**Project Partner Search Form**

[x]  I offer my expertise to participate as a Partner in a Horizon Europe Project

[x]  I am planning to coordinate a project and I am looking for Project Partners

**TOPICS OF INTEREST**:

HORIZON-JU-IHI-2024-08-01-two-stage: A city-based approach to reducing cardiovascular mortality in Europe. This is also relevant to us, because sleep apnea is classified as a cardio-vascular condition which also has many cardio-vascular comorbidities.

**PARTNER INFORMATION**

#### Background

SharkBiit is developing AI-driven platform to empower general dentists in the diagnosis and treatment of Obstructive Sleep Apnea (OSA) during routine dental visits. Leveraging AI-assisted analysis of Cone Beam Computed Tomography (CBCT) images, a readily available and cost-effective imaging modality, SharkBiit identifies anatomical factors contributing to upper airway obstruction. This facilitates personalized treatment planning, including oral appliance selection and adjustment, as well as recommendations for alternative OSA therapies. The platform's intuitive 3D visualizations enhance patient engagement and comprehension, while providing practitioners with powerful, user-friendly tools.

#### Value Proposition and Addressing Expected Outcomes

* **OSA and Cardiovascular Disease**

OSA is recognized as a significant risk factor for cardiovascular disease. The intermittent hypoxia and sleep fragmentation associated with OSA contribute to hypertension, oxidative stress, inflammation, and endothelial dysfunction, all of which promote the development and progression of cardiovascular disease. The high prevalence of undiagnosed OSA significantly impacts the spread of cardiovascular conditions. Untreated OSA increases the risk of developing hypertension, heart failure, coronary artery disease, stroke, and cardiac arrhythmias. Early detection and treatment of OSA are crucial in mitigating these cardiovascular risks and improving overall health outcomes.

* **Early Detection and Personalized Treatment**

By integrating OSA screening into routine dental care, SharkBiit enables early detection and personalized treatment, aligning with the program's focus on preventive measures and improved disease management.

* **Enhancing Healthcare Provider Capabilities**

SharkBiit equips healthcare providers (dentists) with tools and knowledge to effectively manage OSA, contributing to updated, evidence-based guidelines and efficient clinical pathways.

* **Digital Solutions and Data-Driven Approach**

The platform's AI-driven analysis and 3D visualizations leverage digital technology for early detection and monitoring, aligning with the program's emphasis on digital therapies and data-driven CVD risk management.

* **Improved Patient Outcomes and Access**

SharkBiit's focus on patient engagement and personalized treatment plans enhances patient outcomes and access to innovative interventions, aligning with the program's goal of improving patient outcomes and access to the technology, efficient CVD management and prevention.

* **Healthcare System Integration**

SharkBiit's innovative AI-driven platform offers a unique and effective solution for addressing the challenges of OSA and its associated cardiovascular risks. By integrating OSA management into routine dental care, SharkBiit has the potential to significantly impact public health outcomes, aligning with the program's goals of reducing cardiovascular mortality and improving overall well-being.

**Description of the Legal Entity**

[ ]  Higher Education [ ]  Research Institution [ ]  Public Administration

[x]  Industry /SME [ ]  NGO [ ]  Other: ***Please specify***

**Description of the (Research) Team**

SharkBiit's team comprises a blend of professionals with expertise in dentistry, medical imaging, AI, and business strategy. The co-founders, Dr. Jenny Chernobelsky, DMD, MBA, and Oleg Kuybeda, PhD, bring a unique combination of clinical, entrepreneurial, and technical skills. Dr. Chernobelsky has extensive experience in dental surgery and healthcare innovation, while Dr. Kuybeda has a strong background in AI and medical imaging. They are supported by a team of advisors, including experts in sleep dentistry, and a team of engineers and researchers.

**Expertise of the Team Leader**

Dr. Jenny Chernobelsky, DMD, MBA, and Oleg Kuybeda, PhD, are the visionary leaders and co-founders of SharkBiit. Dr. Chernobelsky, with her extensive experience in dental surgery and healthcare innovation, brings a deep understanding of clinical needs and patient care to the team. Dr. Kuybeda's expertise in AI and medical imaging has been instrumental in developing SharkBiit's cutting-edge technology. Together, they form a dynamic and complementary leadership duo, driving SharkBiit's mission to revolutionize OSA diagnosis and treatment.

**Potential role in the project**

[x]  Research [x]  Training

[x]  Dissemination [ ]  Other: ***Please specify***

Already experience as a Coordinator [ ]  YES [x]  NO

 Partner [ ]  YES [x]  NO

 Expert Evaluator [ ]  YES [x]  NO

**CONTACT DETAILS**

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