Future Skills

The future of learning and higher education

The Future Skills Report
International Delphi Survey

Annex C - Questionnaire Round 2

03/2019

Disclaimer

The Future Skills Report presents information and data that were compiled and/ or collected through a research team from Baden-Wurttemberg Cooperative State University in Karlsruhe, Germany. This document entails Annex C of the Delphi study.

This work is published under the responsibility of Prof. Ulf-Daniel Ehlers – www.ulf-ehlers.net
Baden Wurttemberg-Cooperative State University – www.dhbw-karlsruhe.de
Karlsruhe/ Germany
ulf-daniel.ehlers@dhbw-karlsruhe.de

in cooperation with Sarah A. Kellermann

Information about the Project

This Delphi Survey is part of the Research Initiative on "Future Skills – Future Learning and Future Higher Education", which started in 2015. It includes research on learning and change on organizations pathways to the future, their conceptions of the future workplace and the definitions of futures skills and involves data- and methodological triangulation in three separate modules building on each other.

Module A: Analysis of future organizations competence and skill development concepts through expert ratings from a sample from more than 120 business and public organizations in order to identify advanced future organizations (2015-2017).

Module B: In-depth interview series with more than 20 HR-, change- and business experts as well as students on future skills, future learning and future higher education from 17 different future organizations (2017-2018).

Module C: Delphi Survey on future skills, and drivers and scenarios for future learning and future higher education (2018-2019).

Get more information on the projects here:

<u>www.next-education.org</u> – Information on the research group and related projects <u>www.nextskills.org</u> – Information about the Future Skills Project

Please cite this publication as:

Ehlers, Ulf. -D., Kellermann, Sarah A. (2019): Future Skills. The future of Learning and Higher education. Results of the International Future Skills Delphi Survey. Karlsruhe



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Annex C

Delphi Survey "Future Skills – Future Learning – Future Higher Education", Round 2

Welcome

Dear Expert!

Thank you once again for your participation in the Delphi Study on "Future Skills – The Future of Learning and Higher Education", and specifically for taking part in this 2nd round of the Delphi now!

The study has already raised a lot of interest and we will be happy to provide you with the first results in return for your helpful participation very soon. While the first round of the Delphi focused on validating formulations and concepts for future higher learning, this second round is focusing on the speed of adoption of the future development in higher education.

Participation in this round will take less time than the first, probably about 15 minutes, depending on the intensity of your engagement. We will ask you to enter your email address and contact data at the end of the survey, so that we can share the result reports with you. However, your answers and information given will be kept with highest confidentiality and just for the purpose of this study.

In case of your agreement your name, job title and institution will be included in the final publication in acknowledgement of your participation to this Delphi study.

Thank you very much for supporting this important research!

Ulf-Daniel Ehlers

Professor for Educational Management and Lifelong Learning
Vicepresident European Association for Institutions of Higher Education
Member of the Executive Committee of the European Distance and E-Learning Network
Senior Advisor for Digital Transformation in Teaching and Learning
Baden-Württemberg Cooperative State University Karlsruhe, Germany
mail: ehlers@dhbw-karlsruhe.de

Delphi Survey "Future Skills – Future Learning – Future Higher Education", Round 2

Part 1: Time of adoption for future higher education scenarios

Before we get started some short explanation:

This time it is about your opinion on the "time & pace of adoption" of the future developments in higher education. It is working with validated statements and concepts which have been refined and reformulated, taking into account your opinions and comments from the first round of answers.

The survey consists of two parts:

Part 1 Driving Factors & Future Scenarios

- Topic 1: Topic 1 asks for your opinion on the time of adoption of the four driving factors changing higher education in the future.
- Topic 2: Topic 2 asks your opinion on the time of adoption of future scenarios about higher education.

Part 2 Future Skills

- Topic 1: Individual learning experiences
- Topic 2: FutureSkills

Delphi S Round 2		tills – Future Learning –	Future Higher Educat	ion",		
Part I	: Driving factors &	& scenarios for the futu	re of higher education			
An ar impo the D rated	rtant factors, wh elphi, a number and commented	ch literature on change ich influence higher ee of consequences resu I by 46 international ex king into account the e	ducation developmer Iting from these influ operts. These stateme	nt. In round 1 of ences have been ents have then		
estim educa	ate the pace of acation. Please sele	ng the validated set of s doption of the four main ect the timeframe in whatements are becoming	determining factors of nich you believe the c	change for higher levelopments		
	ctor 1: An emerging ributes in higher ed	focus on future skills radioucation.	cally changes the current	t definition of graduate		
org red ans	anization, applying & uced/ narrow focus o	on a "next mode" of studying reflecting knowledge, creati In academic and valid knowle stions based on a curriculum	vity and innovation, etc.) gr edge acquisition as a mear	radually replaces a ns to provide correct		
	already happening	relevant within next 5 years (short term)	relevant within next 10 years (mid-term)	relevant within next 15 years (long term)		
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	Factor 2: Higher education increasingly becomes a multi-institutional study experience.					
		on of higher education increa n which higher education is p				
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		neir own personalized o	curriculum.	
programs mo	ves from a fully ory model in w	predefined and 'up-fron	ograms enlarge. The curricu nt' given structure to a more properate with professors/ te	e flexible, personalize
alrea happe		relevant within next 5 years (short term)	relevant within next 10 years (mid-term)	relevant within next 15 y (long term)
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Factor 4: Hig learning serv		institutions turn towa	rds providing offerings fo	or lifelong higher
		del of higher education, imented with higher lifeld		ont) for a future
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Delphi Survey "Future Skills - Future Learning - Future Higher Education", Part I: Driving factors & scenarios for the future II. Adoption time for future higher education scenarios The majority of participants of the first round of the delphi survey agreed that future skills, personalization, new study pathways and lifelong learning would lead to change in higher education. These four determining factors can be used to create foresight scenarios for higher education. In order to gain a clear picture of the state of development and the pace of change, we are now asking for your opinion on the pace of change for the four future scenarios presented below. Please use the rating scale below each scenario to indicate whether in your opinion, the scenario is already reality or how long you think it will take each scenario to come true. After estimating the adoption period, please briefly explain the reasons for your judgement. Future Scenario 1: The 'future skill' university The 'future skill' scenario suggests higher education institutions leaving the current model of focusing on knowledge acquisition. Instead, new profiles are developed that emphasize graduates' future skill development. In this scenario higher education is mainly organized around one main objective: to enable the development of graduates' future skills, i.e. complex problem solving, dealing with uncertainty or developing a sense of responsibility, etc. This is not replacing but going beyond the current emphasis of knowledge acquisition and studying based on defined curricula for fixed professions. It is rather emphasizing students' focus on reflection of values and attitudes, application of existing and creative development of new knowledge and methods. The main ambition is to enable students to act in unknown future contexts in their field of profession. already relevant within next 5 years relevant within next 10 years relevant within next 15 years happening (short term) (mid-term) (long term) Please provide a brief explanation for your judgement here.

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	and enable students to choos indaries. This is becoming pos		
	a. From a student's perspectiv		
	emic providers takes place, wi		
others are focusing on	delivery and learning.		
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Futuro Soonario 2: Ti	o "My University" model	norconalized higher educ	antion
	ne "My University" model -	• • • • • • • • • • • • • • • • • • • •	
In this scenario studen	ts study according to persona	llized curricula. They are gi	uided by professors/
teachers/ advisers to h	ecome autonomous learners	and engage in building the	ir own curriculum by
choosing and assembl	ing their course portfolio from	across several academic p	programs and institution
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This is not neglecting t	he important role of introducto	ory and foundational phase	s in early study cycles
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phi Survey "Future Skills – Future Learning – Future Higher Education", und 2				
art II: Futu	re skills and f	uture learning		
Part II n the followigher educ		l statements on futi	ure higher learning a	nd future skills in
	•	in your view - it will elevance in higher e	take the developmened	nts expressed in
opic 1: Inc	lividual learn	ing experience and	skill development	
1.1 : The	ability to contino	usly adapt through learni	ng in changing work enviro	nments.
	levant oday	relevant within next 5 years (short term)	relevant within next 10 years (mid term)	relevant within next 15 yea (long term)
	0	0	0	0
	elevant oday	relevant within next 5 years (short term)	relevant within next 10 years (mid term)	relevant within next 15 year (long term)
Please use	the box below to	comment on the above	statements (intional)	
			у при	

Delphi Survey "Future Skills - Future Learning - Future Higher Education", Round 2 Part II: Future skills and future learning Topic 2: Future Skills From Delphi Round 1, we have learnt that there is a perceived discrepancy between the importance of future skills and the current capacity of higher education institutions to support the development of such future skills. For each of the future skill areas (personal skills, object-related skills, and organizationrelated skills) you find the results below. Importance versus degree of implementation of future skills Personal Future Skills Object-related Future Skills Organization-related Future Skills ous learning competences 12,7

Personal agility 12,7

4,5 Ability to reflect 3,0 4,5 Digital literacy 2,9 In your view: Please state which steps have to be taken to raise the capacity to support such future skills in higher education institutions.

Delphi Surve Round 2	y "Future Skil	ls – Future Learning –	Future Higher Educat	ion",		
Part II: Futu	ıre skills and fu	ture learning				
The last to	opic deals wit	h the organization of	higher education in	the future.		
	We have listed statements, which have been reformulated and validated from the first Delphi round below.					
		e would like to ask yo nce in higher education		on the time it		
Topic 3: Ir	nstitutional le	vel and development	of study process			
3.1: 0 higher ed		to act in unknown and com	plex future contexts as ma	in leading orientation in		
hiç	already hly relevant	relevant within next 5 years (short term)	relevant within next 10 years (mid-term)	relevant within next 15 years (long term)		
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	ssessment for le	earning (formative and peer ssment).	assessment) as opposed	to assessment of		
hiç	already Jhly relevant	relevant within next 5 years (short term)	relevant within next 10 years (mid-term)	relevant within next 15 years (long term)		
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3.3 : 0	Certification of sm	nall, modularized study exp	eriences in form of micro-c	redentials.		
hiç	already hly relevant	relevant within next 5 years (short term)	relevant within next 10 years (mid-term)	relevant within next 15 years (long term)		
	0	0	0	0		
	ligher education	as institutional patchwork e	experience; students studyi	ng across disciplines in		
hiç	already hly relevant	relevant within next 5 years (short term)	relevant within next 10 years (mid-term)	relevant within next 15 years (long term)		
	0	0	0	0		
3.5: Finstitution	2 0	or learning and existing cor	mpetences enables studen	ts to move between		
hiç	already phly relevant	relevant within next 5 years (short term)	relevant within next 10 years (mid-term)	relevant within next 15 years (long term)		
	0	0	0	0		

Other (please specify) 3.7: Future higher education models are structured as learning communities (learning with each other) instead of knowledge transfer-oriented places (e.g. teacher's lecture). already relevant within next 5 years relevant within next 10 years relevant within next 15 years (long term) 3.8: Openness to alternative study pathways and permeability in higher education. already relevant within next 5 years relevant within next 10 years relevant within next 15 years highly relevant (short term) (mid-term) (long term) 3.9: Higher education learning focuses on interactive socio-constructive designs. already relevant within next 5 years relevant within next 10 years relevant within next 15 years already relevant within next 5 years relevant within next 10 years relevant within next 15 years already relevant within next 15 years relevant within next 16 years relevant within nex		uture skills do n	ot replace knowledge trans	fer but become more impo	ortant.
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