

# Partners



## PROJECT TIMELINE:

**Starting Date:** 1 January 2025

**End Date:** 31 December 2027

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## Strengthening Democratic Resilience Through Digital Twins

*What if technology and social science could secure our democracies?*



## AIM OF TWIN4DEM:

Enhance democratic resilience by leveraging Digital Twin (DT) technology and Computational Social Sciences (CSS) to analyze, predict, and prevent democratic backsliding. By creating four digital twin prototypes of European democratic systems, the project provides a cutting-edge approach to monitoring and countering threats to democracy.

## KEY OBJECTIVES:

- ✓ Develop a new agent-based framework to identify causes of democratic decline.
- ✓ Prototype Digital Twins for four European countries (Czechia, France, Hungary, and the Netherlands).
- ✓ Pilot innovative cross-cutting tools to analyze democratic processes in real-time.
- ✓ Provide policy recommendations on scaling up CSS methods in democracy research.

## APPROACH:

- Analyze executive power concentration and democratic vulnerabilities.
- Develop multilingual Natural Language Processing (NLP) tools to detect political trends.
- Aggregate and synthesize textual and non-textual data for real-time democratic monitoring.
- Simulate policy scenarios in a participatory and inclusive manner.

Four Pilots TWIN4DEM prototypes Digital Twins in four key European democracies, each representing different institutional frameworks and democratic challenges:



Czechia - Examining institutional stability and executive constraints.



France - Analyzing power dynamics in a semi-presidential system.



Hungary - Investigating democratic backsliding and governance challenges.



Netherlands - Evaluating resilience in a stable parliamentary democracy.

## EXPECTED IMPACTS:

- Innovative Policy Tools: Digital Twins will help policymakers simulate and test governance reforms.
- Enhanced Democratic Monitoring: Improved understanding of threats to democracy through advanced analytics.
- Stakeholder Engagement: Active involvement of policymakers, civil society, and researchers in co-developing solutions.
- Ethical & Fair AI Use: Ensuring transparency, accountability, and compliance with EU regulations (GDPR, AI Act).