Electrical Engineering Faculty - driving innovation in the EVOSST project

The **EVOSST project** (Evaluation and Valorization of Social Services for a Sustainable Transition) represents a pioneering initiative funded under the Horizon Europe Programme, focusing on optimising social services through cutting-edge analysis and policy development. At the heart of this ambitious project, the **National University of Science and Technology POLITEHNICA Bucharest (POLITEHNICA)** through Electrical Engineering Faculty is taking a central role, leading Work Package 2 (WP2): *Lifecycle Impact Analysis with Dynamic Modelling*.

WP2 is critical to the EVOSST project's overarching aim of improving social services by harnessing data-driven decision-making to guide sustainable transition. Under POLITEHNICA's leadership via Electrical Engineering Faculty, this work package aims to develop a robust dynamic modelling framework capable of accurately assessing the lifecycle impacts of various social services. The scope of this task encompasses sophisticated methodologies, including big data analytics, longitudinal studies, and integration of heterogeneous data streams to model complex social service interactions effectively.

A cornerstone of the faculty's strategy within WP2 is the continuous collaboration with multiple international partners, reflecting the interdisciplinary ethos of the EVOSST consortium. Participants including UOWM, RDF, Z-PLUS, SM, iSPRINT, and E-ARC are actively involved, ensuring the developed models reflect real-world complexities and are sensitive to diverse stakeholder needs. The approach prioritises transparency and accessibility, making advanced analytical outcomes usable for policymakers, social service providers, and the broader public. To this end, they emphasise the need for robust risk management protocols and transparent methodologies, addressing common barriers such as incomplete data records and avoidance among policymakers towards embracing complex analytical tools.

Through this strategic leadership of WP2, POLITEHNICA is not only contributing to the EVOSST project but also transforming Europe's social service landscape through innovation, collaboration, and rigorous scientific inquiry.