Appendix 1: Summary of findings and avenues for future research

4.1. Fundamental value: **ACADEMIC FREEDOM**

7.1.	4.1. I dildallicital value. ACADEMIC I REEDOM					For future/more research		
Indicator/tool/measuring exercise/study		Type of tool/ measurement	Indirect or direct assessment/ measurement	Does if measure this value as defined in the EHEA?	Can it be used in the EHEA effort to monitor fundamental values	If yes, how?		
1.	Academic Freedom Index (Varieties of Democracy -V- Dem Dataset)	Composite Index	Direct	Partially	Yes	Direct applied/technical value. Modifications needed if AFi is to measure AF as defined in EHEA		
2.	Changing Academic profession (CAP)	Survey	Indirect	No	Yes	Heuristic value. Provides insights about ways of measuring academic freedom		
3.	Freedom in the World (Freedom House)	Report with numerical ratings and descriptive text	Direct	Partially	Yes	Mainly heuristic value. Provides insights about ways of measuring academic freedom		
4.	Criterion referenced approach	Numerical assessment of (legal) compliance levels	Direct	Partially	Yes	Potential technical value as an applicable tool as well heuristic value. One off initiative but can be re-used		
5.	Measurement of the Right to Academic Freedom	"Multidimensional picture" re legal perspective	Direct (potentially)	Partially	Yes	Heuristic. Insight about the multidimensional nature of AF and relationship with other values.		
6.	Assessment of quality of academic freedom protection (UK)	Survey re. self- assessment of institutional <i>de jure</i> and <i>de facto</i> protection of AF	Direct	Very partially	Yes	Heuristic. Insights about comparative measurements at AF at the intuitional level		
7.	Survey regarding academic freedom in Germany	Survey	Direct	Partially	No	(It is a more limited version of Afi)		
8.	SAR academic self-censorship survey	Survey regarding extreme restrictions	Indirect (inventory of	Very partially	Yes	Heuristic. Insights regarding inventorying extreme infringements of academic freedom		

			incidents rather			
			than			
			measurement)			
9.	SAR Academic Freedom	Monitoring violations of	Direct	Partial	Yes	Defines types of conduct that represent violations
	Monitoring Project	AF and/or human rights				of AF and human rights in HE
		of HE communities'				
		members				
10.	Magna Charta Universitatum	Questionnaire for	Indirect	Quite largely	Yes	Heuristic. Insights about how to understand AF
	application form	institutions applying for				and operationalise its measurements
		MCU membership				

4.2. Fundamental value: INTEGRITY

			For future/more research				
Indicator/tool/measuring exercise/study		Type of tool/ measurement	Indirect or direct assessment	Does if measure this value as defined in the EHEA?	Can it be used in the EHEA effort to monitor fundamental values	If yes, how?	
1.	Magna Charta Universitatum application form	Questionnaire for institutions applying for MCU membership	Indirect	Not defined by EHEA (no draft	Minimally	Provide some indication about how to understand integrity	
2.	"Core commitments: Educating Students for Personal and Social responsibility" Initiative	Survey (USA)	Indirect	available either)		Potentially	Provides indirect and broad insights about how to understand integrity, from the perspective of students, academic and administrative staff
3.	Five core elements of Exemplary Academic Integrity Policy	System-level policy (Australia)	Indirect; rather not even measurement		Potentially	Provide insight about how to design and implement integrity policy, thus potentially helping to operationalize integrity	

4.3. Fundamental value: INSITUTIONAL AUTONOMY

					For future/more research		
Indicator/tool/measuring exercise/study		Type of tool/measurement	Indirect or direct assessment	Does if measure this value as defined in the EHEA draft?	Can it be used in the EHEA effort to monitor fundamental values	If yes, how?	
1.	Autonomy scorecard	Multidimensional scoring of systems	Direct	Yes	Yes	Technical tool, immediately applicable	
2.	Academic Freedom Index (Varieties of Democracy -V-Dem Dataset)	Index	Direct	Partially; different definition (autonomy is part of academic freedom)	Potentially	Can help refine the Autonomy Scorecard and better articulate the relationship with AF?	
3.	Freedom in the World (Freedom House)	Report with numerical ratings and descriptive text	Direct	Partially	Yes	Adds a little to the EUA scorecard (political pressure and participation)	
4.	Criterion referenced approach	Numerical assessment of (legal) compliance levels	Direct	Partially	Minimal	May not add to the Autonomy Scorecard	
5.	Magna Charta Universitatum application form	Questionnaire for institutions applying for MCU membership; not numerical	Direct	Partially	Yes	Heuristic. Insights about how to understand IA and operationalise its measurements. May not add much to the Autonomy Scorecard	

6.	Systems approach for better education results in tertiary education (SABER-TE)	System level, comparative benchmarking	Direct	Largely	Yes	Draws attention to at least two dimensions not addressed by the Autonomy Scorecard: overall "governance autonomy" and to the private sector in higher education
7.	Operationalisation of university autonomy in Russia	Theoretical model for potentially developing and adapted measurement tool	Direct (if actual)	Partially	No	A narrower version of the Autonomy Scorecard model
8.	School autonomy, leadership and learning	(New) Research framework	Not a tool yet	Largely, if transformed into a tool;	Yes	Proposes a slightly different definition and operationalisation of IA.
9.	Indicators of university autonomy according to stakeholders' interests	New conceptualisation to help identify indicators for IA	Not a tool yet	Largely, if transformed into a tool	Yes	Draws attention to groups of stakeholders on the basis of which to identify indicators. May complete in this regard that the Autonomy Scorecard
10.	Procedural university autonomy	(Older) model for identifying indicators	Not a tool	Very partially	No	Old and very narrow model
11.	Campus autonomy	Surveys (US)	Direct	Partially	Yes	Provide insight regarding measures of academic and financial flexibility; relationship to measures of quality and institutional success.

4.4. Fundamental value: PARTICIPATION OF STUDENTS AND STAFF IN GOVERNANCE

For future/more research If yes, how? Indicator/tool/measuring exercise/study Type of Indirect or Does if Can it be used tool/measurement direct measure this in the EHEA effort to value as assessment defined in the monitor EHEA draft? fundamental values Survey (Netherlands) Yes Proposes a model Ex-post evaluation of university Yes 1 Direct regarding how to governance operationalize participation and indicators to measure it Changing academic profession (CAP) Indirect Partially Potentially Heuristic. Provides insight Survey 2. (thematically about how to understand and in terms staff participation. of constituencies - does not include students) Model of student participation in Comparative study Potentially Heuristic. Provides insight Direct Partially (two universities in (thematically about how to understand university governance (I) and in terms Nepal) student participation. of constituencies students only)

4.	Model of student participation in university governance (II)	Case study (Portugal)	Direct	Partially (thematically and in terms of constituencies – students only)	Potentially	Heuristic. Provides insight about how to understand student participation.
5.	Magna Charta Universitatum application form	Questionnaire for institutions applying for MCU membership; not numerical	Direct	Partially	Yes	Heuristic. Insights about balance between student and staff participation
6.	Freedom in the World (Freedom House)	Report with numerical ratings and descriptive text	Indirect	Partially	Yes	Mainly heuristic value. Provides insights about government support with or interference in student participation
7.	Criterion referenced approach	Numerical assessment of (legal) compliance levels	Indirect	Partially	Minimal	Mainly heuristic value. Provides insights about the understanding and operationalisation of participation as selfgovernance
8.	Assessment of quality of academic freedom protection (UK)	Survey re. self- assessment of institutional <i>de jure</i> and <i>de facto</i> protection of AF	Indirect	Partially	Minimal	Mainly heuristic value. Provides insights about the understanding and operationalisation of participation as selfgovernance

4.4. Fundamental value: PUBLIC RESPONSIBILITY FOR HIGHER EDUCATION

For future/more research Indicator/tool/measuring Does if If yes, how? Type of Indirect or direct Can it be exercise/study tool/measurement used in the measure this assessment value as EHEA effort defined in to monitor *fundamental* the EHEA draft? values Mainly heuristic. Provides Toolkit for collecting and Toolkit for collecting Indirect Partially Yes insights about the understanding analysing data on attacks on and analysing data and regarding attacks on education operationalisation/measurement education public responsibility for higher education Heuristic. A rare, although Ranking Possibly **University Impact Ranking** Verv Indirect limited attempt at partially. operationalising and measuring Implies that public reasonability for higher public education responsibly is about policies to guarantee AF Criterion referenced approach Numerical assessment Indirect Very partially No of constitutional protection of academic freedom Systems approach for better Partially Possibly Heuristic. Provides insight System-level Indirect benchmarking education results in tertiary Very partially about measurement education (SABER-TE) methodology and benchmarking with regard to С

4.5. Fundamental value: PUBLIC RESPONSIBILITY OF HIGHER EDUCATION

For future research If yes, how? Indicator/tool/measuring exercise/study Indirect or direct Does if Can it be Type of tool/measurement measure this used in the assessment value as EHEA effort defined in the to monitor EHEA draft? fundamental values Systems approach for better System-level Very partially Possibly Heuristic. Provides insight Indirect education results in tertiary benchmarking about measurement methodology and education (SABER-TE) benchmarking with regard to public responsibility for and of ΗE "Core commitments: Educating Indirect Partially Good insight about Inter-campus Yes operationalising public Students for Personal and Social survey (USA) responsibility for and of HE responsibility" Initiative Measuring social accountability of Thematic literature Rather direct if not Excellent insight about Largely Yes analysis (social explicit, although understanding, universities accountability in. not a tool proper operationalising and medical education) measuring public responsibility for and of HE Evaluation model of societal and Framework for Model, not a tool. Partially but, Yes Excellent insight about economic engagement of assessing societal Quite direct in that, very understanding, and economic precisely operationalising and universities otherwise engagement of measuring public universities; and responsibility of HE for outcome measurements