TRAFIKVERKET

Machine-Readable Traffic Regulation Data

From Legal Decision to Trusted Machine-Readable Traffic Regulation Data

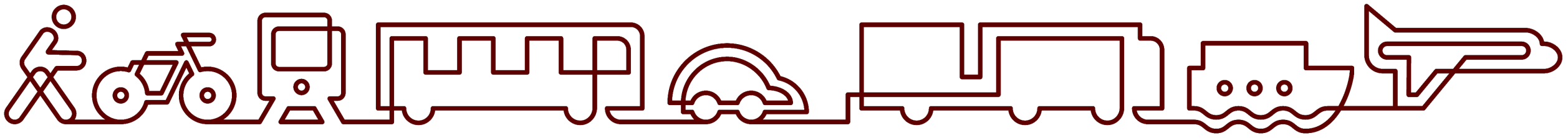
Märta Ernfors

The Swedish Transport Administration
The Swedish Transport Agency

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Why Does CCAM Need Machine-Readable Traffic Regulation Orders?

- Not every traffic rule is a sign, and not every sign can be reliably perceived.
- The vehicle needs to know more than what cameras can see
  - What is the speed limit?
  - Where does it apply?
  - When does it apply?
  - Under what conditions?
  - Has it changed?
  - Can I trust that this information is current?



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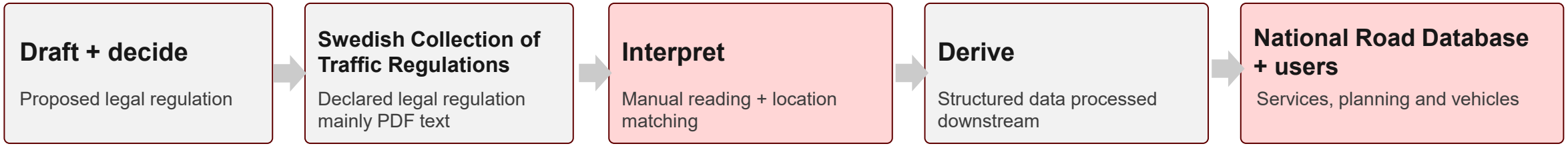
The Ecosystem – No Single Actor Can Do This Alone

How do we get the authoritative information from the public decision into an ecosystem where it can actually be used?



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Every Hand-Off Is a Potential Point of Divergence



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Digitise the Decision, not the Document

CREATE TOGETHER

Decision authority

Creates and quality-assures the rule at source; retains responsibility for content and extent.

Legally binding text

Readable by people, authorities and courts; published in the Swedish Collection of Traffic Regulations.

Structured regulation data

Rule, conditions, validity and geographic reference for machine use.

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The Target Information Flow

Every downstream data object remains traceable to the published regulation.

01
Draft + decide
E-service or drafting system

02
Verify
Format, values, network link + geography

03
Publish
The Swedish Collection of Traffic Regulations: legal text + structured data

04
Derive data
Deriving processing

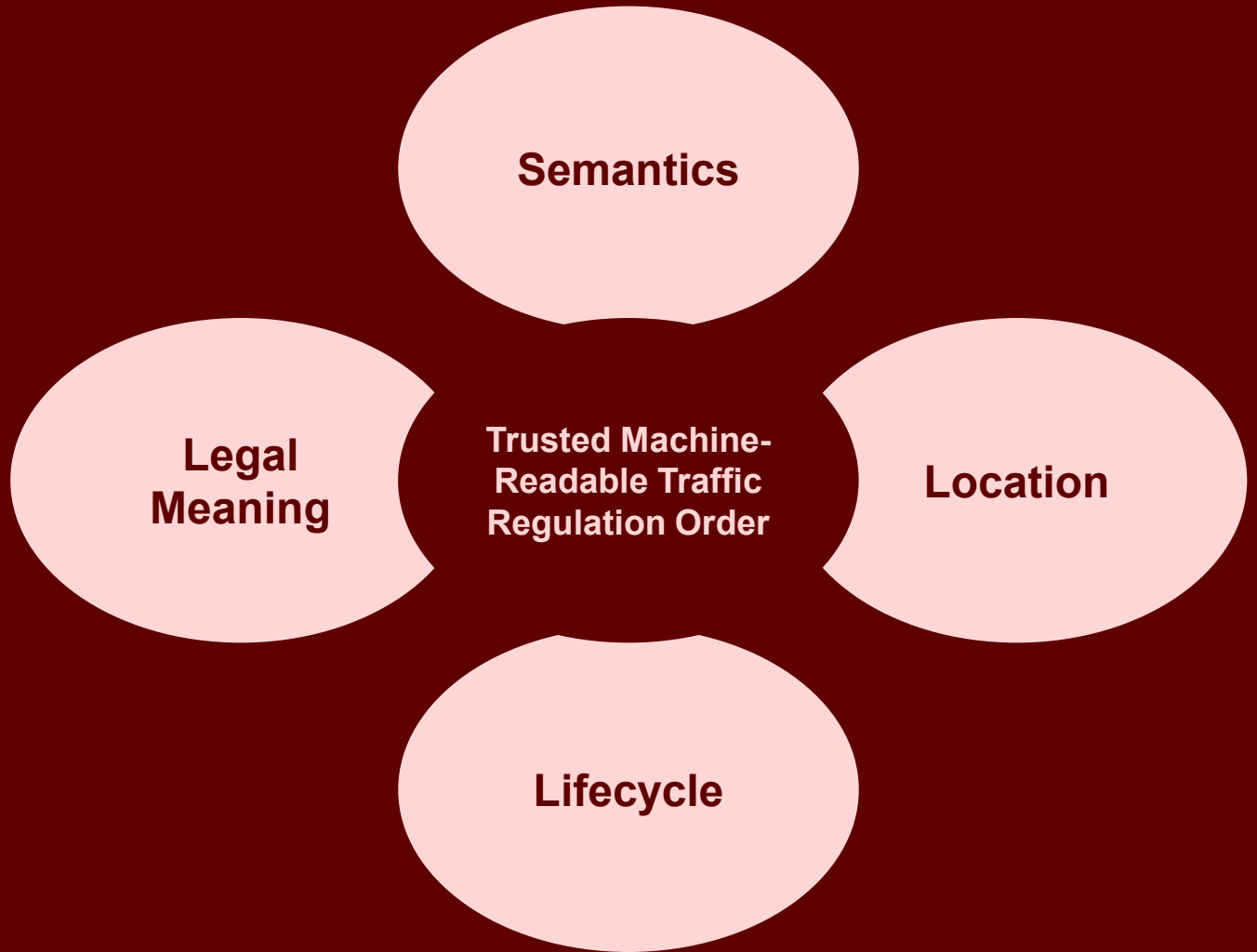
05
Distribute + use
The National Road Database → services + vehicles

ONE INFORMATION CONTRACT ACROSS THE FLOW

Specification | **Value sets** | **Location** | **Interfaces** | **Feedback**

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What Makes the Data Trustworthy?



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Interoperable Across Europe

01

Legal traceability

Resolve every digital object to its authoritative regulation.

02

Location + lifecycle

Express where, when, conditions, version and change.

03

Quality + feedback

Expose coverage and status; route corrections accountably.

What is the minimum information contract that every machine-readable traffic rule should fulfil across Europe?