TWEET-IE
Twin Wind tunnels for Energy & the EnvironmenT
INNOVATIONS - EXCELLENCE

D5.1 NTUA WT Website

LEAD BENEFICIARY: NTUA

TYPE: DEC —Websites, patent filings, videos, etc

DISSEMINATION LEVEL: PUBLIC

Deliverable 5.1

WP5

Widening of Visibility and Profile

TWEET-IE / Twin Wind tunnels for Energy and the EnvironmenT - Innovations and Excellence

HORIZON-WIDERA-2021-ACCESS-03-01 / PR# 101079125

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History and Changes

Ver	Date	Description	Contributors
00	28/06/2023	Report	NTUA

Abstract

Deliverable D5.1 involves the creation of a website for the NTUA Wind Tunnel (NTUA-WT).

Project Website

According to WP5, Task 5.2, of the TWEET-IE project (Twin Wind tunnels for Energy and the EnvironmenT - Innovations and Excellence under the HORIZON-WIDERA-2021-ACCESS-03-01 call with Project number 101079125) a new up to date web page will be created with emphasis on exploiting NTUA numerical simulation capacity, experience, enhancement, and upgrade of provided services to industry.

The homepage (**Home**) of the new site is active at the address http://wt.fluid.mech.ntua.gr. The site has a responsive web design, which automatically adjusts for different screen sizes and looks good on both PC-desktop and mobile screens.

The website presents the basic info and the necessary contact data of NTUA-WT (**About**) and includes a set of tabs where one can find a detailed presentation of:

- The latest NTUA-WT **News and Events** with News and material related to Training Workshops, Forums and Open Days.
- The NTUA-WT **Facilities**, where the different Wind Tunnel Test Sections, the measuring techniques and a selection of the available instrumentation are presented.
- The various NTUA-WT **Expertise** topics (e.g. Aerodynamics, Aeroelasticity, Green Buildings, Wind Energy, Anemometers Calibration, etc.) which present the expertise potential of NTUA-WT to provide relevant services to the private sector and the industry.
- NTUA-WT academic and research activities, through separate tabs referring to **Projects** participations (including Collaboration Opportunities, Case Studies and Experimental

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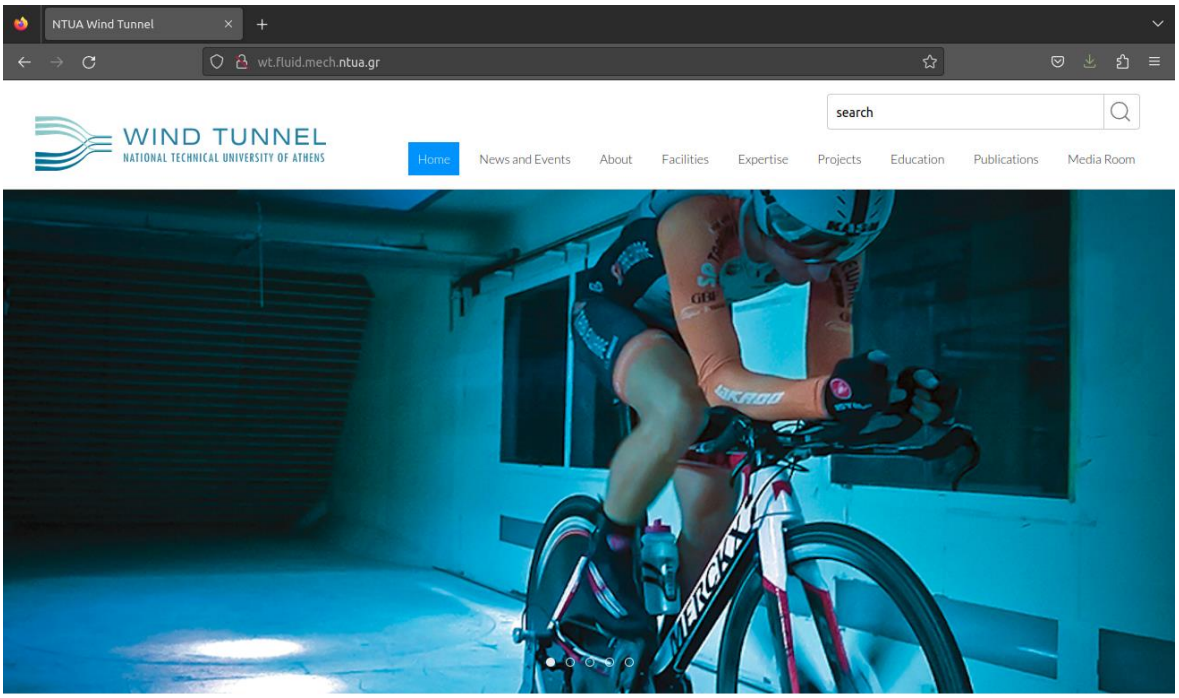
Databases), various activities related to **Education** (e.g. Experimental Fluid Mechanics Laboratories, International Competitions, Courses Material), **Publications**, and a **Media Room** with available audio-visual informative material.

The NTUA-WT web site includes a **Search** function button to facilitate queries with specific keywords in the whole site. Finally there are available links to a dedicated NTUA-WT **YouTube** channel and an **Instagram** account.

Sample pages from the NTUA Wind Tunnel web site are presented following.



Welcome

Welcome to the Wind Tunnel facilities at National Technical University of Athens, School of Mechanical Engineering, Fluids Section, Laboratory of Aerodynamics!

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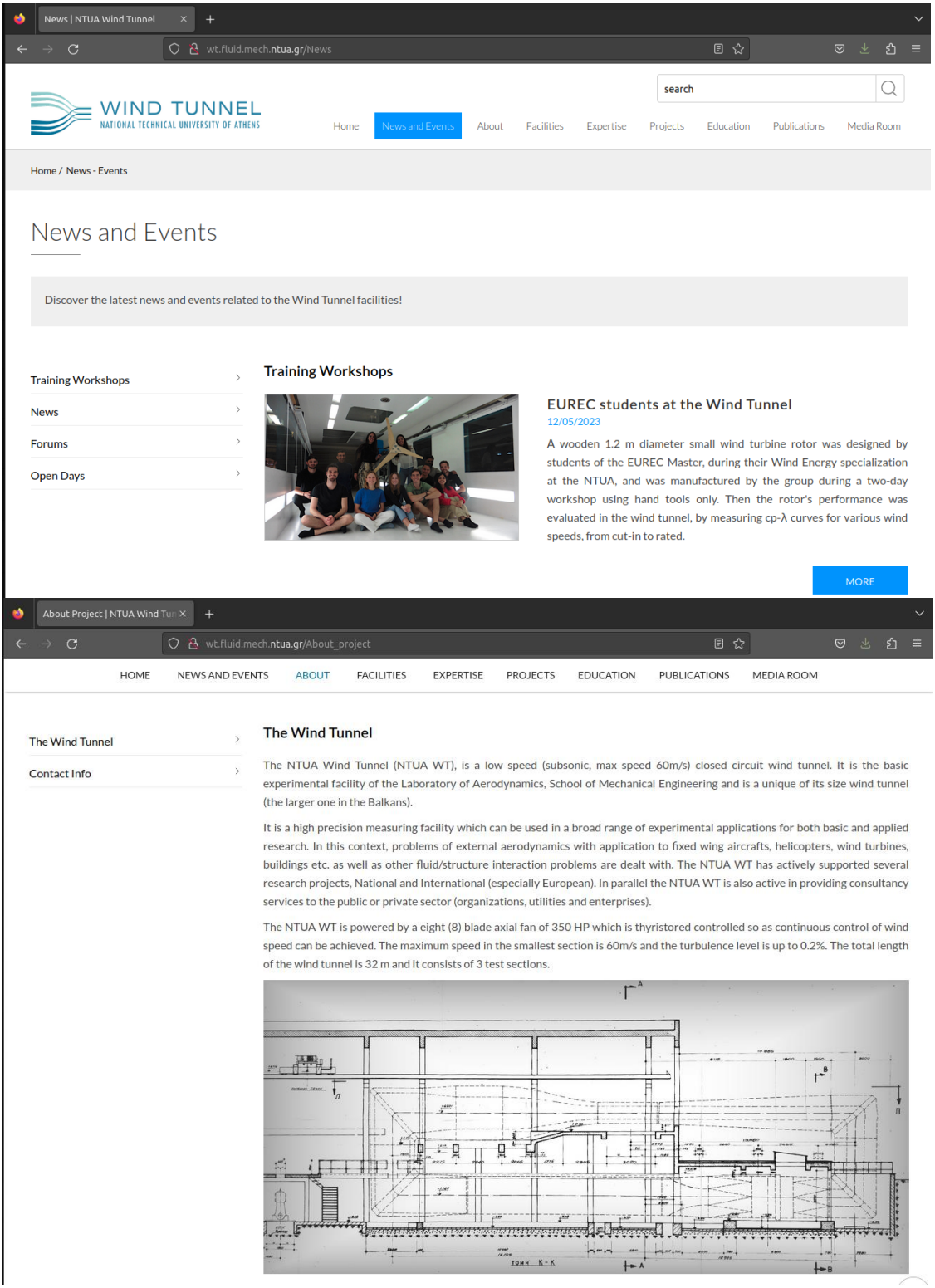

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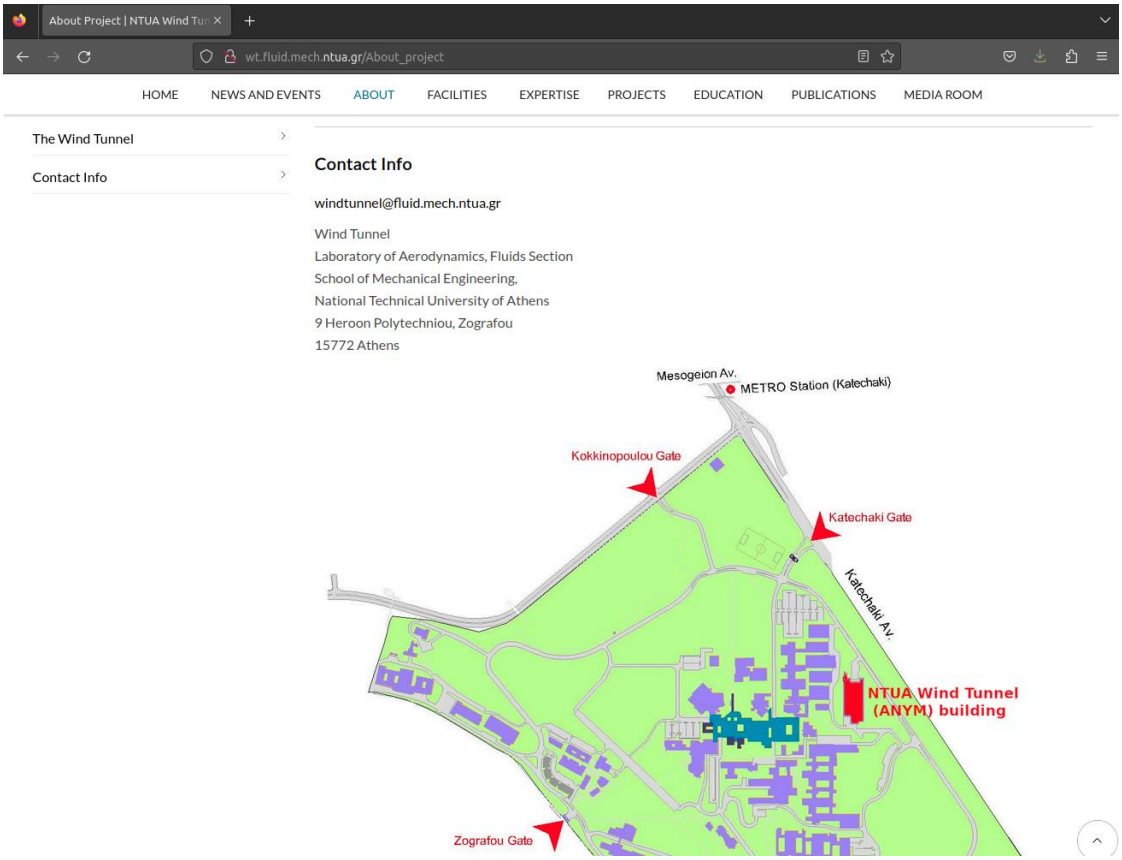

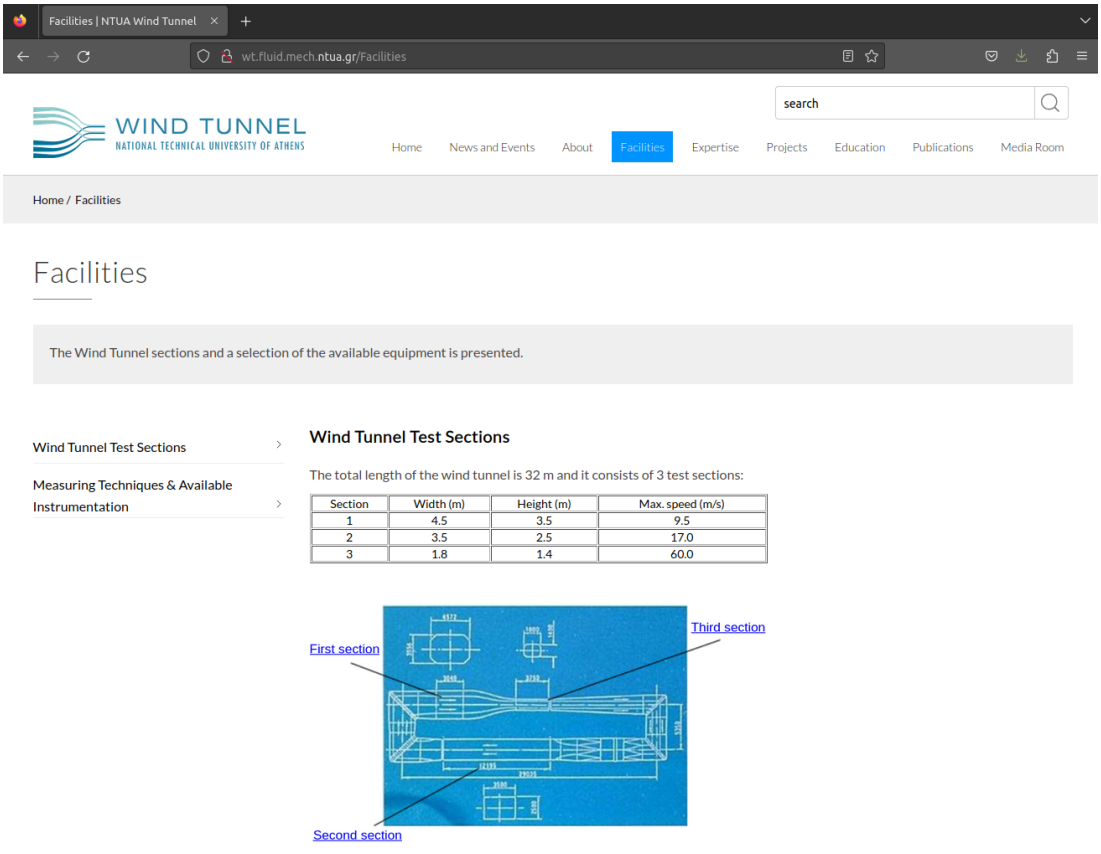

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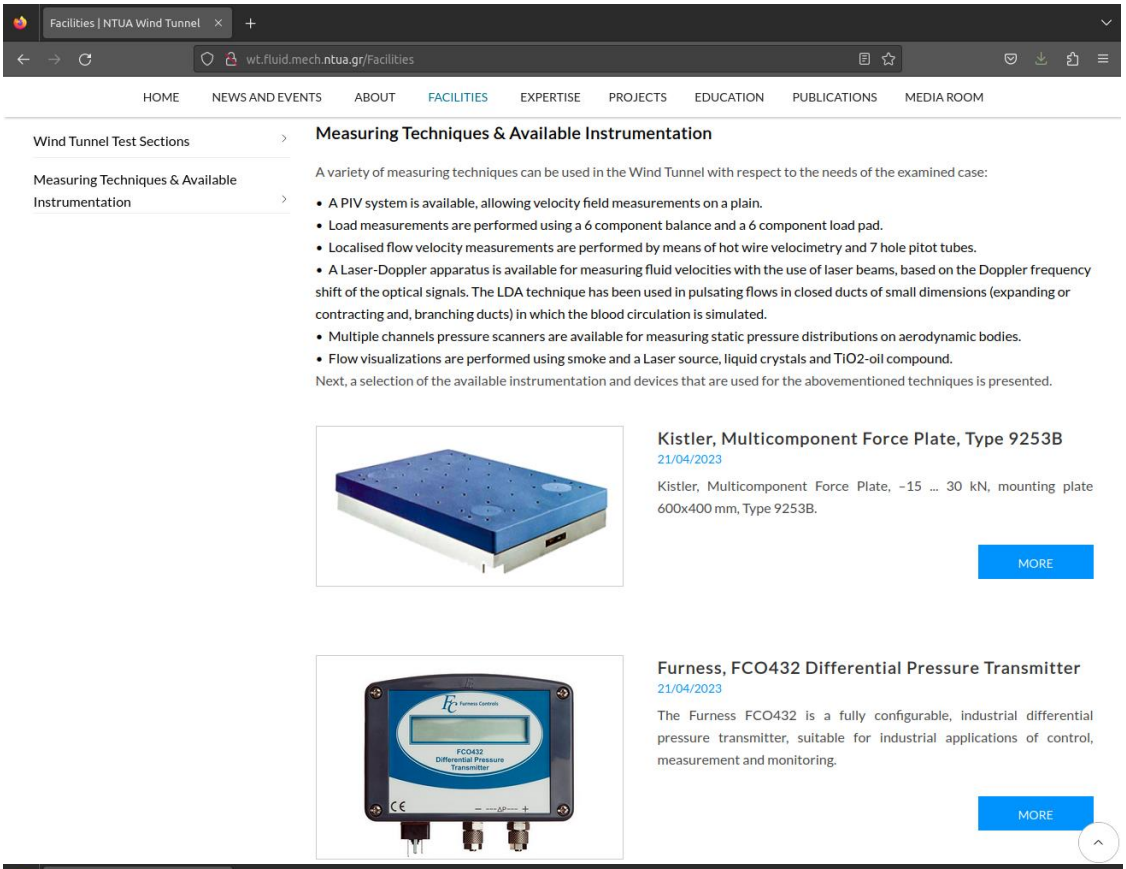

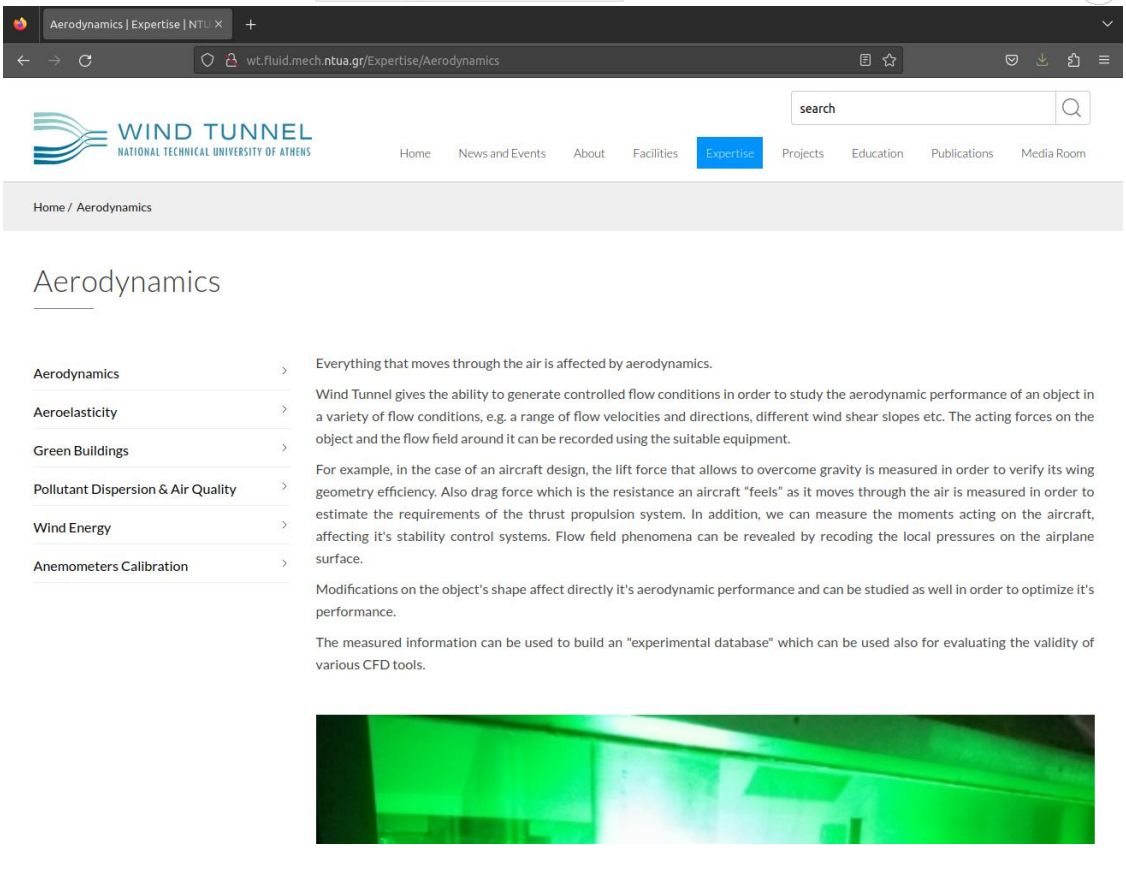

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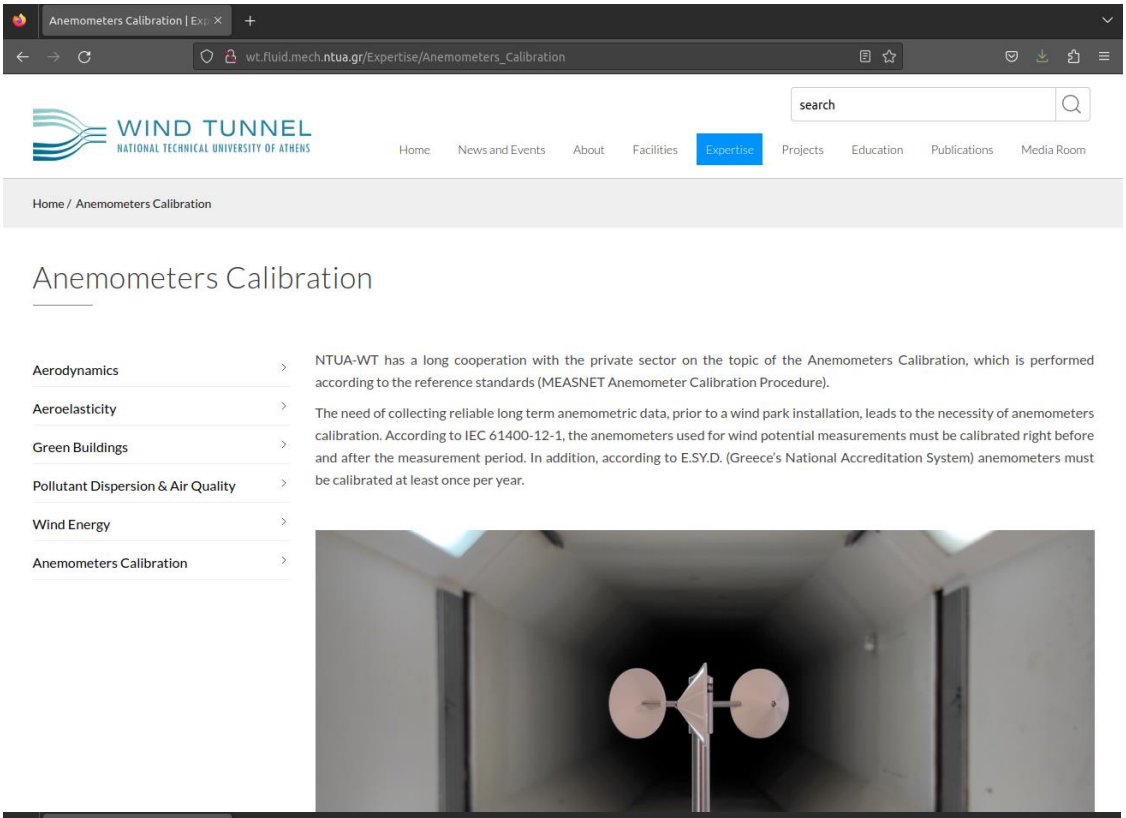

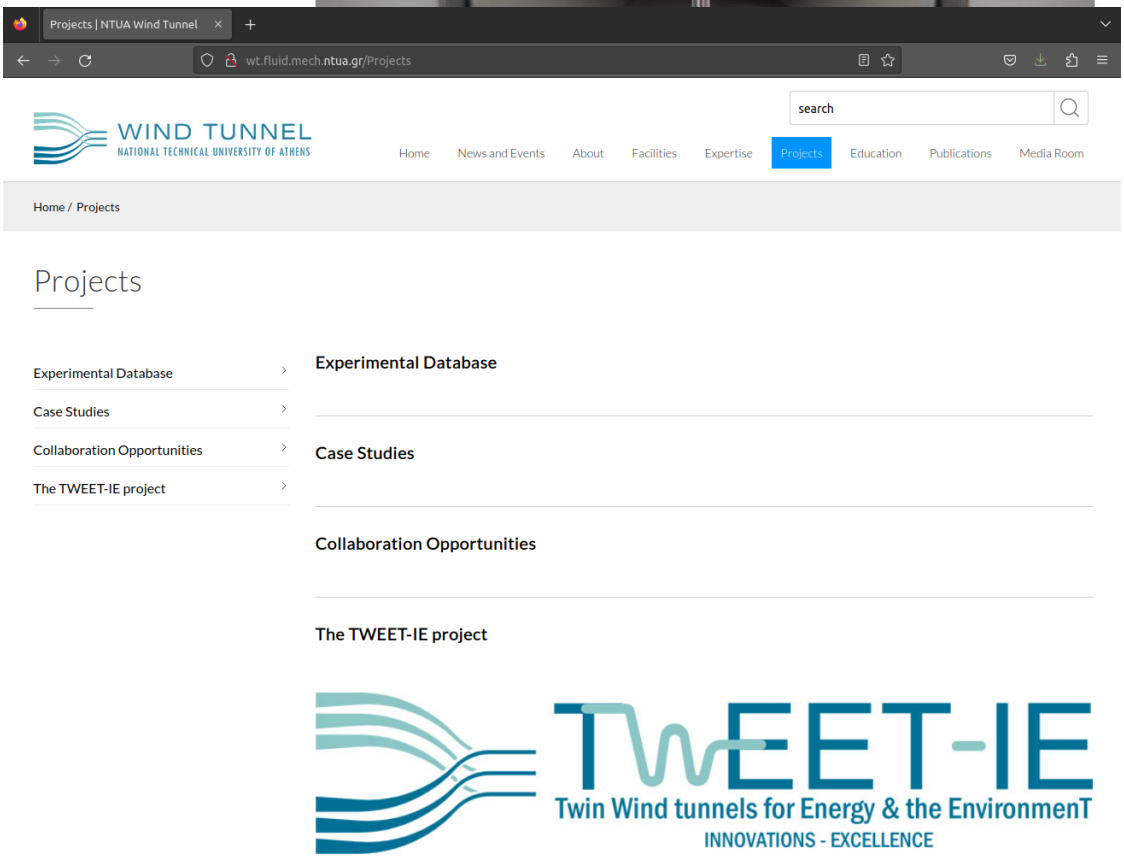

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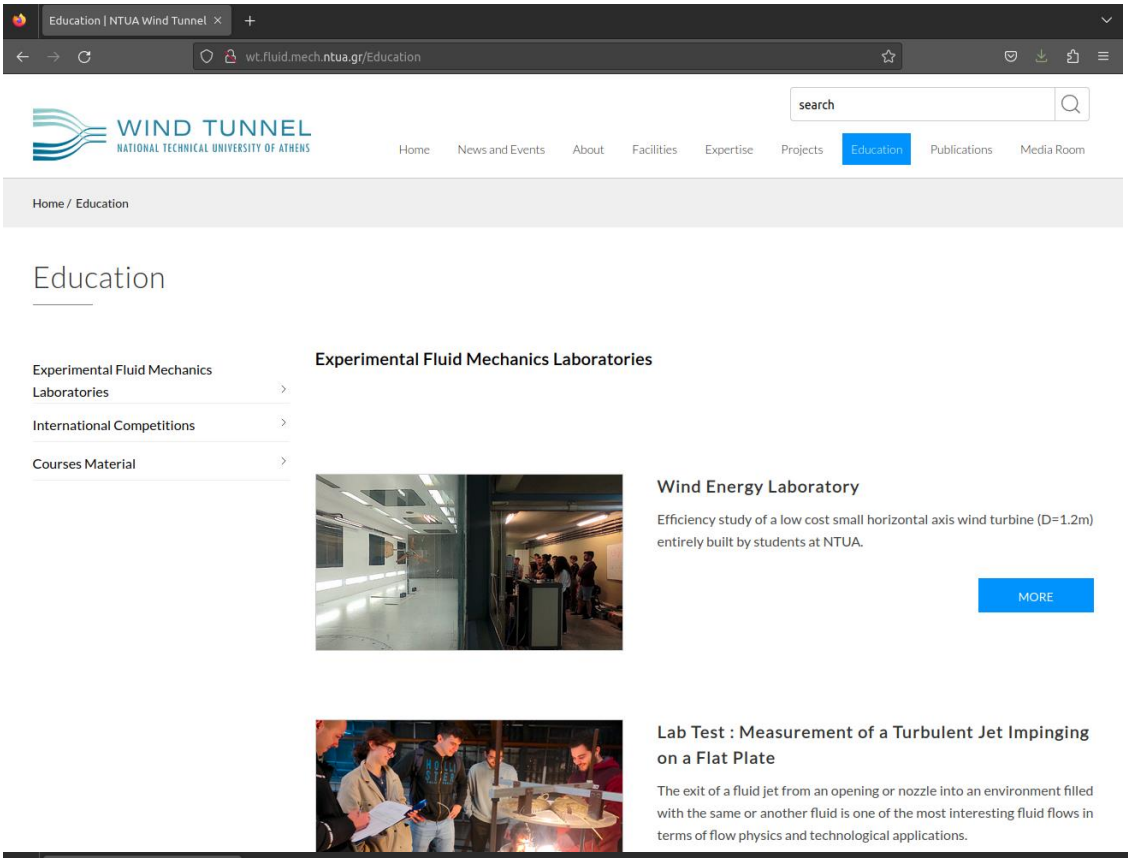

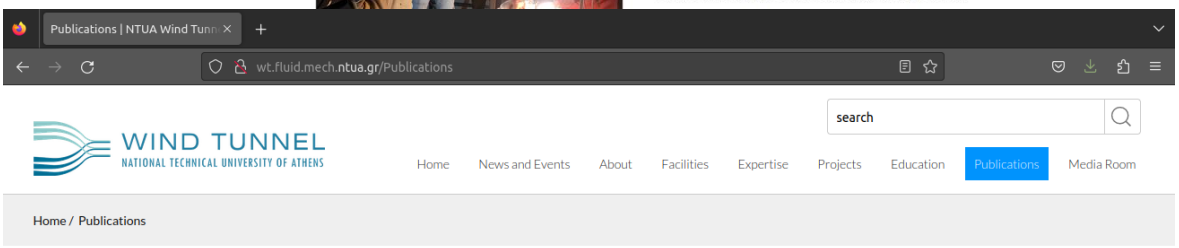

Gkiolas Dimitris. (2021). EXPERIMENTAL FLOW STUDY OF AN OSCILLATING AIRFOIL, Ph.D. Thesis https://dspace.lib.ntua.gr/xmlui/handle/123456789/54698?show=full

Pappa, Vasiliki & Langidis, Apostolos & Manolesos, Marinos & Bouris, Demetri. (2019). STEREO PIV MEASUREMENTS OF VERTICAL VARIATION OF LOCAL VENTILATION RATES FOR A GENERIC BUILDING EXPOSED TO AN ATMOSPHERIC BOUNDARY LAYER. Conference: 11th International Symposium on Turbulence and Shear Flow Phenomena (TSFP11) At: Southampton, UK, July 30 to August 2, 2019 https://www.researchgate.net/publication/335464651_STEREO_PIV_MEASUREMENTS_OF_VERTICAL_VARIATION_OF_LOCAL_VENTILATION_RATES_FOR_A_GENERIC_BUILDING_EXPOSED_TO_AN_ATMOSPHERIC_BOUNDARY_LAYER

Marinos Manolesos, Zhiqiu Gao, Demetri Bouris. (2018). EXPERIMENTAL INVESTIGATION OF THE ATMOSPHERIC BOUNDARY LAYER FLOW PAST A BUILDING MODEL WITH OPENINGS. Building and Environment
Volume 141, 15 August 2018, Pages 166-181 https://doi.org/10.1016/j.buildenv.2018.05.049

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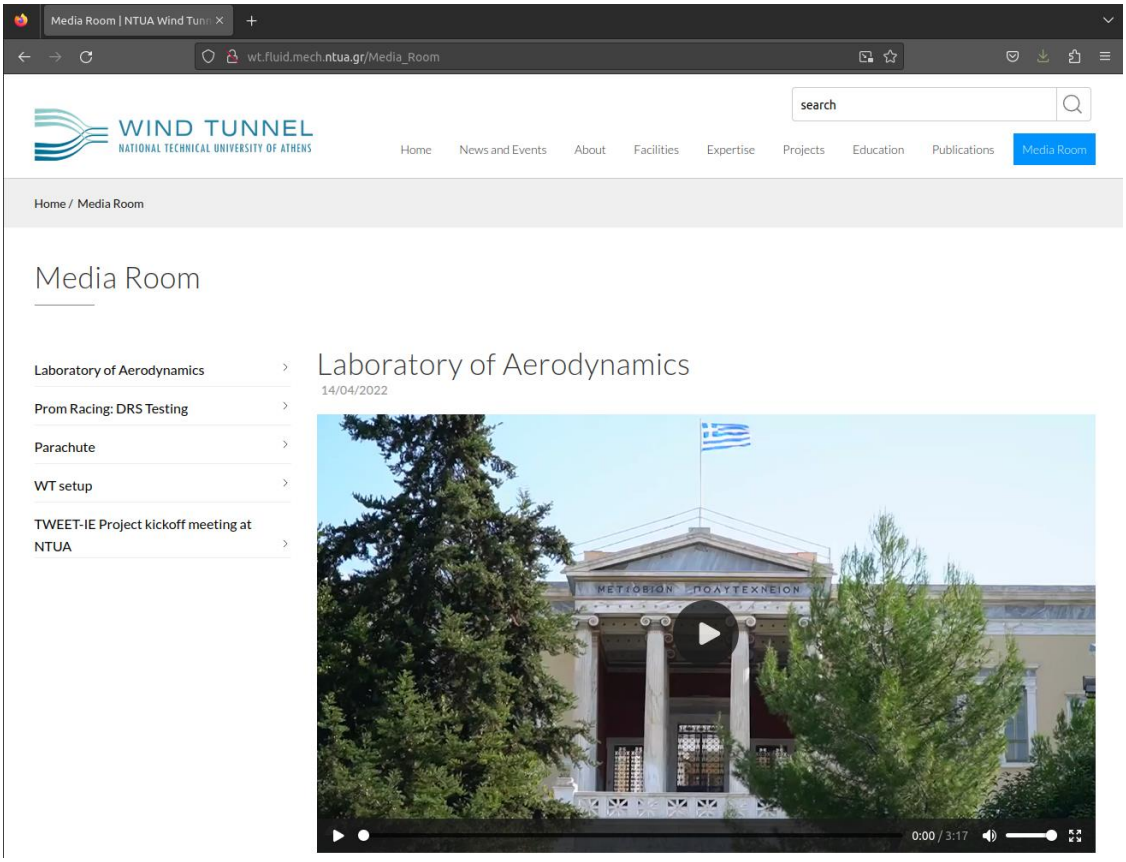

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