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# Partner Search Form

## Horizon Europe Health | IRSFP | PSI-VALID

**Date:** 20 October 2026 | **Partner-search deadline:** not specified.

### Contact

**Organisation:** Institute for Resonant Synthesis and Field Physics (IRSF). **Department:** not specified.

**Registered legal name:** Institut rezonanční syntézy a fyziky polí, z. ú. | **Registration number:** 30116368.

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**City / Country:** Prague / Czech Republic | **Website:** [www.irsfp.org](http://www.irsfp.org)

**Organisation type:** Other - Czech registered institute (z. ú.). **SME status:** not declared. **Number of employees:** 0; research team being recruited.

### Expertise / Commitment offered

**Short introduction / research areas:** Newly established independent institute developing research on dynamic stability and complex systems. The Health contribution builds on the published retrospective Physiological Stability Index (PSI) study of open ICU data. PSI-VALID proposes a separate evaluation in chronic non-communicable disease, with chronic heart failure as an initial use case for discussion. Added predictive value for this use case remains to be established.

**Former participation in an FP European project:** No. **Project title / acronym and activities performed:** Not applicable.

**Description of expertise / proposed contribution:** Operational definitions of stability indicators; reproducible time-series analysis; comparisons with clinical, statistical and machine-learning baselines; validation documentation. Delivery roles, staffing and resources must be agreed with experienced partners; the research team and project financing are not yet secured.

**Keywords:** Physiological time series; predictive biomarkers; relaxation dynamics; reproducibility; external validation.

**Commitment offered:** Research; methodological development; reproducibility and dissemination. **Project type sought:** Research & Innovation Action (RIA).

### Work Programme research areas

**Area:** Cluster 1 - Health. **Call topic:** HORIZON-HLTH-2027-02-TOOL-01-two-stage - Development of predictive biomarkers of disease progression and treatment response by using AI methodologies for chronic non-communicable diseases.

**Possible contribution:** Co-develop prespecified indicator definitions and benchmark code; support patient-level and temporal validation, calibration, uncertainty and robustness analyses. The clinical question, available measurements and independent validation cohort will be defined with partners.

**Other partners for this topic:** None confirmed. Seeking a bounded methodological role in a consortium led by an experienced coordinator.

### Profile of partner sought

**Roles:** Coordination; clinical/data contribution; methodological research and independent validation. **Country / region:** Any eligible partner country.

**Expertise required:** Experienced Horizon Europe coordinators; clinical teams with suitable longitudinal data and independently defined outcomes; biostatistics, physiological time-series and AI researchers. Cohort access and the scientific lead are not yet secured.

### Background publication

Petrášek, M. (2026). Physiological Stability Index (PSI): A Retrospective Computational Framework for Assessing Dynamic Physiological Instability (v1.0). Zenodo. Preprint. <https://doi.org/10.5281/zenodo.23507993>

**I agree with the publication of my contact data:** YES - name, role and professional email for partner-search purposes.