

# TAMPERE. FINLAND

## HOW TAMPERE IS MOVING FROM PILOTS TO CITYWIDE IMPACT

Lessons Learned from Scaling AI and Urban Innovation

x-CITE • Tampere Pulse • VIP Tampere • Tampere AI Programme

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Every city has pilots.  
**Only some cities create capabilities.**



A working prototype is evidence.  
**A lasting capability is transformation.**

# OVER TWO DECADES OF DIGITAL CITY DEVELOPMENT

Each phase has expanded Tampere's capacity to sense, understand and act.

## DIGITAL FOUNDATIONS eTampere | 2001–2005

### CONNECT

Digital infrastructure, ICT capability and the foundations for collecting and sharing data.

## OPEN AND SMART CITY Open Tampere | 2012–2018 Smart Tampere | 2017–2021

### INTEGRATE

Open data, urban platforms, IoT and innovation ecosystems connecting city needs with new solutions.

## DATA-DRIVEN CITY Data-Driven City for Citizens | 2022–2025

### ANTICIPATE

Combining urban data and analytics to support better services, decisions and proactive city development.

## AI-ENABLED AND IMMERSIVE CITY CitiVerse | x-CITE | AI Programme

### SCALE

Building reusable approaches for connecting AI, Local Digital Twins, immersive services and urban data.

The technology has evolved.  
The long-term task has remained the same: turning experimentation into city capability.

# SCALING WHAT, EXACTLY?

## TAMPERE PULSE & IOT PLATFORM

**How can a city turn connected urban data into better decisions?**

Expand the value of Tampere's IoT platform through new operational use cases that support decision-making across the city.

**SCALE THE PLATFORM THROUGH NEW USE CASES.**

## VIP TAMPERE

**How can AI reduce friction in access to city information?**

Develop an AI assistant that can be adapted to new services, departments and internal city contexts.

**SCALE THE APPROACH, NOT JUST THE APPLICATION.**

## x-CITE

**How can different local pilots contribute to a reusable CitiVerse ecosystem?**

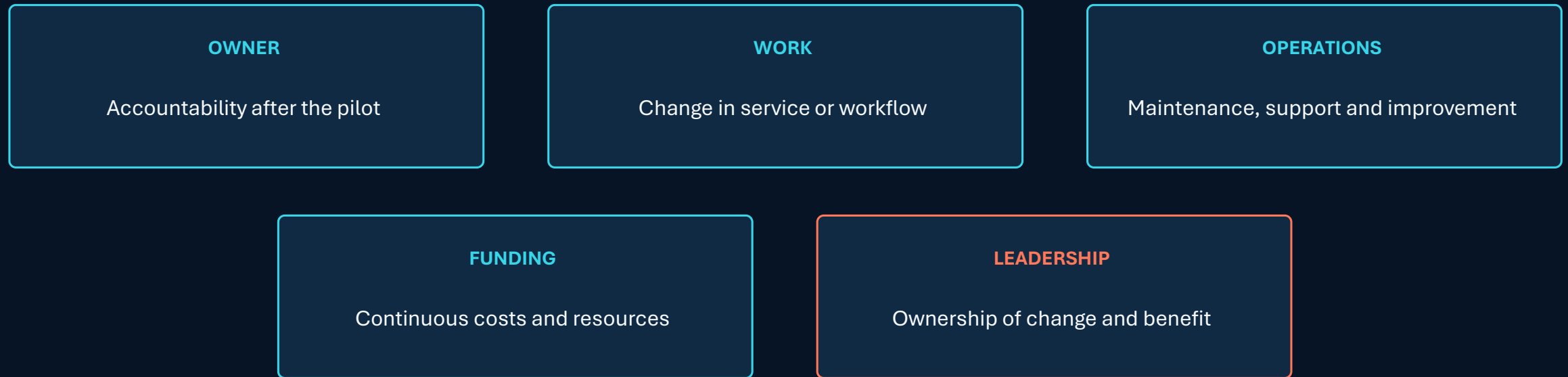
Capture and transfer what works across cities through interoperability, reuse and adaption.

**SCALE CAPABILITY THROUGH REUSE AND INTEROPERABILITY.**

**Different technologies. The same challenge: turning pilots into lasting city capability that makes the next innovation easier to create.**

# THE HARDEST PART OF SCALING AI IS NOT THE MODEL.

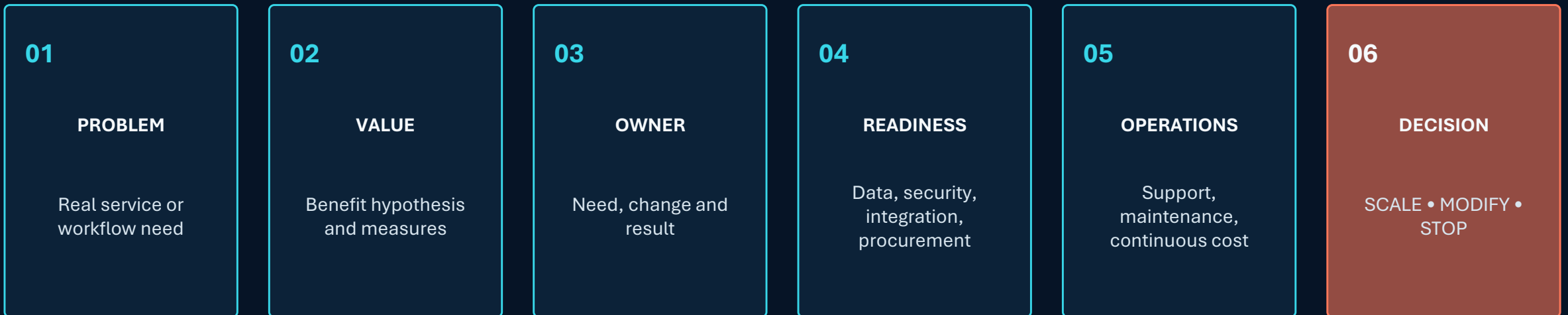
It is the organization.



**A pilot scales only when the organization changes around it.**

# EVERY PILOT NEEDS A ROUTE TO PRODUCTION.

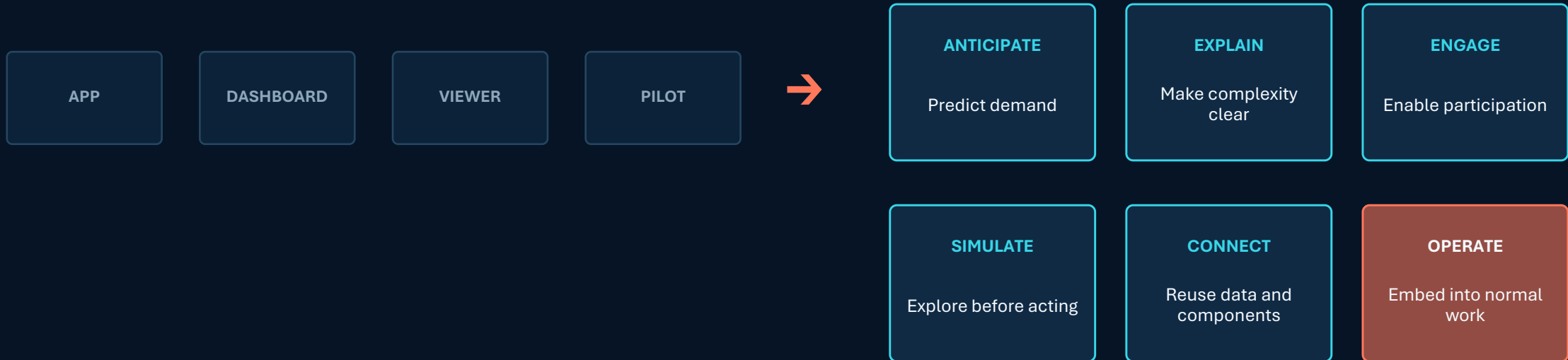
Not every pilot should scale. Every pilot should produce a decision.



**The purpose of a pilot is not to justify scaling. It is to produce a well-grounded decision.**

# WE ARE NOT JUST SCALING APPLICATIONS.

We are scaling capabilities.



**Scale valuable use cases and reusable capabilities, not technology as such.**

The reusable asset may be a component, interface, dataset, method, operating model or governance practice.

# FOUR PRINCIPLES FOR SCALABLE URBAN INNOVATION

## 01 BUILD ON SHARED FOUNDATIONS

Create platforms, data, processes and capabilities that enable multiple services and use cases.

*Scale what others can build on.*

## 02 DESIGN FOR REUSE

Separate reusable components from local implementation details.

*What is reusable should travel. What is local should adapt.*

## 03 SCALE THROUGH REAL AND NEW USE CASES

Capabilities grow when new stakeholders adopt them for new purposes and contexts.

*Scale happens through use, not deployment.*

## 04 PROVE VALUE IN PRACTICE

Demonstrate measurable value for users, decision-makers and city operations.

*Adoption is the ultimate test of scalability.*

**Cities do not scale projects. Cities scale capabilities that enable new projects.**

# Every pilot should build lasting capability.

## PROVE

- Define the intended benefit
- Establish a baseline
- Measure outcomes, not outputs
- Distinguish efficiency from impact
- Demonstrate value for users and operations

## EMBED

- Integrate into workflows and services
- Assign an operational owner
- Connect benefits to normal management processes
- Define how released capacity is used
- Make the capability part of everyday operations

## LEAVE BEHIND

- Reusable architecture and interfaces
- Data models and governance practices
- Procurement and operational requirements
- Evidence, methods and lessons learned
- Skills and organisational knowledge

The scalable city is not built from one platform.

**The scalable city grows through reusable capabilities, interoperable components and shared learning.**

The challenge is not creating more pilots.

**It is making every pilot contribute to lasting urban capability.**

Thank you

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