

# Funding Inquiry: Platform Infrastructure for Proven Municipal Innovation Pilot

Regionens Nervsystem - TAK-405 & GGF Platform Development

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**Ämne:**

Funding Request - Technical Infrastructure for TAK-405 "Regionens Nervsystem" & Future Municipal Pilots

**Datum:**

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**Executive Summary:** We submitted **TAK-405 "Regionens Nervsystem"** to Region Stockholm in December 2024 - a concrete pilot integrating psychological resilience infrastructure into Stockholm's public transit system. The proposal addresses **3+ billion SEK in annual stress-related costs** while meeting MSB's totalförsvar requirements for psychological resilience. We are now seeking Vinnova funding to develop the underlying technical platform that will enable TAK-405's implementation and future municipal innovation pilots across Sweden.

## THE PROVEN CONCEPT: TAK-405

### Problem

Region Stockholm faces a systemic inefficiency - paying twice for the same citizens:

- First for stress-inducing commute infrastructure (Trafiknämnden)
- Then for stress-related healthcare (Hälso- och sjukvårdsnämnden)
- Annual costs: **3+ billion SEK** in stress-related sick leave

### Solution - 4 Concrete Interventions

## 1. Vila-vagnen

Designated recovery spaces on Roslagsbanan (low-traffic hours). Passive design: dimmed lighting, natural soundscapes, priority seating for rest.

## 2. Återhämtningslinjen

Biophilic design on Stombuss 172/173 (Järva/Söderort). Living plants, circadian lighting - equity focus for suburban commuters.

## 3. Friskvårdspunkter

Digital incentives via SL-app for walking last stop (Hearts earning). Peak shaving without new infrastructure.

## 4. 7-minutersregeln

Subtle timing adjustments to activate parasympathetic nervous system. Perfect A/B test - zero cost.

## External Funding Strategy

### External Funding (80%)

- MSB (Psykologiskt försvar): 40%
- EU Wellbeing Economy: 40%

### Regional Share (20%)

- Innovation Fund: 15%
- Knowledge Partners: 5%

**Status:** Submitted to Region Stockholm, December 2024

**Municipal Cost:** Budget-neutral (80% externally funded)

**Strategic Alignment:** MSB totalförsvar doctrine (2024:1032) requires psychological resilience

## Why This Matters

- **Budget-neutral** for Region Stockholm (externally funded)
- **Measurable outcomes** via academic partnerships (KI/KTH/SU)
- **Alignment with totalförsvar** (MSB doctrine requires psychological resilience)
- **Scalable model** for other Swedish regions facing similar challenges

## THE GAP: TECHNICAL INFRASTRUCTURE

TAK-405 demonstrates **demand for systemic municipal innovation**, but current digital infrastructure cannot support it. The pilot requires:

### Technical Capabilities Needed

- Privacy-preserving citizen data management (GDPR-compliant)
- Verifiable activity tracking (for Hearts/Friskvårdspunkter incentives)
- Municipal system integration (without replacing existing infrastructure)

- Offline resilience (critical for totalförsvar scenarios)
- Transparent governance (citizen trust in data usage)

## Current Options Inadequate

### Commercial Platforms

Data sovereignty concerns, vendor lock-in, incompatible with Swedish public sector requirements.

### Traditional Municipal IT

Too rigid, slow procurement cycles, not designed for innovation pilots.

**What's Needed:** A reusable, open-source municipal innovation platform that enables TAK-405 and future pilots without reinventing infrastructure each time.

## THE SOLUTION: GGF PLATFORM INFRASTRUCTURE

**Global Governance Frameworks (GGF)** provides the missing technical layer - a "Parallel Operating System" for municipal innovation that runs alongside (not replacing) existing infrastructure.

### Technical Readiness: TRL 4-5 (Validation Stage)

- **Hybrid Architecture:** Holochain (agent-centric data sovereignty) + PostgreSQL (municipal integration)
- **Privacy-First:** No central identity database, Web of Trust model
- **Offline-Capable:** Functions during internet disruptions (totalförsvar requirement)
- **Modular Design:** Reusable components for diverse municipal use cases

### Immediate Application - TAK-405

- Hearts currency for Friskvårdspunkter incentives
- Verified activity tracking for pilot evaluation
- Integration with SL-app infrastructure
- Anonymous data aggregation for academic research

### Future Applications Beyond TAK-405

This platform enables a pipeline of municipal innovations:

### Care Work Valorization

Addressing demographic aging without expanding municipal payroll.

### Ecological Restoration Tracking

Climate adaptation with verifiable impact metrics.

### Community Resilience Networks

Crisis preparedness at neighborhood level.

### Circular Economy Activation

Local economic multiplier enhancement.

## WHY THIS MATTERS NOW: GLOBAL VALIDATION

### G20 Global Inequality Report (November 2025):

- 83% of countries face high income inequality affecting 90% of global population
- Inequality driven by **policy choices** - neoliberal deregulation, privatization, austerity
- Recommended solutions: Rewrite economic rules, expand public investment, **valorize unpaid care work**

### Peer-Reviewed Science (Nature Food, 2024):

- "Dietary change interventions must be coupled with **economic system transformation**"
- Behavioral shifts fail without structural mechanisms (Hearts currency provides this)

## Swedish Context

- **MSB Totalförsvar (2024:1032)**: Requires psychological resilience infrastructure
- **Municipal Budget Pressure**: Need for budget-neutral innovation
- **Demographic Aging**: Care gap traditional systems cannot fill
- **Digital Sovereignty**: Open-source, data-stays-in-Sweden architecture

## FUNDING REQUEST: MVP DEVELOPMENT PHASE

**Timeline:** Q3-Q4 2026 (6 months)

**Budget:** 1,500,000 SEK

## Deliverables

**Month 1-2: Core Infrastructure**

- Holochain/PostgreSQL integration framework
- GDPR-compliant data sovereignty layer
- Basic Hearts currency implementation

#### **Month 3-4: TAK-405 Integration**

- SL-app interface for Friskvårdspunkter
- Verified activity tracking (walking incentives)
- Municipal dashboard for pilot monitoring

#### **Month 5-6: Academic Research Platform**

- Anonymous data aggregation for KI/KTH/SU partnerships
- Open API for researcher access
- Documentation for future municipal adoption

#### **Success Criteria**

- Functional MVP ready for TAK-405 alpha testing (Q3 2026)
- Technical documentation enabling other municipalities to adopt
- Published architecture specifications (open source)

### **STRATEGIC ALIGNMENT WITH VINNOVA PRIORITIES**

#### **Social Innovation**

Valorizes unpaid care work, enables new forms of citizen participation in welfare provision, creates reusable infrastructure for social sector.

#### **Sustainable Transformation**

Reduces healthcare costs systemically, enables ecological restoration tracking, strengthens local resilience.

#### **Digital Sovereignty**

Open-source architecture (no vendor lock-in), data stays in Sweden, citizen control over personal data.

#### **Dual-Use Innovation**

Civilian wellness infrastructure + totalförsvar psychological resilience, crisis-ready offline capability.

### **WHY GGF / WHY NOW**

#### **Technical Readiness**

- Architecture finalized (TRL 4-5)
- Governance framework designed (7.0 AUBI revision)

- Integration strategy validated with municipal IT experts

## Market Readiness

- TAK-405 demonstrates concrete demand
- Region Stockholm already reviewing proposal
- Other municipalities expressing interest in adaptation

## Window of Opportunity

- MSB funding cycle aligns with our external funding strategy
- EU Wellbeing Economy programs actively seeking pilots
- Post-COVID municipal innovation appetite remains high

**Risk of Delay:** Without platform infrastructure, TAK-405 implementation delayed even if Region Stockholm approves. Every quarter lost = **750+ million SEK** in continued stress costs.

## NEXT STEPS

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I would welcome the opportunity to:

1. **Share detailed technical specifications** for internal review
2. **Share TAK-405 full proposal** (submitted to Region Stockholm)
3. **Discuss integration** with existing Vinnova-funded municipal innovation initiatives
4. **Explore partnership models** (funding, technical support, dissemination)

## Attachments

- Technical Architecture Overview (2-page summary)
- TAK-405 Executive Summary (submitted proposal)
- Letters of Support (municipal innovation strategists)

**In Summary:** We have a proven concept (TAK-405), identified demand (Region Stockholm), and external funding strategy (MSB/EU). **We need Vinnova support to build the reusable technical infrastructure** that makes this and future municipal innovations possible.

**The choice:** Build once, reuse everywhere. Or rebuild infrastructure for every municipal innovation.

We believe Vinnova funding can transform TAK-405 from a single pilot into a platform for Swedish municipal innovation leadership.

Vänliga hälsningar,

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