



Erasmus + Project No 598241-EPP-1-2018-1-RS-EPPKA2-CBHE-JP

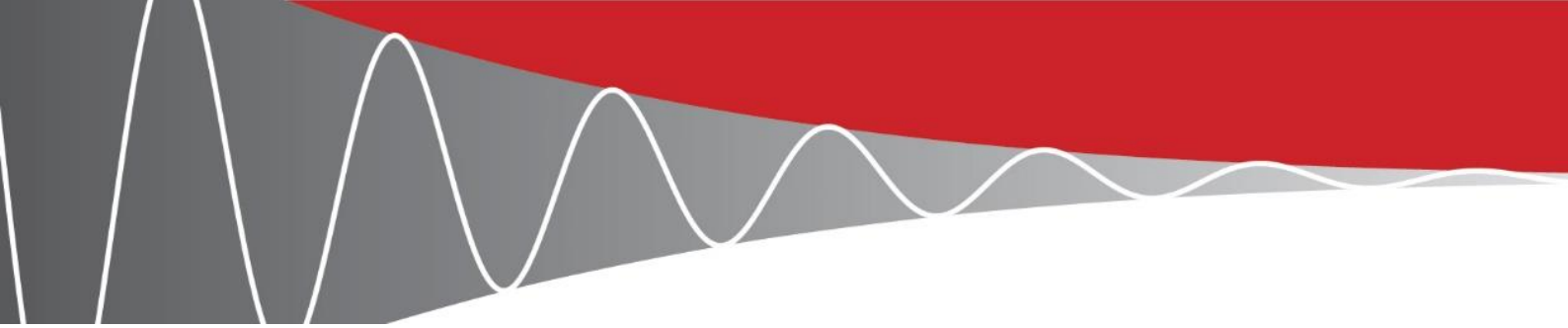
**Strengthening Educational Capacities by Building Competences and  
Cooperation in the Field of Noise and Vibration Engineering**

**S E N V I B E**

## **Establishment of the No&Vib Hub**

**Activity 6.4.**

**Date: 10/11/2020**



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## 1. INTRODUCTION

Urbanisation of settlements, technological progress and excessive population density in urban areas have resulted in the environmental noise pollution caused by the road, railway and airport traffic, industry, construction and other outdoor activities. Prolonged exposure to noise can cause serious health problems and reduced work productivity which directly results in socio-health problems and slow economic development. Considering all impacts to both living and working environment, noise and vibration management requires multidisciplinary approach and the application of legal and economic tools in order to find the most effective solutions. According to the reports of the European Commission and the World Health Organisation, noise pollution is one of the leading ecological problems in Europe. The reports of the European Commission on the progress of the Republic of Serbia for Chapter 27 - environment and climate change<sup>1</sup> in the field of noise and vibrations have indicated for years the importance of improving administrative and technical capacities in order to reach European standards.

Erasmus+ **SENVIBE project “Strengthening Educational Capacities by Building Competences and Cooperation in the Field of Noise and Vibration Engineering”**, financed by the European Commission (No. 598241-EPP-1-2018-1-RS-EPPKA2-CBHE-JP)<sup>2</sup> is a three-year project which commenced in 2018 with the global aim to improve capacities in the field of noise and vibrations in Serbia. The project defines four fundamental pillars whose implementation would set secure basis for further development in this field in Serbia. The modernisation of educational programmes in the field of noise at engineering departments and the introduction of a new master programme of vibro-acoustic engineering would set the staff basis that would adequately respond to the challenges in this field. Furthermore, LLL course is very important, that is “lifelong learning”, whose aim is to improve the current capacities in the government, economic, expert and professional and non-governmental sectors, which will be designed according to the tailor-made model by professionals in line with the expressed needs.

The fourth pillar of SENVIBE project which is implemented through the working package 6 is to establish the **“No&Vib Hub SENVIBE platform for noise and vibration”**<sup>3</sup>- a common central unit for networking academic and non-academic institutions in the

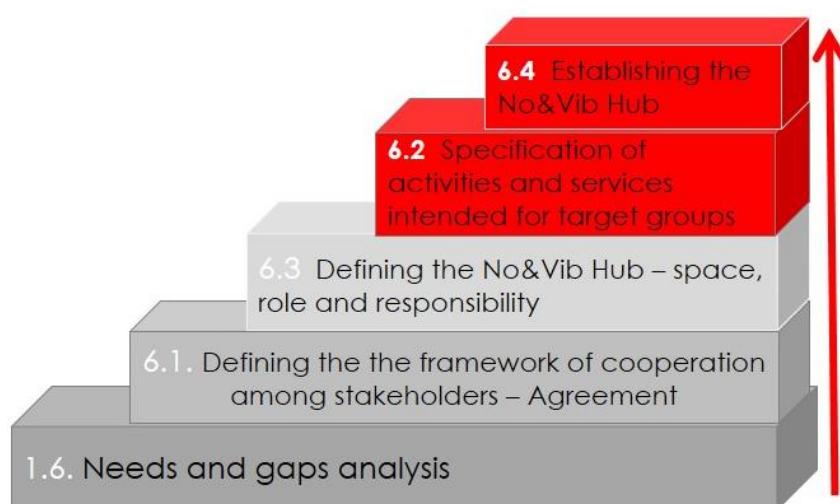
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<sup>1</sup><http://www.pregovarackagrupa27.gov.rs/dokumenti/>, accessed on 11.3.2020.

<sup>2</sup><https://senvibe.uns.ac.rs/>, accessed on 11.3.2020.

<sup>3</sup><https://senvibe.uns.ac.rs/novib-hub>, accessed on 11.3.2020.

field of noise and vibration. This unit has been established as a virtual platform at the University of Novi Sad for launching and facilitating strategic cooperation among the key stakeholders engaged in the field of noise and vibration. (Abbr. No & Vib). Based on the sectoral policies, competences and fields of business/interest, stakeholder institutions are divided into five sectors: education and research sector, government sector, business sector, professional sector and expert services groups and non-governmental sector.



**Figure 1.** The process of establishing No&Vib Hub within SENVIBE project

Due to its complexity and basic idea, the implementation of the working package 6 of SENVIBE project took place in several phases during the first two project years (Figure 1):

1. Preparatory phases within the working package 1 (Report 1.6<sup>4</sup>), which, on the basis of the conducted surveys on institutional, technical and staff capacities in the Republic of Serbia, set the grounds for establishing SENVIBE virtual platform for noise and vibration No&Vib Hub, defining the framework of cooperation

<sup>4</sup>[https://senvibe.uns.ac.rs/wp-content/uploads/2019/04/SENVIBE\\_Report\\_Task1.2\\_version-2.0forOpenMatters16April20191.pdf](https://senvibe.uns.ac.rs/wp-content/uploads/2019/04/SENVIBE_Report_Task1.2_version-2.0forOpenMatters16April20191.pdf), accessed on 11.3.2020.



among stakeholders (AGREEMENT<sup>5</sup>) and distribution of roles and responsibilities of all entities in the No&Vib Hub.

2. The first phase of the working package 6, Task 6.1 refers to defining the Agreement on Establishing a Virtual Cooperation Platform in the Field of Environmental and Human Health Protection against Detrimental Effects of Noise and Vibrations (hereinafter Agreement) between the University of Novi Sad and the entities from the Government sector, Education and research sector, Business sector, Professional sector and expert services groups and Non-governmental sector. The Agreement has set the formal basis for cooperation among the entities from these sectors as well as No&Vib Hub joining procedures (subject and goal, rights and obligations of the parties to the agreement, establishing and monitoring the execution of the agreement, special agreements and final provisions). The first Agreement on establishing the common platform was signed on 11.3.2020. between the University of Novi Sad and PSUPEP, followed by 38 more Agreements with partner institutions and stakeholders. Although the project proposal stated the minimum of 15 signed Agreements as an indicator of success, by the time of writing the report, there have been 39 signed Agreements, which proves the level of interest and a need for such unit.
3. SENVIBE Task 6.3 was followed by the activities of creating a bilingual virtual platform<sup>3</sup> in Serbian and English, creating a logo, e-mail address, defining space, roles and responsibilities which are described in Report 6.3<sup>6</sup> in more detail.

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<sup>5</sup>[https://senvibe.uns.ac.rs/wp-content/uploads/2020/03/SENVIBE\\_NoVibHub\\_Sporazum\\_novi-clan-71.pdf](https://senvibe.uns.ac.rs/wp-content/uploads/2020/03/SENVIBE_NoVibHub_Sporazum_novi-clan-71.pdf), accessed on 11.3.2020.

<sup>6</sup><https://senvibe.uns.ac.rs/2020/11/09/defining-the-novib-hub-space-roles-and-responsibilities-9-november-2020/>, accessed on 11.3.2020.



## 2. KICK-OFF MEETING

On 10 November 2020, the kick-off meeting of the members and deputies of the No & Vib Hub Coordination Body, was held via the Microsoft Teams platform, due to epidemiological situation caused by the Covid -19 virus. SENVIBE Project Coordinator and Head of the Coordination Body, professor Ivana Kovačić PhD prepared the online opening ceremony of the No & Vib Hub ([Annex 1](#)), which included the participation of the Coordination Body members, nominated by their institutions.

After that, the meeting continued, according to the adopted Agenda ([Annex 2](#)). An analysis of the implemented activities that preceded the establishing of the No & Vib Hub (Report 6.1<sup>7</sup> and Report 6.3<sup>6</sup>) was conducted and a presentation was held, concerning the ICT platform and its performance, which together with the virtual platform website, will make the information about the programme and activities within the No & Vib Hub available([Annex 3](#)).

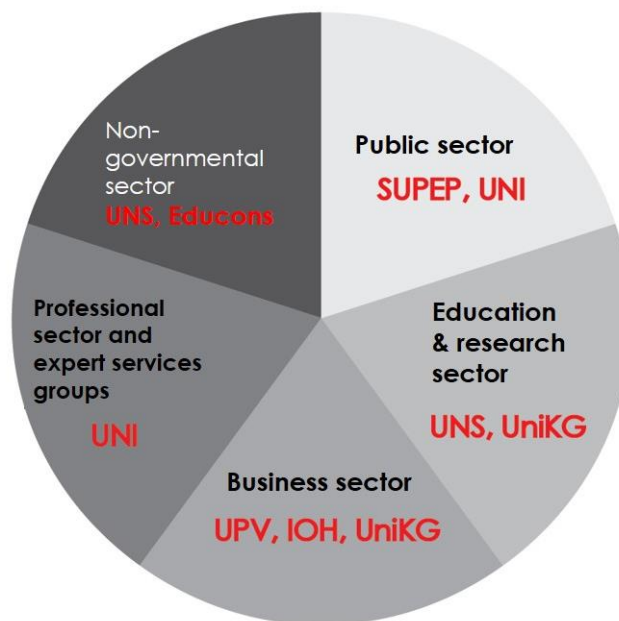
As the basic mission of the No & Vib Hub is to build and further develop mechanisms for various forms of cooperation of all stakeholders, it is necessary to establish a strong link between the education-scientific, administrative, business and non-governmental sector and thus ensure the existence of a central point in the field of noise and vibration in the Republic of Serbia, which will continue to develop even after the formal completion of the Project.

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<sup>7</sup>[https://senvibe.uns.ac.rs/wp-content/uploads/2020/03/SENVIBE\\_Report\\_6-1\\_FINAL.pdf](https://senvibe.uns.ac.rs/wp-content/uploads/2020/03/SENVIBE_Report_6-1_FINAL.pdf), accessed on 11 March 2020.

### 3. DIVISION OF COMPETENCES

During the preparation period, stakeholders showed different interests through participation in the No & Vib Hub, of which particularly important are: the possibility of capacity building in the areas of noise and vibration, through professional development programmes for different types of trainees, exchange of knowledge and information on related topics and legislation, implementation of joint projects, realisation of internship for students, as well as conception of proposed topics for master's thesis of students. In order to professionally and efficiently meet the expectations of stakeholders, at the kick-off meeting of the No & Vib Hub Coordination Body, the division was made of members' competences by individual sectors, as shown in **Figure 2**.



**Figure 2.** Division of competences by institutions and sectors in the No & Vib Hub

Each partner is obliged to conceptualise a proposal of activities that are of interest to the sector for which he/she is responsible. The realisation of the proposed activities is planned for every six- months period, which includes the use of equipment and teaching materials provided with funds from the SENVIBE Project. After that period, the Coordination Body reviews the level of success of the implementation and considers new proposals for activities for the following six-month period.



## 4. CONCLUSION

This Report gives the overview of activities and competences related to establishing of the **No&Vib Hub SENVIBE platform for noise and vibration** - a common central unit for networking academic and non-academic institutions in the field of noise and vibration. This unit has been established as a virtual platform at the University of Novi Sad for launching and facilitating strategic cooperation among the key stakeholders engaged in the field of noise and vibration. Based on the sectoral policies, competences and fields of business/interest, stakeholder institutions, interested in joining the Hub, have been divided into five sectors: education and research sector, government sector, business sector, professional sector and expert services groups and non-governmental sector. **The No & Vib Hub has a Coordination Body, whose members were appointed institutionally before the founding session and they attended the session.** At the founding session, the division was made of the competences of the representatives of individual institutions from the Coordination Body by the mentioned sectors.

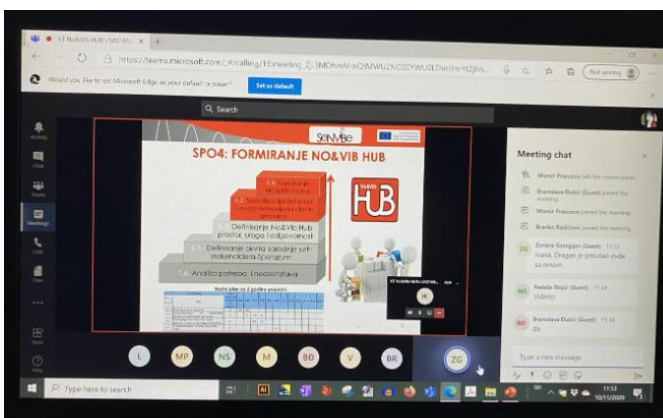
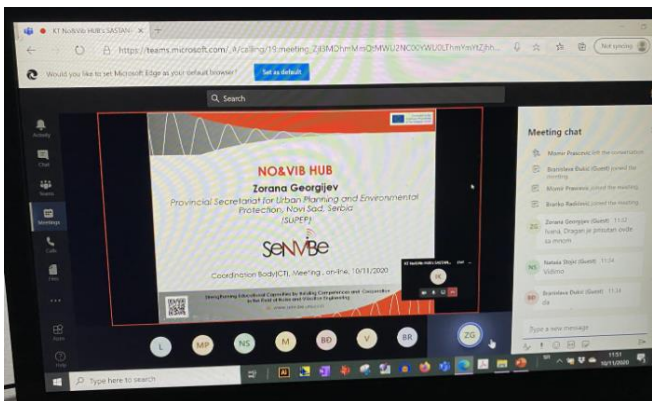
The upcoming activities will be focused on creating a work programme of the No & Vib Hub, including the specification of the activities for individual sectors.

The established synergy of the academic and non-academic public through the realisation of joint project ideas in the No & Vib Hub, should have a multiple impact on improving the situation in this area, not only during the project, but also after its formal completion. The No & Vib Hub will continue to expand the network of all stakeholders, who will there find the basis for strengthening its educational and business capacities in this area.



## ANNEXES

### Annex 1 On-line opening ceremony of No&Vib Hub: screen-shots





## **ANNEX 2 AGENDA FOR THE FIRST MEETING OF NO&VIB HUB COORDINATION BODY**

Erasmus + Project No 598241-EPP-1-2018-1-RS-EPPKA2-CBHE-JP

**Strengthening Educational Capacities by Building Competences and Cooperation in the Field of Noise and Vibration Engineering**

**S E N V I B E**

**1st meeting of No&Vib Hub Coordination Body**

**Tuesday, 10th November 2020**

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### **Agenda**

Venue: on-line meeting (Microsoft Teams Platform)

From 11.30 AM

1. Opening remarks, *UNS*
2. Basic information on No&Vib Hub (identity, Agreements, Coordination body, signatories, procedures), *PSUSEP*
3. Digital No&Vib Hub: on SENVIBE website and SENVIBE platform, *UNS*
4. Coordination body: work, organisation, distribution of roles, *everybody*
5. SENVIBE Task 6.2: Activities, programmes and services for students and public, *everybody*
6. Miscellaneous

## ANNEX 3 ICT PLATFORM - INFORMATION ON THE EDUCATIONAL PROGRAMMES AND ACTIVITIES OF NO&VIB HUB

The image shows two screenshots of the No&Vib Hub website. The top screenshot displays the search results for 'No&Vib Hub' courses, listing several lecturers: Dragan Djurica, Branislava Đukić, Zorana Georgijev, Ivana Kovačić, Ivan Lomen, Momir Prašević, Branko Radičević, Nataša Stojić, and Miljana Stojić-Stojanovska. A large No&Vib HUB logo is visible on the right. The bottom screenshot shows the 'OPŠTE INFORMACIJE' (General Information) page, which includes a list of sectors: obrazovno-istraživački sektor, državni sektor, privredni sektor, stručno-profesionalni sektor, and nevladin sektor. It also mentions the platform's affiliation with the University of Novi Sad and the e-SENVICE project. A navigation menu on the right lists: KOORDINACIJA I MENADŽMENT, DISEMINACIJA, OBRAZOVNO-ISTRAŽIVAČKI SEKTOR, DRŽAVNI SEKTOR, PRIVREDNI SEKTOR, STRUČNO-PROFESIONALNI SEKTOR, NEVLADIN SEKTOR, Activities for students, and Activities for wider society.

**No&Vib Hub**

Početna stranica / Kursevi / No&Vib Hub

Kategorije kurseva: No&Vib Hub

Pretraži kurseve

**No&Vib Hub**

Predavač: Dragan Djurica  
Predavač: Branislava Đukić  
Predavač: Zorana Georgijev  
Predavač: Ivana Kovačić  
Predavač: Ivan Lomen  
Predavač: Momir Prašević  
Predavač: Branko Radičević  
Predavač: Nataša Stojić  
Predavač: Miljana Stojić-Stojanovska

**No&Vib HUB**

**No&Vib Hub**

Početna stranica / Moji kursevi / No&Vib Hub

**OPŠTE INFORMACIJE**

**No&Vib Hub** je centralna jedinica osnovana kao virtualna platforma na Univerzitetu u Novom Sadu radi poticanja i održavanja stalne saradnje između ključnih aktera angažovanih na polju buke i vibracije (eng. Noise & Vibration, skrać. No & Vib) iz sledećih akademskih i neakademskih sektora:

- obrazovno-istraživački sektor,
- državni sektor,
- privredni sektor,
- stručno-profesionalni sektor,
- nevladin sektor.

Platforma **e-SENVICE** sačinjava i realizuje se kroz Erasmus+ projekat „Jačanje obrazovnih kapaciteta izgradnjom kompetencija i saradnje u oblasti inženjerske buke i vibracije“ (Strengthening Educational Capacities by Building Competences and Cooperation in the Field of Noise and Vibration Engineering).

**KOORDINACIJA I MENADŽMENT**

- Saopštenja
- Dokumenta

**DISEMINACIJA**

**OBRAZOVNO-ISTRAŽIVAČKI SEKTOR**

**DRŽAVNI SEKTOR**


**PRIVREDNI SEKTOR**

**STRUČNO-PROFESIONALNI SEKTOR**

**NEVLADIN SEKTOR**

**Activities for students**  
Activities for students

**Activities for wider society**  
Activities for wider society



**Prepared by Zorana Georgijev  
Novi Sad, 4/3/2021**

**Contribution by Ivana Kovačić  
Novi Sad, 10/11/2020**

**Approved by the Quality Assurance Group Leader  
Sremska Kamenica, 11/11/2020**

**Approved by Project Coordinator  
Novi Sad, 11/11/2020**

**Approved by Steering Committee  
Web-based meeting, 07/5/2021**

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