Interreg Baltic Sea Region

Co-funded by the European Union

ENERGY TRANSITION
Climate-4-CAST

Turning climate targets into actionable decisions with the Climate Action Decision Support Tool

14.10.2026 I 2nd Climate Budget Summit in Brussels

Hanna Meriläinen, project manager
Climate and Environmental Policy Unit, **City of Tampere**

interreg-baltic.eu/project/climate-4-cast/





What Is the CADS Tool?

The Climate Action Decision Support (CADS) Tool is **an open-source tool developed** to help municipalities **plan, assess and prioritise** their climate actions in a transparent and evidence-based way.

It allows for **emissions and financial impact** assessments, thereby supporting the principles of **climate budgeting**.

Key Benefits for Cities and Decision-Makers

The CADS Tool strengthens political decisions by providing a clear and transparent analytical basis

The CADS Tool helps cities use limited resources more efficiently

Helps identify the **most impactful and cost-effective** climate actions

Helps track progress toward **climate neutrality targets**

Brings climate and financial data together in **one integrated framework**

Creates **transparency** and improves **communication** with decision-makers

Supports **annual climate budgeting** and prioritisation

Supports cross-departmental collaboration (climate, energy, transportation, finance)

Typical starting points for C4C Pilot cities

- Prioritisation of individual investments and measures
- Climate action plan or roadmap update
- Climate budget preparation
- Scenario discussions with political leadership

Two Core Features

Core Feature 1

Climate Action Impact Modelling:
Assessment of individual climate actions by comparing their emission reduction impacts and economic implications, such as costs, savings and cost-effectiveness.

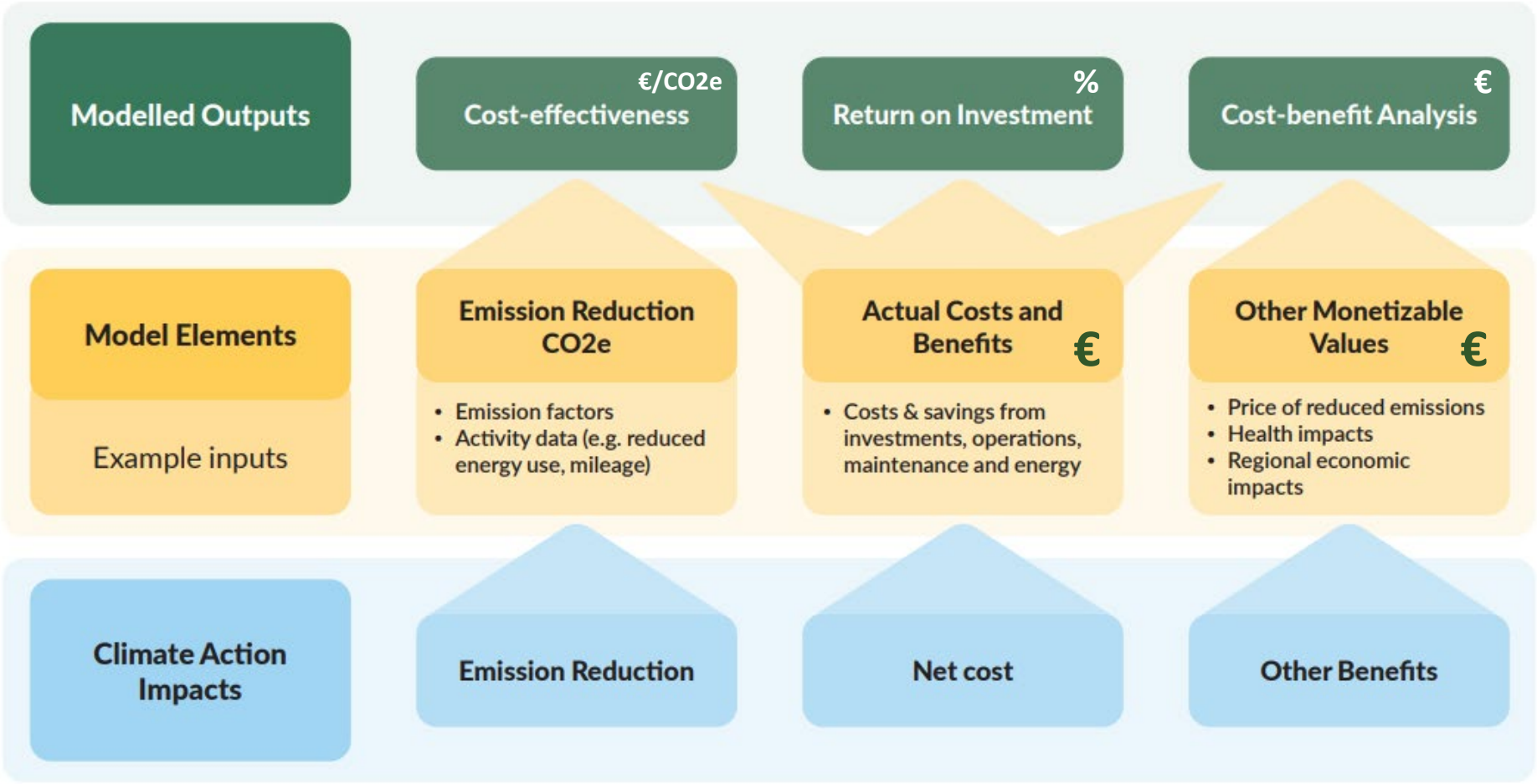
Core Feature 2

City-Level Emission Scenario Visualisation:
Development of city-level emission scenarios over time, integrating baseline trends, implemented measures and climate targets..



Copyright: Shutterstock

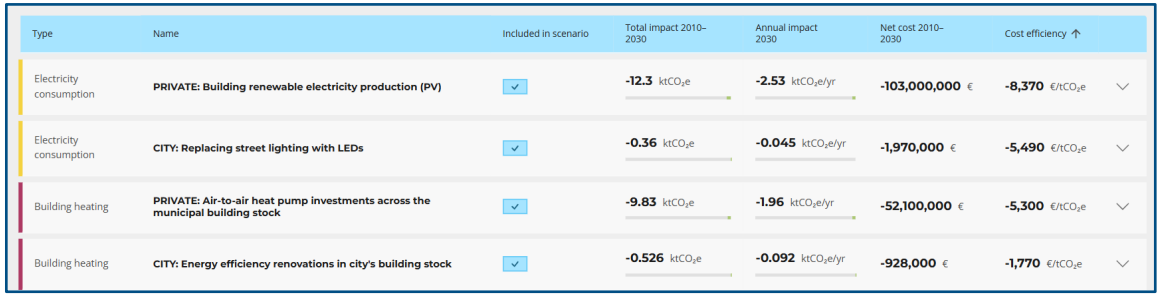
Core Feature 1:
Climate Action Impact Modelling



Core Feature 1: Climate Action Impact Modelling

Visualisation options to compare and view impacts

Impact view	
Action lists	• Measures sorted by emission impact, net cost, cost-efficiency, cost-benefit or emission sector
Impact graphs	• **Cost-benefit graphs:** What are the economic implications of climate measures • **Marginal Abatement Cost curve:** Which actions are most cost-effective • **Return on Investment:** How much benefit do the investments generate relative to their costs
Action-specific node graphs	• Costs and benefits broken down to different dimension such as cost type or owner type





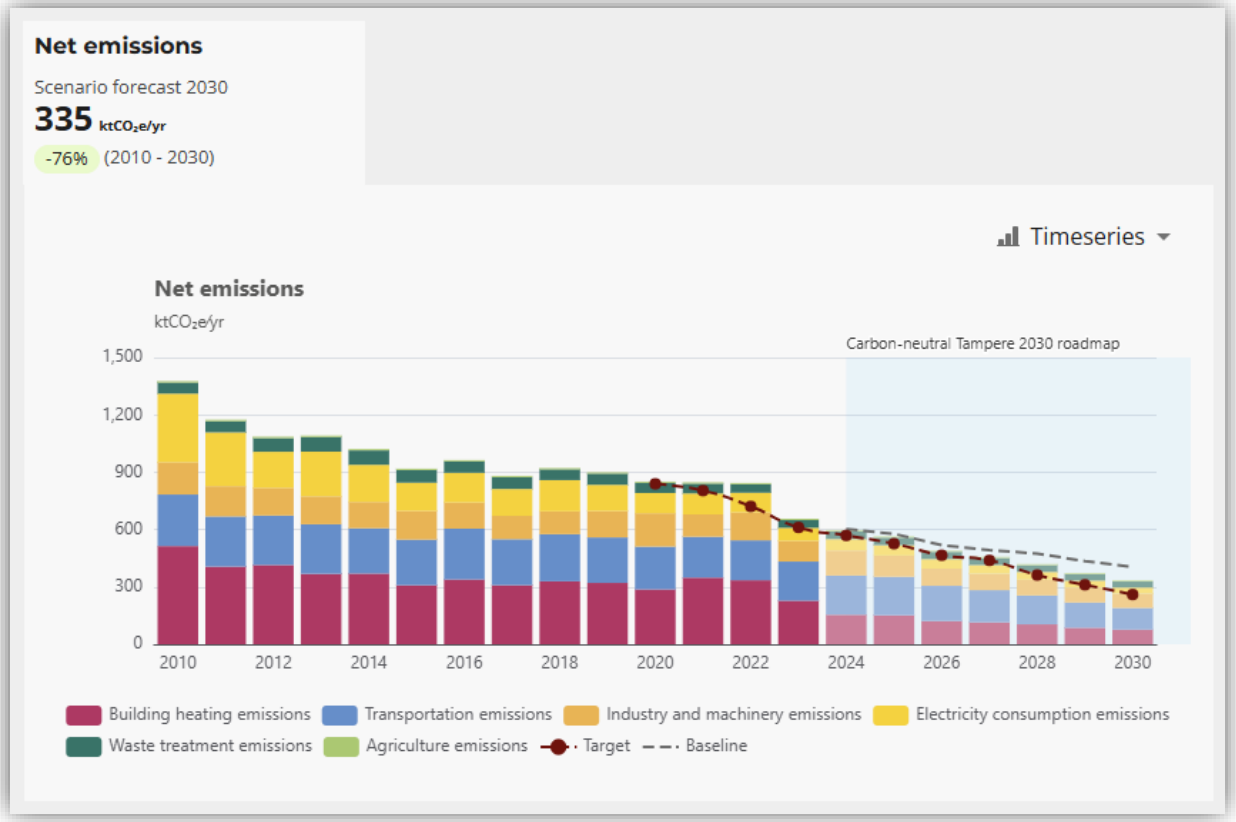


Core Feature 2: Emission scenario visualisations

Understanding the development of City-Level Emissions over time

Key Scenario Elements

1. **Baseline inventory**
   Emission development in previous years
2. **Baseline scenario**
   Emission development in future without climate actions
3. **Target overlay**
   City's official climate neutrality target
4. **Climate action plan scenario**
   Development with all climate actions ON
5. **Tailored scenarios**
   Scenario building with certain action ON/OFF



Scenario visualisations support:

- Comparing baseline and action-based scenarios
- Assessing progress towards climate targets
- Identifying the emission gap to targets
- Supporting strategic discussions and decisions

How to get started?

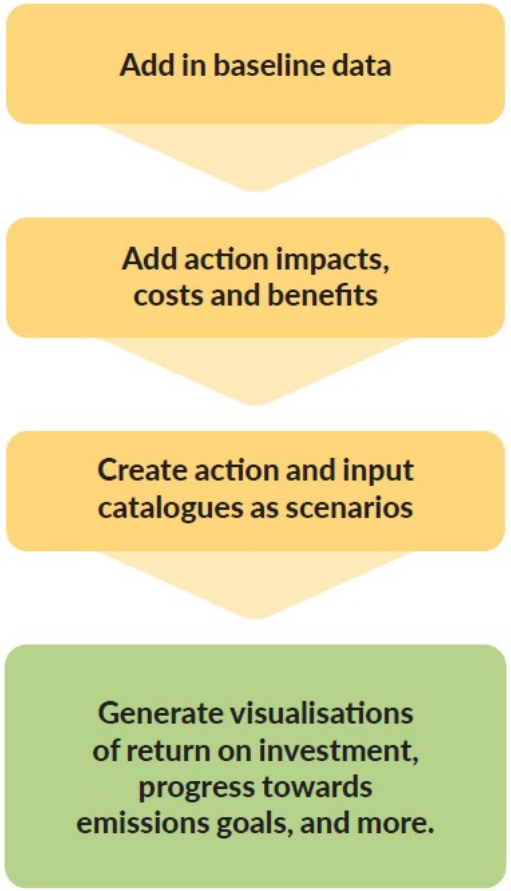
Getting started with the CADS Tool does not require perfect data or complex modelling

Flexible to start

The CADS Tool is designed to be **flexible** and **scalable**, allowing cities to start with available data and gradually deepen the level of analysis.

The building blocks of the tool:

- **Baseline emission data:** Historical & current emissions and expected emissions development without new actions (baseline forecast).
- **Climate action impact data:** Measures with estimated emission and cost impacts.
- **Scenarios and targets:** Combinations of actions and developments against city climate goals.



What a city needs to get started:

- ☑ A recent city-level emission inventory
- ☑ A defined emissions reduction target
- ☑ Planned or existing climate actions
- ☑ Basic information on actions' emissions impacts, costs or benefits.
- ☑ If available, additional details on contributing factors to action impacts such as energy price or interest rates, etc.
- ☑ A responsible team or coordinator

Open-Source Solution for All Cities

Three access options

1. **Browser based online tool:** A ready-to-use web version. Just register and start modelling your tool! CADS Tool web version.

2. **Self-hosted open-source tool code-package** (GitHub under AGPL-3.0 licence): use own IT-staff to set-up and implement the tool.

3. **Supported deployment via service providers** (SaaS solution): contract external support for implementation, maintenance and further development of the tool through specialised service providers

Scan the code for tool access options and quick set-up info:
kausal.gitbook.io/climate-4-cast-tool

For more detailed info about CADS Tool basics go see our Final Output: https://interreg-baltic.eu/project/climate-4-cast/#output-0

There you can find:

- Detailed calculation and modelling methods
- Modelling examples from C4C pilot cities
- Empty sheets for tool operationalisation

Interreg Baltic Sea Region

Co-funded by the European Union

ENERGY TRANSITION
Climate-4-CAST

Kiitos! Thank you!

Contacts:
Hanna Meriläinen, Project Manager, hanna.m.merilainen@tampere.fi

interreg-baltic.eu/project/climate-4-cast/

