



TWIN4DEM

# PRESS RELEASE

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## TWIN4DEM Project Completes First 6 Months: A Strong Start Towards Strengthening Democratic Resilience

At a time when **executive aggrandisement**—the gradual concentration of power in the hands of elected leaders—challenges the democratic fabric of several European countries, TWIN4DEM pioneers the use of digital twin (DT) technology in political science research. Digital twins—precise virtual replicas of real-world systems—will be developed for **four European democracies**: Czechia, France, Hungary, and the Netherlands.

During this initial phase, the project has:

- ✓ Launched the **first online focus group**, bringing together policymakers and civil society organisations to co-design the development of the digital twins and ensure societal relevance.
- ✓ Initiated **data collection** for textual (legal texts, parliamentary debates, social media) and non-textual (survey, socio-economic, and institutional) data that will feed into the simulation models.
- ✓ Started the development of cutting-edge **multilingual natural language processing (NLP) tools**, tailored to detect early signs of executive power concentration in legal and political discourse.
- ✓ Delivered a **first toy model of the Digital Twin**, outlining its architecture, key technologies, and inputs.

The project aims to deliver four digital twin prototypes, an open-source methodological toolbox, and policy recommendations by the end of its 36-month duration. It also places a strong emphasis on ethics, data protection (GDPR), and inclusivity, especially regarding gender and minority representation.



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