



United Nations
Educational, Scientific and
Cultural Organization
联合国教育科学及文化组织



International Centre
for Higher Education Innovation
under the auspices of UNESCO
联合国教科文组织高等教育创新中心



IIOE Asia-Pacific Mid-Year Meeting 2021

IIOE Competency Framework for the Higher Education Workforce

Professor LIM Cher Ping (林质彬)

IIOE Chief Expert, UNESCO-ICHEI

Chair Professor of Learning Technologies &
Innovation, EdUHK





United Nations
Educational, Scientific and
Cultural Organization
联合国教育科学及文化组织



International Centre
for Higher Education Innovation
under the auspices of UNESCO
联合国教科文组织高等教育创新中心

Digital Transformation of Higher Education



- The pandemic has presented the higher education sector with challenges and opportunities.
- Challenges: Inclusive and quality online teaching and learning, relevance of the existing curriculum and assessment, and institutional capacity to manage these challenges.
- Opportunities: Rethinking the role of information and communication technology (ICT) for inclusive and quality teaching and learning, curriculum and assessment reforms, and capacity building of the higher education institutions (HEIs).





United Nations
Educational, Scientific and
Cultural Organization
联合国教育科学及文化组织



International Centre
for Higher Education Innovation
under the auspices of UNESCO
联合国教科文组织高等教育创新中心

The Higher Education Workforce (HEW)



- The role of the higher education workforce (HEW) is pivotal for a future-ready higher education ecosystem that addresses the challenges discussed earlier and takes up the opportunities offered by ICT for inclusive and equitable quality higher education and lifelong learning for all.
- The HEW includes HEI teachers, leaders and support staff and their capacity has to be built to take up this pivotal role.



United Nations
Educational, Scientific and
Cultural Organization
联合国教育科学及文化组织



International Centre
for Higher Education Innovation
under the auspices of UNESCO
联合国教科文组织高等教育创新中心

International Institute of Online Education (IIOE)



Aligning itself to the UN SDG 4, the mission of IIOE is to build the capacity of UNESCO-ICHEI's partner higher education institutions (HEIs) for enhancing access to quality higher education teaching and learning.



United Nations
Educational, Scientific and
Cultural Organization
联合国教育科学及文化组织

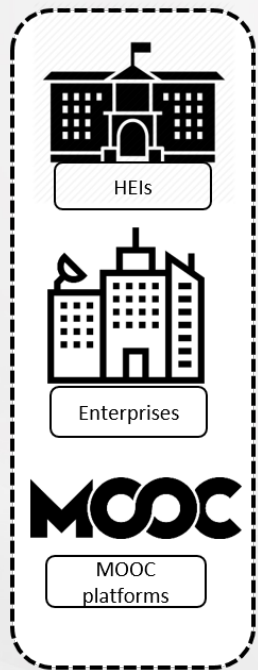


International Centre
for Higher Education Innovation
under the auspices of UNESCO
联合国教科文组织高等教育创新中心

IIOE - An Ecosystem for Capacity Building of HEW

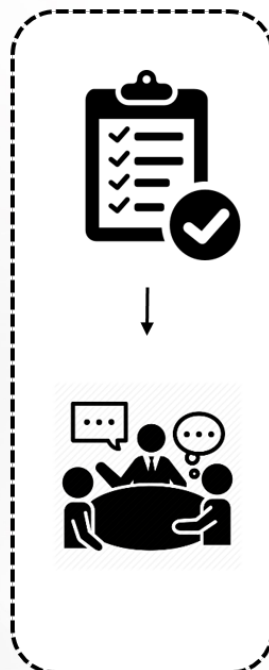


Design & Management

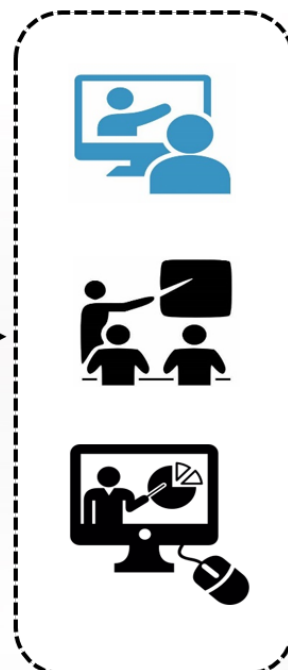


Educational
providers developed
high quality online
courses

Implementation



Partner HEIs enhances
the capacity based on
IIOE QA Framework for
online and blended
teaching and learning

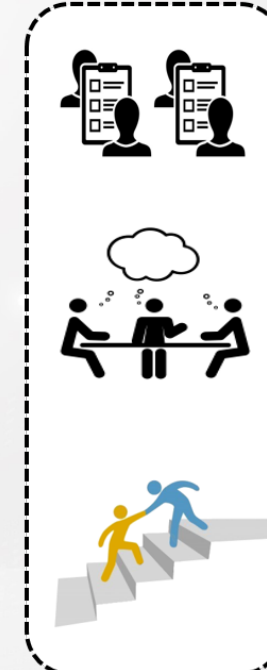


ICHEI provides teacher's
profession training in
partner HEIs for online
and blended teaching
and learning



Teachers in partner
HEIs improve their ICT
competencies for
institutional higher
education reform

Evaluation



UNESCO-ICHEI evaluates IIOE
implementation in partner
HEIs, organize multi-partners
exchange meetings and write
IIOE global report

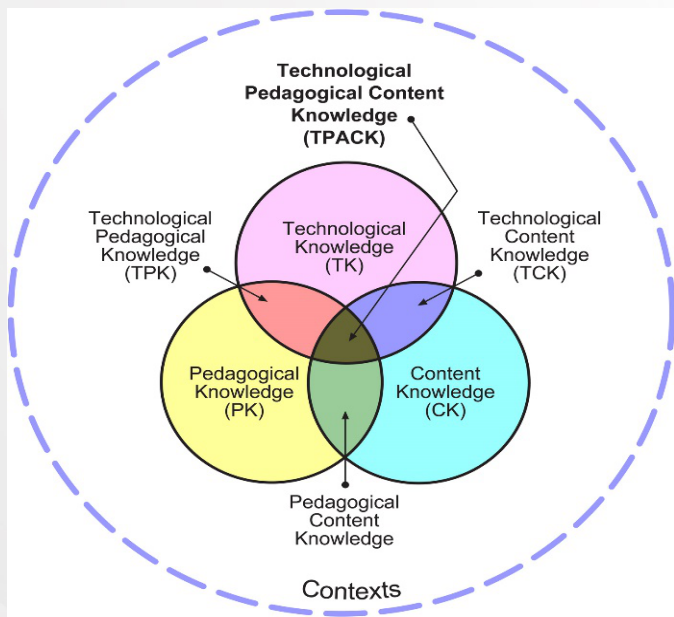


United Nations
Educational, Scientific and
Cultural Organization
联合国教育科学及文化组织



International Centre
for Higher Education Innovation
under the auspices of UNESCO
联合国教科文组织高等教育创新中心

Learning from Different Competency Frameworks



	Knowledge Acquisition	Knowledge Deepening	Knowledge Creation
Understanding ICT In Education	Policy Understanding	Policy Application	Policy Innovation
Curriculum and Assessment	Basic Knowledge	Knowledge Application	Knowledge Society Skills
Pedagogy	ICT-enhanced Teaching	Complex Problem-solving	Self-management
Application of Digital Skills	Application	Infusion	Transformation
Organization and Administration	Standard Classroom	Collaborative Groups	Learning Organizations
Teacher Professional Learning	Digital Literacy	Networking	Teacher as Innovator

Version 3.0



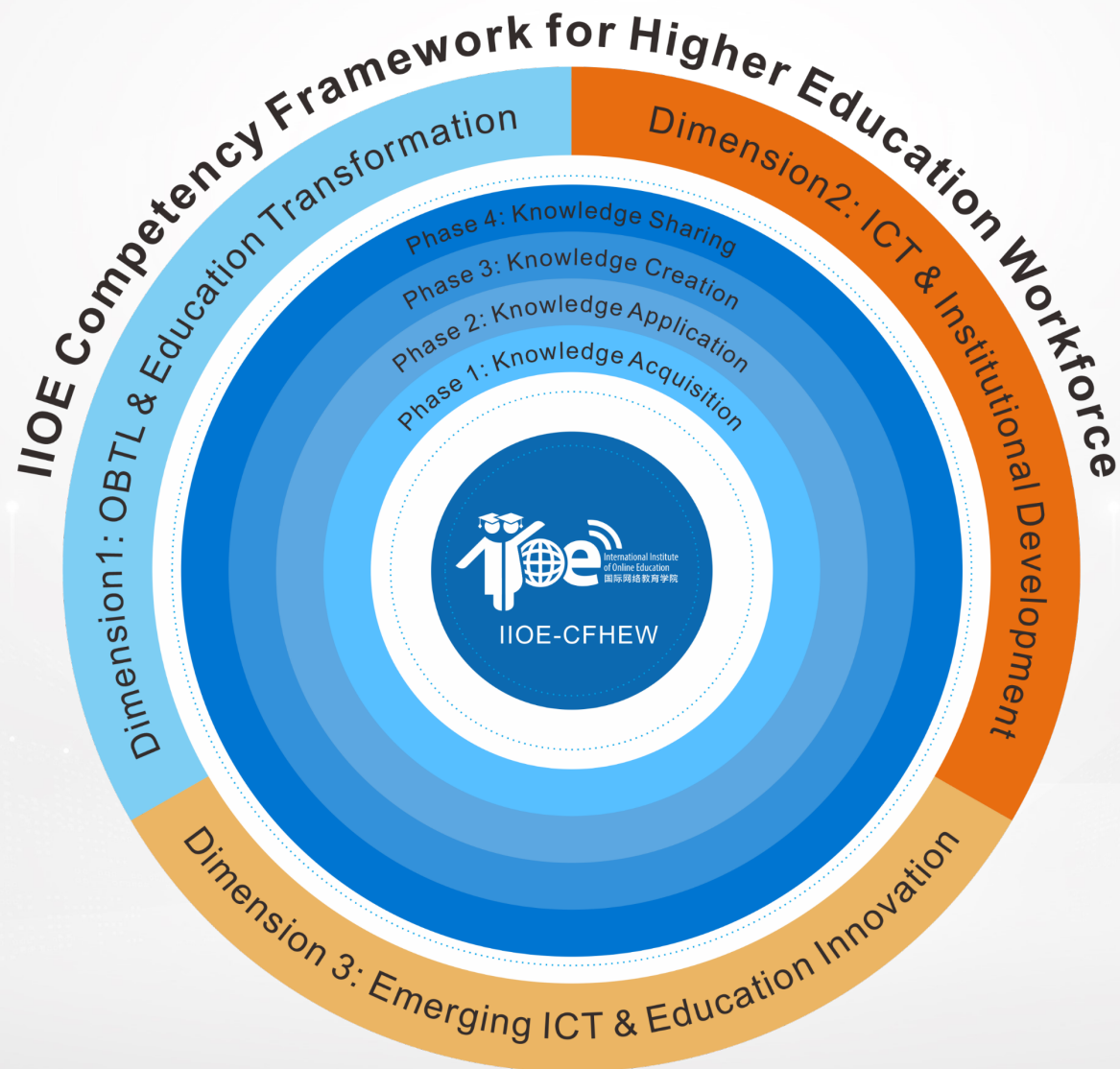


United Nations
Educational, Scientific and
Cultural Organization
联合国教育科学及文化组织



International Centre
for Higher Education Innovation
under the auspices of UNESCO
联合国教科文组织高等教育创新中心

IIOE Competency Framework for HEW





United Nations
Educational, Scientific and
Cultural Organization
联合国教育科学及文化组织



International Centre
for Higher Education Innovation
under the auspices of UNESCO
联合国教科文组织高等教育创新中心

IIOE Competency Framework for HEW



- Three Core Dimensions:
 - Dimension 1: Online and Blended Teaching and Learning (OBTL) and Higher Education Transformation
 - Dimension 2: ICT and Institutional Development
 - Dimension 3: Emerging ICT and Education Innovation
- Four Key Phases:
 - Knowledge Acquisition
 - Knowledge Application
 - Knowledge Creation
 - Knowledge Sharing



United Nations
Educational, Scientific and
Cultural Organization
联合国教育科学及文化组织



International Centre
for Higher Education Innovation
under the auspices of UNESCO
联合国教科文组织高等教育创新中心

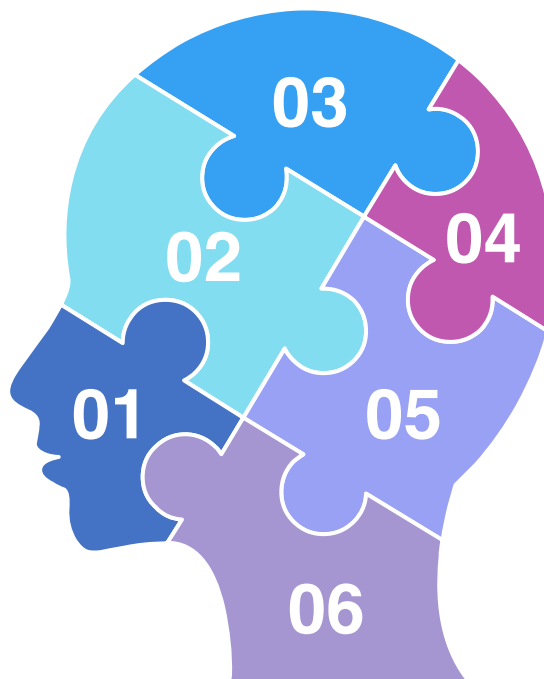
What Do We Need from you?



*How could the Competency Framework be improved upon or clarified **from the perspective of your institution?***



*Who are the higher education stakeholders that will benefit from the IIOE-CFHEW **in your higher education context?** How will they benefit?*



*How could the IIOE-CFHEW be integrated with other competencies **for different HEIs?** And how does the IIOE-CFHEW support **your institutional development needs?***

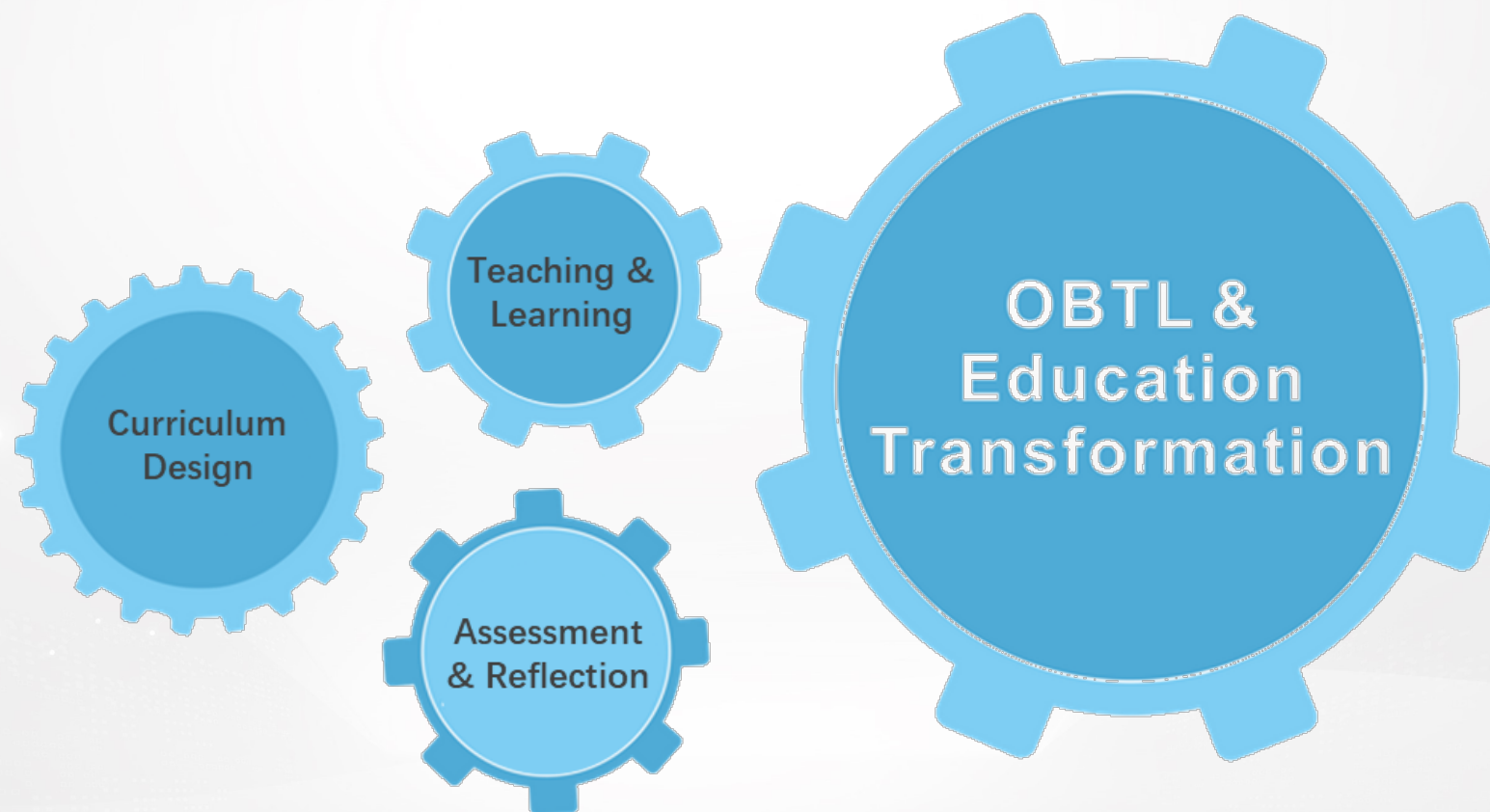


United Nations
Educational, Scientific and
Cultural Organization
联合国教育科学及文化组织



International Centre
for Higher Education Innovation
under the auspices of UNESCO
联合国教科文组织高等教育创新中心

OBTL & Higher Education Transformation



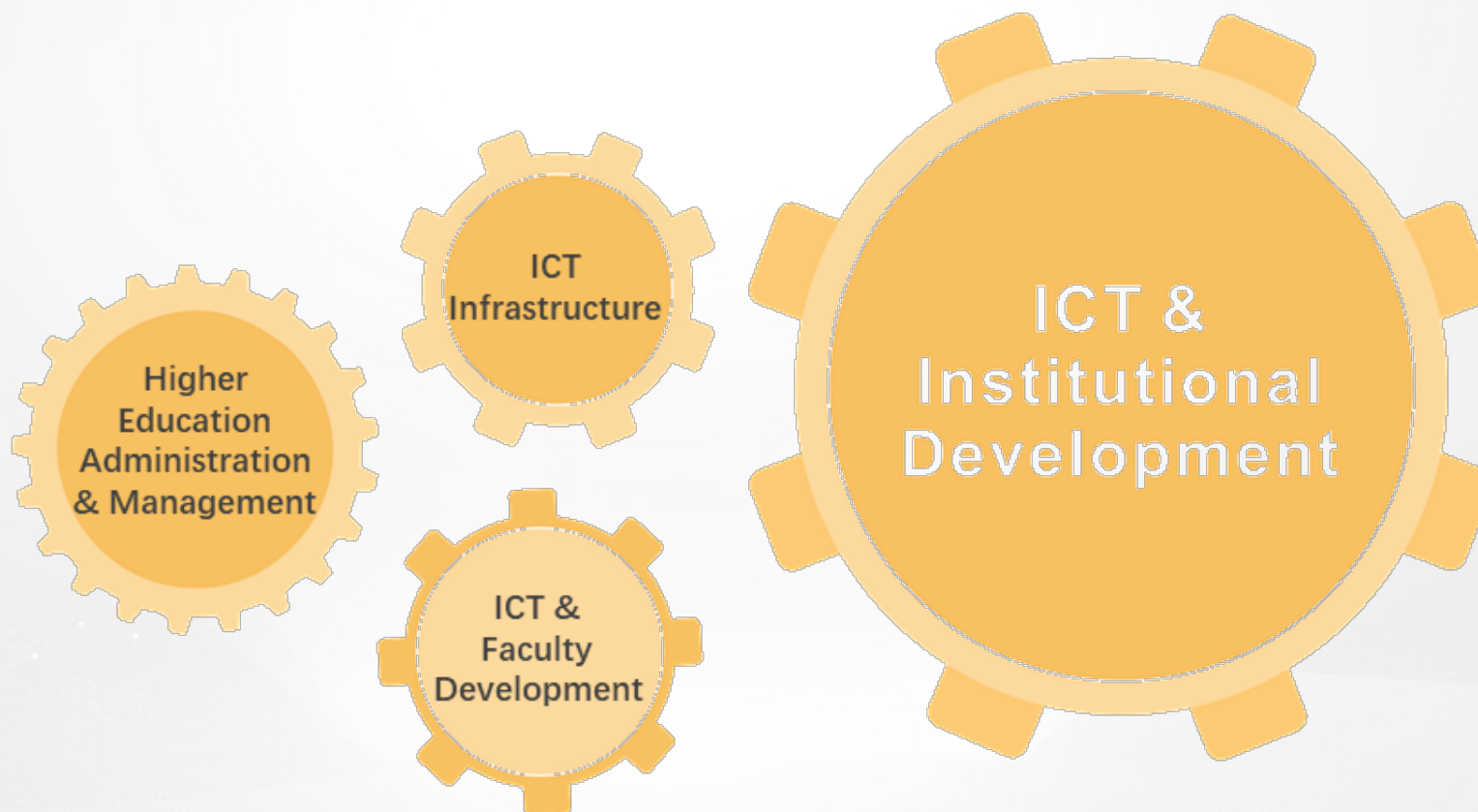


United Nations
Educational, Scientific and
Cultural Organization
联合国教育科学及文化组织



International Centre
for Higher Education Innovation
under the auspices of UNESCO
联合国教科文组织高等教育创新中心

ICT & Institutional Development



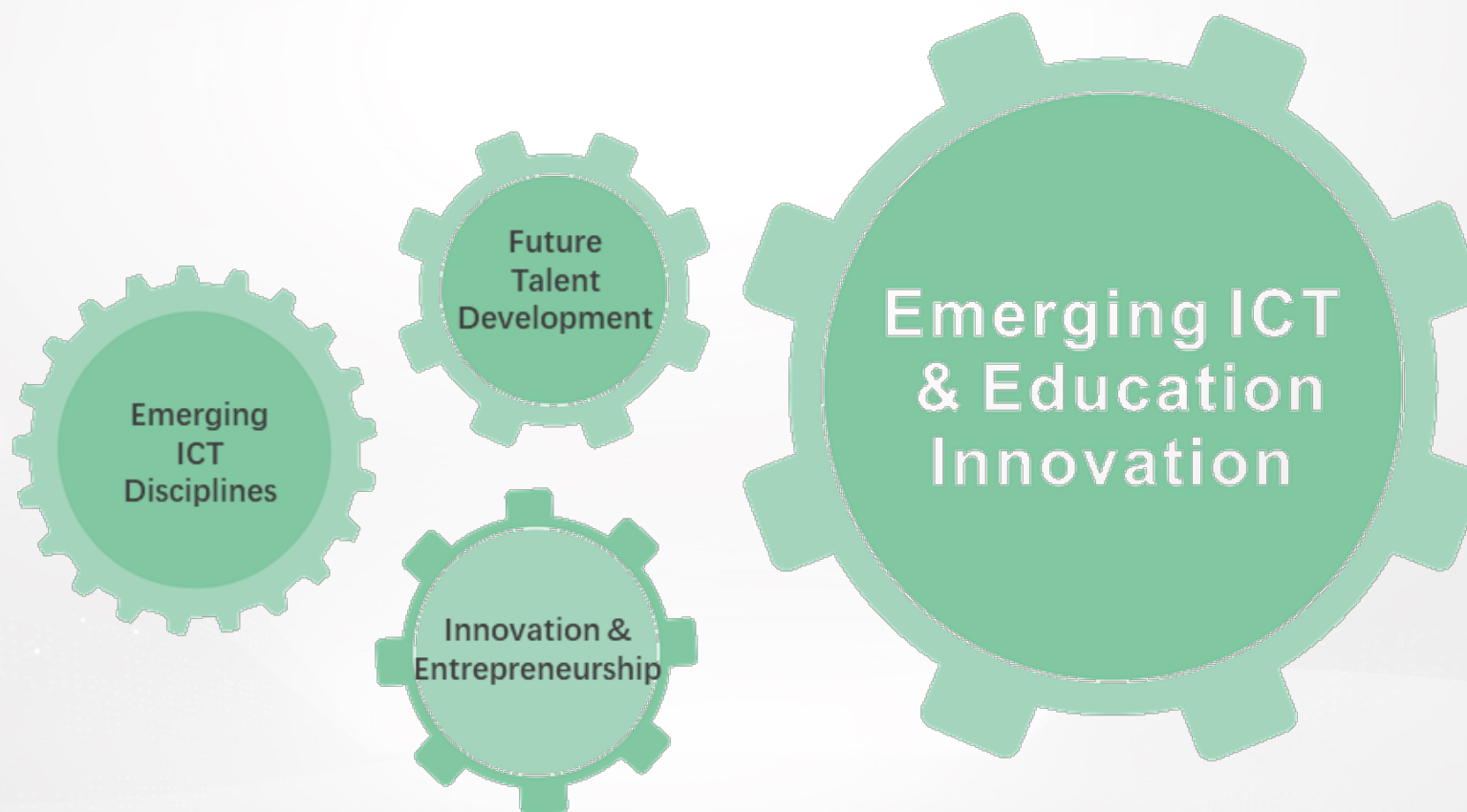


United Nations
Educational, Scientific and
Cultural Organization
联合国教育科学及文化组织



International Centre
for Higher Education Innovation
under the auspices of UNESCO
联合国教科文组织高等教育创新中心

Emerging ICT & Education Innovation



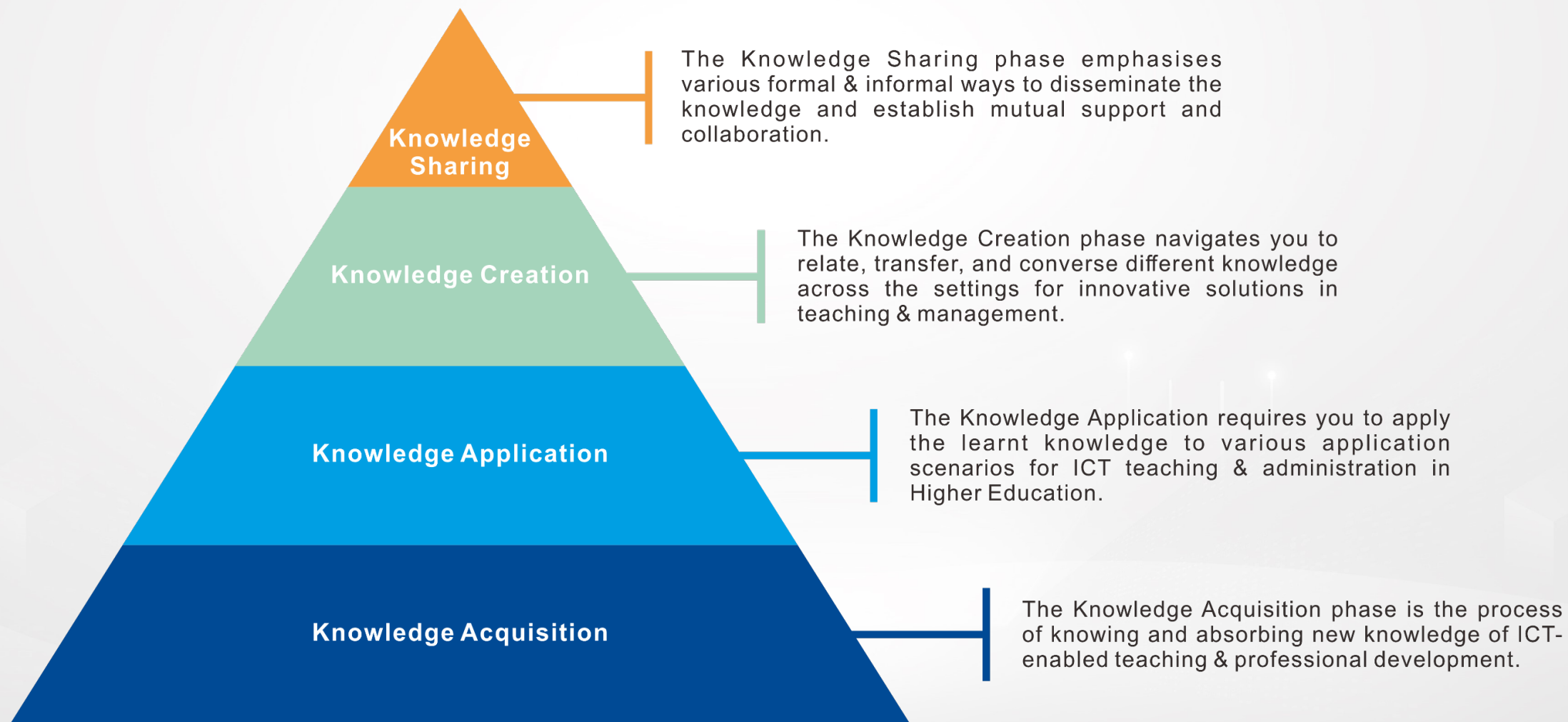


United Nations
Educational, Scientific and
Cultural Organization
联合国教育科学及文化组织



International Centre
for Higher Education Innovation
under the auspices of UNESCO
联合国教科文组织高等教育创新中心

Four Phases of IIOE-CFHEW





United Nations
Educational, Scientific and
Cultural Organization
联合国教育科学及文化组织



International Centre
for Higher Education Innovation
under the auspices of UNESCO
联合国教科文组织高等教育创新中心

IIOE-CFHEW: Putting Dimension 1 & Phases Together



		Phase 1	Phase 2	Phase 3	Phase 4
		Knowledge Acquisition	Knowledge Application	Knowledge Creation	Knowledge Sharing
OBTL & Education Transformation	Curriculum Design	Understand the principles for Online/ Blended Teaching and Learning (OBTL) curriculum design	Implement OBTL objectives and transform existing curricula into OBTL forms & standards	Develop dynamic OBTL teaching scenarios & learning opportunities in creating integrative educational experience enabled by ICT	Promote digital learning through various forms of OBTL contents & practices made available by the ICT resources
	Teaching & Learning	Understand OBTL Philosophies, Methodologies, Approaches, and strategies in achieving suitable learning outcomes	Implement OBTL instructional methods and tools into existing teaching & learning cycles and observe these activities for optimised learning outcomes	Innovate on OBTL methods & approaches, effective uses of ICT tools in promoting Active, Student-centred Learning experiences	Stimulate intrinsic motivation and empower students with Self-directed Learning (SDL) strategies in adaption to multiple hybrid teaching & learning activities
	Assessment & Reflection	Understand students' learning needs and the variety of OBTL assessment forms, standards, and mechanisms for teaching & learning reflection	Implement multiple OBTL assessment & feedback components for comprehensive evaluation of students' performance and reflect on related teaching activities	Develop diverse & flexible OBTL assessment mechanisms in providing personalised and constructive learning feedback & support	Promote ICT and (non)-ICT, multi-faceted assessment based on various explicit & tacit learning goals in improving Student-centred education practices



United Nations
Educational, Scientific and
Cultural Organization
联合国教育科学及文化组织



International Centre
for Higher Education Innovation
under the auspices of UNESCO
联合国教科文组织高等教育创新中心

IIOE-CFHEW: Putting Dimension 2 & Phases Together



		Phase 1	Phase 2	Phase 3	Phase 4
		Knowledge Acquisition	Knowledge Application	Knowledge Creation	Knowledge Sharing
ICT & Institutional Development	ICT Infrastructure	Understand the role & uses of ICT tools as Higher Education Digital Infrastructure in terms of Education and Administration Support	Implement ICT tools as infrastructural support in ensuring the implementation of various educational or management projects	Innovate on the functional uses and management procedures of ICT tools in improving faculty awareness & responsiveness to updated uses of technologies	Build a broad consensus of Smart Institution and promote the need for stewardship in enabling sustainable, positive changes for HEI digital transformation
	ICT & Faculty Development	Understand the direction & approach for ICT-enabled faculty development	Identify, explore, evaluate, and manage various faculty development paths using ICT tools	Create faculty and self-development plans in improving digital literacy for progressive learning & development	Build dynamic networks to share and exchange expertise for mutual support & collaboration in ICT-oriented faculty development
	Higher Education Administration & Management	Understand ICT & Higher Education policies, documents, and their relevance to institutional, local, and national educational goals	Apply ICT & Higher Education policy instructions and documents to the design of institutional administration and development goals	Initiate institutional policies or documents in improving education management & administration processes for an ICT-enhanced higher education workplace	Advocate innovative educational concepts & models addressed in ICT Higher Education policies and share experience & expertise in related reform practices



United Nations
Educational, Scientific and
Cultural Organization
联合国教育科学及文化组织



International Centre
for Higher Education Innovation
under the auspices of UNESCO
联合国教科文组织高等教育创新中心

IIOE-CFHEW: Putting Dimension 3 & Phases Together



		Phase 1	Phase 2	Phase 3	Phase 4
		Knowledge Acquisition	Knowledge Application	Knowledge Creation	Knowledge Sharing
Emerging ICT & Education Innovation	Emerging ICT Disciplines	Understand the theoretical knowledge and development trends of Emerging ICT disciplines (listed as AI, Big Data, Cloud, IoT, Blockchain, etc.)	Understand the practice of vocational knowledge including technical & application principles of emerging ICT in various industrial settings	Initiate academic, scientific research & innovation in fields of emerging ICT in fostering interdisciplinarity and innovation	Promote sharing and exchange of knowledge & expertise in fields of emerging ICT in solving real-world problems in different settings
	Future Talent Development	Understand the significance of talent development in fields of emerging ICT and the future-oriented vocational skill requirements	Identify existing talent development issues & opportunities based on understandings of prospective research resources	Conceive and design educational plans & programmes for future talent development in emerging ICT or other relevant fields	Build a shared vision for future talent development in light of Smart ICT for augmented human intelligence & lifelong learning capabilities
	Innovation & Entrepreneurship	Understand the models, processes, and mechanisms for University-Industry Cooperation (UIC) & entrepreneurship capturing technology opportunities	Engage in research & innovation projects and establish university-industry links in integrating institutional research capacity with industrial support & resources	Develop standards and procedures for UIC considering the diverse needs of education, production, and technological innovation	Advocate the construction of entrepreneur ecosystem and innovation-driven environment within HEI addressing the convergence of values, beliefs, and future opportunities



United Nations
Educational, Scientific and
Cultural Organization
联合国教育科学及文化组织



International Centre
for Higher Education Innovation
under the auspices of UNESCO
联合国教科文组织高等教育创新中心

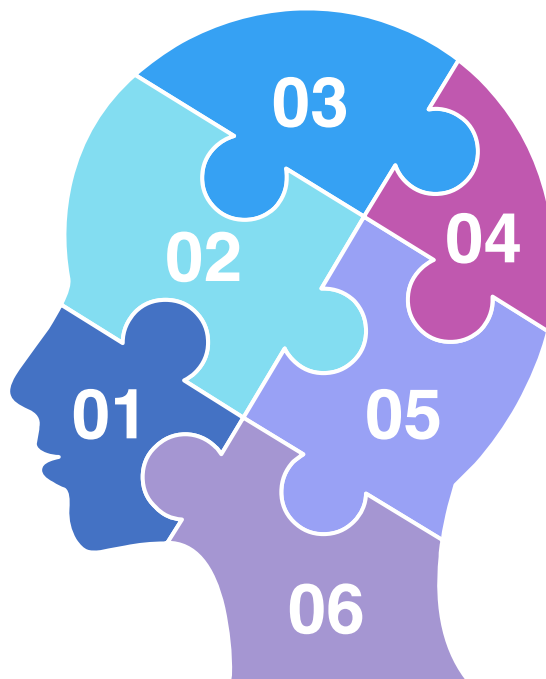
Over to your presentations ...



*How could the Competency Framework be improved upon or clarified **from the perspective of your institution?***



*Who are the higher education stakeholders that will benefit from the IIOE-CFHEW **in your higher education context?** How will they benefit?*



*How could the IIOE-CFHEW be integrated with other competencies **for different HEIs?** And how does the IIOE-CFHEW support **your institutional development needs?***



United Nations
Educational, Scientific and
Cultural Organization
联合国教育科学及文化组织



International Centre
for Higher Education Innovation
under the auspices of UNESCO
联合国教科文组织高等教育创新中心



International Institute
of Online Education
国际网络教育学院

Thank you!

Dr. FENG Siyuan - 冯思圆 fengsy@ichei.org

Ms. ZENG Bingran - 曾冰然 zengbr@ichei.org

