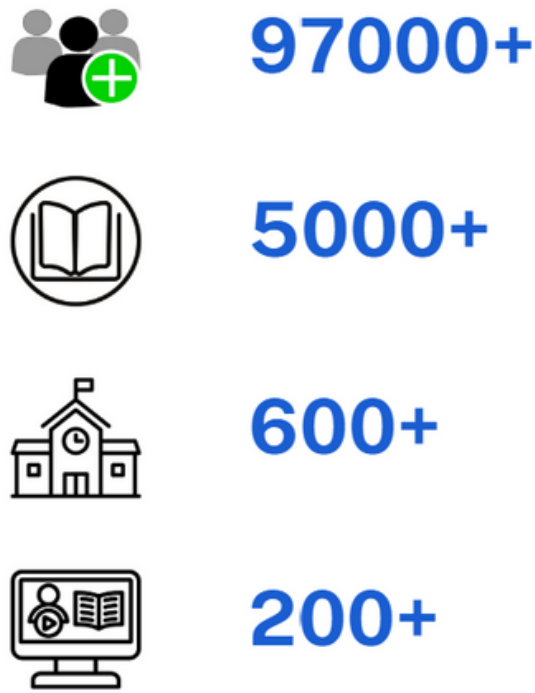
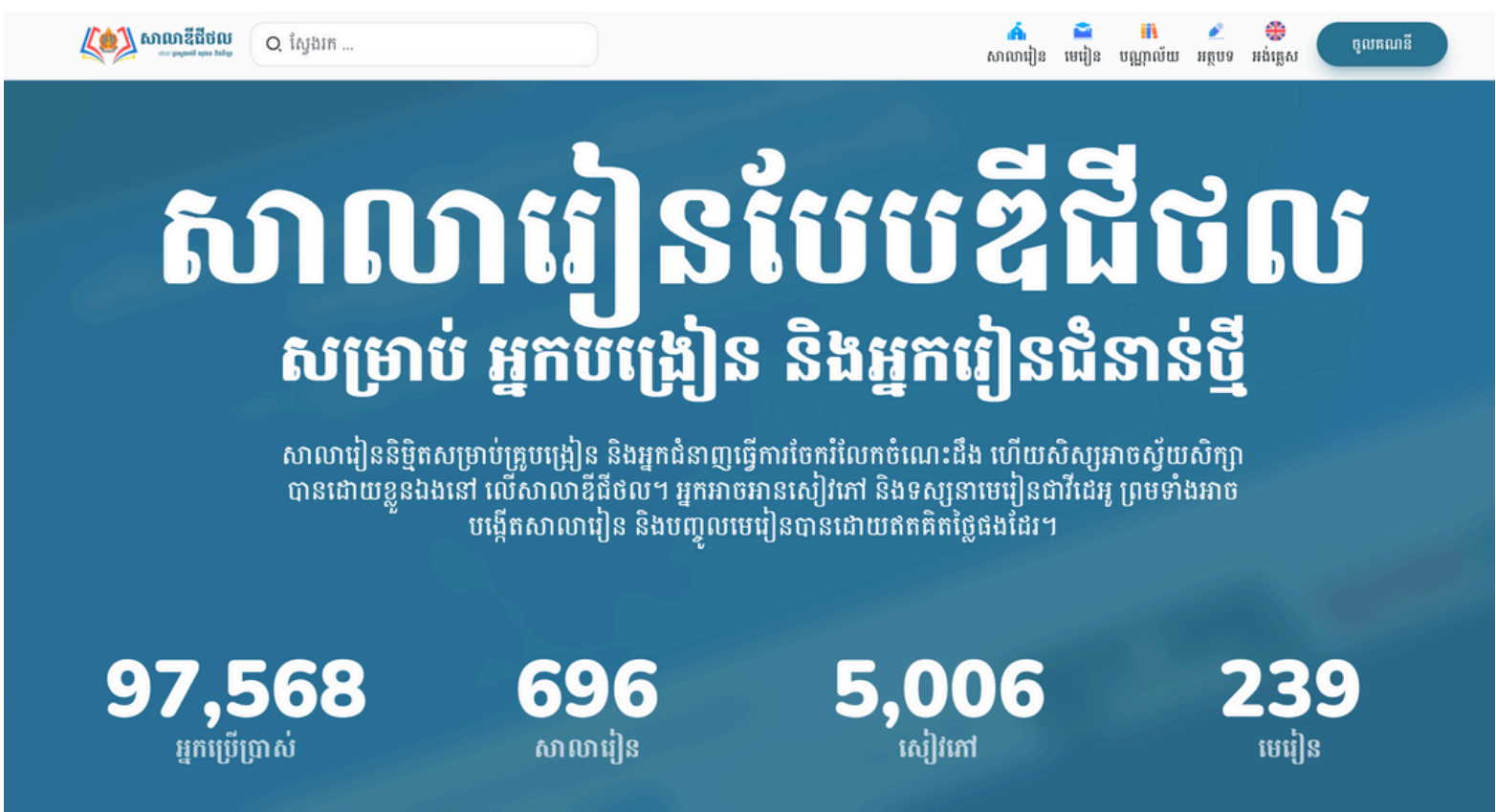
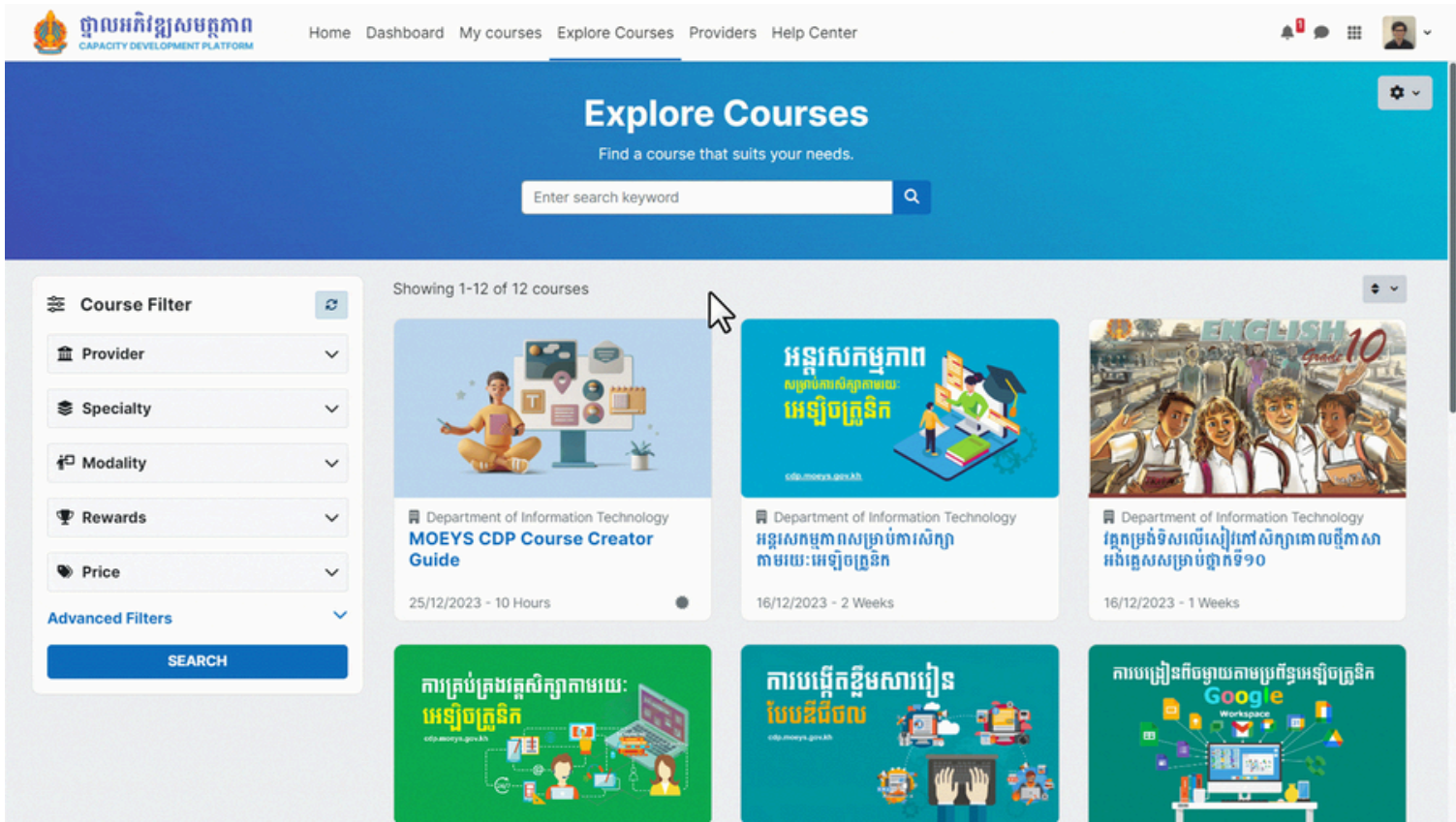




# KEY FOCUS AREAS FOR DIGITAL TRANSFORMATION

- **Reimagined Assessment and Data-Driven Policy:** Assessment practices are moving beyond rote memorization toward competency-based and formative approaches that evaluate higher-order thinking and real-world application
- **Equity, Access, and Gender Inclusion:** A STEM revolution must be equitable. The strategy prioritizes inclusive participation by supporting girls, ethnic minorities, and marginalized communities in STEM education.
- **Holistic Learner Development and Community Partnerships:** Education extends beyond academics through extracurricular programs in digital skills, career exploration, and creative expression. MoEYS is actively building community engagement and international partnerships to ensure sustainable, future-ready learning ecosystems that nurture well-rounded, innovative, and globally aware citizens.

# KEY FOCUS AREAS FOR DIGITAL TRANSFORMATION



# CHALLENGES WE MUST CONFRONT

- Infrastructure gaps persist, limiting equitable access to digital learning, particularly in remote areas. Many educators still need ongoing support to adopt and adapt new digital tools and teaching methods effectively.
- Integrating computational thinking and interdisciplinary STEM education into the curriculum remains a complex and evolving task.
- Additionally, limited financial and technical resources constrain the speed of innovation and the ability to scale successful initiatives. These are global challenges, but their impacts are deeper in low-resource settings. And that is why partnerships are essential.



# ROLES OF REGIONAL AND INTERNATIONAL COOPERATION

- To truly transform education, regional and international collaboration is not optional—it is essential. For countries like Cambodia, global cooperation provides access to expertise, technologies, research, and best practices that can accelerate national efforts.
- We deeply appreciate the continued support of development agencies, universities, private sector innovators, and multilateral partners. Let this conference be more than a platform for sharing ideas—let it be a catalyst for joint research, pilot projects, mentorship exchanges, and scalable solutions.
- Together, we can build a global learning ecosystem where every learner is empowered, every teacher is supported, and every system is resilient.



# COOPERATION WITH HONG KONG JOCKEY CLUB CHARITIES TRUST

By embedding computational thinking into the national curriculum, Cambodia takes a strategic step toward digital transformation in education, preparing students for a technology-driven future:

- **Localization and Sustainability:** The translation and adaptation of materials into Khmer, and the flexibility for teachers to modify resources, ensure the program is culturally relevant and sustainable within Cambodia's unique educational context.
- **Cross-Regional Exchange:** The partnership fosters ongoing exchange of expertise between Hong Kong and Cambodia, promoting innovation and the sharing of best practices in STEM education.
- **Future-Ready Skills:** This initiative supports the development of critical 21st-century skills, equipping Cambodian students to participate in the global digital economy and contributing to national development goals.

# A VISION FORWARD

- In Cambodia, we are not just investing in digital tools—we are investing in people, communities, and the future of learning. Our vision is to nurture students who are not only digitally skilled but also creative, ethical, and globally aware. We are committed to ensuring that computational thinking and STEM education are not privileges for the few, but pathways of opportunity for all.
- In conclusion, digital transformation is no longer a future concept—it is our present reality. And it demands bold leadership, shared learning, and collective responsibility.

# THANK YOU!

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