
PREFILLING U-MULTIRANK DATA FOR THE NETHERLANDS

U-Multirank is a multidimensional and inclusive ranking. To increase the coverage and therefore, the representativeness of the data, we use publicly available data sources to prefill the values for institutions. Publicly available sources will also be used to cross-reference the information retrieved from other sources. This document provides an overview of the sources found and reviewed, their use for cross-referencing and their use to prefill values for Dutch institutions included in U-Multirank and mapping choices made.

While we try to consult national experts to validate the data as much as possible, we recognise that available data and definitions can change over time and better sources emerge. Thus, we welcome your feedback in case you think that the approach used is not representative of your institution or country, or you are aware of alternative or better sources.

The key sources used for the Netherlands are:

- **DUO Onderwijsdata:** data on students, new entrants, graduates, revenues & expenditures
- **NUFFIC:** data on foreign students
- **VSNU:** academic staff in universities
- **Vereniging Hogescholen:** academic staff in universities of applied sciences
- **VSNU KUOZ:** academic and professional publications
- **ETER:** data on students, academics, internationalization, revenues and expenditures
- The **World Bank:** exchange rate and PPP for revenue and expense data

NATIONAL SOURCES

Measurement level: Institutional level. Data aggregated at a higher level is not suitable for U-Multirank.

DUO (eng: the Ministry of Education – education data). DUO is a Dutch Ministry of Education (also called the Education Executive Agency). It collects data about funded education in the Netherlands and makes a large amount of collected data available online. Data are intended for municipalities, schools, research agencies, newspapers, software suppliers and other parties interested in the education field¹.

Data obtained:

- Student data (e.g. number of students per program, new students, graduates by level of program)
- Revenue data (e.g. total revenues, amount per category, total expenditures)

NUFFIC (eng: the Dutch organisation for internationalisation in education) is a knowledge centre and public service provider covering internationalization of education across the entire education sector. From primary and secondary education to vocational and higher education and research, NUFFIC carries out its research together with commissioning parties such as the Ministry of Education, Culture and Science, the Ministry of Foreign Affairs and the European Commission².

Data obtained:

- Foreign degree-seeking students (e.g. number of international students per program level)

VSNU (eng: the Association of Universities) represents 14 Dutch research universities. The VSNU office signals, schedules and supports the Steering Groups and the Board of the association. The VSNU is also an employers' association³. In 2022, VSNU got a new name: UvN: Universiteiten van Nederland.

- Academic staff data for research universities (e.g. academic staff in headcount and FTEs)

Vereniging Hogescholen (eng: the Association of Universities of applied sciences) represents education and research at 36 universities of applied sciences in the Netherlands. Together with its members it influences political decision-making and is a discussion partner for social organizations and governments⁴.

- Academic staff data for research universities of applied sciences (e.g. academic staff in headcount and FTEs)

¹ DUO. (2019). Onderwijsdata. Retrieved from DUO: https://duo.nl/open_onderwijsdata/

² NUFFIC. (2019). Wie zijn wij? Retrieved from: <https://www.nuffic.nl/onderwerpen/wie-zijn-wij/>

³ VSNU. (2019). Over VSNU. Retrieved from: https://vsnu.nl/nl_NL/vsnu.html

⁴ Vereniging Hogescholen. (2019). Retrieved from: <https://www.vereniginghogescholen.nl/over-ons>

EUROPEAN SOURCES

Measurement level: Institutional level. Data aggregated at a higher level is not suitable for U-Multirank.

ETER (the European Tertiary Education Register) is a database collecting information on Higher Education Institutions (HEIs) in Europe. It contains data on educational activities, staff, finances and research activities as well as basic characteristics and geographical position. The main specificity of ETER is providing data at the level of individual higher education institutions, complementary to educational statistics at the country and regional level provided by EUROSTAT⁵.

Data obtained*:

- Student data (e.g. number of students per program and gender, graduates by field of specialisation, student mobility)
- Data on academic staff (e.g. academic staff employed(FTE/HC; gender; foreign staff), doctoral students)
- Revenue data (e.g. amount per category, core, third-party funding)
- Expenditure data (e.g. personnel expenditures, non-personnel, capital expenditures)

*Note: Data is used to validate corresponding fields in the national database, except the expenditure data, which was not available in the national database.

INTERNATIONAL SOURCES

Measurement level: Institutional level except for exchange rate and PPP, which is required on a country level.

(the) **World Bank** provides financial and technical assistance to developing countries. At the World Bank, the Development Data Group coordinates statistical and data work and maintains a number of macro, financial and sector databases. The World Bank's data bank contains a large array of publicly available data⁶, including exchange rate and PPP data.

Data obtained:

- Data on exchange rates and PPP rates to converts and compare revenue and expense data.

⁵ ETER. (2019). About ETER. Retrieved from ETER Project: <https://www.eter-project.com/#/info/about>

⁶ World Bank. (2019). The World Bank Data. Retrieved from About us: <https://data.worldbank.org/about>

APPENDIX

U-Multirank Question	Data element	Mapped element
Q1: Name	Legal name of the institution	
	English name to appear in U-Multirank	
Q2: General characteristics	Type of institution:	
	Public/ private character:	
	Foundation year of current institution:	
	Availability of an institutional strategic plan for online learning	
Q3: Contact	Contact person first name:	
	Contact person last name:	
	Position /Unit:	
	Phone:	
	E-mail	
Q4: Programs	Short degree	
	Short degree online	
	Bachelor	
	Bachelor online	

	Bachelor part-time	
	Master	
	Master online	
	Master Part-time	
	Long first degree	
	Doctorate/PhD	
	Doctorate/PhD online	
Q5: Students	Students enrolled	<p> <i>sector</i> Universities of applied sciences [Hogescholen] <i>source:</i> DUO Onderwijsdata, Open databestanden, Hoger onderwijs, Ingeschrevenen, hbo <i>table:</i> 01b. hbo ingeschrevenen op domein type hoger onderwijs binnen soort hoger onderwijs <i>xlsx sheet:</i> 01b.Ingeschrevenen hbo domein hbo 2020.csv <i>variable:</i> <i>function:</i> 2018=2018 Man+2018 vrouw 2019=2019 Man+2019 vrouw 2020=2020 Man+2020 vrouw <i>link:</i> https://duo.nl/open_onderwijsdata/databestanden/ho/ingeschreven/hbo-ingeschr/ingeschrevenen-hbo1b.jsp </p> <p> <i>sector</i> Universities [Universiteiten] <i>source:</i> DUO Onderwijsdata, Open databestanden, Hoger onderwijs, Ingeschrevenen, hbo <i>table:</i> 01b. wo ingeschrevenen op domein type hoger onderwijs binnen soort hoger onderwijs <i>xlsx sheet:</i> 01b.Ingeschrevenen wo domein wo 2018.csv <i>variable:</i> <i>function:</i> 2018=Man2018+Vrouw2018 2019=Man2019+Vrouw2019 2020=Man2020+Vrouw2020 <i>link:</i> https://duo.nl/open_onderwijsdata/databestanden/ho/ingeschreven/wo-ingeschr/ingeschrevenen-wo1b.jsp </p>

	Female students enrolled	<p> <i>sector</i> Universities of applied sciences [Hogescholen] <i>source:</i> DUO Onderwijsdata, Open databestanden, Hoger onderwijs, Ingeschrevenen, hbo <i>table:</i> 01b. hbo ingeschrevenen op domein type hoger onderwijs binnen soort hoger onderwijs <i>xlsx sheet:</i> 01b.Ingeschrevenen hbo domein hbo 2020.csv <i>variable:</i> <i>function:</i> 2018=Vrouw2018 2019=Vrouw2019 2020=Vrouw2020 <i>link:</i> https://duo.nl/open_onderwijsdata/databestanden/ho/ingeschreven/hbo-ingeschr/ingeschrevenen-hbo1.jsp </p> <p> <i>sector</i> Universities [Universiteiten] <i>source:</i> DUO Onderwijsdata, Open databestanden, Hoger onderwijs, Ingeschrevenen, hbo <i>table:</i> 01b. wo ingeschrevenen op domein type hoger onderwijs binnen soort hoger onderwijs <i>xlsx sheet:</i> 01b.Ingeschrevenen wo domein wo 2020.csv <i>variable:</i> <i>function:</i> 2018=Vrouw2018 2019=Vrouw2019 2020=Vrouw2020 <i>link:</i> https://duo.nl/open_onderwijsdata/databestanden/ho/ingeschreven/wo-ingeschr/ingeschrevenen-wo1b.jsp </p>
Q6: International students	Foreign degree seeking students	<p> <i>sector</i> Universities of applied sciences [Hogescholen] & Universities [Universiteiten] <i>source:</i> NUFFIC <i>table:</i> <i>xlsx sheet:</i> </p>

		<i>variable:</i> <i>function:</i> Number of international degree seeking students (bachelor + master) <i>link:</i> https://www.nuffic.nl/en/subjects/regions-and-universities/
	Incoming students in international exchange programmes	
	Students sent out in international exchange programs	
	Students in international joint degree programmes	
Q7: New entrants	New entrants enrolled in 1st year bachelor programmes	<i>sector:</i> Universities of applied sciences [Hogescholen] <i>source:</i> DUO Onderwijsdata, Open databestanden, Hoger onderwijs, Ingeschrevenen, hbo <i>table:</i> Table: 03b. Aantal eerstejaars ingeschrevenen hbo op domein type hoger onderwijs binnen soort hoger onderwijs <i>xlsx sheet:</i> 03b.Eerstejaars Ingeschrevenen hbo domein hbo 2020.csv <i>variable:</i> <i>function:</i> Bachelor: Type hoger onderwijs=bachelor; 2015=Man2015+Vrouw2015 2016=Man2016+Vrouw2016 2017=Man2017+Vrouw2017 2018=Man2018+Vrouw2018 2019=Man2019+Vrouw2019 2020=Man2020+Vrouw2020 <i>link:</i> https://duo.nl/open_onderwijsdata/databestanden/ho/ingeschreven/hbo-ingeschr/ingeschrevenen-hbo3b.jsp

		<p>For the hogescholen that provide university level bachelor programmes as well, the data in ba_ii programmes refer to the new entrants in those programmes. Data are retrieved from the university level datafile (see below).</p> <p><i>sector</i> Universities [Universiteiten]</p> <p><i>source:</i> DUO Onderwijsdata, Open databestanden, Hoger onderwijs, Ingeschrevenen, hbo</p> <p><i>table:</i> Table: 03b. Aantal eerstejaars ingeschrevenen wo op domein type hoger onderwijs binnen soort hoger onderwijs</p> <p><i>xlsx sheet:</i> 03b.Eerstejaars Ingeschrevenen wo domein wo 2020.csv</p> <p><i>variable:</i></p> <p><i>function:</i> Bachelor: Type hoger onderwijs=bachelor; 2018=Man2018+Vrouw2018 2019=Man2019+Vrouw2019 2020=Man2020+Vrouw2020</p> <p><i>link:</i> https://duo.nl/open_onderwijsdata/databestanden/ho/ingeschreven/wo-ingeschr/ingeschrevenen-wo3b.jsp</p>
	Transfer into bachelor 2nd year	
	Transfer into bachelor 3rd year	
	New entrants enrolled in 1st year bachelor parttime programmes	
	New entrants enrolled in 1st year master programmes	<p><i>sector</i> Universities of applied sciences [Hogescholen]</p> <p><i>source:</i> DUO Onderwijsdata, Open databestanden, Hoger onderwijs, Ingeschrevenen, hbo</p>

		<p>table: Table: 03b. Aantal eerstejaars ingeschrevenen hbo op domein type hoger onderwijs binnen soort hoger onderwijs</p> <p>xlsx sheet: 03b.Eerstejaars Ingeschrevenen hbo domein hbo 2020.csv</p> <p>variable:</p> <p>function: Master: Type hoger onderwijs=master; 2015=Man2015+Vrouw2015 2016=Man2016+Vrouw2016 2017=Man2017+Vrouw2017 2018=Man2018+Vrouw2018 2019=Man2019+Vrouw2019 2020=Man2020+Vrouw2020</p> <p>link: https://duo.nl/open_onderwijsdata/databestanden/ho/ingeschreven/hbo-ingeschr/ingeschrevenen-hbo3b.jsp</p> <p>For the hogescholen that provide university level master programmes as well, the data in ma_ii programmes refer to the new entrants in those programmes. Data are retrieved from the university level datafile (see below).</p> <p>sector Universities [Universiteiten]</p> <p>source: DUO Onderwijsdata, Open databestanden, Hoger onderwijs, Ingeschrevenen, hbo</p> <p>table: Table: 03b. Aantal eerstejaars ingeschrevenen wo op domein type hoger onderwijs binnen soort hoger onderwijs</p> <p>xlsx sheet: 03b.Eerstejaars Ingeschrevenen wo domein wo 2020.csv</p> <p>variable:</p> <p>function: Master: Type hoger onderwijs=master; 2015=Man2015+Vrouw2015 2016=Man2016+Vrouw2016 2017=Man2017+Vrouw2017</p>
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		2018=Man2018+Vrouw2018 2019=Man2019+Vrouw2019 2020=Man2020+Vrouw2020 <i>link:</i> https://duo.nl/open_onderwijsdata/databestanden/ho/ingeschreven/hbo-ingeschr/ingeschrevenen-hbo3b.jsp
	Transfer into master 2nd year	
	New entrants enrolled in 1st year master parttime programmes	
	Percentage of new entrants in bachelor programmes coming from the institution's region	
	Region used	
Q8: Internships	Students in interships	
	Students in interships in the institution's region	
	Students in interships abroad	

Q9: Graduates	Short degree	<p> <i>sector</i> Universities of applied sciences [Hogescholen] <i>source:</i> DUO Onderwijsdata, Open databestanden, Hoger onderwijs, Ingeschrevenen, hbo <i>table:</i> Table: 05. Aantal hbo gediplomeerden <i>xlsx sheet:</i> 05.gediplomeerden hbo 2020.csv <i>variable:</i> <i>function:</i> Short degree: soort diploma = hbo associate degree; 2018=2018 Man+2018 vrouw 2019=2019 Man+2019 vrouw </p> <p> <i>link:</i> https://duo.nl/open_onderwijsdata/databestanden/ho/ingeschreven/hbo-ingeschr/ingeschrevenen-hbo5.jsp </p>
	Bachelor	<p> <i>sector</i> Universities of applied sciences [Hogescholen] <i>source:</i> DUO Onderwijsdata, Open databestanden, Hoger onderwijs, Ingeschrevenen, hbo <i>table:</i> Table: 05. Aantal hbo gediplomeerden <i>xlsx sheet:</i> 05.gediplomeerden hbo 2020.csv <i>variable:</i> <i>function:</i> Bachelor: soort diploma= hbo bachelor; 2018=2018 Man+2018 vrouw 2019=2019 Man+2019 vrouw </p> <p> <i>link:</i> https://duo.nl/open_onderwijsdata/databestanden/ho/ingeschreven/hbo-ingeschr/ingeschrevenen-hbo5.jsp </p>

		<p>For the hogescholen that provide university level bachelor programmes as well, the data in ba_ii programmes refer to the graduates in those programmes. Data are retrieved from the university level datafile (see below).</p> <p><i>sector</i> Universities [Universiteiten] <i>source:</i> DUO Onderwijsdata, Open databestanden, Hoger onderwijs, Ingeschrevenen, hbo <i>table:</i> Table: 05. Aantal wo gediplomeerden <i>xlsx sheet:</i> 05.gediplomeerden wo 2020.csv <i>variable:</i> <i>function:</i> Bachelor: soort diploma= wo bachelor; 2018=2018 Man+2018 vrouw 2019=2019 Man+2019 vrouw</p> <p><i>link:</i> https://duo.nl/open_onderwijsdata/databestanden/ho/ingeschreven/wo-ingeschr/ingeschrevenen-wo5.jsp</p>
	Bachelor part-time	
	Master	<p><i>sector</i> Universities of applied sciences [Hogescholen] <i>source:</i> DUO Onderwijsdata, Open databestanden, Hoger onderwijs, Ingeschrevenen, hbo <i>table:</i> Table: 05. Aantal hbo gediplomeerden <i>xlsx sheet:</i> 05.gediplomeerden hbo 2020.csv <i>variable:</i> <i>function:</i> Master: soort diploma=hbo master; 2018=2018 Man+2018 vrouw 2019=2019 Man+2019 vrouw</p> <p><i>link:</i> https://duo.nl/open_onderwijsdata/databestanden/ho/ingeschreven/hbo-ingeschr/ingeschrevenen-hbo5.jsp</p>

		<p>For the hogescholen that provide university level master programmes as well, the data in ma_ii programmes refer to the graduates in those programmes. Data are retrieved from the university level datafile (see below).</p> <p><i>sector</i> Universities [Universiteiten] <i>source:</i> DUO Onderwijsdata, Open databestanden, Hoger onderwijs, Ingeschrevenen, hbo <i>table:</i> Table: 05. Aantal wo gediplomeerden <i>xlsx sheet:</i> 05.gediplomeerden wo 2019.csv <i>variable:</i> <i>function:</i> Master: soort diploma=wo master; 2018=2018 Man+2018 vrouw 2019=2019 Man+2019 vrouw</p> <p><i>link:</i> https://duo.nl/open_onderwijsdata/databestanden/ho/ingeschreven/wo-ingeschr/ingeschrevenen-wo5.jsp</p>
	Master Part-time	
	Long first degree	
	Doctorate/Phd	<p><i>sector</i> Universities [Universiteiten] <i>source:</i> VSNU KUOZ; Onderzoeksinzet en –output <i>table:</i> Table D2: aantal dissertaties 2000-2019 per universiteit <i>xlsx sheet:</i> Onderzoeksinzet_en_output_20119 <i>variable:</i> 2018=2018 2019=2019 <i>function:</i> Doctorate degrees=dissertaties <i>link:</i> https://www.vsnu.nl/f_c_onderzoeksoutput.html</p>

	Foreign doctorates	
	Female doctorates	
Q10: Graduates by field	Education	
	Humanities and arts	
	Social sciences	
	Business and law	
	Natural science, mathematics and statistics	
	Information and communication technologies	
	Engineering, manufacturing and construction	
	Agriculture forestry, fisheries and veterinary	
	Health and social welfare	
	Services	
Q11: Graduates on time	Bachelor	
	Bachelor part-time	
	Master	
	Master Part-time	
	Long first degree	

Q12: Graduate unemployment	Bachelor	
	Master	
	Long first degree	
	Reference period used	
Q13: Graduates in region	Bachelor	
	Master	
	Long first degree	
	Region used	
Q14: Academic staff	Academic staff in FTEs	<i>sector</i> Universities of applied sciences [Hogescholen] <i>source:</i> Website Vereniging Hogescholen <i>table:</i> Table Personeel <i>xlsx sheet:</i> <i>variable:</i> <i>function:</i> Fte academic staff=docerend personeel in fte <i>link:</i> https://www.vereniginghogescholen.nl/kennisbank/feiten-en-cijfers
		<i>sector</i> Universities [Universiteiten] <i>source:</i> Website VSNU <i>table:</i> Table Wetenschappelijk Onderwijs Personeelsinformatie (WOPI), Samenstelling universitair personeel per 31 december 2020; Tabel 8: instellingsaantallen per functiecategorien in fte <i>xlsx sheet:</i> <i>variable:</i> <i>function:</i> Fte academic staff=Total-OBP in fte <i>link:</i> https://www.vsnu.nl/f_c_personeel_downloads.html

Academic staff head-count		<p><i>sector</i> Universities of applied sciences [Hogescholen] <i>source:</i> Website Vereniging Hogescholen <i>table:</i> Table Personeel <i>xlsx sheet:</i> <i>variable:</i> <i>function:</i> headcount academic staff=docerende personeel in personen <i>link:</i> https://www.vereniginghogescholen.nl/kennisbank/feiten-en-cijfers</p> <p>Data on hc academic staff universities is taken from NUFFIC website</p>
academic staff with foreign nationality		

	female academic staff	<p><i>sector</i> Universities of applied sciences [Hogescholen]</p> <p><i>source:</i> Website Vereniging Hogescholen</p> <p><i>table:</i> Table Personeel</p> <p><i>xlsx sheet:</i></p> <p><i>variable:</i></p> <p><i>function:</i> headcount female academic staff=docerend personeel in personen, vrouwen</p> <p><i>link:</i> https://www.vereniginghogescholen.nl/kennisbank/feiten-en-cijfers</p> <p><i>sector</i> Universities [Universiteiten]</p> <p><i>source:</i> Website VSNU</p> <p><i>table:</i> Table Wetenschappelijk Onderwijs Personeelsinformatie (WOPI), Samenstelling universitair personeel per 31 december 2020; Tabel 8: instellingsaantallen per functiecategorieën in fte</p> <p><i>xlsx sheet:</i></p> <p><i>variable:</i></p> <p><i>function:</i> headcount female academic staff=not available. Instead fte: total vrouw-OBP vrouw headcount foreign academic staff: not available doctorate candidates counted as academic staff=PROM in fte female doctorate candidates counted as staff fte=PROM in fte, vrouw</p> <p><i>link:</i> https://www.vsnu.nl/f_c_personeel_downloads.html</p>
	Status of doctoral candidates	

	Doctoral candidates counted as academic staff in FTEs	<p><i>sector:</i> Universities [Universiteiten]</p> <p><i>source:</i> Website VSNU</p> <p><i>table:</i> Table Wetenschappelijk Onderwijs Personeelsinformatie (WOPI), Samenstelling universitair personeel per 31 december 2020; Tabel 8: instellingsaantallen per functiecategorieën in fte</p> <p><i>xlsx sheet:</i></p> <p><i>variable:</i></p> <p><i>function:</i> doctorate candidates counted as academic staff=PROM in fte (fte as headcount data are not available)</p> <p><i>link:</i> https://www.vsnunl/f_c_personeel_downloads.html</p>
	Doctoral candidates counted as academic staff in headcount	
	Doctoral candidates with foreign nationality	
	Female doctoral candidates	<p><i>sector:</i> Universities [Universiteiten]</p> <p><i>source:</i> Website VSNU</p> <p><i>table:</i> Table Wetenschappelijk Onderwijs Personeelsinformatie (WOPI), Samenstelling universitair personeel per 31 december 2020; Tabel 8: instellingsaantallen per functiecategorieën in fte</p> <p><i>xlsx sheet:</i></p> <p><i>variable:</i></p> <p><i>function:</i> female doctorate candidates counted as staff fte=PROM in fte, vrouw (fte as headcount data are not available)</p> <p><i>link:</i> https://www.vsnunl/f_c_personeel_downloads.html</p>
Q15: Post-docs	Post docs (head-count)	
Q16: Currency and Unit	Currency	EUR

Q17: Revenues	Unit	
	Total revenues	<p><i>sector</i> Universities of applied sciences [Hogescholen] & Universities [Universiteiten]</p> <p><i>source:</i> DUO Onderwijsdata, financiën, Financiële verantwoording (XBRL)</p> <p><i>table:</i> Table: 02 Staat van baten en lasten 2016-2020</p> <p><i>xlsx sheet:</i></p> <p><i>variable:</i></p> <p><i>function:</i> Total revenues=Totaal baten</p> <p><i>link:</i> https://onderwijsdata.duo.nl/dataset/02-staat-van-baten-en-lasten</p>
	Core budget	<p><i>sector</i> Universities of applied sciences [Hogescholen] & Universities [Universiteiten]</p> <p><i>source:</i> DUO Onderwijsdata, financiën, Financiële verantwoording (XBRL)</p> <p><i>table:</i> Table: 02 Staat van baten en lasten 2016-2020</p> <p><i>xlsx sheet:</i></p> <p><i>variable:</i></p> <p><i>function:</i> Revenues core funding=Rijksbijdrage</p> <p><i>link:</i> https://onderwijsdata.duo.nl/dataset/02-staat-van-baten-en-lasten</p>

Tuition fees from students in degree programmes		<p><i>sector</i> Universities of applied sciences [Hogescholen] & Universities [Universiteiten]</p> <p><i>source:</i> DUO Onderwijsdata, financiën, Financiële verantwoording (XBRL)</p> <p><i>table:</i> Table 13: Overige baten 2016-2020</p> <p><i>xlsx sheet:</i></p> <p><i>variable:</i></p> <p><i>function:</i> Revenues tuition fees= Totaal college-, cursus-, les- en examengelden</p> <p><i>link:</i></p>
Fees from courses organised within the framework of continuing professional development (CPD)		<p><i>sector</i> Universities of applied sciences [Hogescholen] & Universities [Universiteiten]</p> <p><i>source:</i> DUO Onderwijsdata, financiën, Financiële verantwoording (XBRL)</p> <p><i>table:</i> Table 13: Overige baten 2016-2020</p> <p><i>xlsx sheet:</i></p> <p><i>variable:</i></p> <p><i>function:</i> Revenues CPD=Contractonderwijs</p> <p><i>link:</i></p>
External revenues from research		<p><i>sector</i> Universities of applied sciences [Hogescholen] & Universities [Universiteiten]</p> <p><i>source:</i> DUO Onderwijsdata, financiën, Financiële verantwoording (XBRL)</p> <p><i>table:</i> Table 13: Overige baten 2016-2020</p> <p><i>xlsx sheet:</i></p> <p><i>variable:</i></p> <p><i>function:</i> External research revenues=Contractonderzoek + overige baten werk in opdracht van derden</p> <p><i>link:</i></p>

	external revenues from privately funded research contracts	<i>sector</i> Universities of applied sciences [Hogescholen] & Universities [Universiteiten] <i>source:</i> DUO Onderwijsdata, financiën, Financiële verantwoording (XBRL) <i>table:</i> Table 13: Overige baten 2016-2020 <i>xlsx sheet:</i> <i>variable:</i> <i>function:</i> Revenues from private contracts=Contractonderzoek overige non-profit organisaties + contractonderzoek bedrijven <i>link:</i>
	Revenues from licensing agreements, copyrighted products and royalties	<i>sector</i> Universities of applied sciences [Hogescholen] & Universities [Universiteiten] <i>source:</i> DUO Onderwijsdata, financiën, Financiële verantwoording (XBRL) <i>table:</i> Table 13: Overige baten 2016-2020 <i>xlsx sheet:</i> <i>variable:</i> <i>function:</i> Revenues from licences=Licentie-opbrengsten <i>link:</i>
	Other revenues	
Q18: Revenues by source	Tuition fees from international sources as % of total tuition fee revenues	
	External research revenues: % from international sources	
	External research revenues: % from national sources	

	External research revenues: % from regional sources	
Q19: Expenditure	Total expenditure	<i>sector</i> Universities of applied sciences [Hogescholen] & Universities [Universiteiten] <i>source:</i> DUO Onderwijsdata, financiën, Financiële verantwoording (XBRL) <i>table:</i> Table: 02 Staat van baten en lasten 2016-2020 <i>xlsx sheet:</i> <i>variable:</i> <i>function:</i> Total expenditure=Totaal baten <i>link:</i> https://onderwijsdata.duo.nl/dataset/02-staat-van-baten-en-lasten
	% on research	
	% on teaching	
	% on knowledge transfer	
	% on other activities	
Q20: Research outputs	Number of academic publications	<i>sector</i> Universities of applied sciences [Hogescholen] & Universities [Universiteiten] <i>source:</i> VSNU KUOZ; Onderzoeksinzet en –output, <i>table:</i> Table Wetensch. Publ. 2000-2018 <i>xlsx sheet:</i> <i>Onderzoeksinzet_en_output_2018.xlsx</i> <i>variable:</i> <i>function:</i> wetenschappelijke publicaties per universiteit <i>link:</i> https://www.vsnu.nl/f_c_onderzoeksoutput.html
	Number of professional publications	<i>sector</i> Universities of applied sciences [Hogescholen] & Universities [Universiteiten] <i>source:</i> VSNU KUOZ; Onderzoeksinzet en –output, <i>table:</i> Table Wetensch. Publ. 2000-2018

		<i>xlsx sheet:</i> <i>Onderzoeksinzet_en_output_2018.xlsx</i> <i>variable:</i> <i>function:</i> not available in latest version; in previous years: vakpublicaties <i>link:</i> https://www.vsnu.nl/f_c_onderzoeksoutput.html
	Number of art-related research outputs	
Q21: Graduate companies	Number of graduate founded companies	
Q22: Spin-off companies	Number of newly founded spin-off companies	