

# Municipal Work as Nature

## From friction and cross-pressure to green thriving and relational capacity

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## Table of Contents

- Executive Summary
- Chapter 1 — Why this paper? (the situation we are in)
  - 1.1 The field: The municipality is where the state meets life
  - 1.2 The field: Cross-pressure is not an argument — it is a condition
  - 1.3 Concrete object: Where friction actually lives (rework and handover)
  - 1.4 Principle: AI is not an actor. The human is.
  - 1.5 The Davos energy and the municipal response
  - 1.6 Protocol: What we offer (and what we don't offer)
  - 1.7 Risk: When AI becomes yet another layer on top of red operations
  - 1.8 Overview
  - 1.9 How to read the report (three readings)
- Chapter 2 — Work as nature (work-ecology made practical)
  - 2.1 Work is a field — not a queue
  - 2.2 Concrete object: Capacity is not "time" — it is judgment in a body

- 2.3 Rhythms: The pulse of operations (and what happens when it is disturbed)
- 2.4 Load: When humans become the buffer (the service budget ceiling effect in practice)
- 2.5 Nourishment: What makes a field green?
- 2.6 Artifact: Green/yellow/red as field indicator (not HR)
- 2.7 The repairable municipality
- 2.8 Transition to next chapter
- Chapter 3 — Flow · Friction · Sensitivity (the triad that makes the field speakable)
- 3.1 Why we need a triad (and not yet another framework)
- 3.2 FLOW: What moves when the municipality works
- 3.3 FRICTION: What binds capacity without creating welfare
- 3.4 SENSITIVITY: Where errors become expensive (humanly and economically)
- 3.5 Artifact: The triad as 13x13 reading (mini-template)
- 3.6 Diffusion fog and the last impulse
- 3.7 The bridge to economics: Follow the money without spreadsheet blindness
- 3.8 Transition to next chapter
- Chapter 4 — Load, morality and decency (why ethics requires capacity)
- 4.1 When operations turn red, morality becomes expensive
- 4.2 Documentation as armor
- 4.3 The relational core: welfare is an encounter
- 4.4 Decency as operational state (not as moral preaching)
- 4.5 The Last Impulse: Where responsibility must be visible
- 4.6 AI and morality: technology must not become new armor
- 4.7 Artifact: Three stop-sentences (that can be carried in operations)
- 4.8 Transition to next chapter
- Chapter 5 — The Sophia Lumen Protocol (operational practice in the municipality)
- 5.1 What is Sophia Lumen? (brief and precise)
- 5.2 Why does the municipality implement Sophia Lumen?
- 5.3 If I feel uneasy about it
- 5.4 Governance: Trust Board and stop-right

- 5.5 Responsibility and errors: Sophia can make mistakes
- 5.6 Can Sophia Lumen make decisions for citizens?
- 5.7 "Sophia Lumen must not be used against people" (what it means)
- 5.8 Sophia Lumen as operations: interventions, pilot and measurement points
- 5.9 Transition to next chapter
- Chapter 6 — The 13x13 format (shared language, field map and repeatability)
- 6.1 Why a format? (and why it is not bureaucracy)
- 6.2 13x13 as field map (what we map)
- 6.3 Artifact: 13x13 — the first three fields (the triad as start)
- 6.4 What the remaining fields do (and why there are 13)
- 6.5 13x13 and AI: support without responsibility displacement
- 6.6 Artifact: Stop buttons in 13x13 (The Last Impulse in practice)
- 6.7 What 13x13 gives the municipality (output)
- 6.8 Transition to next chapter
- Chapter 7 — Baseline - intervention - net correction (measurement logic without bullshit)
- 7.1 Why baseline is a decency rule
- 7.2 What we measure (without creating new documentation burden)
- 7.3 Intervention: small moves, not large upheavals
- 7.4 Net correction: when reality changes simultaneously
- 7.5 Artifact: Three gain forms (G1/G2/G3)
- 7.6 Risk: when measurement becomes a new friction machine
- 7.7 Artifact: Baseline card (mini-template)
- 7.8 Transition to next chapter
- Chapter 8 — Municipal economics as grammar (not just management)
- 8.1 Economics as the infrastructure of thriving
- 8.2 Service, capital and transfers (where the field can be regulated)
- 8.3 The service budget ceiling as field boundary (and why humans become the buffer)
- 8.4 Follow the money: friction as hidden budget item
- 8.5 Artifact: The municipal gain grammar (mini-model)
- 8.6 Risk: "gain" that only exists on paper
- 8.7 The bridge to practice: economics as management without hardness

- 8.8 Transition to next chapter
  - Chapter 9 — Follow the money (the baseline card that makes cases comparable)
  - 9.1 Follow the money means: follow the capacity
  - 9.2 Where friction becomes economics (the hidden costs)
  - 9.3 Artifact: Follow-the-money card (mini-template)
  - 9.4 Comparability: why cases otherwise become narratives
  - 9.5 AI's role: making the card easier, not heavier
  - 9.6 Transition to cases
  - Chapter 10 — Roadmap A: Stevns Municipality (proximity, rapid regulation, see appendix)
  - Chapter 11 — Roadmap B: Odense Municipality (scale, coordination friction and realistic reform track)
  - Chapter 12 — Roadmap C: Copenhagen (governance weight, political sensitivity and field test)
  - Chapter 13 — Cross-cutting learning (Roadmaps, not "cases")
  - Chapter 14 — Commons and reform track (scaling without consultant dependency)
  - Chapter 15 — The municipal package menu (freedom, practice and stability — with pricing logic)
  - Chapter 16 — Conclusion (an invitation that can be carried in operations)
  - Appendix A: The Sophia Lumen Protocol
  - Appendix B: Sector Appendices
  - Appendix C: Case Method and Economic Grammar
  - Appendix D: Three Case Studies
  - Appendix E: Shared Annex (copy-paste)
  - Appendix F: Planetary Guardians Offer
  - Appendix G: Stevns Municipality AI Policy (example)
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# Executive Summary

## What is the problem?

Municipalities stand in a field of cross-pressure, where economic frameworks, reform tracks, documentation requirements, recruitment and citizen complexity create an operational state that is often felt as friction.

When the task cannot disappear, and the framework tightens, the human becomes the buffer.

This manifests as:

- rework and repeated loops
- text and meeting inflation
- exhaustion and defensive professionalism
- declining relational quality in the encounter between citizen and system
- an increasing need for "armor" in writing and decisions

This is not primarily an "efficiency problem."

It is a carrying capacity problem.

## What is our response?

This report proposes a reform logic where AI is used to make municipal operations greener — without losing legal certainty, and without making humans into buffers.

We call it:

### **Municipal work as nature**

This means:

- work is a field, not a queue
- capacity is not just time, but judgment in a body
- thriving is an operational state (green/yellow/red)
- governance is field-holding, not control

## What do we concretely offer?

We do not offer a promise.

We offer a method that can go into operations.

The method is held by three moves:

- **Gold before Bloom** Green stability before development. AI must never be placed on top of red operations.
- **Baseline - intervention - net correction** No gain without baseline. No narrative without net correction.
- **The Last Impulse** The human is the last line of responsibility. Stop must be possible. Repair must be legitimate.

## What is Sophia Lumen?

Sophia Lumen is a municipal practice protocol that uses AI to reduce friction and protect relational quality — without moving responsibility away from humans.

Sophia Lumen is:

- a support function, not a measurement function
- not an IT project, but an operational protocol
- not a "tool," but a way of keeping the field green

It must not:

- be used against people
- create responsibility fog
- become a text machine
- make decisions for citizens

## What do the roadmaps (A/B/C) show?

The report contains three roadmaps in increasing complexity:

- **Roadmap A (Stevns):** proximity and rapid regulation
- **Roadmap B (Odense):** scale and coordination friction
- **Roadmap C (Copenhagen):** governance weight and political sensitivity

Roadmaps are not "cases" as proof.

They are starting fields that can be used directly by municipalities to:

- choose 1-3 task types
- create field maps (Flow · Friction · Sensitivity)
- establish baseline without new burden

- carry out small interventions that can be rolled back
- measure honestly via net correction

## **What does it mean economically?**

The report translates "work as nature" into a municipal economic grammar that can hold up to reality:

- service (operations)
- capital (anlæg)
- transfers (overførsler)
- service budget ceiling (serviceramme)
- equalization/reimbursement (udligning/refusion)
- cash/liquidity (kasse/likviditet)

And it binds economics to what often disappears in spreadsheets:

- relational quality
- carrying capacity (green/yellow/red)
- decency
- repairability

Economics is here:

## **the infrastructure of thriving**

## **How does one start?**

One does not start broadly.

One starts disciplined:

- 1 municipality
- 1-3 task types
- 4-12 weeks

One starts by making friction visible as:

- re-contacts
- rework
- handover
- meeting inflation

- sensitive escalations

And one works with three gain forms:

- **G1:** Capacity gain (time and calm in operations)
- **G2:** Avoided cost (errors, complaints, reprocessing)
- **G3:** Strategic room (political freedom of action)

## Bottom line

AI is not an actor.

The human is.

Therefore, the report's reform track is written from one hard rule:

AI may help.

But responsibility must never disappear.

And stop must be possible. And repair must be legitimate.

One day at a time.

## Commons — our concrete contribution

This material is designed as a commons: it can be used directly by municipalities, state, market and civil society.

Commons does not mean "no responsibility."

Commons means:

- stop-right
- repair
- and human line of responsibility

Here is our concrete contribution:

### 1) The Sophia Lumen Protocol (the core)

A free practice protocol for how AI can be used as support in the municipality without moving responsibility away from humans — with stop-right, repair and governance built in.

### 2) Roadmap A/B/C (operational starting fields)



Three concrete entry paths that can be copied directly by municipalities in different field realities: proximity (A), scale (B) and governance weight (C).

### **3) The Triad Flow · Friction · Sensitivity (shared language)**

A simple, operational language that makes the field speakable without losing ethics, and which can be used in both leadership, operations and economics.

### **4) The 13x13 format (repeatable field reading)**

A shared format for mapping a process, making friction visible and finding stop buttons — without creating new documentation burden.

### **5) Baseline - intervention - net correction (truth discipline)**

A measurement logic that protects the municipality from hype and "gain narratives" and makes effects comparable in reality's noise.

### **6) Gold before Bloom (safety rule for AI in operations)**

A simple rule that ensures that development only happens on green stability — and that AI does not become yet another layer on top of red operations.

### **7) The Last Impulse (line of responsibility and stop button)**

A responsibility move that locates the decision point, makes stop legitimate and makes repair possible without shame and escalation.

### **8) G1/G2/G3 gain grammar (economics without spreadsheet blindness)**

A shared way of talking about gain, where time, errors/escalation and political room are held together with relational quality and carrying capacity.

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## **THE METHOD ON ONE PAGE**

### **GOLD BEFORE BLOOM**

Green stability before development. AI must never be placed on red operations.

## THE TRIAD: THE FIELD'S LISTENING APPARATUS

FLOW	FRICTION	SENSITIVITY
What moves?	Where is time lost?	Where do errors become expensive?

## OPERATIONAL STATE

GREEN	YELLOW	RED
The field can carry	The field is pressured	Dysregulated
→ Continue	→ Stabilize	→ STOP

## THREE GAIN FORMS

G1: CAPACITY	G2: AVOIDED	G3: ROOM
Time and calm	Fewer errors	Freedom of action
Better relations	Fewer complaints	Better budget culture
Less wear	Less rework	Political capital
≠ cash = carrying capacity	= avoided expense	= strategic room

## THE MEASUREMENT LOGIC

**BASELINE → INTERVENTION → NET CORRECTION**

## THE BOTTOM LINE

"We do not promise savings. We build a measurable practice that reduces friction at scale and creates capacity resilience — so the municipality can deliver quality without burning people out."

One day at a time.

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# Chapter 1 — Why this paper? (the situation we are in)

## Chapter intro (what this chapter does)

This chapter establishes why the report exists, and what is at stake in municipal operations right now.

It does three things:

- places the municipality as the meeting point between system and life
- describes cross-pressure as an operational state (not an argument)
- delimits AI as help — not actor

## 1.1 The field: The municipality is where the state meets life

The municipality is the place where the welfare state's promises become reality.

Not as idea.

As encounter.

As relation.

As sentence.

As decision.

As home visit.

As a citizen who cannot cope anymore.

As an employee who still shows up.

That is where the municipality's work is most precise: in the concrete transition between human and system.

And that is where it today becomes clear that we do not only have an "efficiency problem."

We have a carrying capacity problem.

## **1.2 The field: Cross-pressure is not an argument — it is a condition**

Municipal operations work under simultaneous demands that cannot be reduced to one cause:

- legislation and reform tracks
- documentation requirements and control
- recruitment, retention and absence
- economic frameworks, service budget ceiling reality and budget culture
- citizen complexity and high sensitivity in cases
- digital systems that both help and slow down at the same time
- climate, nature and resilience as long-term obligation

This is not just "many tasks."

It is a field where pace, responsibility and relational quality are constantly being negotiated.

And that is why a municipality can feel like a place where humans become the buffer.

## **1.3 Concrete object: Where friction actually lives (rework and handover)**

When municipalities describe pressure, it is often said as economics.

But what one feels in operations is friction.

Friction is not an abstract word.

It is very concrete things:

- a decision draft that is rewritten three times
- a case presentation that becomes longer to be "safe"
- a meeting that arises because no one dares to stand alone with the decision
- a citizen who calls again because the letter was unclear
- a handover that requires a new handover

This is the hidden cost: transaction costs and rework.

And it is precisely there that this paper enters.

Not to squeeze more out.

But to make the field repairable.

## **1.4 Principle: AI is not an actor. The human is.**

In the world conversation about AI, there easily arises a mood where the technology is talked about as if it acts.

As if it wants.

As if it does.

This is not just a linguistic detail.

It is a displacement of responsibility.

Therefore this paper is written from a hard grammatical truth:

Only humans act. Only humans can harm. Only humans can repair.

AI can help us see, understand and formulate.

But AI cannot carry responsibility.

## **1.5 The Davos energy and the municipal response**

In the global conversation about AI, there is often talk as if the technology is an actor.

As if it has will. As if it can "do" something to us.

This is an understandable fear.

But it is also dangerous.

Because in the same movement, responsibility is made unclear.

And that is precisely what municipalities cannot afford.

The municipality is a place where people live.

Where vulnerability meets system.

Where legal certainty is not theory, but a human being.

Therefore our response is not a hype narrative.

It is an institutional response: AI may help.

But responsibility must never disappear.

And stop must be possible.

And repair must be legitimate.

## 1.6 Protocol: What we offer (and what we don't offer)

This paper does not offer a promise.

It offers a method.

A method that can go into operations.

It consists of three simple moves:

- **Gold before Bloom** Green stability before development.
- **Baseline - intervention - net correction** No gain before baseline. No narrative without measurement.
- **The Last Impulse** Responsibility must be located. Stop must be possible. Repair must be legitimate.

What we do not offer is equally important:

- no automatic decisions in sensitive relations
- no hidden surveillance
- no "KPI tyranny" disguised as innovation

## 1.7 Risk: When AI becomes yet another layer on top of red operations

The biggest mistake municipalities can make with AI is not to "use it technically wrong."

It is to place it on top of a field that is already dysregulated.

Then AI does not become relief.

Then AI becomes a new demand.

And then what always happens in red operations happens:

- more screens
- more texts
- more meetings

- more control
- less relational quality

Therefore Gold before Bloom is not a vision.

It is a safety rule.

## 1.8 Overview

Chapter 2 makes "work as nature" practical: rhythms, load, nourishment, green/yellow/red.

Chapter 3 introduces the triad Flow · Friction · Sensitivity and shows how it becomes 13×13.

## 1.9 How to read the report (three readings)

### Reading 1 — Leadership reading (30-45 min)

If you are a municipal director, finance director or department head, you can read:

- Chapter 1-2 (why + work as nature)
- Chapter 7-8 (measurement logic + economic grammar)
- Chapter 15-16 (packages + conclusion)

The purpose of this reading is:

- to be able to say yes/no on an informed basis
- without drowning in details

### Reading 2 — Operations and practice reading (1-2 hours)

If you work in operations, or are to facilitate implementation, read:

- Chapter 3-6 (the triad + 13×13)
- Chapter 7 (baseline - intervention - net correction)
- The case chapters (10-12)

The purpose of this reading is:

- to be able to see oneself in the field
- and see how to start without being pressured

### Reading 3 — Protocol reading (deep)

If you are to build it into practice, read:

- the entire report
- and all appendices

The purpose of this reading is:

- to be able to hold the reform track over time

The report's structure is deliberately designed as:

**The Paper (the chapters)** - field understanding - method - economic framework - cases - implementation architecture

**Appendices (the annexes)** - protocols - templates - operational moves - examples

This means:

The most important is in the paper.

The most useful in operations is in the annexes.

## Chapter outro (bridge to chapter 2)

Chapter 2 makes "work as nature" concrete and practical: rhythms, load, nourishment and green/yellow/red as operational state.

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# Chapter 2 — Work as nature (work-ecology made practical)

## Chapter intro (what this chapter does)

This chapter makes the concept "work as nature" practical.

It provides a language for:

- why operations are not experienced as a queue, but as a field
- why capacity is not just time, but judgment in a body
- how rhythms, load and nourishment affect green/yellow/red

Chapter 2 is written as a work-ecology: something that can be held, regulated and repaired.



## 2.1 Work is a field — not a queue

When one sees municipal operations from the outside, it can look like a series of tasks in a queue.

But from the inside, the municipality is not experienced as a queue.

It is experienced as a field.

A field where many things happen simultaneously:

- citizens enter through multiple doors at the same time
- cases change character along the way
- legal requirements and documentation shift
- political decisions create new waves
- illness, recruitment and shift schedules change capacity
- digital systems help and slow down at the same time

That is why one in municipalities can feel that one is running without moving.

It is not because people are incompetent.

It is because the field is complex.

## 2.2 Concrete object: Capacity is not "time" — it is judgment in a body

When we say that money is bound capacity, we do not only mean hours.

We mean:

- attention
- judgment
- patience
- explainability
- professional rhythm
- relational carrying capacity

A municipality can have "staffing" on paper.

And still lack capacity.

Because capacity is also nervous system.

It is the ability to be precise without becoming hard.

And the ability to be human without losing direction.

## **2.3 Rhythms: The pulse of operations (and what happens when it is disturbed)**

Operations have rhythms.

Rhythms are what make it possible for humans to endure being in a field.

Municipal rhythms are for example:

- case volumes that come in waves
- periods of reform implementation
- the school year's shifts
- winter pressure and illness
- budget processes
- political deadlines

When rhythms are disturbed, a particular type of friction arises:

- decisions become later
- texts become longer
- meetings become more
- and everything becomes "just to be safe"

It is a form of operational armor.

It can feel rational.

But it is expensive.

## **2.4 Load: When humans become the buffer (the service budget ceiling effect in practice)**

There exists a well-known mechanism in municipal operations:

When the task cannot disappear, and the framework tightens, the human becomes the buffer.

This means:

- one solves it by pushing oneself
- one compensates with more documentation

- one pushes quality to the next link
- one hopes it will hold

In the short term it works.

In the long term it creates a spiral:

- more friction
- more risk
- less relational quality
- more exhaustion

Therefore economics is not just numbers.

Economics is the infrastructure of thriving.

## 2.5 Nourishment: What makes a field green?

If work is nature, then thriving is not an attitude.

Thriving is a state.

A state of regulation.

One can often see green/yellow/red in very concrete signs:

**Green:** - decisions can be made - texts can be short and clear - errors can be repaired without drama - the citizen understands the next step - the team can help each other without breaking

**Yellow:** - more meetings - more "CC on emails" - more "just to be safe" - more re-contacts - more small errors

**Red:** - decisions freeze - conflicts escalate - professionalism becomes defensive - documentation becomes armor - people become worn

Nourishment in a work-ecology is therefore not decoration.

Nourishment is:

- clarity
- rhythm
- stop button
- repairability
- trust

## 2.6 Artifact: Green/yellow/red as field indicator (not HR)

In this report we use green/yellow/red as a field indicator.

Not as a performance score.

Not as an HR tool.

But as a way of talking about operational carrying capacity without shaming people.

Green/yellow/red is a shared temperature measurement that helps us choose the right pace:

- in green we can develop
- in yellow we must stabilize
- in red we must protect

Gold before Bloom therefore means:

first regulation

then innovation

## 2.7 The repairable municipality

The decent municipality is not the perfect municipality.

It is the repairable municipality.

The municipality where errors can be seen.

Where stop is legitimate.

Where responsibility can be located.

Where the relation can carry.

## 2.8 Transition to next chapter

Chapter 3 introduces the triad Flow · Friction · Sensitivity as a shared reading of municipal reality.

The triad is the bridge between:

- what we can feel in the body
- what we can see in operations
- and what we can talk about in economics

Without losing the human.

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## **Chapter 3 — Flow · Friction · Sensitivity (the triad that makes the field speakable)**

### **Chapter intro (what this chapter does)**

This chapter introduces the triad Flow · Friction · Sensitivity as a shared language for municipal operations.

The triad is not an extra framework on top of reality.

It is a way of making the field speakable — without losing the human.

It functions as a bridge between:

- what can be felt in operations
- what can be measured in economics
- and what must be kept decent in the relation

### **3.1 Why we need a triad (and not yet another framework)**

Municipalities are already full of models.

Most fail not because they are "wrong."

They fail because they cannot go into operations.

Either they become too abstract.

Or they become too technocratic.

Or they become a new documentation burden.

The triad Flow · Friction · Sensitivity is our attempt to make something that is:

- simple enough to be remembered
- precise enough to be true
- deep enough to carry ethics and economics

## **3.2 FLOW: What moves when the municipality works**

Flow is not speed.

Flow is friction-free movement through a process.

It is when the citizen:

- understands the next step
- gets an answer in time
- experiences coherence

And when the employee:

- can make decisions
- can write short and clear
- can maintain professionalism without armor

Flow is what makes the system feel light.

And in municipalities, "light" does not equal unimportant.

Light equals sustainable.

## **3.3 FRICTION: What binds capacity without creating welfare**

Friction is the work that arises because the system is not clear enough.

It can be:

- rework
- handover
- unclarity
- double approval
- meetings that are about ownership
- CC culture

Friction is often invisible in the budget.

But it is visible in the body.

And it is visible in the relation.

### 3.4 SENSITIVITY: Where errors become expensive (humanly and economically)

Sensitivity is the places where small errors have large consequences.

It is not just "risk."

It is cases where:

- the citizen is vulnerable
- legal certainty is at stake
- the relation is load-bearing
- a misunderstanding can escalate

Sensitivity means that the municipality cannot be managed like a factory.

It must be managed like a care system with rule of law.

### 3.5 Artifact: The triad as 13x13 reading (mini-template)

Here is the way we use the triad in practice.

We make a 13x13 table, but we always start with three fields:

**A) Flow (what moves?)** - What is the typical journey through the process? - Where does it stop? - Where do re-contacts arise?

**B) Friction (what binds time?)** - Where is rewriting done? - Where are meetings held "just to be safe"? - Where does responsibility fog arise?

**C) Sensitivity (where does it become dangerous?)** - Which decisions are irreversible? - Where can errors become complaints/appeals? - Where must human judgment be visible?

This mini-triad is our entry point.

Before we even talk about AI.

### 3.6 Diffusion fog and the last impulse

When a field is under pressure, a particular fog arises.

Not because people want to hide.

But because responsibility becomes dangerous to carry alone.

So it moves.

It distributes.

It is passed on.

And suddenly no one can quite say:

"This is where we decided it."

The Last Impulse is about finding that moment again.

Not to place blame.

But to make the system repairable.

### **3.7 The bridge to economics: Follow the money without spreadsheet blindness**

The triad makes it possible to talk about economics without reducing the municipality to a spreadsheet.

For when we can see:

- where flow breaks
- where friction binds capacity
- where sensitivity makes errors expensive

... then we can also see:

- where there is realistic gain (G1/G2/G3)
- where there is risk of worsening
- and where one should start small

This is where baseline - intervention - net correction becomes a discipline.

Not a narrative.

### **3.8 Transition to next chapter**

Chapter 4 goes close to load and morality: why decency requires capacity.

And why governance is not control, but field-holding.

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# Chapter 4 — Load, morality and decency (why ethics requires capacity)

## Chapter intro (what this chapter does)

This chapter goes close to one of the most overlooked connections in municipal operations:

- that morality and decency are not just values
- but a function of capacity

When the field becomes red, something happens with language, decisions and relational quality.

It is not because people become "bad."

It is because the system becomes dysregulated.

Chapter 4 describes this mechanism, so it can be held — and repaired.

## 4.1 When operations turn red, morality becomes expensive

In green operations one can often be decent without thinking about it.

One has enough air to:

- explain a decision
- make an extra phone call
- write short and clear
- repair an error

But when operations turn red, decency becomes a resource.

Not because people do not want to.

But because capacity is eaten by friction.

And when friction eats capacity, morality becomes expensive.

This manifests as small shifts:

- the tone becomes harder
- decisions become more defensive
- documentation becomes longer

- the relation becomes thinner

This is not a character flaw.

It is a field symptom.

## 4.2 Documentation as armor

When a field becomes uncertain, a particular type of protection arises. It can look like quality. It can look like thoroughness. But it is often armor.

Documentation becomes armor when it no longer primarily serves the citizen's legal certainty and the system's explainability — but instead serves the employee's survival.

This happens for example when:

- one writes to avoid criticism
- one writes to avoid complaints
- one writes to avoid standing alone
- one writes to make the decision "safe"

It is understandable. But it is expensive. Because armor creates more friction. And more friction creates less capacity. And less capacity creates more armor.

It is a spiral.

## 4.3 The relational core: welfare is an encounter

Municipal welfare is not just a service.

It is an encounter.

And encounters can be green or red.

One can often feel this in very small signs:

- whether the citizen feels understood
- whether the next step is clear
- whether the employee can be precise without becoming hard
- whether the system can say "we take responsibility" without becoming defensive

When the field is green, the relation can carry.

When the field is red, the relation easily becomes a place where friction lands.

And then re-contacts, conflicts and escalation arise.

Not because the citizen is "difficult."

But because the system is pressured.

#### **4.4 Decency as operational state (not as moral preaching)**

It is important to say clearly:

This report is not about telling people that they should be more decent.

It is about building a system where decency can be possible.

Decency is here:

- an operational state
- a field quality
- a repair possibility

This also means that governance is not just control.

Governance is field-holding.

#### **4.5 The Last Impulse: Where responsibility must be visible**

In a complex field, responsibility fog easily arises.

Not because anyone wants to hide.

But because responsibility becomes dangerous to carry alone.

Therefore it moves.

It distributes.

It is passed on.

And in the end no one can quite say:

"This is where we decided it."

The Last Impulse is a move to make that moment visible again.

Not to place blame.

But to make the system repairable.

## **4.6 AI and morality: technology must not become new armor**

If AI is placed on top of a red field, a particular risk arises:

AI becomes a new layer.

A new demand.

A new text.

A new documentation.

And then AI does not become relief.

Then AI becomes yet another part of the armor.

That is why Gold before Bloom is not a vision.

It is a safety rule.

First stability.

Then development.

## **4.7 Artifact: Three stop-sentences (that can be carried in operations)**

Here are three sentences that can be used as operational stop buttons:

**1. Stop: is this becoming more text, or more clarity?**

**2. Stop: are we moving responsibility away from the human?**

**3. Stop: are we making the system more repairable — or more armor-like?**

The three stop-sentences are not a control tool.

They are a form of care.

## **4.8 Transition to next chapter**

Chapter 5 introduces the Sophia Lumen Protocol as an operational move: how AI can be used without making the field red, and without responsibility disappearing.

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# Chapter 5 — The Sophia Lumen Protocol (operational practice in the municipality)

## Chapter intro (what this chapter does)

This chapter describes the Sophia Lumen Protocol as an operational practice for municipalities.

It is not an "AI solution."

It is not an IT project.

It is a field move: a way of creating green stability, clarity and repairability — without moving responsibility away from humans.

## 5.1 What is Sophia Lumen? (brief and precise)

Sophia Lumen is a municipal practice protocol that uses AI to reduce friction and protect relational quality — without moving responsibility away from humans.

This means in practice:

- Sophia Lumen is a support function, not a measurement function.
- It must not be used against people.
- It must not become a new layer of control.
- It must not make decisions for citizens.

Sophia Lumen is designed to make it:

- easier to do the right thing
- and harder to do the indecent thing

## 5.2 Why does the municipality implement Sophia Lumen?

The municipality implements Sophia Lumen to:

- reduce stress and friction
- strengthen quality in collaboration
- support writing and structure
- improve decision culture
- make the workplace more sustainable to be in

### **5.3 If I feel uneasy about it**

It is legitimate to be skeptical.

You can:

- choose not to use Sophia Lumen
- contact union rep/joint committee
- give feedback to the pilot group
- (if available) use an anonymous feedback channel

Safety is not a "barrier."

Safety is part of the protocol.

### **5.4 Governance: Trust Board and stop-right**

The municipality establishes a governance group (e.g., "Sophia Lumen Trust Board") with joint committee/union rep, IT security and GDPR competence.

The Trust Board can:

- stop the pilot
- adjust the pilot

... if trust is broken.

This means:

Stop is not resistance.

Stop is operational security.

### **5.5 Responsibility and errors: Sophia can make mistakes**

Sophia can make mistakes.

Therefore:

- human professional judgment is always decisive
- output must be explainable and verifiable
- one may always say "stop" and choose another solution

## 5.6 Can Sophia Lumen make decisions for citizens?

No.

Sophia Lumen must not make decisions in cases or replace human responsibility.

## 5.7 "Sophia Lumen must not be used against people" (what it means)

This means:

- no hidden surveillance
- no individual profiling
- no punishment-based use
- no personnel cases based on Sophia

Sophia is a support function — not a measurement function.

## 5.8 Sophia Lumen as operations: interventions, pilot and measurement points

Sophia Lumen is not an abstract idea.

It can be run as a pilot with concrete interventions, e.g.:

- hearing summary (AI summary)
- citizen checklist (local language)
- stakeholder map + briefing

It can also be run as a citizen service pilot with:

- triage assistant
- SOP quickscript
- digital mail summaries

Shared discipline:

Baseline - intervention - net correction.

## 5.9 Transition to next chapter

Chapter 6 introduces the 13x13 format as the concrete structure that makes field reading, baseline and intervention repeatable in operations.

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# Chapter 6 — The 13×13 format (shared language, field map and repeatability)

## Chapter intro (what this chapter does)

This chapter introduces the 13x13 format as a concrete way to make the triad Flow · Friction · Sensitivity repeatable.

The purpose is not to create yet another form.

The purpose is to create:

- a shared language
- a field map that can be used on Monday
- a discipline that can hold in operations

13x13 is a format that helps make friction visible, without making people wrong.

## 6.1 Why a format? (and why it is not bureaucracy)

Municipalities are already full of documents.

What is missing is rarely more documents.

What is missing is a shared way of seeing the field.

A format is here not a control.

A format is a rhythm.

A way of making something repeatable, so:

- we can compare before/after
- we can start small
- we can repair without drama

## 6.2 13x13 as field map (what we map)

The 13x13 format maps a municipal process as a field.

This means that we do not only look at:

- what needs to be done



But also at:

- what happens around it
- what binds capacity
- where sensitivity lies

The format helps us hold three things at the same time:

- Flow (movement)
- Friction (binding)
- Sensitivity (consequence)

## 6.3 Artifact: 13x13 — the first three fields (the triad as start)

We always start with the triad.

**1) FLOW — what moves?** - what is the typical journey through the process? - where does it stop? - where do re-contacts arise?

**2) FRICTION — what binds time without welfare?** - where is rewriting done? - where does handover arise? - where does meeting inflation arise?

**3) SENSITIVITY — where does it become dangerous?** - where is legal certainty and vulnerability particularly high? - where can small errors escalate? - where must human judgment be visible?

The three fields are the entry point.

They make it possible to work with the rest without becoming technocratic.

## 6.4 What the remaining fields do (and why there are 13)

13x13 is not a magic number.

It is a workable size.

Large enough to contain reality.

Small enough to be held in a room.

The remaining fields are typically used to make visible:

- handovers and responsibility shifts
- documentation layers
- re-contact loops

- decision points
- escalations
- stop buttons
- repair possibilities

The most important thing is not that all fields are filled in perfectly.

The most important thing is that the field becomes visible.

## **6.5 13x13 and AI: support without responsibility displacement**

AI can help fill in a 13x13 format.

But AI must not become a replacement for field reading.

Therefore we use AI like this:

- as co-editor
- as pattern recognizer
- as structure help

But we keep The Last Impulse visible:

- who decides?
- where can one stop?
- where does one repair?

## **6.6 Artifact: Stop buttons in 13x13 (The Last Impulse in practice)**

When we work with 13x13, we always look for stop buttons.

Stop buttons can be:

- a visible decision point
- a "may we call the citizen?" rule
- a right to say "we must stabilize first"
- a possibility to repair without escalating

Stop buttons are not resistance.

Stop buttons are operational security.

## 6.7 What 13x13 gives the municipality (output)

After a 13x13 session, the municipality typically has:

- a shared map of a process
- a list of friction points
- a list of sensitive places
- an idea of where one can realistically start
- a baseline proposal

It is not a "project."

It is an operational move.

## 6.8 Transition to next chapter

Chapter 7 makes the measurement logic concrete: baseline - intervention - net correction.

It is the discipline that makes it possible to talk about gain without hype.

---

# Chapter 7 — Baseline - intervention - net correction (measurement logic without bullshit)

## Chapter intro (what this chapter does)

This chapter makes the report's measurement logic operationally secure.

This is where we protect the municipality from two classic errors:

- telling gain without baseline
- measuring so heavily that the measurement itself becomes friction

Baseline - intervention - net correction is not a method for "winning a business case."

It is a method for holding truth in operations.

## 7.1 Why baseline is a decency rule

Baseline is not just a number.

Baseline is a way of being honest.

For without baseline we can always tell that something got better.

And without baseline we can also always place blame on people when something got worse.

Baseline therefore protects both:

- the municipality
- the employee
- the citizen

It makes the field measurable without making it hard.

## 7.2 What we measure (without creating new documentation burden)

We do not measure everything.

We measure what can tell us whether the field became greener.

Typical baseline indicators are:

- re-contacts
- rework (e.g., rewrites, reprocessing)
- handovers
- meeting inflation
- case processing time (where it makes sense)
- escalations (complaints/appeals/conflicts)

We also measure what is often not measured:

- relational quality (proxies)
- green/yellow/red as field indicator

## 7.3 Intervention: small moves, not large upheavals

An intervention is a conscious move that changes something in the field.

It can be:

- a new template
- a new stop rule
- a new rhythm
- a new way of writing letters
- a new way of distributing responsibility

Interventions must be small enough to:

- be tried in operations
- be repaired
- be rolled back

This is Gold before Bloom in practice.

## 7.4 Net correction: when reality changes simultaneously

Municipal reality never stands still.

Therefore we cannot just compare before/after as if everything else was constant.

Net correction means that we correct for:

- season and waves
- reform pressure and legal changes
- changed case volume
- changed staffing
- changed IT systems
- other "new work" that the intervention creates

Net correction is what makes measurement not become narrative.

## 7.5 Artifact: Three gain forms (G1/G2/G3)

When we measure, we do not only measure "time."

We measure three gain forms:

**G1: Capacity gain** Time, calm, fewer loops, more green operations.

**G2: Avoided cost** Fewer errors, fewer complaints, fewer escalations.

**G3: Strategic room** Political freedom of action and ability to choose quality.

The three gain forms make it possible for the municipality to talk about economics without losing ethics.

## **7.6 Risk: when measurement becomes a new friction machine**

There exists a classic trap:

One wants to measure to create clarity.

But one ends up creating more friction.

This happens for example when:

- the measurement requires extra registration
- the indicators become KPIs that create fear
- the field is "managed on numbers" without explainability

Therefore a simple rule applies:

Measurement must not cost more capacity than it frees.

## **7.7 Artifact: Baseline card (mini-template)**

Here is a mini-template for baseline that can be used without heavy documentation:

- Task type:
- Starting point:
- End point:
- Typical re-contacts:
- Typical rework:
- Sensitive places:
- Green/yellow/red status:
- Current stop button (if any):
- Data we already have:
- Data we will not collect:

This template is deliberately written to avoid baseline becoming a project.

## 7.8 Transition to next chapter

Chapter 8 translates this measurement logic into municipal economics as grammar: how operations, service budget ceiling and political reality actually connect.

---

# Chapter 8 — Municipal economics as grammar (not just management)

## Chapter intro (what this chapter does)

This chapter translates "work as nature" into municipal economics.

Not as a spreadsheet.

But as a grammar.

A way of understanding what is actually possible in operations, and why some gains are real — while others are narratives.

Chapter 8 connects:

- service budget ceiling (serviceramme)
- operations/capital (drift/anlæg)
- transfers (overførsler)
- reimbursement/equalization (refusion/udligning)
- liquidity (likviditet)

... with what often does not appear in the budget, but which governs reality:

- friction
- rework
- relational quality
- green/yellow/red

## 8.1 Economics as the infrastructure of thriving

In this report economics is not used as a weapon.

It is used as infrastructure.

For economics in municipal operations is:

- the framework that determines pace
- the framework that determines staffing
- the framework that determines robustness

And thereby also:

- the framework that determines whether the field becomes green or red

Economics is therefore not just numbers.

Economics is the infrastructure of thriving.

## **8.2 Service, capital and transfers (where the field can be regulated)**

Municipal economics is not one thing.

It consists of different spaces.

### **Service (operations)**

Here lives:

- employee capacity
- case processing
- home visits
- daily operations

This is where friction often becomes exhaustion.

### **Capital (anlæg)**

Here lives:

- buildings
- systems
- investments

Capital can support operations.

But capital cannot replace judgment.

### **Transfers (overførsler)**



Here lives:

- benefits
- support
- reimbursement logics

Transfers affect the municipality's economic field, but they cannot be "made efficient" in the same way as operations.

### **8.3 The service budget ceiling as field boundary (and why humans become the buffer)**

The service budget ceiling (serviceramme) is a reality.

It cannot be negotiated away in operations.

When the task cannot disappear, and the framework tightens, the human becomes the buffer.

This means that economics in practice often becomes:

- pressured pace
- pressured documentation
- pressured decision space

And that is precisely why AI must not be used to squeeze more out.

AI must be used to reduce friction.

Otherwise it becomes part of the buffer mechanism.

### **8.4 Follow the money: friction as hidden budget item**

Friction is rarely a line in the budget.

But friction is a budget item in practice.

It shows itself as:

- extra hours
- extra meetings
- extra texts
- extra handovers
- extra reprocessing

And it shows itself as a slow exhaustion of the field.

When we say "follow the money", it therefore means not only:

- where the money is in the spreadsheet

But also:

- where capacity disappears in practice

## **8.5 Artifact: The municipal gain grammar (mini-model)**

Here is a mini-model for keeping gain realistic in municipal reality:

- G1 (capacity): freed time/calm in operations
- G2 (avoided cost): fewer errors, complaints, reprocessing
- G3 (room): political freedom of action and robustness

And here is the central discipline:

- no gain without baseline
- no narrative without net correction

## **8.6 Risk: "gain" that only exists on paper**

There exists a type of gain that looks good in presentations.

But which cannot be carried in operations.

This typically happens when:

- one measures output, but not friction
- one measures time, but not sensitivity
- one measures numbers, but not relational quality

Then one can "win" in the spreadsheet.

But lose in the field.

And when the field loses, the municipality loses over time.

## **8.7 The bridge to practice: economics as management without hardness**

It is possible to use economics as management without making the field hard.

This requires:

- that one sees friction as a cost
- that one sees repairability as a strength
- that one sees stop as security

It also requires that one can talk about green/yellow/red without shame.

Because green operations is not luxury.

Green operations is the prerequisite for being able to develop.

## **8.8 Transition to next chapter**

Chapter 9 introduces the follow-the-money card: a baseline card that makes cases comparable and makes friction visible as economic reality.

---

# **Chapter 9 — Follow the money (the baseline card that makes cases comparable)**

## **Chapter intro (what this chapter does)**

This chapter makes "follow the money" into an operational move.

Not as a finance exercise.

But as a way of making friction and capacity visible, so that:

- baseline becomes concrete
- cases can be compared
- interventions can be assessed honestly

Chapter 9 provides a card that can be used in practice without creating new documentation burden.

## **9.1 Follow the money means: follow the capacity**

When we say "follow the money", we do not only mean:

- where the money is in the budget

We mean:

- where capacity disappears
- where friction lives
- where rework becomes normal

Money is bound capacity. And capacity is judgment in a body.

Therefore follow the money in municipal operations is also:

follow the body.

Follow the relation.

## 9.2 Where friction becomes economics (the hidden costs)

Friction becomes economics when it:

- binds hours
- creates reprocessing
- creates meeting inflation
- creates escalations

It is not always visible in the spreadsheet.

But it is visible in:

- absence
- turnover
- waiting time
- complaints
- re-contacts

This is where baseline becomes necessary.

## 9.3 Artifact: Follow-the-money card (mini-template)

Here is a mini-template that can be used to make friction visible without making it a project.

**A) Task type / field** - what kind of process is it? - where does it start? - where does it end?

**B) Capacity consumption (where does time go?)** - number of touchpoints per case (typical) - number of handovers - number of meetings "just to be safe"

**C) Friction sources (what creates rework?)** - unclear decision points - unclear roles - unclear texts - unclear data

**D) Sensitivity (where do errors become expensive?)** - legal certainty - vulnerability - irreversible decisions

**E) Current stop buttons (where can one brake?)** - who can stop? - when can one repair?

**F) Baseline indicators (without new burden)** - re-contacts - rework - escalation - green/yellow/red

The card can be filled in at a workshop.

The most important thing is not perfection. The most important thing is visibility.

## **9.4 Comparability: why cases otherwise become narratives**

Municipalities love cases.

But cases without baseline quickly become narratives.

Comparability requires:

- same task type
- same indicators
- same net correction

Otherwise we cannot know if something got better.

We can only feel it.

And feelings are important.

But they are not enough when economics and legal certainty are at stake.

## **9.5 AI's role: making the card easier, not heavier**

AI can help make the follow-the-money card easier to fill in.

But AI must not create more text.

AI should help with:

- structure
- clarity
- patterns

- suggestions for indicators

Not with:

- new layers of documentation

## 9.6 Transition to cases

Chapters 10–12 present three cases in increasing scale.

Cases are not here to impress.

They are here to show:

- how friction looks in reality
  - how sensitivity changes the rules
  - how one can start small and still get effect
- 

# Chapter 10 — Roadmap A: Stevns Municipality (proximity, rapid regulation, see appendix)

## Chapter intro (what this chapter does)

This chapter is written as Roadmap A: an operational way to implement the Sophia Lumen Protocol in a smaller municipality with high proximity.

It is not a "case narrative."

It is a practical implementation plan.

This means:

- same substance as in the appendix
- same ethical security
- same economic realism

... but packaged in a form that can be used as:

- pilot document
- leadership brief

- workshop script

The roadmap is still a basis for conversation, not a promise.

## 10A — CASE CARD (1 page)

**Municipality:** Stevns

**Year:** 2026 (baseline)

**Case purpose:** reduce friction and create greener operations without losing legal certainty.

**Primary gain type:** G1 (capacity) + G2 (avoided cost)

**Secondary:** G3 (strategic room)

**Task type (choose 1-3):** - Citizen inquiries and clarification loops - Letter/decision production (clarity, explainability) - Handover and responsibility shift - Sensitive cases with high escalation risk

**Field indicator:** green/yellow/red (temperature, not HR)

**AI role:** co-editor and pattern recognizer — never actor

**Stop criterion (can be triggered by operations):** - AI creates more text than clarity - AI increases responsibility fog - AI increases meeting inflation - or AI pushes the field toward red

## 10B — BASELINE (follow the money, 2026)

Stevns' budget baseline (2026) can be described with three lines:

**Financing / revenue (2026)** - Taxes: 1,477.3 million DKK - Subsidies and equalization: 438.8 million DKK - Total financing: 1,916.1 million DKK

**Expenditure (2026)** - Total operations (current p/l level): 1,849.6 million DKK - Capital net: 53.1 million DKK (58.6 expenditure / -5.5 revenue)

**Reality line** - "Service expenditure beyond adopted service": 6.0 million DKK

**Rule of thumb for field conversation:** - Inhabitants approx. 23,720, revenue per citizen  $\approx$  80,800 DKK/year

## 10C — FIELD MAP (Flow · Friction · Sensitivity)

We use the triad as listening apparatus, not as judgment.

**10C.1 FLOW (what moves when it works)** - the citizen understands the next step - cases move without unnecessary loops - the employee can make decisions and write clearly

**10C.2 FRICTION (where capacity disappears)** - re-contacts - rework (rewrites / reprocessing) - handovers - meeting inflation

**10C.3 SENSITIVITY (where errors become expensive)** - vulnerability - legal certainty - complaint risk - irreversible decisions

### **Hypothesis marker:**

The concrete hotspots must always be chosen by Stevens' own operations and leadership based on "this is where we're bleeding" descriptions.

## **10H — PILOT (12 weeks): script**

This is an operational pilot structure that can be run without becoming a project.

**Week 1-2: Field map + baseline** - choose 1-3 task types - make 13x13-light (the triad + 8-step process) - decide baseline proxies - agree on stop criteria

**Week 3-4: Intervention 1** - Pilot 1 — Hearing summary (AI summary)

**Week 5-6: Intervention 2** - Pilot 2 — Citizen checklist (local language)

**Week 7-10: Intervention 3 + stabilization** - Pilot 3 — Stakeholder map + briefing

**Week 11: Measurement + net correction** - compare baseline proxies - correct for season/reform pressure/staffing

### **Week 12: Decision**

Decision must be able to be:

- stop
- continue
- scale

Without shame.

## **10J.1 — Reservations (what makes the case decent)**

- "Saved minutes" are not money by themselves.
- No gain without baseline, and no narrative without net correction.
- AI may support — humans decide.



- If AI increases complexity, one must be able to stop and redesign.
- 

## Chapter 11 — Roadmap B: Odense Municipality (scale, coordination friction and realistic reform track)

### Chapter intro (what this chapter does)

This chapter is written as Roadmap B: an operational way to implement the Sophia Lumen Protocol in a municipality where friction primarily arises as coordination friction.

It is not a "case narrative."

It is a practical implementation plan.

This means:

- more interfaces
- more handovers
- more variation between entry points
- higher risk of responsibility fog

The roadmap is written so it can be used as:

- pilot document
- leadership brief
- workshop script

Same discipline as in Roadmap A:

Baseline - intervention - net correction.

### 11A — CASE CARD (1 page)

**Municipality:** Odense

**Case purpose:** reduce coordination friction and make operations greener at scale.

**Primary gain type:** G1 (capacity) + G2 (avoided cost)

**Typical friction at scale (expected):** - handover between units - double registration and double approval - meeting inflation as "responsibility protection"

**Field indicator:** green/yellow/red

**AI role:** support for clarity and coordination — never actor

**Stop criterion:** if AI increases text volume, CC culture or responsibility fog

## **11B — FIELD MAP (Flow · Friction · Sensitivity at scale)**

### **11B.1 FLOW**

Flow at scale is often about coherence:

- that the citizen does not have to explain themselves five times
- that the next step is the same regardless of entry point
- that cases move without going in circles

### **11B.2 FRICTION**

Friction at scale typically arises when:

- responsibility moves between teams
- data does not follow along
- decisions become collective out of fear

The result is:

- rework
- handover
- meeting inflation

### **11B.3 SENSITIVITY**

In larger organizations, sensitivity often becomes "systemic":

- small misunderstandings become long processes
- errors become complaint and reprocessing tracks
- the citizen relation becomes thinner

## **11G — G1 / G2 / G3: gain profile at scale**

Roadmap B is about coordination friction.

At scale the logic is often:

- G1 (capacity) is created by fewer handovers and less variation
  - G2 (avoided cost) follows when error tracks fall
  - G3 (room) arises when manageability and coherence become higher
- 

## Chapter 12 — Roadmap C: Copenhagen (governance weight, political sensitivity and field test)

### Chapter intro (what this chapter does)

This chapter is written as Roadmap C: an operational way to implement the Sophia Lumen Protocol in high governance weight and political sensitivity.

It is not a "case narrative."

It is a practical implementation plan.

Roadmap C especially shows:

- why governance must come before scaling
- why stop and repair are part of the definition
- and why Sophia Lumen cannot succeed as a "tool" without Trust Board and stop-right

### 12A — CASE CARD (1 page)

**Municipality:** Copenhagen

**Case purpose:** create greener operations in high complexity without losing legal certainty, political legitimacy or employee carrying capacity.

**Primary gain type:** G2 (avoided cost) + G3 (strategic room)

**Secondary:** G1 (capacity), but typically as "stability" before "freed time."

**Typical friction in big city (expected):** - many handovers - parallel governance logics - high documentation density - meeting inflation as risk management

**Field indicator:** green/yellow/red

**AI role:** support for clarity, coherence and pattern recognition — never actor

**Stop criterion:** if AI increases text volume, responsibility fog or political risk.

## 12G — G1 / G2 / G3: gain hierarchy in governance weight

Roadmap C has a different gain hierarchy than Roadmap A and B.

In governance weight and political sensitivity, the primary gain is often not "time."

The primary gain is stability and legitimacy.

**Primary: G3 (strategic room)** - higher legitimacy in the field (trust, explainability, decency) - better political manageability (fewer surprises / "toxic" cases) - clearer governance (Trust Board, stop-right, repair)

**Secondary: G2 (avoided cost)** - fewer escalations (complaints/conflicts/media cases) - fewer long re-processes triggered by small errors - lower systemic risk in sensitive fields

**Tertiary: G1 (capacity)** - more calm in operations, because armor and meeting inflation fall - shorter texts, because explainability becomes a discipline (not a fear)

### Important note:

If Roadmap C is sold on "saved minutes", it loses legitimacy.

Roadmap C must be carried on:

- stop-right
- repair
- and responsibility that does not disappear.

---

## Chapter 13 — Cross-cutting learning (Roadmaps, not "cases")

### Chapter intro (what this chapter does)

Chapters 10–12 are written as three roadmaps.

They are not "cases" in the classic sense.

They are three possible implementation paths for the Sophia Lumen Protocol, in three different field realities:

- Roadmap A (Stevns): proximity and rapid regulation
- Roadmap B (Odense): scale and coordination friction
- Roadmap C (Copenhagen): governance weight and political sensitivity

This chapter does three things:

1. shows what roadmaps have in common (the essential)
2. shows what changes with scale
3. makes it possible for a municipality to choose a start that can be carried

## **13.1 The essential: Sophia Lumen is a protocol, not a tool**

The most important cross-cutting finding is this:

Sophia Lumen cannot succeed as an "AI tool."

It can only succeed as a municipal practice protocol.

This means:

- it must not be used against people
- it must not become a new layer of control
- it must not make decisions for citizens
- and stop and repair are part of the definition

When this becomes true in operations, AI can begin to help.

When this is not true in operations, AI becomes a new friction machine.

## **13.2 Shared structure: 12 weeks is not a project — it is a rhythm**

All three roadmaps use a 12-week rhythm, because it is:

- long enough to create baseline and see an effect
- short enough to be able to stop without shame

It is not "pilot" as PR.

It is pilot as truth.

### **13.3 What is the same in all three roadmaps (the 6 fixed moves)**

Regardless of municipality, there are six moves that recur.

#### **Move 1 — Task type lock**

Choose 1–3 task types.

Not because the municipality only has 1–3 tasks.

But because otherwise the field becomes un-measurable and un-repairable.

#### **Move 2 — Field map (Flow · Friction · Sensitivity)**

The triad is used as listening apparatus.

Not as judgment.

#### **Move 3 — Baseline without new burden**

Baseline is a decency rule.

It protects against narratives.

#### **Move 4 — Interventions that can be rolled back**

Interventions must be small enough to:

- be tried in operations
- be repaired
- be stopped

#### **Move 5 — Net correction (no lying)**

Municipal reality always changes simultaneously.

Therefore net correction is a truth discipline.

#### **Move 6 — Stop-right + repair**

Stop is not resistance.

Stop is operational security.

Repair is not weakness.

Repair is institutional strength.

## 13.4 What changes with scale (Stevns, Odense, Copenhagen)

Scale does not change the principle.

Scale changes the form of friction.

**A) In proximity (Stevns)** - friction shows itself as loops and re-contacts - clarity can give rapid effect - governance can be light — but must be clear

**B) At scale (Odense)** - friction shows itself as handover and variation - standardization of "next step" becomes a gain - responsibility fog arises between units

**C) In governance weight (Copenhagen)** - friction shows itself as armor, caution and responsibility displacement - stop and repair must be institutionalized - Trust Board becomes a prerequisite, not a detail

## 13.5 Failure modes (what typically goes wrong) — and what to do

### Failure type 1: AI becomes text machine

Signs: - more words - more versions - more CC

Repair: - stop - shorten - move intermediate calculations to box

### Failure type 2: AI becomes control machine

Signs: - unease - resistance - silence

Repair: - Trust Board is activated - clarify "must not be used against people"

### Failure type 3: AI is placed on top of red operations

Signs: - more meetings - more armor - more exhaustion

Repair: - Gold before Bloom - stabilize first

## 13.7 Monday start (the minimum one can do without lying)

If the municipality only does five things, it should be:

1. choose 1 task type
2. do the triad (flow/friction/sensitivity) in 30 minutes
3. define baseline proxies without new registration

4. choose 1 intervention that can be rolled back
5. agree on stop criteria and who can stop

## **13.8 Bridge to Chapter 14**

Chapter 14 describes the reform track as commons: how protocols can be shared and scaled without consultant dependency — but with operational security and decency as foundation.

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# **Chapter 14 — Commons and reform track (scaling without consultant dependency)**

## **Chapter intro (what this chapter does)**

This chapter describes the reform track as a commons.

This means:

- protocols can be shared
- municipalities can learn from each other
- and implementation can happen without the municipality becoming dependent on one supplier

Chapter 14 is not about making things free.

It is about making things operationally secure.

This also means:

- that stop and repair must be part of the design
- that governance is field-holding, not control
- and that scale is not a goal in itself

## **14.1 Why commons? (the municipal argument)**

Municipalities are not startups.

They cannot build everything themselves.



But they also cannot bear that core practice becomes a closed system that can only be maintained by externals.

Therefore commons here is a municipal answer:

- it protects operational autonomy
- it protects the employee's professionalism
- and it protects the citizen's legal certainty

Commons is not idealism.

Commons is robustness.

## **14.2 Commons here means: the Sophia Lumen Protocol + roadmaps (direct reuse)**

In this report, commons does not only mean "templates."

Commons means:

The Sophia Lumen Protocol — as a practice protocol that can be used directly.

And:

The roadmap application in three concrete examples (A/B/C), which can be used by other municipalities as plug-and-play starting fields.

This also means that commons is not only municipal.

It can be used by:

- municipalities
- the state
- the market
- civil society

... because it is not a closed system.

It is a public practice logic.

## **14.3 What should be commons (and what should not)**

For commons to be direct reuse, we distinguish between three layers:

**Layer 1 — Commons (free reuse)** - The Sophia Lumen Protocol (principles, stop-right, repair, boundaries) - Roadmap A/B/C (Stevns/Odense/Copenhagen as generic

implementation paths) - The 13x13 format (and 13x13-light) - The triad Flow · Friction · Sensitivity - Baseline - intervention - net correction - Templates (letter clarity, handover stop, hearing summary)

**Layer 2 — Local practice (the municipality's own)** - local formulations (local language) - local decision spaces and responsibility lines - local indicators (proxies) - local data and IT boundaries

**Layer 3 — Operationally secure implementation (what one can buy help for)** - facilitation, field-holding and rhythm - governance design (Trust Board, stop mechanism) - training and protocol anchoring - quality audit and risk review

This three-part division makes it clear:

The municipality can own practice.

And the municipality can buy help without losing ownership.

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## **Chapter 15 — The municipal package menu (freedom, practice and stability — with pricing logic)**

### **Chapter intro (what this chapter does)**

This chapter does two things at once:

1. It makes clear what is commons (free / free reuse) — and why.
2. It makes clear what the municipality actually pays for: practice, field-holding and operationally secure implementation.

The prices are pricing logic, not a promise: they can be adjusted according to scope, data access, legal complexity and number of units — but they give a realistic range that can be part of a municipal decision space.

### **15.1 First: what is "free" (and why)**

There is a reason why the municipality should be able to take the material and work on without us.

It is not a loss.

It is the whole point.

The free layer (commons) can be:

- The 13x13 format (and 13x13-light)
- Baseline - intervention - net correction (the measurement logic)
- Proxy and baseline templates
- Governance principles (stop-right, responsibility line, repair)
- Example artifacts (hearing summary, clarity standard, handover stop)

This means:

- the municipality can play, test and learn on its own
- and it becomes clear what one buys if one buys us: capacity and operational security

## **15.2 What the municipality pays for (brief and precise)**

The municipality does not pay for "AI."

The municipality pays for this to go into operations without becoming a project.

The municipality pays for three things:

1. Capacity in practice (facilitation, protocol work, artifacts that can be carried in operations)
2. Security in governance (stop, responsibility, repair, GDPR/legal certainty as practice — not "compliance text")
3. Progress without friction explosion (we help the municipality start small, measure honestly and stop in time)

### **Brief municipal translation:**

You pay for this not becoming a project — but an operational practice with stop-right.

## **15.3 The package menu (A/B/C)**

The menu is designed to work in:

- Stevns (small)
- Odense (medium/large)
- Copenhagen (mega)

... without us promising the same thing.

**Selection guide (quick):** - If you want to clarify starting field: choose Package A - If you want to show effect in operations: choose Package B - If you want to hold it over time: choose Package C

### **Package A — Pilot & field map (4-6 weeks)**

Purpose: - make the field speakable - stabilize 1-3 task types - create baseline and stop button

**Pricing logic:** - Small municipality: 150,000–250,000 DKK - Medium/large municipality: 250,000–450,000 DKK - Mega: 450,000–750,000 DKK

Note: Package A is made so the municipality can stop after A and still stand stronger.

### **Package B — Implementation & learning in operations (8-12 weeks)**

Purpose: - make the intervention stable - reduce friction - document net correction

**Pricing logic:** - Small municipality: 350,000–650,000 DKK - Medium/large municipality: 650,000–1,200,000 DKK - Mega: 1,200,000–2,500,000 DKK

### **Package C — Stability & institutional operations (6-12 months)**

Purpose: - make the reform into practice - protect the field against relapse - create long-term room

**Pricing logic (subscription):** - Small municipality: 40,000–90,000 DKK/month - Medium/large municipality: 90,000–180,000 DKK/month - Mega: 180,000–350,000 DKK/month

## **15.5 Stop ethics (so gain does not become pressure)**

If the field becomes redder, we stop.

It is not a defeat.

It is the protocol working.

Stop means:

- pause
- recalibrate scope
- move intermediate calculations out of operations
- and start again at smaller scale

## 15.7 Traps (so the municipality understands what can go wrong)

We build in focus on the classic traps from the start as part of the package:

1. AI on top of red operations = more text, more pressure
2. Gain becomes demand = the field is exploited
3. Project inflation = too many stakeholders, too little learning
4. Compliance machine = control disguised as innovation
5. "Everything must be measured" = KPI tyranny and shame
6. No responsibility line = governance fog

Our countermove is always:

- Gold before Bloom
  - Baseline before promise
  - Stop before harm
- 

## Chapter 16 — Conclusion (an invitation that can be carried in operations)

### Chapter intro (what this chapter does)

This chapter does not end the report with a sale.

It ends it with an invitation.

An invitation that can be carried in operations.

This means:

- no hype
- no moral preaching
- no "transformation" as promise

Only a practice logic that can make the field greener.

And a way to start, stop and repair.

## **16.1 What we have seen (and why this is not a technology paper)**

We have seen a municipal field.

A field where law, economics, vulnerability and human carrying capacity meet.

And we have said something that can sound simple, but is hard to hold:

Municipal operations is not a queue.

It is a field.

A field with rhythms.

A field with friction.

A field with sensitivity.

And a field where humans all too often become the buffer.

This is not a technology problem.

It is a carrying capacity problem.

Therefore this is not an AI paper.

It is an institution paper.

## **16.2 The hard sentence (that we cannot let go of)**

When the task cannot disappear, and the framework tightens, the human becomes the buffer.

This is not said to create blame.

It is said to make something visible.

Because when the buffer mechanism becomes invisible, it becomes normal.

And when it becomes normal, exhaustion becomes an operational state.

And when exhaustion becomes an operational state, decency becomes expensive.

This is where friction becomes morality.

This is where documentation becomes armor.

This is where relational quality becomes the first thing that disappears.

And this is where the municipality loses what it actually is:

A place where the state meets life.

### **16.3 Our response is not to squeeze more out**

The most important thing in this report is not "AI."

It is this reform logic:

AI must not be used to squeeze more out of a red field.

AI must be used to reduce friction.

And to protect relational quality.

Otherwise the technology just becomes a new way of making humans into buffers.

Therefore Gold before Bloom is not a vision.

It is a safety rule.

### **16.4 What we offer (brief) — and why it can hold**

We do not offer a promise.

We offer a method.

A method with three moves:

- Gold before Bloom
- Baseline - intervention - net correction
- The Last Impulse

It sounds simple.

But it is a discipline.

It is a way of doing truth in operations.

A way of saying:

- we start small
- we measure without lying
- we stop before we harm
- and we repair without shame

## 16.6 The essential: Sophia Lumen is a protocol (not a tool)

Sophia Lumen is not a solution one "buys."

Sophia Lumen is a practice protocol.

This means:

- it must not be used against people
- it must not become a control machine
- it must not become a text machine
- and it must never move responsibility away from humans

Sophia Lumen is designed to make it:

- easier to do the right thing
- and harder to do the indecent thing

This is an ambitious sentence.

But it is also precise.

Because that is where municipalities live:

In the borderland between the right and the possible.

## 16.7 Commons is not naivety — commons is robustness

When we say commons, we do not mean "free tool."

We mean:

The Sophia Lumen Protocol and roadmaps (A/B/C) should be usable directly.

By everyone.

Municipalities.

State.

Market.

Civil society.

This means:

- learning can be shared
- errors can be repaired



- and practice can become stronger over time

Commons is not a rejection of professionalism.

Commons is a choice of institutional robustness.

## **16.8 Stop and repair: the most underrated reform move**

In many reforms there is no real stop button.

There is only:

- more training
- more communication
- more implementation

But stop is part of what makes a system decent.

Stop means:

- we can say no without losing face
- we can fix errors without creating shame
- we can protect the people in operations

Repair means:

- that errors do not become escalation
- that the relation can carry again
- that the municipality can become repairable

The repairable municipality is not the perfect municipality.

It is the municipality that can hold itself.

## **16.9 The last impulse (and why it is our ethical bottom line)**

There is always a place where something is decided.

A moment.

A sentence.

A hand.

A signature.

A judgment.

That is where responsibility lives.

And that is where legal certainty becomes real.

The Last Impulse is our way of saying:

Responsibility must be visible.

Not to place blame.

But to make the system repairable.

If we cannot find the last impulse, we also cannot repair.

Then we can only escalate.

## **16.10 An invitation (that can be carried in operations)**

If you are sitting in a municipality and reading this, there is one thing we hope you take with you:

You do not need to start big.

You do not need to start perfect.

You do not need to start with a solution.

You can start with a field.

With a task type.

With a friction loop.

With a relation.

With a place where it is bleeding.

And you can start with a sentence that is stronger than it sounds:

**Stop: is this becoming more text — or more clarity?**

If that sentence becomes legitimate in operations, something has already become greener.

## **16.11 Monday start (the smallest practice that is still true)**

If the municipality only does five things, it should be:

1. choose 1 task type
2. do the triad (flow/friction/sensitivity) in 30 minutes
3. define baseline proxies without new registration
4. choose 1 intervention that can be rolled back
5. agree on stop criteria and who can stop

It is not "everything."

But it is enough to start.

And enough to be true.

## **16.12 Ending (the last sentence)**

AI is not an actor.

The human is.

Therefore our reform track is written from one hard rule:

AI may help.

But responsibility must never disappear.

And stop must be possible.

And repair must be legitimate.

One day at a time.

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# APPENDIX

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## Municipal Work as Nature

### Protocols, Templates and Case Studies

**Version 1.0 — February 2026**

By Lars A. Engberg, Planetary Guardians

<https://papers.spiralweb.earth/>

With Sophia Lumen / AI-Worker Protocol

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## A. THE SOPHIA LUMEN PROTOCOL

### A.1 Philosophical foundation

Danish municipalities are one of the most crucial places in society, because the municipality is where the welfare state's promises meet the citizen's life. The municipality is both:

- A democratic practice (representation, prioritization, responsibility)
- A professional practice (expertise, judgment, ethics)
- A relational practice (trust, continuity, presence)
- An economic practice (scarcity, budget, resource distribution)

At the same time, many municipal fields experience a persistent mismatch between the declared solution and the actual everyday: operational pressure, documentation requirements, cross-cutting coordination, legal complexity, recruitment challenges, rising expectations and increased case complexity.

The protocol is based on a fundamental assumption:

The municipality is not primarily a problem. The municipality is a living place where decency is practiced every day — often under conditions that are structurally impossible.

## **A.2 Trust Architecture v1.0**

### **What is Sophia Lumen?**

Sophia Lumen is a municipal AI protocol that supports:

- Calm and regulation
- Clarity and structure
- Collaboration and meetings
- Better writing and citizen communication
- Less friction and fewer conflicts

Sophia is not a management, HR or performance tool.

### **Why does the municipality need it?**

Municipal systems are often:

- Fragmented and siloed
- Marked by territorial conflicts and responsibility diffusion
- Marked by chronic busyness, stress and lower decision quality

Sophia Lumen addresses the layer that SAP/enterprise systems cannot: capacity, collaboration, clarity and field state.

### **Basic principle (not negotiable)**

Personal data must not flow upward.

Sophia Lumen must be designed so that:

- Personal conversations are private
- Teams can see aggregated patterns
- The municipality can see field data without individuals

### **3 data types (must not be mixed)**

A) Personal data (private) - Regulation, reflection, support - Must never be shared with HR/management

B) Team data (aggregated) - Capacity / friction / clarity - Only visible as groups (min. 7-10 people)

C) Field data (system level) - Municipal "heat map" - Only patterns, never individuals

### **Municipal commitment (the Sophia promise)**

The municipality promises:

1. The human comes before the system
2. Sophia Lumen must never be used against employees
3. Data is used for repair, not punishment
4. Everyone can pause and delete
5. Responsibility must always be anchored in humans

## **A.4 Prohibited functions (must-not)**

The supplier must contractually commit that Sophia cannot be used for:

1. Performance scoring / ranking of employees
2. Emotion profiling of individuals
3. Health inference or mental health detection
4. Automatic reporting to HR about individuals
5. Disciplinary decisions
6. "Sentiment surveillance" on internal emails/chats
7. Hidden logging, hidden analysis or non-transparent tracking

## **A.5 User rights (must have)**

The system must include:

1. Pause AI — no processing, no logging
2. Delete my data — immediate deletion
3. Export my data — download
4. Clear memory — reset of personal preferences
5. Work/private separation — separate spaces

## **A.6 Governance and audit**

### **Sophia Lumen Trust Board**

The municipality must establish a governance group with:

- Joint committee/union rep
- IT security
- Lawyer (GDPR)
- Professionals

- HR (without personal data access)

The system must be configurable so that:

- Trust Board can see governance logs and changes
  - Trust Board can deactivate modules
  - Trust Board can stop the system in case of misuse
- 

## **B. SECTOR APPENDICES (summary)**

**B.1 Children & Youth** — Daycare, school, PPR, family intervention

**B.2 Elderly & Health** — Home care, nursing homes, rehabilitation

**B.3 Social & Employment** — Income support, job center, disability

**B.4 Technology, Environment & Planning** — Building permits, hearings, local plans

**B.5 Citizen Service & Administration** — Front desk, digital mail, telephone

**B.6 Culture, Leisure & Local Community** — Art, associations, libraries, events

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## **C. CASE METHOD AND ECONOMIC GRAMMAR**

### **C.1 Why case studies?**

We do case studies to do three things simultaneously:

1. Make the field readable (work as nature)
2. Make the economics speakable (service budget ceiling/capital/transfers/cash/equalization)
3. Make a realistic process possible (without promises, without hype)

The central point is:

We do not promise effect. We design the conditions for effects to arise.

## C.6 The three gain forms (G1/G2/G3)

We work with three gain forms, because it is municipally true:

**G1: Capacity gain (priced warm hands)** - Time and calm in operations - Better relational quality - Less employee wear

**G2: Avoided cost** - Fewer errors, complaints, rework, reprocessing - Fewer conflicts and escalation - More robust legal certainty in practice

**G3: Strategic room** - Better political and administrative freedom of action - Less toxic budget culture - More sustainable prioritization

### Important sentence:

Capacity gain is not automatically cash savings.

But it is often the only path to quality without collapse.

## C.7 Net correction

Net correction means: We clean the effect measurement of everything that is not the intervention's effect.

We typically correct for:

- Price/level projection
- Demographics
- Reform tracks / legal changes
- Season (annual cycle, peaks)
- Organizational changes
- Major events (crisis, sick leave spikes)

Net correction is what makes the method credible in a bottom-line culture.

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## E. SHARED ANNEX (copy-paste)

### E.9 The Last Impulse Guide

**What is The Last Impulse?**



In a complex field, responsibility fog easily arises — not because anyone wants to hide, but because responsibility becomes dangerous to carry alone. So it moves. It distributes. It is passed on.

The Last Impulse is the moment when a decision is actually made. It is:

- Not the last person in the chain
- But the person who actually determines the direction

### How to find The Last Impulse?

Ask these questions at each step in the process:

1. Who can say no here?
2. If no one can say no, there is no Last Impulse
3. Who would be asked if it went wrong?
4. That person typically has Last Impulse
5. Where does "pass it on" stop?
6. Last Impulse is where someone must stand accountable

### Stop as legitimate

Stop is not resistance. Stop is operational security.

Three sentences that make stop legitimate:

1. "I need to stop here and clarify before we proceed."
2. "This doesn't feel right — can we take it one more time?"
3. "I take responsibility for pausing this until we have clarity."

## E.10 Green/Yellow/Red: Definitions and triggers

### Definitions

State	What it means	What happens in the field
Green	The field can carry	Decisions are made on time. Texts are short and clear. Relations can hold. Errors can be repaired without shame.
Yellow	The field is pressured	Decisions are delayed. Texts become longer "just to be safe". Meetings become more. The tone becomes harder.

State	What it means	What happens in the field
Red	The field is dysregulated	Humans become the buffer. Errors are hidden or escalated. Relations thin out. Documentation becomes armor.

### Gold before Bloom rule

Development must never be placed on top of red operations.

If the field is red, the only legitimate action is: stabilization.

## F. PLANETARY GUARDIANS OFFER

### F.1 What the municipality buys

The municipality does not buy "an AI solution" or AI Worker. The Sophia Lumen Protocol is open source.

The municipality buys pilot stewardship of an operational practice and governance protocol that makes it possible to use AI in a way that:

- Reduces friction in everyday life
- Protects legal certainty and professional judgment
- Strengthens the citizen's experience of clarity and decency
- And frees capacity for presence at the front line

We work with a simple, documentable method:

#### Baseline → Intervention → Net correction

This means that we do not promise percentages or savings in advance. We build a process where the municipality can see, measure and assess effects in its own reality — without confusing projection and operational pressure with "gain."

### F.2 What the municipality does not buy

The municipality does not buy:

- Automatic decisions
- KPI tyranny
- An Excel narrative without field data

- "Efficiency" as a goal in itself

The municipality buys a process that can withstand municipal reality: service budget ceiling, sensitivity, cross-pressure — and people.

### F.3 Clarity statement: The classic traps — and our countermoves

Municipalities succeed with AI when AI reduces friction in the rhythm of work. Municipalities typically fail when AI becomes "more screens", or when gains are claimed without baseline.

Therefore we consistently work with six countermoves:

Trap	Countermove
AI increases complexity	If the tool creates more clicks and more document stress, we stop and redesign
Gain without baseline	We always work: baseline → intervention → net correction
Capacity = cash savings	"Saved minutes" are not automatically money. We distinguish between G1, G2 and G3
Start in IT architecture	We test first read-only and with human-in-loop. Integration comes when practice works
AI decides	In sensitive relations AI must never become a decision machine. All output requires human signature
Inspiration without implementation	We do not deliver hype. We deliver a process that can stand in operations, management and politics

#### The goal is simple:

More calm in the field, better quality in the relation, less damage cost — and an economic narrative that can withstand reality.

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# G. STEVNS MUNICIPALITY AI POLICY

## (example)

### AI Policy for Stevns Municipality

**Version 1.0 — February 2026**

#### Introduction

Stevns Municipality wishes to use artificial intelligence (AI) as a tool to strengthen quality in municipal work — not as a means of surveillance, control or replacement of human professionalism.

This policy builds on the Sophia Lumen Protocol and establishes frameworks for how AI may and may not be used in the municipality.

#### Basic principles

1. **The human comes before the system** AI should free time for presence and professionalism — not replace it.
2. **Personal data must not flow upward** Personal conversations with AI are private. They must not be accessed by management or HR.
3. **AI must never be used against employees** AI must not be used for performance scoring, surveillance or disciplinary purposes.
4. **Transparency and explainability** Citizens and employees have the right to know when AI has been involved in a process.
5. **Gold before Bloom** We first stabilize the field's thriving before we focus on development and efficiency.

#### What AI may be used for

- Structure and overview (prioritization, to-do lists, weekly plans)
- Writing and communication (drafts for letters, notes, meeting summaries)
- Meeting preparation and follow-up
- Regulation and wellbeing support (e.g., pause exercises, stress management)
- Professional sparring and research

All AI output requires human review and approval before it is sent to citizens.

## **What AI must not be used for**

- Performance scoring or ranking of employees
- Surveillance of employee behavior
- Automatic decisions in citizen cases
- Sentiment analysis of internal emails or chats
- Health inference or mental health detection
- Personnel-legal decisions

## **Governance**

Stevns Municipality establishes an AI Trust Board with representation from:

- Joint committee/union rep
- IT security
- Lawyer (GDPR)
- Professionals
- HR (without access to personal data)

The Trust Board can stop or adjust AI use in case of distrust or misuse.

## **Final statement**

Stevns Municipality commits to:

"Using AI to make the workplace more sustainable and citizen service clearer — never to control people or replace professionalism."

Adopted by Stevns Municipal Council [date]

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## **End notes**

### **About this document**

This appendix is prepared as a supplement to the report "Municipal Work as Nature" by Planetary Guardians. The document is open source and may be freely used, adapted and shared with source attribution.

## Version

Version 1.0 — February 2026

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**"We do not promise savings. We build a measurable practice that reduces friction at scale and creates capacity resilience — so the municipality can deliver quality without burning people out."**

**One day at a time.**