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# Chapter 3 International Dimensions in Teaching and Learning

[Alternative title: Internationalization of the curriculum - academics' perspectives]

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## Abstract

With the spread of globalization, the need to equip *all* students in higher education with international, intercultural and global competencies have become more pronounced. International mobility has long been the preferred practice to achieve this. However, despite the continuous increases in international education, the limits to student mobility are undisputed. This is how internationalization at home became a policy priority. One of the most direct and impactful mechanisms of internationalization at home is through teaching; specifically through emphasizing international perspectives and contents in course teaching. In this chapter, we analyze international dimensions in teaching and learning by comparing survey data from academics' reported behaviours and observations. Our research is guided by two research questions: (1) How countries compare according to academics' emphasizing international perspectives and contents in teaching?; and (2) How the internationalization practices impact internationalization of the curriculum across countries?. Academics' insights are relevant since they are one of the key agents of internationalization. The chapter utilizes the survey data of academic staff acquired within the global research network APIKS (Academic Profession in Knowledge Societies) with the geographic focus involving 20 countries from three world regions. Our findings point to notable differences between countries and world regions in academics' implementation of international perspectives or contents in their course teaching. We also find that the greatest impact on academics' emphasizing international contents in their teaching comes from their institutions having a clear internationalization strategy and encouraging recruitment of foreign academics.

## Biographies

Dr. Ho is a Professor and Director of Institute of Educational Administration and Evaluation at University of Taipei (Taiwan), and her major research contribution is in the study of faculty development, institutional governance and academic profession in higher education. Currently, she is also the Deputy CEO, Accreditation Council for Chinese Business Education (ACCBE) (Taiwan); Secretary General, Taiwan Association for Institutional Research (TAIR); SEAAIR Executive Committee, South East Asian Association for Institutional Research (SEAAIR), and the delegate of the Task Force on Action Plan of APEC Education Strategy of Chinese Taipei. Dr. Ho has published several journal articles and presented in international conferences in the topics of institutional research and student learning outcomes, as well as won 2015 and 2016 Charles F. Elton Best Paper Awards of the Association for Institutional Research (AIR) in the USA.

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Edgar Oswaldo González-Bello is a professor-researcher at the University of Sonora (Mexico) in the Department of Psychology and Communication Sciences. His performance is in the area of Education and postgraduate degrees in Educational Innovation. He is a member of the National System of Researchers (CONACyT-Mexico) and of the Mexican Research Council. Research topics of interest are innovation and educational change, higher education and academics, teaching and the processes of internationalization of the curriculum, as well as digital technology and distance education.

## Introduction

Internationalization of higher education is seen as one of the key markers of quality higher education. Student mobility, recruitment of international students and staff and international research collaboration have long been held as important aims and key indicators of internationalisation of higher education, and other themes have also emerged, such as academic mobility, international knowledge transfer (Huang 2014). With the spread of globalization, the need to equip *all* students with international, intercultural and global competencies have become more pronounced. This is to fulfil one of the purposes of higher education as “as the key engines of human resource development and ultimately their economic competitiveness” (Huang 2014, p.1). Despite the continuous increase in international education, both in terms of mobile degree students and short-time mobile students, the limits to student mobility are undisputed. It is unlikely that the majority of the student population in any country will benefit from study abroad opportunities despite increases in funding and increased offer of mobility programs. This is how internationalization at home became a policy priority.

Internationalization at home is an umbrella term to describe the variety of instruments and activities to enable all students, regardless if they participate in study abroad programs or not, to develop international, intercultural and global competences (Leask, Beelen and Kaunda 2013). One of such instruments of internationalization at home is internationalization of the curriculum. Internationalization of curriculum too has several dimensions, including and especially the measures whereby the academics’ emphasise international perspectives and contents in course teaching, departments include international modules in study programs, and similar.

In this chapter, we focus specifically on international dimensions in teaching as the most direct measure of internationalization of the curriculum and thus of internationalisation at home. We are interested in academics’ behaviour in terms of their emphasizing international perspectives and contents in teaching and comparing these behaviours across countries in different world regions. We also compare the academics’ observations of the two indirect indicators of the internationalization of the curriculum: the increase in number of international students, and presence of international graduate students. Furthermore, we are interested in understanding how different internationalization practices at a higher education institution impact the international dimension in teaching. Especially, does a clear internationalization strategy at an institution positively impact academics’ propensity to emphasise international perspectives and contents in teaching? Our research is guided by two research questions: (1) How countries compare according to academics’ emphasizing international perspectives and contents in teaching?; and (2) How the internationalization practices impact internationalization of the curriculum across countries?. We utilize survey data of academic staff acquired within the global research network APIKS (Academic Profession in Knowledge Societies) with the geographic focus involving 20 countries from three world regions (APIKS - IDB 2021).

Academics' insights on this topic are relevant since academic staff are one of the key agents of internationalization. Academics have the capabilities to drive internationalization by directly implementing the desired policy measures, such as emphasising international perspectives and contents in teaching, or they can stall internationalisation processes if they lack capabilities to implement the policy measures or are otherwise unwilling to do so. The existing studies of internationalization of curriculum focus mostly on the analysis of policies and practices at national, institutional or study-programme level (Childress 2010; Jones and Killick, 2013). The approach taken in our study align with the conducted by Coates, Dobson, Goedegebuure and Meek (2014) that was included in the edited volume *The Internationalization of the Academy: Changes, Realities and Prospects* (Huang, Finkelstein and Rostan 2014). The survey data from the country studies conducted within the global research network APIKS (Academic Profession in Knowledge Societies) offers first-hand reports from academic staff on their actual behaviour, i.e., how likely they are to include international perspectives or contents into course teaching, as well as their observations of internationalization practices more broadly. The APIKS data we utilize in our study also has a unique geographic reach involving survey data from 20 countries from three world regions: Americas, Asia, and Europe.

In the remainder of the chapter, we first review literature on internationalization of the curriculum and international dimensions in teaching to locate our research within broader scholarly conversations. Next, we describe the methodology of our study which focuses on academics' agentic behaviour in respect to international dimensions in teaching, and their observations of other internationalization practices. In the section on findings, we present data from international comparative analysis on the two research questions: (1) How countries compare according to academics' emphasizing international perspectives and contents in teaching?; and (2) How the internationalization practices impact internationalization of the curriculum across countries?.

Our findings point to notable differences between countries and world regions in academics' implementation of international perspectives or contents in their course teaching. The highest reported such behavior was among academics from Turkey, Kazakhstan, Portugal, Mexico and Chile, and the lowest from Germany and Japan. We also find that the greatest impact on academics' emphasizing international contents in their teaching comes from an institution having a clear internationalization strategy and if the institution encourages recruitment of foreign academics. Finally, we also found that funding and other opportunities for international visiting students negatively correlate with internationalization of the curriculum.

## Review of literature

Internationalization of the curriculum has come to the forefront of the internationalization efforts in the report by the Organization for Economic Cooperation and Development (OECD) (van der Wende, 1996). Over time it has become one of the central concepts and an essential component in internationalization at home which is part of internationalization of higher education (Leask, Beelen and Kaunda, 2013). Beelen and Leask (2011, p.5) define internationalization at home not as an aim or a didactic concept, but rather as a set of instruments and activities at a home institution that aim to develop international, intercultural and global competences in all students enrolled at that institution regardless if they engage in mobility programmes abroad or not. Internationalization of curriculum can thus be considered as one of the instruments of internationalization at home specifically and of internationalization of higher education more broadly.

Internationalization of the curriculum refers to international, intercultural and global dimensions in higher education curricula. It encompasses, first and foremost, the practices of curriculum development inclusive of international, intercultural and global perspectives both in content and in teaching and learning strategies (Clifford, 2013). These practices as well as the student learning outcomes that show improved international, intercultural and global competencies are rather difficult to measure. However, there has been pressure on higher education institutions to measure and quantify the inputs and outputs of internationalization (Brandenburg in de Wit, 2011 in Askerc Zadavec, 2021). Therefore, more quantifiable measures have been introduced to determine the extent of internationalization of the curriculum in a specific institution or its department or a study programme (Askerc Zadavec, 2021). The markers of internationalization of the curriculum nowadays include not only curricular contents and teaching and learning approaches inclusive of international, intercultural and global perspectives, but also other indicators, such as presence of international visiting professors offering courses, recruitment of academic staff from foreign countries, number of courses taught in foreign languages, and enrollment of international visiting students or international degree students (Askerc Zadavec, 2021). Still, the most conclusive and decisive indicator of internationalization of the curriculum remains the academics' emphasis on international perspectives and contents in their course teaching. Therefore, in this study, academics' emphasis on international perspectives and contents in their course teaching is our prime dependent variable, but we also consider the observed increases in foreign students and recruitment of foreign academic staff as dependent variables.<sup>1</sup>

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<sup>1</sup> Another relevant measure on international dimensions in teaching and learning would be academics' reported course teaching in foreign languages. Given the size of the survey population, we have not included this measure in our analysis.

What are the drivers and rationales of internationalization of the curriculum? How is internationalization of the curriculum achieved at a higher education institution? Leask and Bridge (2013) suggest that internationalization of the curriculum is highly “context dependent” and varies across study programmes and disciplines, institutions and countries (cited in Leask, Beelen and Kaunda, 2013, p. 188). This means that there is likely a variety in the presence of the markers of internationalization of the curriculum mentioned earlier, and that differences can exist within institutions (based on disciplinary differences and priorities), and between institutions (based on political, economic, cultural influences).<sup>2</sup> Some institutions or study programs will emphasize more or less curriculum development, other institutions or study programs might put a greater or lesser emphasis on recruitment of foreign teaching staff (visiting or permanent) or recruitment of international students (visiting or degree). The institutional rationales and goals for internationalization are recorded in institutional strategies, in particular institutional strategies on internationalization.

Having a clear institutional strategy for internationalization may create enabling conditions for internationalization of the curriculum. However, we have to consider academics’ agentic capabilities in implementing these institutional policies and guidelines or not. Osakwe (2017) highlights that administrative support is needed to ensure professional development of academics to be prepared to integrate international perspectives in their courses. There is ample research that reports difficulties in engaging academic staff in the processes of internationalisation of the curriculum (Stohl, 2007; Egron-Polak and Hudson, 2010; Leask and Beelen, 2010; Childress, 2010; Osakwe 2017). Additional challenges are posed by the established pedagogical traditions in the different disciplines. Disciplines have different approaches, indeed different academic cultures when it comes to internationalization, international cooperation and or including international contents and perspectives in course teachings (Stohl, 2007; Osakwe, 2017). Part of the problem is a lack of understanding by the academics what internationalisation of the curriculum means within their disciplinary and institutional contexts or not feeling responsible or having capabilities to implement internationalization in their courses (Stohl, 2007).

Hence, the institutional policies and strategies on internationalization of teaching may have positive effects but cannot guarantee implementation by the academics. The policy might or might not develop specific support measures or incentives for academics to do so. Even if there are explicit goals for internationalization of the curriculum stated in an institutional strategy, the implementation might now be fully followed by all academics or it might be followed by more academics in some study programs than others. The discrepancy between institutional strategies and actual implementation of these strategies is a common feature in higher education (as it is in other social institutions). The main explanation lies in the agentic capabilities of key actors

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<sup>2</sup> In our study we focus exclusively on intercountry comparisons and do not account for interdisciplinary variations.

responsible for implementation, especially academics as in the case of implementation of international dimensions in teaching and learning.

Nevertheless, we are able to hypothesize that a presence of a clear institutional strategy on internationalization increases the likelihood for seeing the outcomes of internationalization in the emphasis on international contents and perspectives in course teaching as measured in this study; as well as other outcomes of internationalization, such as an increased presence of international students and international academics. We test this hypothesis in the analysis below, and also measure how other institutional conditions (independent variables) impact internationalization of the curriculum. We understand that the institutional strategies continue to evolve following the changes in the rationales for internationalization and specific goals that the institutions set for themselves. For example, the rationales for internationalization of the curriculum can be “preparing graduates for a globalised world” or “developing intercultural competence” in students (Leask, Beelen and Kaunda 2013) and the prioritized measures to achieve this can be internationally-diverse student body, internationalized academic staff, international modules in study programmes, or international contents and perspectives in teaching or some combination of these.

The institutional priorities on internationalisation of teaching and learning are reflected in the broader goals for internationalization of higher education in a specific country. Huang (2014) reports that the internationalization of the academic profession has reflected the rationales for internationalization in a country: in countries which seek to become internationalization centres, it is more closely linked to commercial activities, while in peri peripheral countries, it is more linked to improving academic quality through internationalization of teaching and research. Countries can be categorised into centres and peripheries based on their civilizational and economic attraction (Klemencic 2017). Language, especially English-speaking and non-English-speaking countries also plays a role, especially in internationalization of teaching and learning (Coates et al 2014).

Finally, this study contributes to the growing literature on academic profession comparing the behaviours and experiences of academics across countries and world regions, and explaining the changes in the academic profession and conditions of academic work. We focus in particular on the issue of internationalization of academic profession which is the focus of the present volume to which our study contributes. Our findings can be compared to the studies which were based on the CAP (Changing Academic Profession) project conducted in 2007 and is a predecessor to the APIKS project (Coates, Dobson, Goedegebuure and Meek, 2014; Kwiek 2014; Aarrevaara, Dobson & Pekkola 2014; Huang 2015; McGinn, Ratković & Wolhuter (2013), ) and other related studies.

Specifically analysing data on the question ‘in your courses, you emphasise international perspectives or content’, Coates et al (2014, p. 112) found the highest responses (approximately two-thirds and higher) from academics in seven countries: “Highest rates of response was from Portugal (where 81 % of academics strongly agreed or agreed that they emphasised international perspectives), with Mexico, Korea, Hong Kong, Australia, Norway and the United Kingdom also having at least 67 % of their academics strongly agreeing or agreeing. The lowest responses came from Japan and Finland (51 %), the United States and Brazil (53 %) and Argentina (58 %).” Coates et al (2014) sought to distinguish between the trends among English-speaking and non-English-speaking countries, but they also suggested that the interpretation of the result was “not straightforward’ (p. 112); especially when a country, such as Portugal, a non-English-speaking country scored so high.

In a comparison between countries in Europe (Austria, Finland, Germany, Ireland, Italy, the Netherlands, Norway, Poland, Portugal, Switzerland, and the United Kingdom), Kwiek (2014) reported that 64% of full-time academics emphasize international perspectives or content in their courses. Higher percentages were achieved in countries such as Ireland and Portugal, unlike Poland and Germany where this perspective was least developed. In Finland, only half of the teachers emphasized this perspective (Aarrevaara, Dobson & Pekkola 2014). In the Asian continent, more Korean academics reported having integrated international perspectives and contents into their teaching than in China or Japan (Huang 2015). In the Americas, especially considering México, Brasil, Chile and excluding the United States and Canada, the internationalization of the curriculum has had heterogeneous results and the main actions have been shared programs and degrees, and co-tutorials between academics (Didou 2017).

Researchers point to different factors having a positive impact on academics’ emphasising international perspectives and contents in their courses. In European context, Locke (2009) suggests that the higher education institutions in England where research activities are carried out with greater intensity, are more likely to emphasize international perspectives or content in their courses. Emphasis of international contents and perspectives was also more frequently reported among academics from the departments of engineering and technology (Locke 2009). In the case of Poland, Kwiek (2017) found that internationalized teaching was more pronounced by full-time professors in contrast to junior academics. McGinn, Ratković & Wolhuter (2013), who analyzed a sample of academics from 19 countries participating in CAP, found that there were significant differences between national and immigrant academics; the latter were more likely to emphasize international perspectives and contents.

## Methodology and methods

Our research is guided by two research questions: (1) How countries compare according to academics' emphasizing international perspectives and contents in teaching?; and (2) How the internationalization practices impact internationalization of the curriculum across countries?.

Addressing the first research question, we investigate the occurrences in internationalization of the curriculum as reported behaviour by academic staff in different countries. We focus here specifically on the academics' reported behavior responding to the APIKS survey question "In your courses you emphasize international perspectives or content". We also measure two indirect indicators of the internationalization of the curriculum: 1) the increase in the number of international students (survey question "Since you started teaching, the number of international students has increased", and 2) presence of international graduate students (survey question "Currently, most of your graduate students are international"). Both of these two variables reflect academics' subjective observations of the situation. As discussed earlier, these two variables have also been identified in the literature as indirect indicators of the internationalization of the curriculum.

Second, we explore which internationalization practices have a positive impact on the internationalization of the curriculum. Specifically we measure the correlation between six internationalization practices as independent variables and the academics' reported behaviours emphasizing international perspectives and contents in course teaching as the dependent variable. These six internationalization practices include 1) existence of a clear institutional internationalization strategy (survey question: "Your institution has a clear strategy for internationalization:"); 2) exchange programs for students (survey question: "Your institution provides various international exchange programs for students"); 3) funding and opportunities for research abroad (survey questions: "Your institution provides various opportunities/funding for faculty members to undertake research abroad"); 4) funding and opportunities for visiting international students (survey question "Your institution provides various opportunities/funding for visiting international students"); 5) funding and opportunities for visiting international scholars (survey question "Your institution provides various opportunities/funding for visiting international scholars"); and 6) recruitment of faculty members from abroad (survey questions "Your institution encourages the recruitment of faculty members from foreign countries").

Furthermore, we also investigate the correlation between the six internationalization practices and all three dependent variables indicating internationalization of the curriculum: academic staff emphasizing international perspectives or contents in teaching; observed increase in the number of international students; and observed high presence of international graduate students. Based on the existing literature, our working hypothesis here is that a presence of a clear institutional strategy on internationalization increases the likelihood for the outcomes of internationalization in terms of the emphasis on international contents and perspectives in course teaching as

measured in this study, but also other outcomes of internationalization, such as an increased presence of international students and international academics in the respective institution.

In order to verify the research hypotheses, we utilized the scale developed by the Academic Profession in the Knowledge-based Society (APIKS) survey to measure the perception of selected variables by university academics in 20 countries (APIKS-IBD 2021). APIKS is an international and comparative study, which is the third wave after Changing Academic Profession (CAP) 2007 and Carnegie 1992 projects (Teichler, Arimoto & Cummings 2013; Höhle and Teichler 2013), aiming to understand the creation and emergence of the knowledge society, comparing academics' changing working conditions across the world. The subjects of this study are academics working at higher education institutions in 20 countries, including Canada, Chile, Argentina, Mexico, Croatia, Estonia, Finland, Germany, Portugal, Russia, Slovenia, Sweden, Switzerland, Turkey, Lithuania, Taiwan, Japan, South Korea, Malaysia, and Kazakhstan. A total of 42,413 samples are analyzed. In this study, we first use descriptive statistical analysis to analyze and compare the international dimensions in 20 participating countries and find out the factors that influence university internationalization in teaching and curriculum. Then Pearson product-moment correlation and multiple stepwise regression are adopted to clarify the relationship between these factors and explain the relevant factors that most affect internationalization while academics' courses emphasize international perspectives or content.

## Findings

In this section we present data and findings on the aforementioned guiding questions. First, we present the findings on the occurrences in internationalization of the curriculum through analysis of data on the academics' reported behaviour emphasizing international perspectives and contents in teaching which is a direct measure of internationalization of the curriculum. We also compare data on the two indirect indicators of the internationalization of the curriculum: the increase in the number of international students, and presence of international graduate students. Second, we explore how internationalization practices correlate with the internationalization of the curriculum. We first compare the observed internationalization practices among the countries. Then, we measure the correlation between the six internationalization practices and the internationalization of the curriculum.

## International comparison of internationalization of the curriculum

Our data on the occurrences of internationalization of the curriculum as reported behaviour by academic staff to emphasize international perspectives or contents in teaching points to notable

differences between the 20 countries. The highest reported emphasis of international contents or perspectives in course teaching is among academic staff from Turkey, Kazakhstan, Portugal, Mexico and Chile, and the lowest from Germany and Japan (see Figure 1).

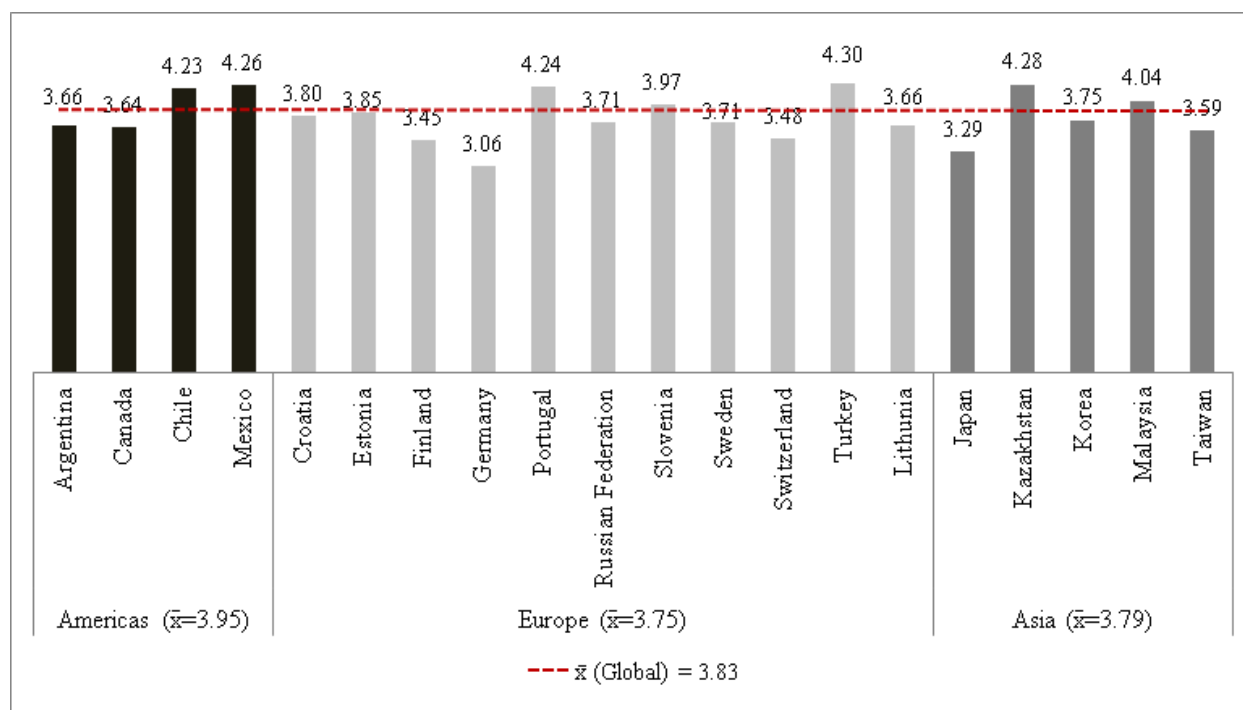


Figure 1. Emphasize international perspectives or content in teaching activities by countries.

In terms of regional differences, the Americas scored above the global average with Mexico and Chile above the regional and global average. The Asian countries' average score is just slightly below the global average and Kazakhstan and Malaysia scored above the global average. An Asian country with a very low reported score is Japan. The average score among the European countries is the lowest among the three world regions. Among the European countries, five scored above the global average: Turkey, Portugal, Slovenia, Estonia and Croatia. Also, some of the countries with the lowest reported behaviour of including international contents and perspectives in teaching are from Europe, most notably Germany, Finland and Switzerland.

Comparing APIKS data to the CAP international dataset from 2011, we observe some continuity. In Europe, Portugal continues to stand out for highly reported behaviour that emphasizes international perspectives and contents. Germany's position worsened compared to CAP survey, and the reported behaviour of Finish academics remains low, however higher than German.<sup>3</sup> In the Americas, Mexican, Argentinian and Canadian situations remain about the same.<sup>4</sup> Among

<sup>3</sup> We cannot compare longitudinally data for other European countries since different countries were included in the dataset.

<sup>4</sup> We cannot compare longitudinally data for other countries in the Americas since different countries were included in the dataset.

Asian countries, Korean academics' reported behaviour lowered compared to CAP survey and Malaysian increased. Japanese academics' reported behaviour remains low and among the lowest globally.<sup>5</sup>

Next, there are also notable differences between countries in regard to the observed increase in the number of international students by the academic staff. On this indirect indicator of the internationalization of the curriculum, the highest observed increases were in Portugal, followed by Slovenia, Russian Federation, Canada, Finland and Lithuania. In the Americas, on this measure, Canada and Argentina score higher than Chile and Mexico, but only the former is above the global average (3.30). European countries' average is above the global score, however it also includes Croatia which scores significantly lower than other countries. Among the Asian countries, Malaysia scored the highest.

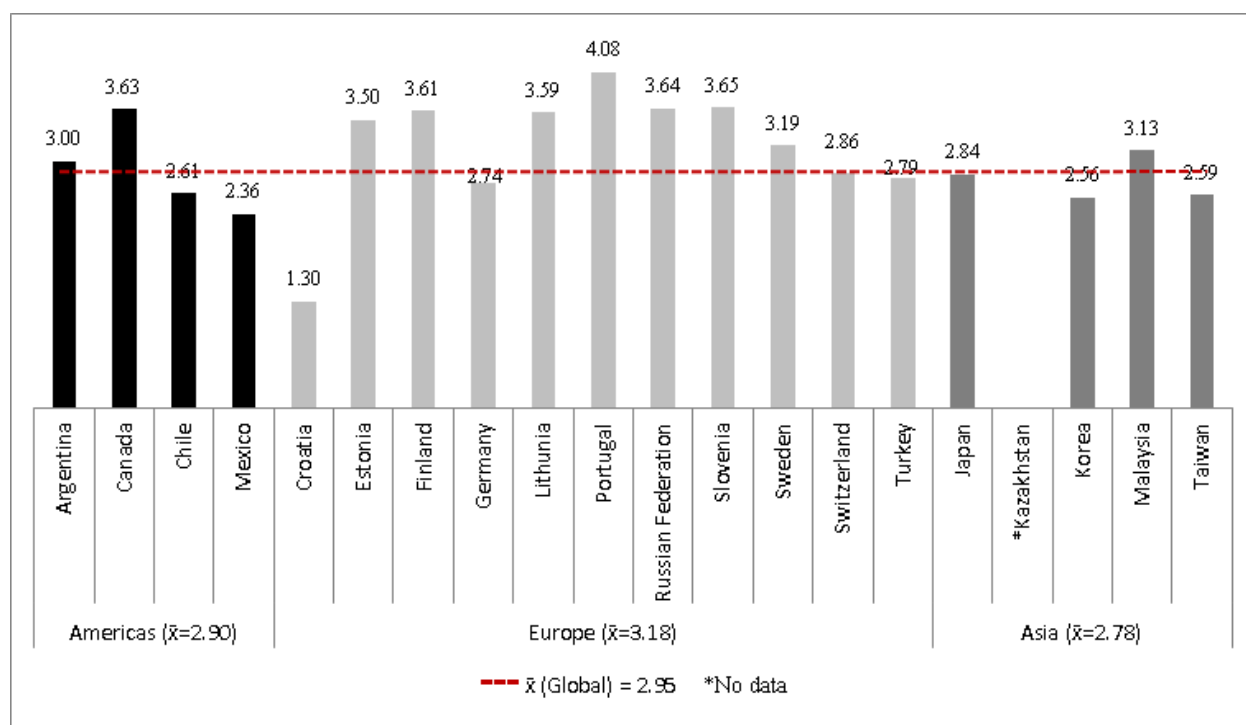


Figure 2. Perception of an increase in the number of international students by region.

In regard to the observed number of international graduate students, Kazakhstan and Croatia clearly stand out and Sweden, Canada and Malaysia are above the global average. Among the world regions, Asian countries on average report the highest presence of international graduate students, and the four countries in the Americas, the lowest. As reported by Didou (2107), student mobility is the internationalization activity that is most carried out in higher education

<sup>5</sup> We cannot compare longitudinally data for other Asian countries since different countries were included in the dataset.

institutions in countries such as Latin America (Chile, Argentina México, etc.), although it is reduced in global terms (less than 1% of enrollment). Brazil and Mexico are the countries with the highest international mobility, with the United States as the predominant place of arrival (Didou, 2017).

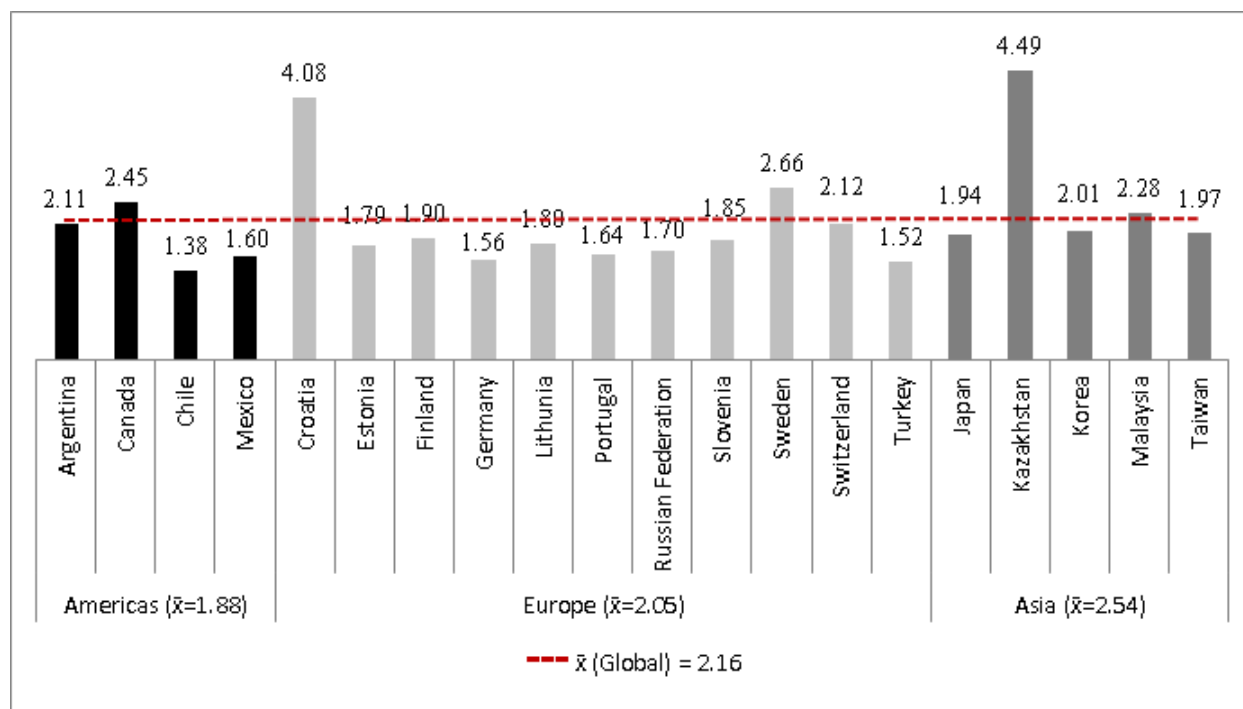


Figure 3. Comparison by country about which currently, most of its graduate students are international.

In sum, the occurrences in internationalization of the curriculum vary significantly between the 20 countries included in the study reflecting the differences in internationalization priorities or academics' willingness and capabilities to implement these priorities. What is clear from the data is that only one country prioritizes all three indicators of the internationalization of the curriculum measured in our study: the emphasizing international contents and perspectives as a direct indicator, and increase in international students and presence of international graduate students as indirect measures. This country is Kazakhstan. Portugal scores above the global average on the former two, but below average on the presence of international graduate students. The situation in Croatia is somewhat complex. While academics report an emphasis of international perspectives or contents for teaching activities slightly below the global average, the situation of international students is presented in opposite routes: higher in graduate students and lower for the increase in the number of students. Germany also stands out as a country that presents indices below the European average and below the global average for all three indicators of the internationalization of the curriculum: emphasis on international perspectives

and contents, graduate international students and increase in the number of international students. At the global level there are shared trends: America shows a higher index in emphasizing international perspectives or contents in teaching, Europe in the increase in the number of international students, and Asia in the perception that graduate students are international.

## Impact of internationalization practices on internationalization of the curriculum

We investigated the impact that internationalization practices have on the internationalization of the curriculum. In Table 1, we compared first the institutional support for internationalization in different countries as observed by the academic staff in respect to six specific internationalization practices.

Table 1. Institutional support for internationalization by countries and regions.

Region	Countries	Existence of a clear strategy for internationalization	Exchange programs for students	Funding and opportunities for research abroad	Funding and opportunities for visiting international students	Funding and opportunities for visiting international scholars	Recruitment of faculty members from foreign countries
Americas	Argentina	3.10	3.38	2.71	2.82	2.82	2.01
	Canada	2.98	3.73	2.52	2.78	2.54	2.53
	Chile	3.39	3.71	2.79	3.00	2.86	2.79
	México	3.54	3.76	3.12	3.09	2.91	2.78
Europe	Croatia	2.94	3.67	2.63	2.67	2.64	2.07
	Estonia	3.17	3.94	3.22	3.48	3.45	3.26
	Finland	3.39	4.09	3.64	3.91	3.69	3.04
	Germany	2.70	3.34	2.56	2.62	2.33	2.12
	Portugal	3.24	3.92	2.54	2.80	2.51	2.17
	Russian Federation	3.38	3.62	2.65	3.09	3.04	3.01
	Slovenia	3.03	3.31	2.50	2.68	2.68	2.34
	Sweden	3.26	3.43	2.81	3.03	2.90	3.12

	Switzerland	3.36	4.10	3.24	3.37	3.18	3.27
	Turkey	3.00	3.40	2.57	2.90	2.78	2.33
Asia	Kazakhstan	4.43	4.46	3.68	3.88	4.03	4.09
	Korea	3.95	3.52	2.68	3.28	2.71	2.79
	Japan	3.39	4.09	3.32	3.88	3.60	3.23
	Malaysia	3.76	3.86	3.11	3.08	3.15	3.35
	Taiwan	3.78	3.64	3.33	3.46	3.29	3.85

On six indicators, academic staff from Kazakhstan report the highest occurrence, while Korea presents the lowest indices -except for the existence of a clear internationalization strategy and funding and opportunities for visiting international students-. Among the countries in the Americas, Mexico's academic staff reports high or the highest occurrence on all indicators -with higher indexes in exchange programs for students-, with the exception of the recruitment of teachers from foreign countries where Chile is higher. Canada has the lowest index in four indicators, and Argentina takes its place in the remaining two: exchange programs for students and recruitment of faculty members from foreign countries. Among the European countries, the comparative picture is more complex, although Finland stands out in most indicators, alternating with Switzerland.. The lowest rates are between Germany and Slovenia, and Croatia with the issue of recruitment of faculty members from foreign countries.

Finally, we measured the correlation between the six internationalization practices as independent variables:

- Your institution has a clear strategy for internationalization
- Your institution provides various international exchange programs for students
- Your institution provides various opportunities/funding for faculty members to undertake research abroad
- Your institution provides various opportunities/funding for visiting international students
- Your institution provides various opportunities/funding for visiting international scholars
- Your institution encourages the recruitment of faculty members from foreign countries

and the academics' reported behaviours on dependent variables:

- In your courses you emphasize international perspectives or content.
- Since you started teaching, the number of international students has increased.
- Currently, most of your graduate students are international.

We find that all internationalization practices included in the survey, i.e., all independent variables have an impact on the dependent variables. The respective variables have 38.5% explanatory power for the dependent variables (see Table 2). The existence of a clear institutional internationalization strategy followed by the encouragement of recruitment of faculty members from abroad have the greatest impact on the three aspects of the internationalization of the curriculum. This data *confirms our hypothesis* that having an institutional strategy on internationalization increases likelihood for academics' also emphasising international contents and perspectives in courses. Interestingly, we find that opportunities/funding for visiting international students has a negative impact on the dependent variable. This could be explained as institutional internationalization strategies that prioritize study abroad programs, including programs for incoming international visiting students, tend to pursue internationalization of the curriculum to a lesser extent.

Table 2. Multiple regression analysis with dependent variables: C4\_5 “In your courses you emphasize international perspectives or content”; C4\_9 “Since you started teaching, the number of international students has increased” and C4\_10 “Currently, most of your graduate students are international”

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#### Model summary

Model	R	R square	Adjusted R square	Std. error of the estimate
9	0.621 <sup>a</sup>	0.385	0.385	0.609

a. Predictors: (Constant), F6\_1, F6\_6, F6\_3, C4\_9, C4\_5, F6\_2, C4\_10, F6\_5, F6\_4

The respective variables have 38.5% explanatory power for the dependent variables

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#### ANOVA<sup>a</sup>

	Model	Sum of squares	df	Mean square	F	Sig.
9	Regression	6045.048	9	671.672	1811.171	<.001 <sup>j</sup>
	Residual	9641.719	25999	0.371		
	Total	15686.767	26008			

a. Dependent Variable: Outcome of internationalization

j. Predictors: (Constant), F6\_1, F6\_6, F6\_3, C4\_9, C4\_5, F6\_2, C4\_10, F6\_5, F6\_4

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Coefficients<sup>a</sup>

Model		Unstandardized Coefficients		Standardized Coefficients	T	Sig.	Collinearity statistics	
		B	Std. Error	$\beta$			Tolerance	VIF
9	(Constant)	1.212	0.020		59.221	<.001		
	F6_1	0.209	0.004	0.311	48.215	<.001	0.570	1.756
	F6_6	0.113	0.004	0.180	28.984	<.001	0.616	1.624
	F6_3	0.084	0.005	0.131	18.561	<.001	0.471	2.122
	C4_9	0.044	0.003	0.083	16.049	<.001	0.893	1.120
	C4_5	0.068	0.004	0.091	18.502	<.001	0.974	1.026
	F6_2	0.049	0.005	0.067	10.345	<.001	0.562	1.779
	C4_10	0.030	0.003	0.049	9.649	<.001	0.926	1.080
	F6_5	0.038	0.005	0.057	7.067	<.001	0.365	2.740
	F6_4	-0.014	0.005	-0.020	-2.670	0.008	0.405	2.468

a. Dependent Variable: Outcome of internationalization

## Conclusion

Higher education institutions worldwide have different preferences for international dimensions in teaching and learning, and have different rationales for and expectations of the outcomes of internationalization. The national and institutional approaches might be driven by aspirations to recruit foreign (fee-paying) students or to signal quality in international rankings or to equip their domestic students with international competencies or a combination of these or something else. While the rationales for the outcomes of internationalization are not mutually exclusive, there exist differences across institutions and countries and these rationales can change over time (de Wit, 2013, p. 17). Furthermore, the institutional approaches to internationalization vary from the focus on student and staff mobility within the framework of the commercialisation and the increased cross-border delivery of higher education, to the internationalisation of the curriculum as part of developing students' international competences at home (de Wit, 2013, p. 14).

The different cultural, political or economic rationales that countries have adopted to internationalize higher education are reflected in these countries' approaches to internationalization at home, internationalization of the curriculum and specifically in international dimensions in teaching and learning. The study presented in this chapter employs survey data from the academic staff teaching in the institutions across the globe to capture, compare and analyse their reported behaviours on internationalization of curriculum, specifically on emphasising international perspectives or contents in course teaching.

The measures we employ - reported inclusion of international perspectives and contents in course teaching, presence of international graduate students and increase in international students - are indeed "crude proxies" for evaluating internationalization at home since they do not necessarily guarantee that students will gain international, intercultural and global competencies (Knight 2011). However, analysing these measures, especially from the perspective of the academic staff as key agents of internationalization, offers important insights into internationalization practices in teaching and learning in an international comparative perspective.

Furthermore, academic staff's observations of institutional support for internationalization adds an important perspective on whether academics' home institutions actually prioritize internationalization and what type of activities related to internationalization of teaching they support. It is the combination of these independent variables that have possible effects on internationalization of the curriculum. The international data set enables us to discern the patterns of reported and observed internationalization outcomes across different countries and determine how they relate to the institutionalization practices. In sum, the global comparison of academic staff's reported behaviours and observations enables us to cluster the APIKS countries according to their current practices and institutional support for including international dimensions in teaching.

In our research, we find notable differences between countries, but also a compelling account of some countries, such as Kazakhstan, which are purposefully pursuing internationalization of the curriculum in every respect. Most countries, however, focus only on some aspects of internationalization of curriculum but not the others. While in some countries the introduction of international contents and perspectives has been prioritized, in other countries, institutions have put emphasis on increasing the number of international undergraduate students or on attracting international graduate students. Therefore, the behavior of internationalization varies from country to country and between regions. At the global level there are shared trends. Countries in the Americas show a higher index in emphasizing international perspectives or contents in teaching. Countries in Europe show high observations by academics in the increase in the number of international students. Countries in Asia show high observation among academics that their graduate students are international.

Our findings also point to unequivocal positive correlation between an institution having a clear internationalization strategy and pursuing internationalization of the curriculum. Thus, having a clear internationalization strategy is necessary, however, not a sufficient condition for internationalization of the curriculum to occur. We also found a positive correlation between institutions encouraging the recruitment of foreign faculty and internationalization of the curriculum. Thus, in countries where institutions encourage recruitment of international academics, academics also observe an increase in international students and more international graduate students, and they are more likely to emphasize international perspectives and contents in teaching.

Globally, the internationalization of the curriculum and the different behaviours by the academics that demonstrate it, are presented mathematically in a “fractal” way, since the same efforts are replicated but on a different scale, at the same time that they present an irregular and differentiated behavior between countries and world regions.

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