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WP 7 – Network management and exchange

D7.3 Associate network participant list - Update

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Any opinions expressed in this report are solely those of the authors and neither of the FCH 2 JU, nor the European Commission or its representatives.

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## About TeachHy

As the FCHT industry gradually emerges into the markets, the need for trained staff becomes more pressing. TeachHy2020, or short TeachHy, specifically addresses the supply of undergraduate and graduate education (BEng/BSc, MEng/MSc, PhD etc.) in fuel cell and hydrogen technologies (FCHT) across Europe.

TeachHy2020 will take a lead in building a repository of university grade educational material, and design and run an MSc course in FCHT, accessible to students from all parts of Europe. To achieve this, the project has assembled a core group of highly experienced institutions working with a network of associate partners (universities, vocational training bodies, industry, and networks). TeachHy offers these partners access to its educational material and the use of the MSc course modules available on the TeachHy site. Any university being able to offer 20 to 30% of the course content locally, can draw on the other 80 to 70% to be supplied by the project (and its successor entity that will support the platform post-project).

This will allow any institution to participate in this European initiative with a minimised local investment. TeachHy will be developing solutions to accreditation and quality control of courses, and support student and industry staff mobility by giving access to placements. Schemes of Continuous Professional Development (CPD) will be integrated into the project activities. We expect a considerable leverage effect which will specifically enable countries with a notable lack of expertise, not only in Eastern Europe, to quickly be able to form a national body of experts.

TeachHy will offer some educational material for the general public (e.g. MOOC's), build a business model to continue operations post-project, and as such act as a single-stop shop and representative for all matters of European university and vocational training in FCHT. The project partnership covers the prevalent languages and educational systems in Europe. The associated network has over 70 partners, including two IPHE countries, and a strong link to IPHE activities in education.

## Objective and Content of the Deliverable

This deliverable presents the updated list of the Associate Partner Network and an explanation as to how the network was built and the methodology of network member selection.

The content has been amended by the partners from the T.I.M.E. network with which TeachHy is cooperating.

This list will be further updated as the project evolves.

All partners have the potential role to adapt the teaching material developed and either obtain a licence for use or contribute to the project and its continuation post-funding by supplying and translating material.

Further details are to be elaborated in the course of the Business Model development (D8.3).

## 1 Network building methodology

In the initial proposal stages the project concept of TeachHy evolved around discussions with several potential partner universities. It appeared that though some teaching capacity was available locally, universities did not see themselves fit to deliver a full Fuel Cell & Hydrogen Masters' course. This was mainly on the basis of too few lecturers specialising in the field and often distributed across different Schools/Departments within the university (typically Chemistry, Chemical Engineering, and Mechanical Engineering). With most universities this makes cooperation to deliver a joint course across university departments difficult, if not impossible.

Therefore the idea was born to offer universities a blended learning course, within which they could draw on the course material supplied through an internet platform in order to upgrade the locally available modules into a full course.

Nevertheless, this offer did not always find a favourable audience. Many universities representatives that were contacted were reluctant to engage in the activity. The main reservations brought forward were

- issues with delivering a course across several departments;
- administrative issues with building a course from a variety of sources (esp. outside the home university);
- administrative issues with establishing a new programme;
- administrative issues with course fee charges;
- differing opinions and approaches to open source and copyrighted material.

Especially large, well established and leading universities showed reluctance to enter into networks they did not have full control of. Interestingly, some of these are part of the T.I.M.E. network and the TeachHy consortium is looking forward to a renewed discussion on the topic.

The project consortium therefore decided to first gather experience with a limited amount of partnering network universities before

- a. advertising the TeachHy concept in all breadth, and
- b. issuing a definitive business proposal.

In this way a more focused discussion would be possible in order to address and solve the problems faced by implementing the project concept at partnering universities.

Growing the Associate Network has thus not been a priority of the project to date, seeing that sharing experiences of Network universities in sharing and implementing course material will be more convincing to new network partners than theoretical discussions.

From early 2020 advertising will begin more broadly, tied in with the intensifying WP 8 Dissemination activities. With the release of the draft licensing concept first to the Associate Network and then to a selected number of universities, the network will be gradually grown. In this way discussions with new partners will be kept focused and aimed at fully integrating new universities rather than compromising the concept in interactions with a large number of (potentially contradictory) new demands.

## 2 Associate Partner Network

Partner Number	Partner Name	Country
<b>Vocational Training and Stakeholder Partners</b>		
AV1	CAMPUS, Spa Franchorchamps	Belgium
AV2	UJV, Řež	Czech Republic
AV3	DVGW	Germany
AV4	CISM	Italy
<b>Networking Partners</b>		
AN1	EUREC	EU/Brussels
ANn	T.I.M.E. network partners: see separate list	
<b>University Network Partners</b>		
AU1	University of Liège	Belgium
AU2	University of Louvain la Neuve	Belgium
AU3	IEES – Bulgarian Academy of Science	Bulgaria
AU4	University of Split (UNIST-FESB)	Croatia
AU5	University of Patras, FORTH-ICEHT	Greece
AU6	University of Western Macedonia (UoWM)	Greece
AU7	University Apris-Saclay	France
AU8	Hochschule München	Germany
AU9	University of Naples, Parthenope	Italy
AU10	University of Salerno	Italy
AU11	University of Udine	Italy
AU12	University of Agde/SINTEF	Norway
AU13	ZUT	Poland
AU14	National Hydrogen and Fuel Cell Centre NHFCC/ICSI	Romania
AU15	Jozef Stefan International Postgraduate School	Slovenia
AU16	London Southbank University	UK
<b>IPHE University Partners</b>		
IPHE1	FURJ/COPPE, Rio de Janeiro	Brazil
IPHE2	Yonsei University, S. Korea	S.Korea
IPHE3	Wuhan University of Technology	P.R.China
<b>International (non-IPHE) Partners</b>		
INTU1	NTU	Singapore

### 3 T.I.M.E. Network Partners (status Jan. 2019)

Partner Number	Partner Name	Country
<b>Networking Partners from the T.I.M.E. group</b>		
AN2	University of Queensland	Australia
AN3	Technical University of Vienna	Austria
AN4	Université de Mons	Belgium
AN5	Université Catholique de Louvain	
AN6	Vrije Universiteit Brussel (VUB)	
AN7	Universidade de São Paulo	Brazil
AN8	Universidade Estadual de Campinas	
	Polytechnique Montréal	Canada
AN9	Beihang University	P.R. China
AN10	Xi'an Jiao Tong University	
AN11	Czech Technical University in Prague	Czech Republic
	LUT - Lappeenranta-Lahti University of Technology	Finland
AN12	CentraleSupélec	France
AN13	École Centrale de Lille	
AN14	École Centrale de Lyon	
AN15	École Centrale de Marseille	
AN16	École Centrale de Nantes	
AN17	École des Ponts Paris Tech	
AN18	ENSTA Paris Tech	
AN19	Supaéro (ISAE)	
AN20	RWTH Aachen	Germany
AN21	Technical University of Berlin	
AN22	Technical University of Darmstadt	
AN23	Technical University of Dresden	
AN24	Technical University of Munich	
AN25	University of Hannover	
AN26	Aristotle University of Thessaloniki	Greece
AN27	National Technical University of Athens	
AN28	Budapest University of Technology and Economics	Hungary
AN29	Politecnico di Milano	Italy
AN30	University of Padova	
AN31	University of Trento	



Partner Number	Partner Name	Country
AN32	Doshisha University	Japan
	Yokohama University	
AN33	Keio University	
AN34	Tohoku University	
AN35	N.T.N.U. Trondheim	Norway
AN36	AGH University of Science and Technology, Krakow	Poland
AN37	Wrocław University of Technology	
AN38	Instituto Superior Tecnico / Technical University of Lisbon	Portugal
AN39	Bauman Moscow State Technical University	Russian Federation
AN40	MIREA Moscow	
AN41	St. Petersburg State Polytechnical University	
AN42	Bauman Moscow State Technical University	
AN43	Universidad de Sevilla/ETSI	Spain
AN44	Universidad Pontificia Comillas/ICAI	
AN45	Universidad Politécnica de Madrid	
AN46	Universitat Politècnica de Catalunya	
AN47	Universitat Politècnica de València	
AN48	Lund University Faculty of Engineering/LTH	Sweden
AN49	Royal Institute of Technology (KTH) Stockholm	
AN50	Istanbul Technical University	Turkey

The following partners of the T.I.M.E. network are also TeachHy partners:

- Université Libre de Bruxelles (ULB),
- Technical University of Denmark (DTU),
- Politecnico di Torino (POLITO),
- University of Bucharest (UPB).

The following partner of the T.I.M.E. network is already a direct member of the TeachHy Associate Network:

- Université de Liège (AU1).