

AESIS

Access to EU research funding by
stimulating and demonstrating
societal impact
Wednesday 9 December 2020
9u - 11u



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**UNIVERSITY OF APPLIED
SCIENCES AND ARTS**





9 departments

7 campuses

in Hasselt, Diepenbeek, Genk, Corda, Maasmechelen, Droneport ...

42 study programmes

- 17 professional bachelors (EQF level 6)
- 24 specialisations
- 1 master in visual arts (EQF level 7)
- 1 educational master in visual arts (level 7)
- 1 educational teacher training
- 1 short educational bachelor
- 16 short-cycle programmes (level 5)



> 10 000 students

1150 staff members

•PXL-Research

- 7 centres of expertise
- 3 cells of expertise
- practice based research
- academic research in the field of Arts (PhD's) in cooperation with Hasselt University

PXL-Congress:

100.000 visitors yearly
conferences seminars and events

**Roots in the region,
eyes on the world**

PXL-BUSINESS PROFESSIONELE BACHELOR

- **Bedrijfsmanagement (allround)**
- **Bedrijfsmanagement met afstudeerrichtingen:**
 - Accountancy-fiscaliteit
 - Financiering- en verzekeringswezen
 - Logistiek management
 - Marketing
 - Rechtspraak
- **Office management met afstudeerrichtingen:**
 - Business translation & interpreting
 - Business & languages
 - Health care management
- **Mogelijke keuzetrajecten binnen beide opleidingen:**
 - Vastgoed
 - International business
 - Eventmanagement
 - Human resources
 - Sportmanagement

GRADUAATSOPLEIDINGEN

- **Accounting administration**
- **Transport en logistiek met afstudeerrichtingen:**
 - Wegvervoer
 - Magazijnbeheer
- **Marketing- en communicatie-support met afstudeerrichtingen:**
 - Marketingsupport
 - Communicatiesupport
- **Verkeerskunde en mobiliteit**
- **Winkelmanagement**
- **Juridisch-administratieve ondersteuning**
- **Marketing (Sales)**

PXL-EDUCATION EDUCatieve BACHELOR

- **Kleuteronderwijs**

- **Lager onderwijs**
- **Secundair onderwijs met onderwijsvakken:**
 - Aardrijkskunde, Bedrijfsorganisatie, Bewegingsrecreatie, Economie, Engels, Frans, Geschiedenis, Gezondheidsopvoeding, Informatica, Lichamelijke opvoeding, Natuurwetenschappen (incl. Biologie of Fysica), Nederlands, Niet-confessionele zedenleer, Plastische opvoeding, Project algemene vakken (PAV), Project kunstvakken (PKV), Techniek (STEM), Wiskunde
 - Extra keuzemodules: RZL (godsdienst), cultuureducator, ICT-coördinator, sportcoach, instructeur fitness, methodeonderwijs, filosoferen met jongeren ...
- **Verkorte educatieve bacheloropleiding voor secundair onderwijs**

GRADUAATSOPLEIDINGEN

- **Educatieve graduaatopleiding voor secundair onderwijs**

PXL-MUSIC PROFESSIONELE BACHELOR

- **Pop- en rockmuziek met afstudeerrichtingen:**
 - Muzikant
 - Muziektechniek
 - Muziekmanagement

PXL-HEALTHCARE PROFESSIONELE BACHELOR

- **Ergotherapie**
- **Verpleegkunde**
- **Vroedkunde**

GRADUAATSOPLEIDINGEN

- **Verpleegkunde (PIVH)**

PXL-SOCIAL WORK PROFESSIONELE BACHELOR

- **Sociaal werk met afstudeerrichtingen:**
 - Maatschappelijk werk
 - Personeelswerk

GRADUAATSOPLEIDING

- **Orthopedagogie**

PXL-GREEN & TECH PROFESSIONELE BACHELOR

- **Agro- en biotechnologie met afstudeerrichtingen:**
 - Biotechnologie met keuzetrajecten:
 - Cel- en gentechnologie
 - Omgevingstechnologie
 - Voedingsmiddelentechnologie
 - Groenmanagement
- **Bouw**
- **Elektromechanica met afstudeerrichtingen:**
 - Klimatisering
 - Onderhoudstechnologie

GRADUAATSOPLEIDINGEN

- **Bouwkundig tekenen**
- **Elektromechanische systemen met afstudeerrichtingen:**
 - Onderhoudstechnieken
 - Meet- en regeltechnieken
- **Hernieuwbare energiesystemen**
- **HVAC-systemen met afstudeerrichtingen:**
 - Klimatisatiesystemen
 - Verwarmings- en sanitaire installaties
- **Werforganisatie (vanaf 2020) met afstudeerrichtingen:**
 - Woningbouw
 - Wegenbouw

PXL-DIGITAL PROFESSIONELE BACHELOR

- **Toegepaste informatica met afstudeerrichtingen:**
 - Applicatie-ontwikkeling
 - Systemen en netwerkbeheer
 - Software-management
- **Elektronica-ICT**

GRADUAATSOPLEIDINGEN

- **Programmeren**

- **Informatica (Systemen en netwerken)**
- **Internet of things**
- **Industriële informatica (digitale vormgeving) (vanaf 2020)**

PXL-MEDIA & TOURISM PROFESSIONELE BACHELOR

- **Communicatiemanagement met afstudeerrichtingen:**
 - Public relations en voorlichting
 - Commerciële communicatie
- **Bachelor of Communication management (o.v.) (Engelstalige bachelor) met afstudeerrichtingen:**
 - Commercial Communication
 - Public Relations and Information
- **Journalistiek**
- **Toerisme en recreatiemanagement**

PXL-MAD School of Arts (PXL - LUICA - UHASSELT - KULEUVEN)

BACHELOR EN MASTER OF ARTS

- **Beeldende kunsten met afstudeerrichtingen:**
 - Grafisch ontwerp
 - Juweelontwerp en edelsmeedkunst
 - Vrije kunsten met keuzetrajecten:
 - Keramiek
 - Open lab
 - Schilderkunst
 - Sculptuur & installatie
 - Vrije grafiek
- **Educatieve master Audiovisuele in de beeldende kunsten**
- **Master of Arts in Visual Arts (Engelstalige master) met afstudeerrichtingen:**
 - Graphic Design
 - Jewellery, Silver- & Goldsmithing
 - Fine Arts

PXL RESEARCH



PXL BIO-RESEARCH



PXL BOUW EN ENERGIE



PXL INNOVATIEF ONDERNEMEN



PXL LOG-IC



PXL MAD-RESEARCH



PXL MUSIC-RESEARCH



PXL ONDERWIJSINNOVATIE



PXL SMART ICT



PXL SOCIAL WORK-RESEARCH



PXL ZORGINNOVATIE

FACTS AND FIGURES

RESEARCH & SERVICE TO CIVIL SOCIETY

2018




2 PhD's

NIEUW!

» UHASSELT



347

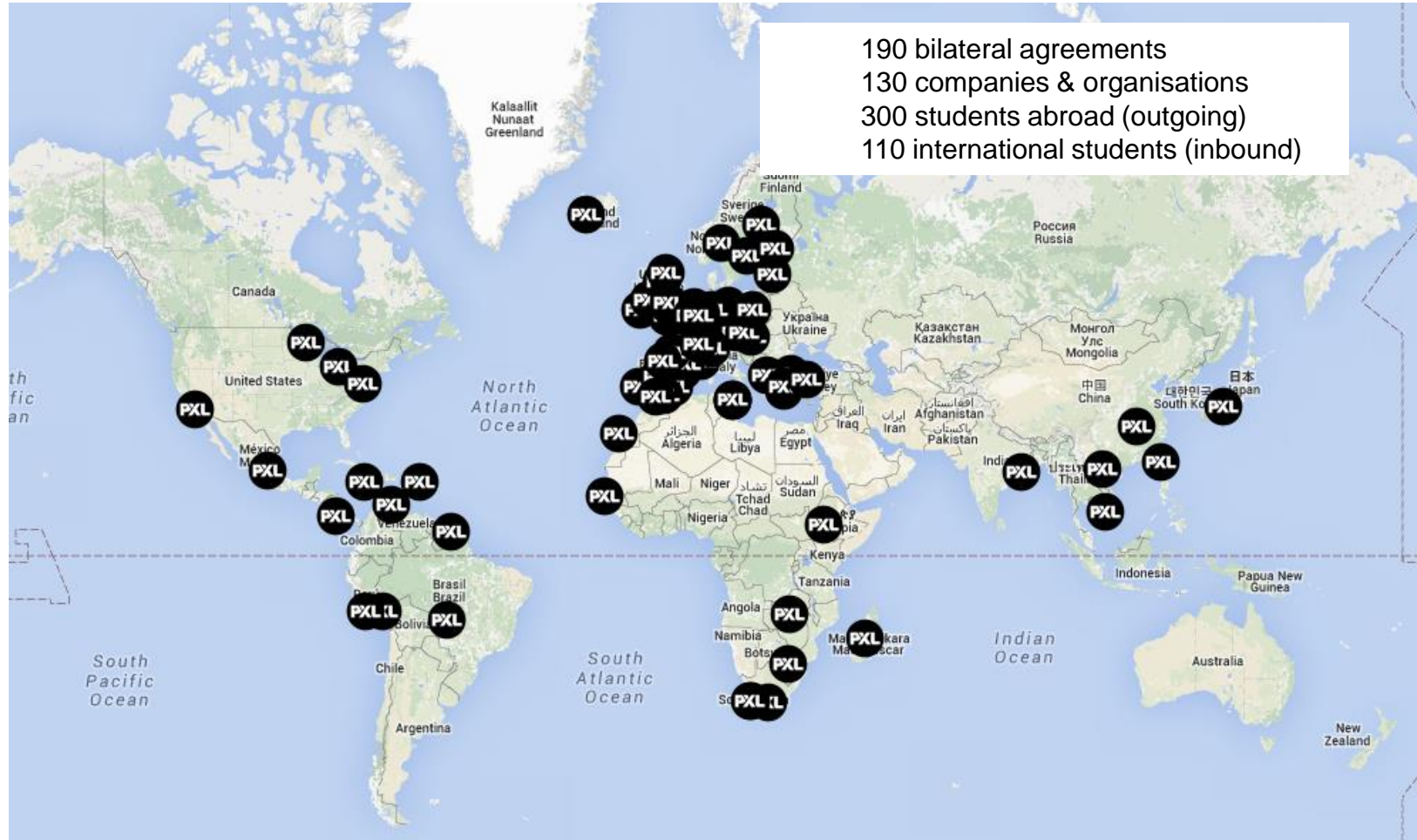
Cooperations with
companies & social profit

26

International projects

-  **BIO-RESEARCH**
-  **BOUW EN ENERGIE**
-  **INNOVATIEF ONDERNEMEN**
-  **LOG-IC**
-  **MUSIC-RESEARCH**
-  **ONDERWIJSINNOVATIE**
-   **RESEARCH**
i.s.m. UHasselt
-  **SMART ICT**
-  **SOCIAL WORK-RESEARCH**
-  **ZORGINNOVATIE**

International Network



AESIS

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Building collaborations between Universities & Universities of Applied Sciences (and Arts)

Positioning of Universities of Applied Sciences within the EU context

1. What are UAS(A)'s? What kind of research UAS(A)'s are doing?
2. Building an EU-consortium: taking an active role in the EU research strategy
3. UAS's as newcomers on the EU-level: looking for collaboration and partners
4. Measuring impact of research by UAS's: some facts & figures

<< The story of UASnet and UAS4EUROPE >>

Bruno Van Koeckhoven

PXL Research



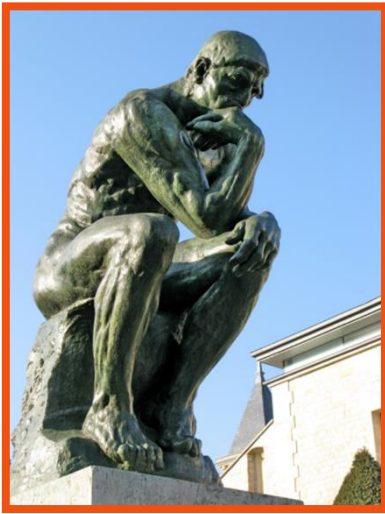
**UNIVERSITY OF APPLIED
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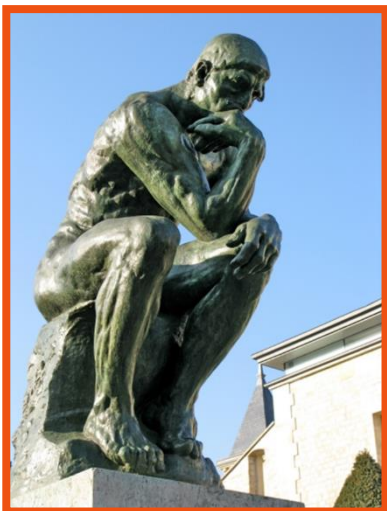
Universities of Applied Sciences? UAS?

Fachhochschule
Hogeschoolen
Écoles supérieures et d'arts
Erhvervsakademi
Institutos Superiores Politécnicos
Institutes of Technology
Scuole Universitarie Professionale
Yrkeshögskolor
Hochschule für angewandte Wissenschaften
University Colleges
Ammattikorkeakoulut
Hautes Écoles Spécialisées
Rakenduskoõrgkool
Kolegija
Technische Hochschule
Instituti Superiori Politécnici
Høyskoler
Veleučilišta

Universities of Applied Sciences & Arts



Universities of Applied Sciences? UAS?



How to create
visibility?

Who are
we?

How to explain the
difference with other
research actors?

How do we explain our
research and innovation
actions?



Applied Research by UAS?

Praxis

Applied Research =
practice based research

A quick return on
investment

Impact

- 1) Focus on practical solutions
- 2) User-oriented and collaborative research
- 3) Scientific and methodical research
- 4) Multidisciplinary research
- 5) Regional connectors with SME's, public institutions, NGO's ...

Involvement of students
= interns in research projects

Regional connectors

Solving the Innovation Paradox



Members

⇒ represented through national or regional associations of UAS (rectors' conferences) (e.g. Vlaamse Hogescholenraad (VLHORA), Vereniging Hogescholen (VH),...)

8 EU-countries

1. Finland	25 UAS	Henrik Wolff (Arcada UAS)
2. Denmark	7 UAS	Lene Augusta Jørgensen (UCN UAS)
3. Estonia	9 UAS	Anne Kraav (Talinna Tehnika UAS)
4. Lithuania	23 UAS	Nijole Zinkeviciene (Vilniaus Kolegija)
5. The Netherlands	36 UAS	Marjolijn Brussaard (Artez UAS Arts)
6. Belgium:		
a) Flanders	13 UAS	Eric Vermeylen (VLHORA)
b) Wallonia	19 UAS	Cedric Bister (Synhera)
7. Ireland	12 UAS/IOTI	Jennifer Brennan (THEA)
8. Portugal	20 UAS	Armando Pires (Setubal UAS – CCISP)

TOTAL

157 UAS (< 1 million students)



Founded in 2011

Mission & Strategy

1. Ensuring visibility of Universities of Applied Sciences
2. Ensuring visibility of their applied research activities
3. Providing matchmaking possibilities for European researchers
4. Offering information on European research programmes
5. Stimulating UAS to participate in European programmes

Goals

1. As a spokesperson to lobby with EU-stakeholders (Parliament, Commission, Council)
2. Networking & matchmaking activities between UAS in Europe
3. Enhance the cooperation between UAS:
 - collecting good practices
 - collecting facts and figures to brand ourselves
 - mapping the UAS research priorities

The Eduprof-project 2008-2011 Creation of UASnet in 2011



The EDUPROF project: developing indicators of applied research
Final report
October 2011



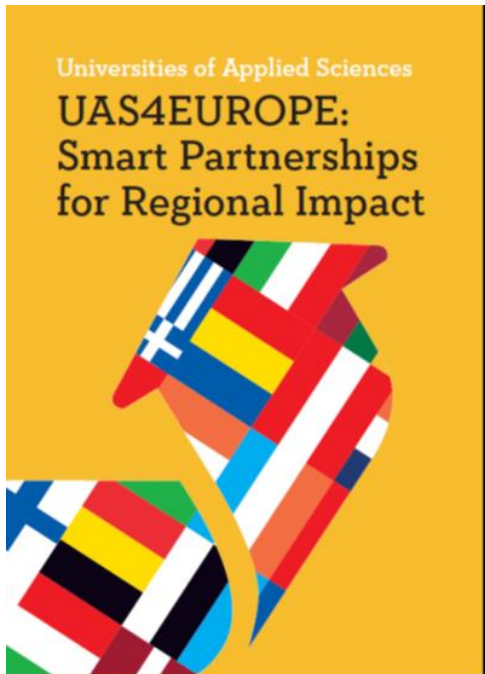
General Assembly of UASnet



Summer of Love - 2016



swissuniversities



“Europe needs more and stronger involvement of the Universities of Applied Sciences” - March 2017

- Robert-Jan Smits DG RTD

EURASHE	June 2016 – June 2017
Swiss UAS	June 2017 – June 2018
UASnet	June 2018 – June 2019
Austrian UAS (FHK)	June 2019 – June 2020
Bavarian UAS	June 2020 – June 2021

| Founding Organisations |

Representing over 600 institutions in over 40 countries within and outside the European Higher Education area



Representing the Swiss Chamber of the 7 UAS of Switzerland

swissuniversities

Representing all 21 UAS of Austria



Representing all 36 publicly-funded UAS of the Netherlands



Representing all 8 UAS of Denmark



Representing 24 UAS in Finland



Representing 12 German UAS



Representing 24 German UAS



Mission Statement

UAS4EUROPE aims to strengthen the voice of universities of applied sciences (UAS) in Europe in the field of applied research and innovation. It is both a networking platform for exchanging knowledge and for reaching out to European institutions and other European stakeholders to ensure a better integration and visibility of UAS in Europe's research-and innovation policies and programmes.

The goal is to provide a common voice and to create visibility for UAS at European level and to strengthen the involvement of UAS in European policies and programmes. We further aim to highlight the particular roles of UAS and their value in Europe:

1. as smart regional connectors
2. as international key players
3. as competent project partners and project leaders for European programmes
4. as consulting bodies on research and innovation
5. as contributors to European entrepreneurship

Through these roles, UAS4EUROPE stresses the importance of the correlation between high-quality education and applied research. In practice this could be through education labs, internships and workplace learning by students.

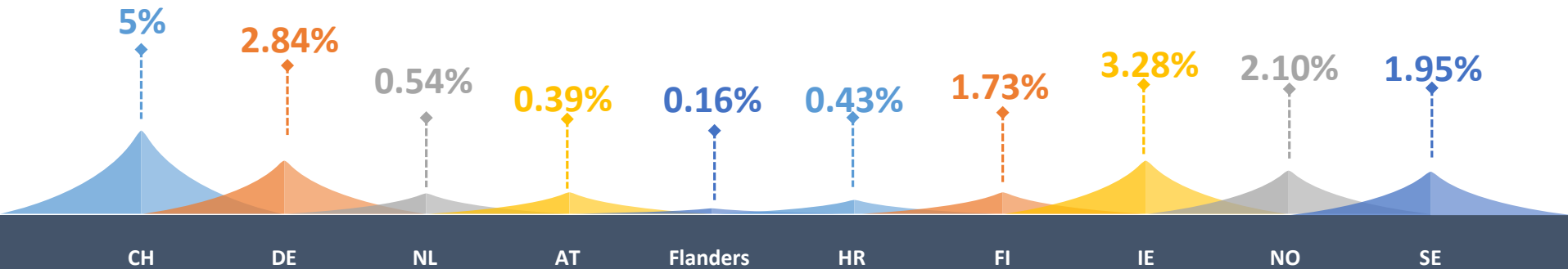
One major challenge of EU research and innovation programmes has been to increase their impact on society. The vital role of UAS as a transmission mechanism connecting knowledge creation to citizens, small and medium-sized companies as well as public institutions in their region has not been fully realized. Europe as a whole will benefit from more actively capitalizing on the role of UAS as connectors linking citizens, companies (especially SMEs) and public institutions.

Contact: Karin Lukas-Eder BayFOR Representative / EU Liaison Office in Brussels
Phone: +32 (0)2 5134121 E-mail: info@uasforeurope.eu



UAS4EUROPE Organisation Committee
@ Bavarian Representation to the EU

1. Data Analysis



Participation in Horizon 2020 (mid-term evaluation November 2017)

Source: Data extracted from the open data portal in September 2017

2. Position Papers



POSITION PAPER ON FP9

UAS4EUROPE, the networking platform for universities of applied sciences (UAS) in Europe, presents its position paper on the ninth European Framework Programme for Research and Innovation (FP9). UAS4EUROPE believes that the universities of applied sciences have an important role to play in FP9. Horizon 2020 is a first and much appreciated step forward to cover the full research and innovation chain in which opportunities are within reach also for UAS. However, based on our [statement on the mid-term evaluation on Horizon 2020](#), [contribution to the European Innovation Council \(EIC\)](#) and the [UAS4EUROPE position paper](#), as well as our internal FP9 survey, we would like to provide our recommendations for a new programme that will even better integrate UAS.

Main recommendations

- Include Smart Partnerships for Regional Impact (SPFRI), which fosters the collaboration between, universities of applied sciences, academic universities, RTOs, companies, regions and other public and private stakeholders with strong added value on the basis of excellence.
- An increase of the budget to EUR 120 billion for seven years while at the same time ensuring genuine research funding within the Structural Funds.
- Keep the three-pillar-structure
- Ensure better integration of social sciences and humanities (SSH) and simultaneously the inclusion of broader themes relevant to UAS, such as social work, artistic design and research, applied linguistics, educational sciences and a broader understanding of the health profession.
- Address problems and challenges with achieving genuine synergies with Structural Funds
- Focus on all forms of innovation, from incremental to disruptive and breakthrough innovation, but also social innovation and business model innovation.
- Make FP9 as simple as possible
- Ensure a truly 'open to the world' FP9



UAS4Europe Position paper on FP9

Croissant Event @ Swiss embassy to the EU

3. Croissant Events



“UAS play a key role in the ambitions of the new Framework Programme (FP9) of the European Commission”

- Kurt Vandenberghe, Director Policy Development at Directorate-General Research (RTD) of the European Commission

Croissant Event
- 28 Februari 2018 (Swiss Embassy)

4. Lobby



Members of Parliament (MEP)
Parliamentarian Commission ITRE



Jean-Eric Paquet
Director-General
DG RTD
European Commission (EC)

5. Conferences



Universities of Applied Sciences:
Maximising Success in
Horizon 2020 and Beyond

15 March 2017, Brussels
Representation of the State of Hessen to the European Union

Learn!

Lobby!

Network!



UAS4EUROPE-Conference – 15 March 2017

- 240 participants from UAS's in Europe
- 25 European countries



UAS4EUROPE Conference – 2 April 2019
“Beyond Horizons - The future of applied research in Europe”

- 202 individual attendees
- 20 European Countries





Working Group RDI-Indicators of UAS

- Meetings on 5 December 2018 and 21 February 2019
- 11 European countries

Developments

1. Research & Innovation Working Group - 5 December 2018 - Brussels

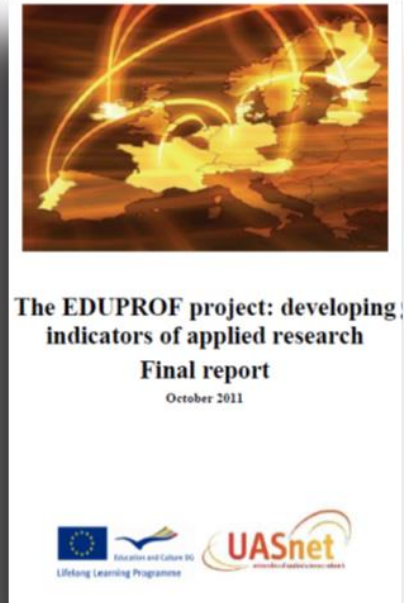
- proposal of VLHORA-research indicators (since 2012)
- definitions of input & output-research indicators
- Finland, Estonia, Lithuania, The Netherlands, Flanders & Wallonia, Ireland, Austria, Switzerland, Portugal, Bavaria and Malta

2. Research & Innovation Working Group - 21 February 2019 – Brussels

- feasibility analysis: choice of research-indicators
- discussion on definitions
- final decisions: 5 input-indicators, 1 output-indicator and 1 general indicator

3. Analysis Bachelor-paper (by UASnet-intern Alec Moons) – September 2019

- further analysis of provided numbers
- future efforts are necessary



Input-Indicators



Number of UAS



Number of students



Yearly public research budget



Amount of researchers

Output-Indicators



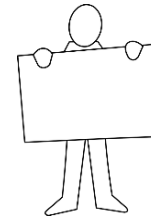
Labour market partners (private & public)



Research centres (universities,...)



Scientific & Professional Publications



Lectures & Poster Presentations (labour market & scientific world)



Symposia at your UAS

|Input-Indicators: Definitions|

Nº	Criteria	Indicator	Definition
1)	Number of UAS (Universities of applied sciences)	The amount of UAS within your country or region.	UAS are public universities who provide degrees (min. EQF 6 professional Bachelor), they are able to hand out not only diplomas, but also a degree.
2)	Number of students in UAS	All the students who are registered at the UAS (in your country or region)	Every student that has signed up to complete (approx.. 56 units of credit) during an entire curriculum at the UAS of your country or region
3)	Yearly public research budget in UAS	The sum of the entire available budget that is granted by the government to be used at your UAS for scientific research purposes	This is the total amount of money used for research that can be extracted from the public accounting books of all universities of applied sciences (UAS) in your country or region
4)	Yearly private research budget in UAS (provided from contracts)	The money that UAS receive which is provided by companies who take part in scientific research projects with the UAS in your country or region	The money is private money, no public should be counted. It is money provided by companies to UAS to do research. This information can certainly be found in the private accounting books of every UAS
5)	Amount of researchers and teaching staff spending at least 10 % of their time on research (FTE 0,1)	The total number of researchers for every UAS within your country or region	The number of researchers is equal to the number of individuals (heads) who are practicing research within the universities of applied sciences. Teaching staff is included as long as they spend at least 10% of their fulltime job on research.

| Output-Indicators: Definitions |

Nº	Criteria	Indicator	Definition
1a)	Number of partners within contracts (knowledge institutions excluded)	Total amount of partners from the labour market involved with projects in RDI.	<p>Every partner who is involved in RDI projects at universities of applied sciences, but the UAS, traditional universities or scientific research centres are not included.</p> <p>The partners who take part in contracts are those who have a firm commitment in steering groups, user groups, formal project meetings etc. within research projects at a UAS.</p> <p>If the same partner cooperates in different RDI projects, it can be counted several times (e.g. a hospital where the personnel department is involved in an RDI project, but the oncology department is involved in another RDI project).</p>
1b)	Number of knowledge institutions/partners within contracts (business partners excluded)	The number of partners in the scientific field involved in RDI projects.	Institutions such as other UAS or university colleges, traditional universities and research centres

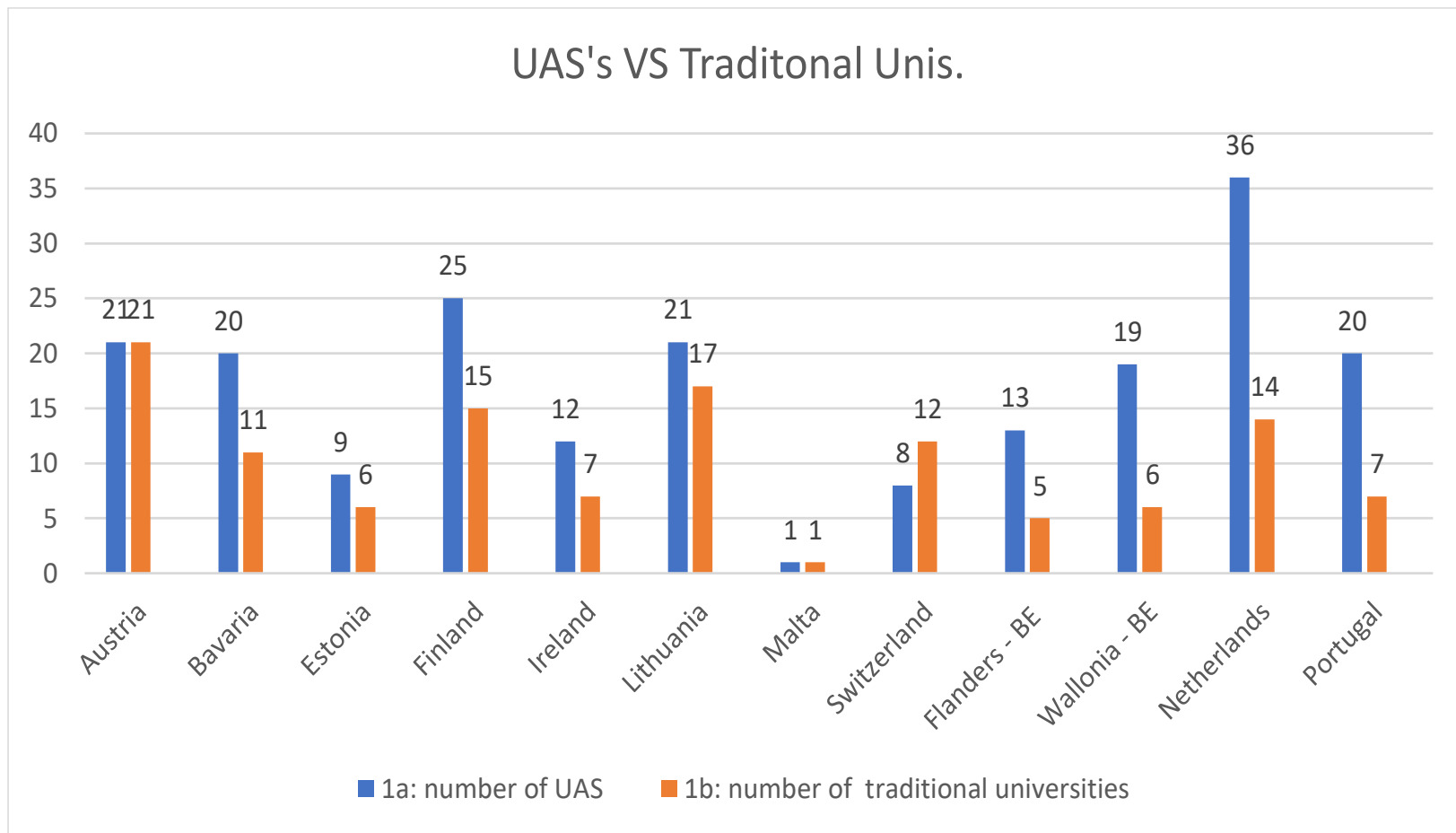
| General-Indicator: Definition |

Nº	Criteria	Indicator	Definition
	Employability rate of UAS-students	The percentage of students who have a job one year after they graduated	Every student who gets hired after graduation within the year that follows (or 9 months).

UAS4EUROPE Stats & Figures – February 2019

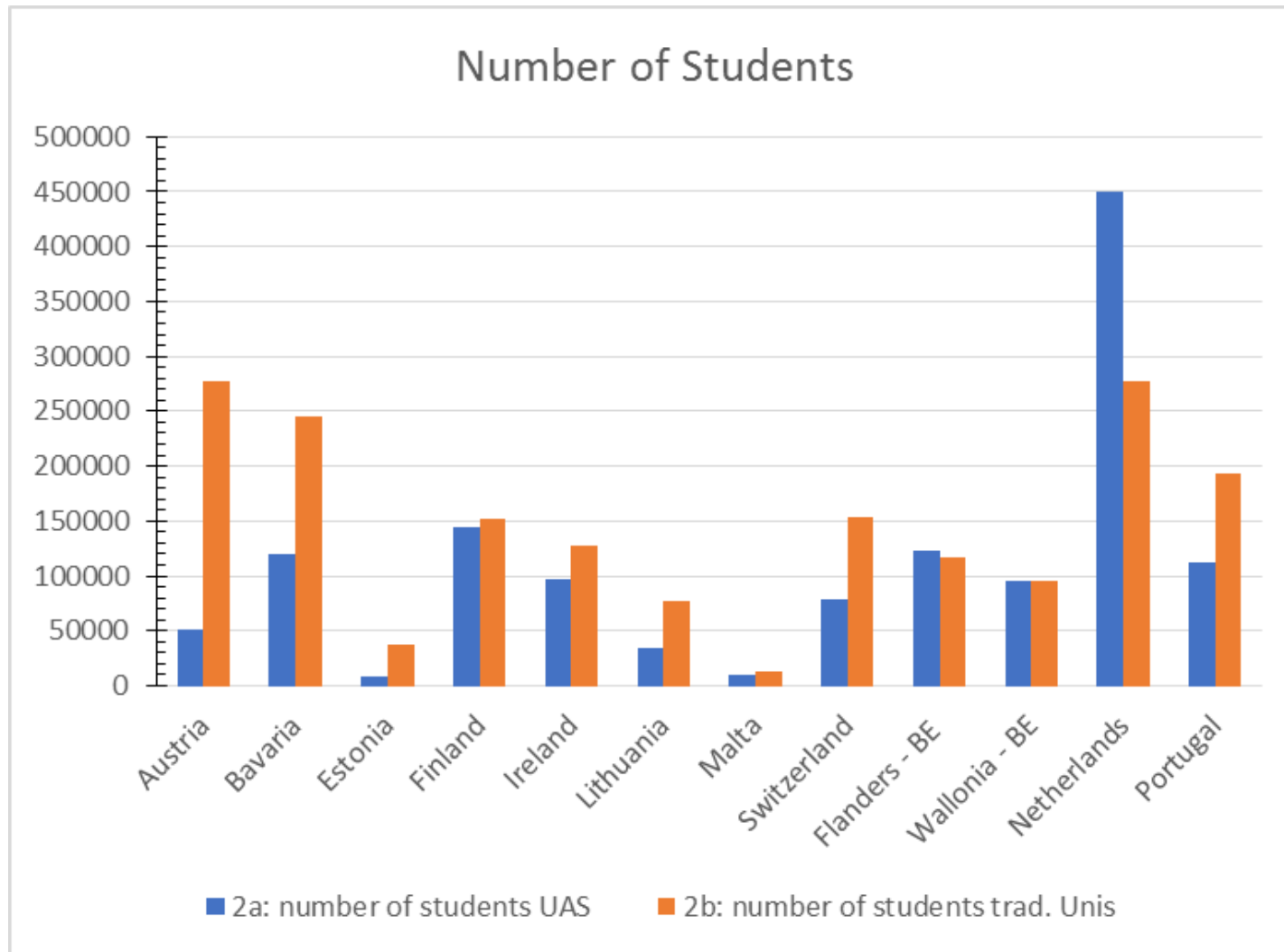
Research-Indicators UAS	Finland	Estonia	Lithuania	Netherlands	Flanders - BE	Wallonia - BE	Ireland	Portugal	Austria	Bavaria	Switzerland	Malta	EURASHE	EURASHE	TOTAL
Input-Indicators															
1a: number of UASes	25	9	23 (merges inc. --> 20)	36	13	19	12 (merges inc. --> 10)	15 + 5 (thematic) = 20	21	20	8	1	427		634
1b: number of traditional universities	15	6	22	14	5	6	7	7	21	11	12	1			
2a: number of students UASes	144000	8500	35446 (oktober new nr)	450000	122623	96225	96954	112300	51522	120000	76504	6635	978476		2.299.185
2b: number of students trad. Unis	152000	37000	82577	276713	116598	95641	127775	193410	278052	245000	150672	13000			
3a: yearly public budget for research UASes (in €)	168 million	0	0,410 million European	217 million (129,2 mil)	58,521 million	1 million	57,8 million	141,5 million	91 million (Nat + Priv)	152 million	948,9 million	3 million			
3b: yearly research budget trad. Unis (in €)	1,3 billion	Budget is based on annual applications	33,09 million	1,858 billion	1,3 billion	140 million	440,3 million	Retrievable	2 billion	??	4,775 billion	75 million			
4: yearly private budget for research UASes (in €)															
5a: amount of researchers (fte)	Unavailable	?		Unavailable	577	90	571	7150	900	1000	3200	?			
(amount of research staff in heads)	3057	?	1872 (nr. only from 13)	646	1852	?	1051	?	?	?	?	22	38078		58.918
General-Indicators															
1: Employability rate UAS					95,80%				98,30%						
Output-Indicators															
1: SME's/enterprises/companies in RDI-activities	7167		464		3233	117 sme	1030			1450 (62% SME)			2% of 28000		
Optional Output-Indicators															
1: involvement public sector partners	1940												200-500		
2: Involvement third sector partners	1822														
3: UAS/trad. Uni's/research centers in UAS projects	2208		111		1110	35									
4: Peer-reviewed publications UAS	632	?	564		297										
5: Non peer-reviewed publications UAS	7730	420	190		357										
6: Study days or trainings based on scientific res.			850		447										
7: Lectures/poster presentations to companies and not for profit organisations			826		939										
8: Lectures/poster presentations to scientific knowledge institutions (trad. Uni's & UAS & research centers)			236		507										
Optional Input-Indicators															
1: amount of teaching staff	4091 (not only te	2400	?	4336	11,52%	800	Unavailable	9400 teachers (almost	Unavailable	4250	6000	500			

1.1.1 Amount of UAS's and traditional universities (indicator 1)



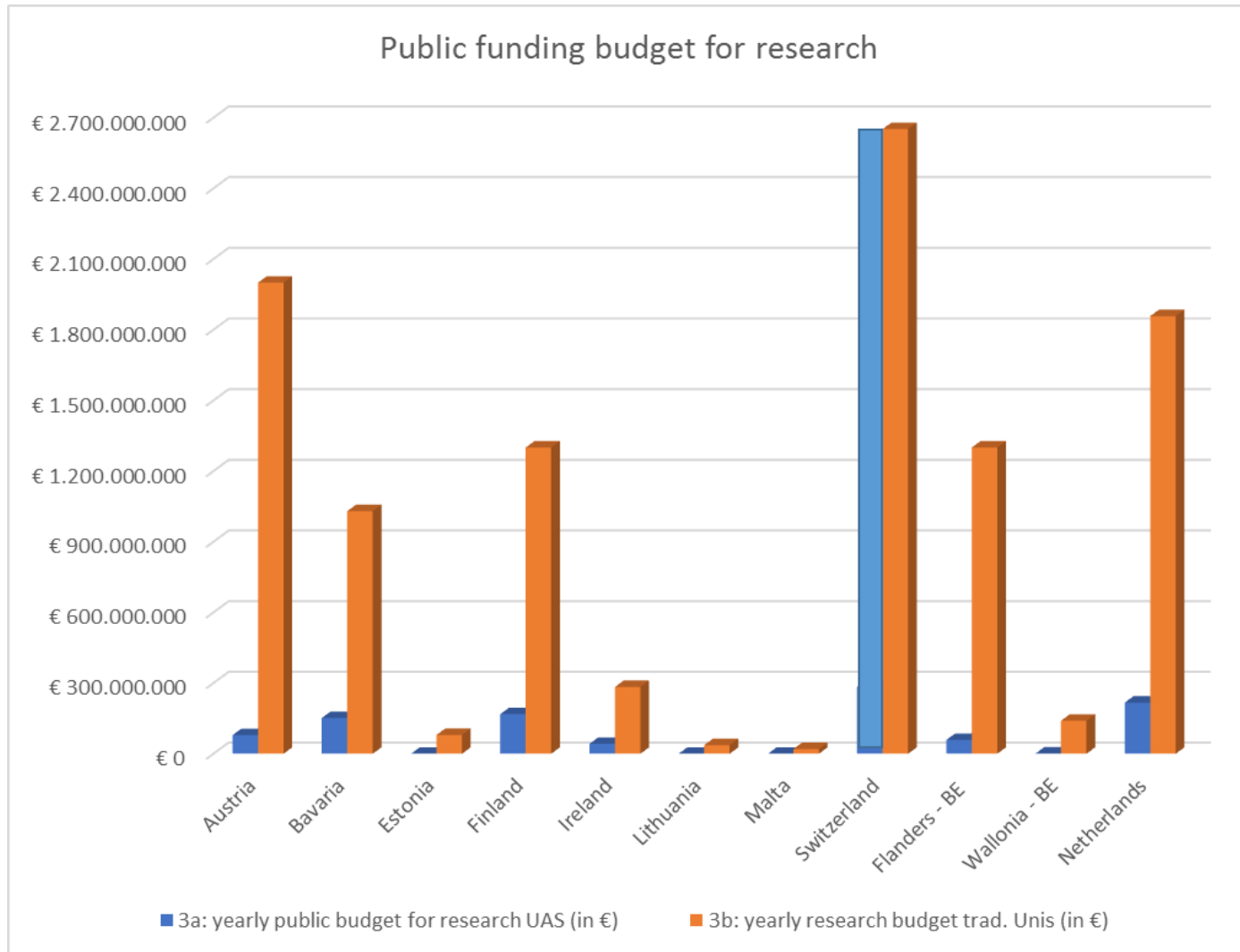
Research and Innovation Indicators – project

Analysis Bachelor-paper (by UASnet-intern) - 2019

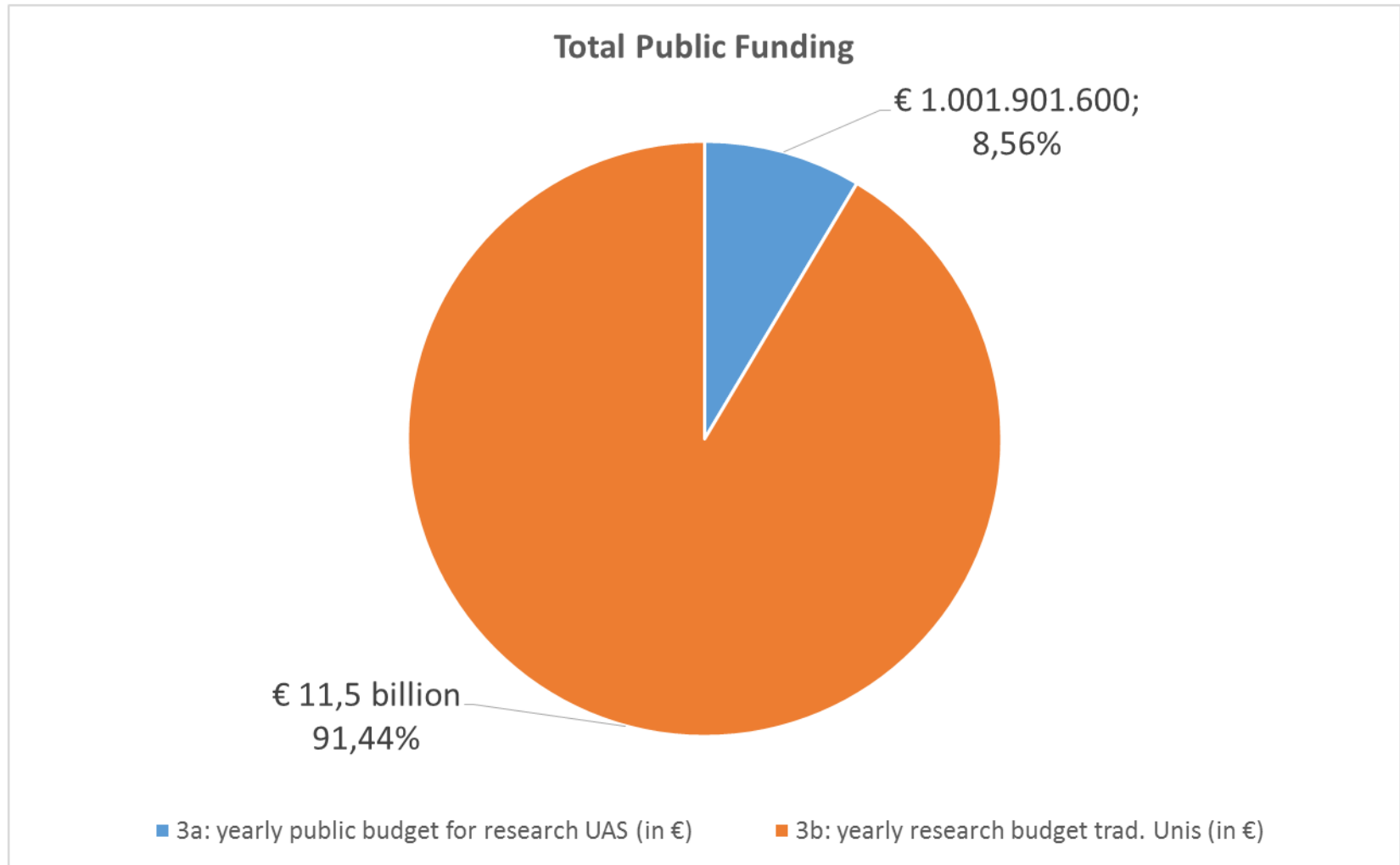


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Research and Innovation Indicators – project Analysis Bachelor-paper (by UASnet-intern Alec Moons) – September 2019



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Maximising Impact

Multiple Stakeholders

Consortium building

Open Science & Innovation

Multi-disciplinary research

Co-creation

Interdisciplinary & transdisciplinary research

Inclusive



**UNIVERSITY OF APPLIED
SCIENCES AND ARTS**



UNIVERSITY OF APPLIED
SCIENCES AND ARTS

