

The National Procurement Agency

— *A plan for green procurement of electronic equipment*



Ympäristöministeriö
Miljöministeriet
Ministry of the Environment

Meet the Team



Ilari Laitinen

International
Design Business
Management (IDBM)



Anna Pyyluoma

Industrial and
Collaborative Design



Noomi Schulman

Creative Sustainability

Every year in Finland,

35 billion €

is spent on public procurement
of work, goods and services.



Out of this,

20%

is spent on IT equipment
(equals 7 billion €)

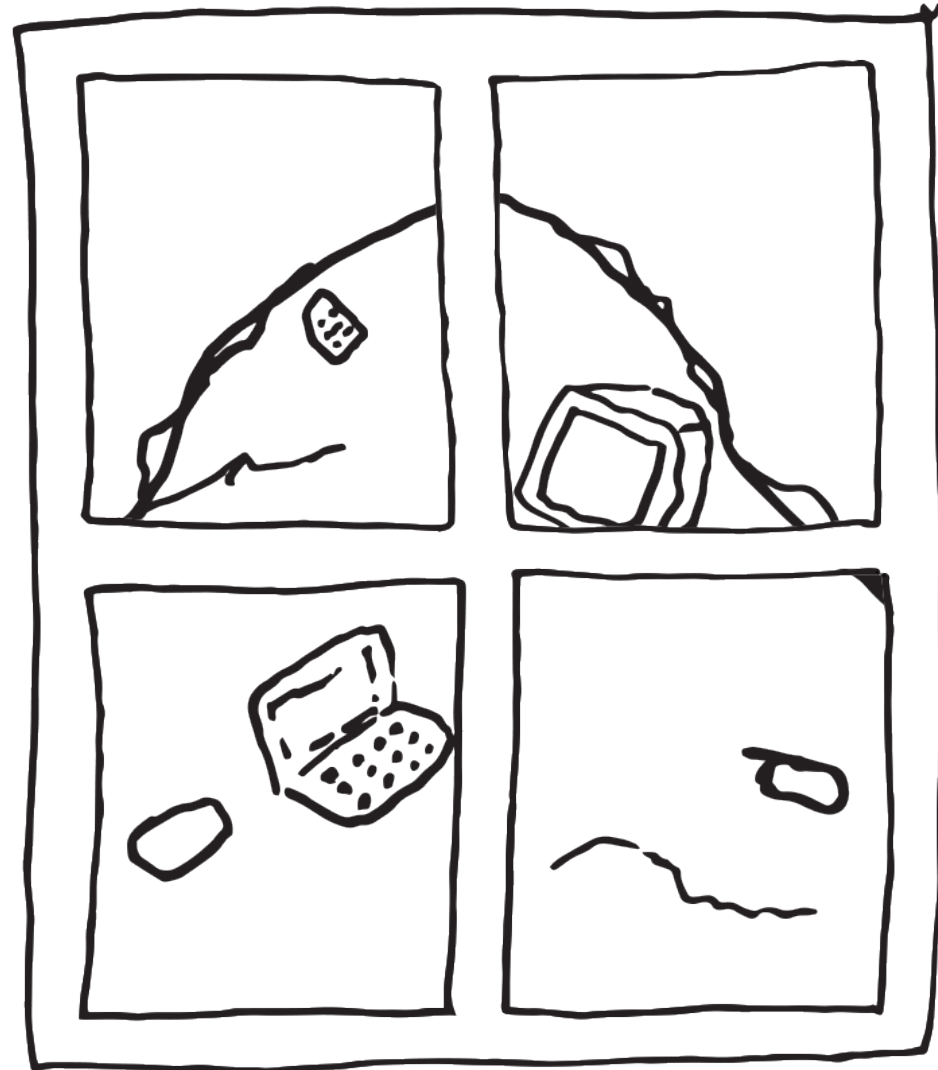
In a basic contract of IT equipment,

1-year warranty

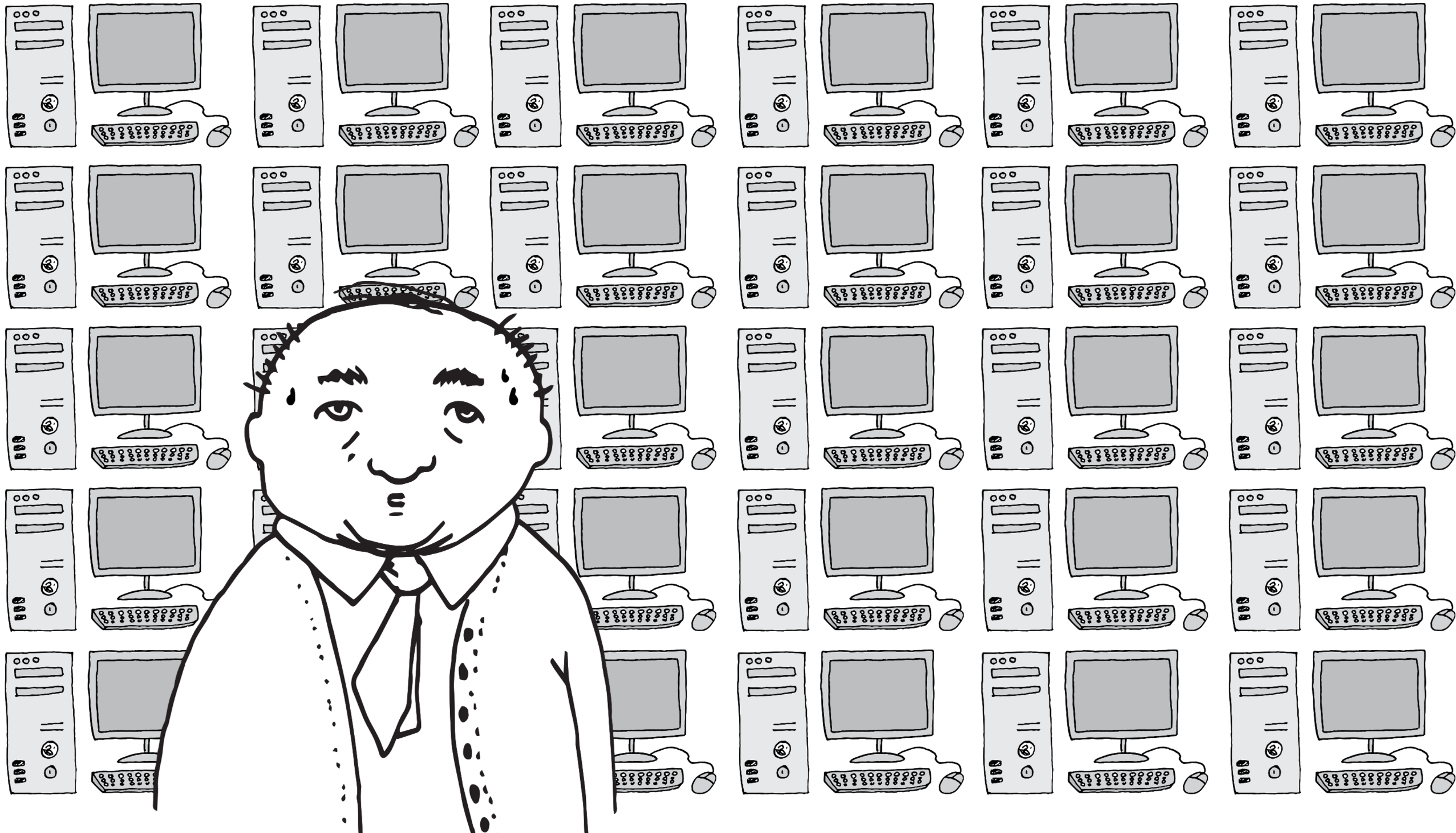
is the norm.



Meet Pasi, the procurer.



MUNICIPAL STRATEGY:
SAVE MONEY, NOT NATURE



cloudia®

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Motiva

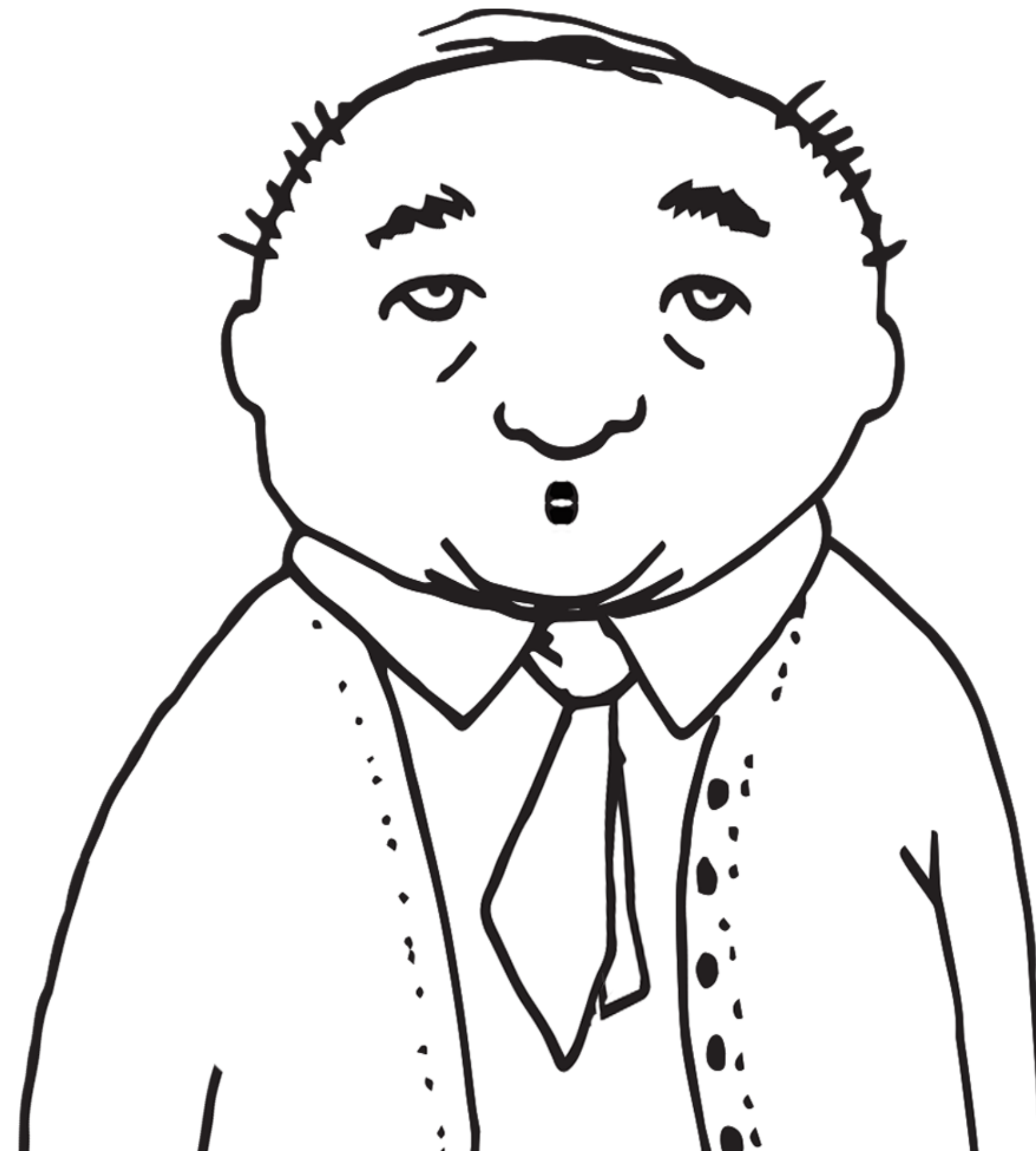


HANSEL

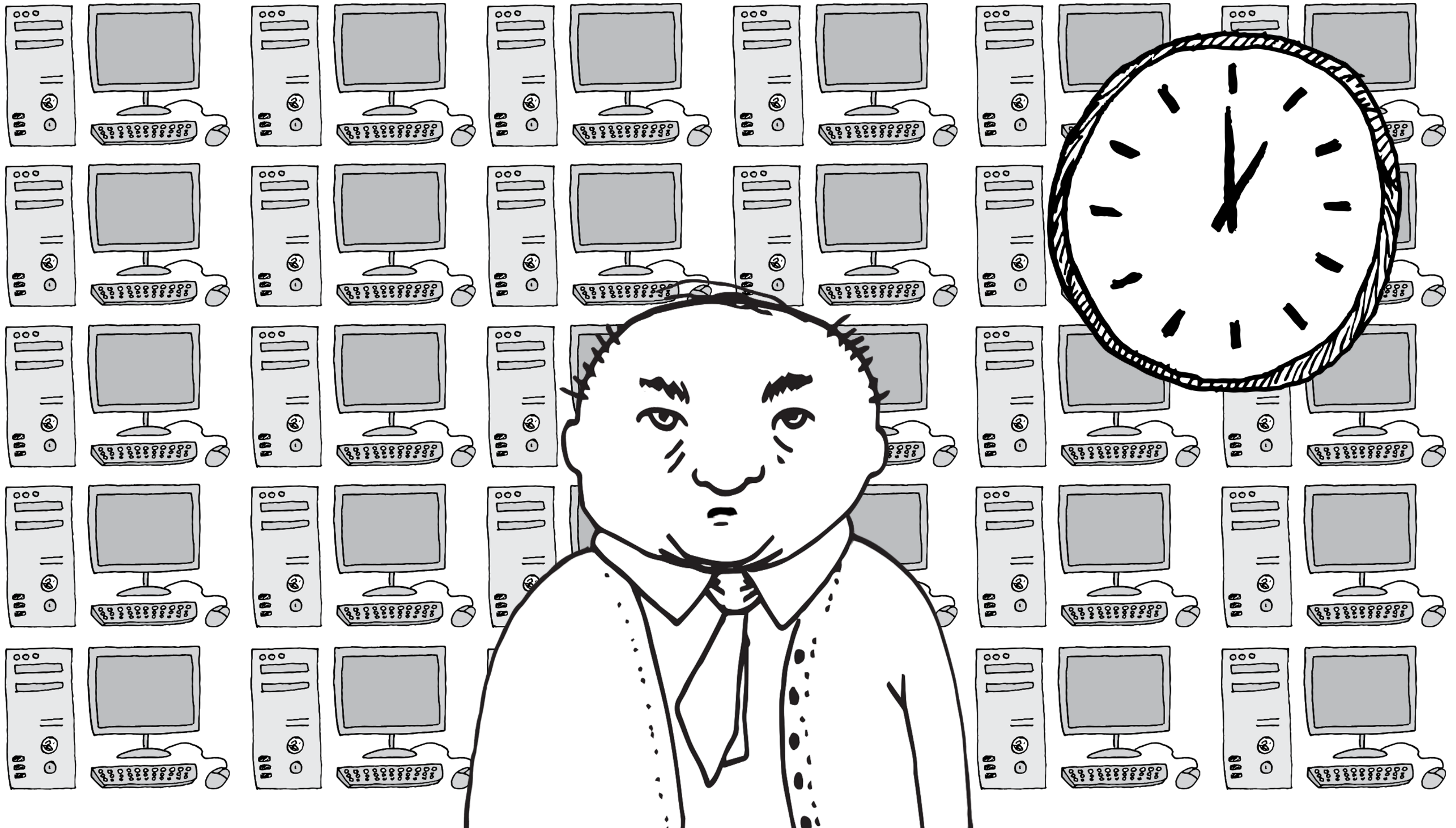
hanki

Kunta
hankinnat

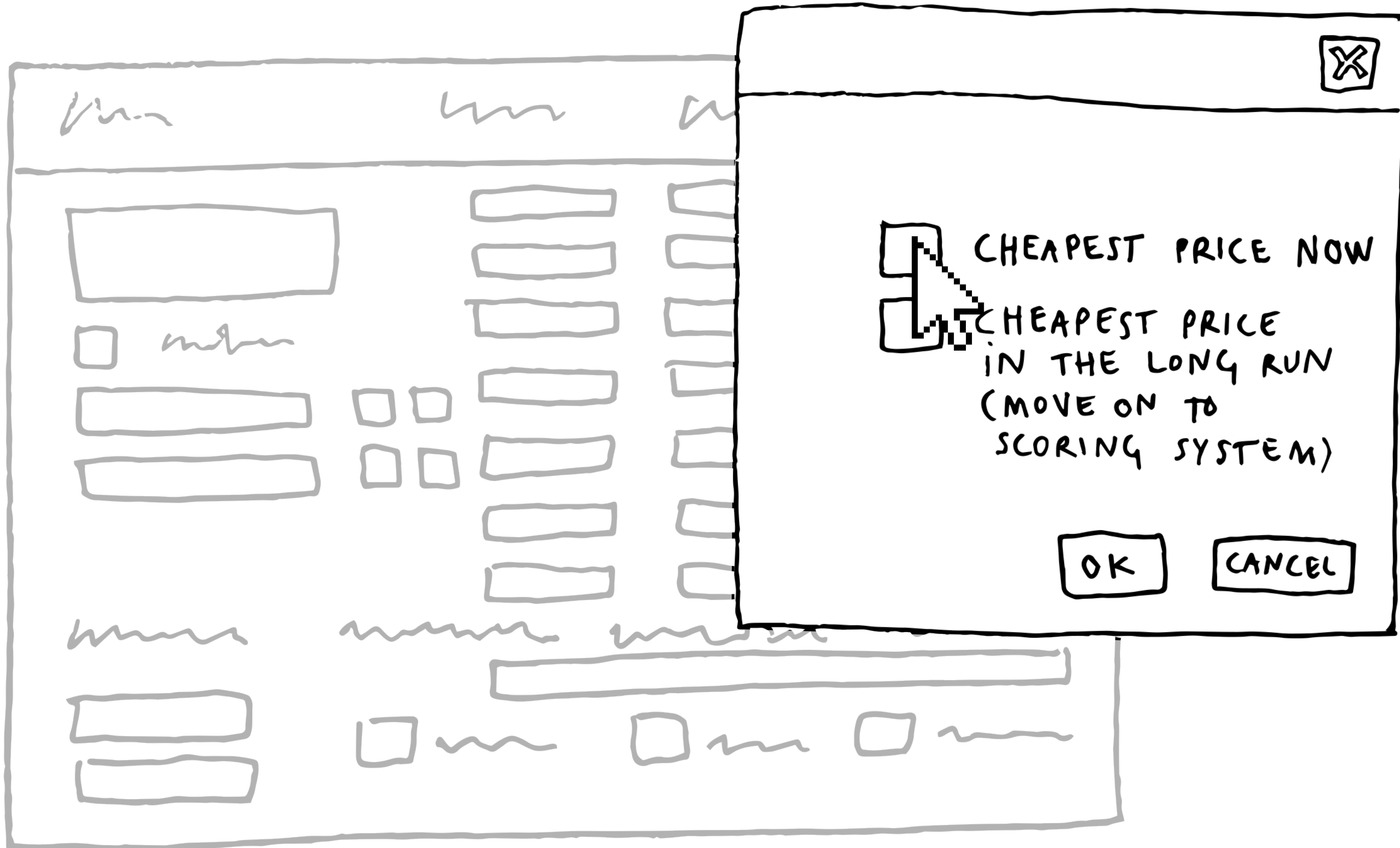
HILMA
Julkiset hankinnat

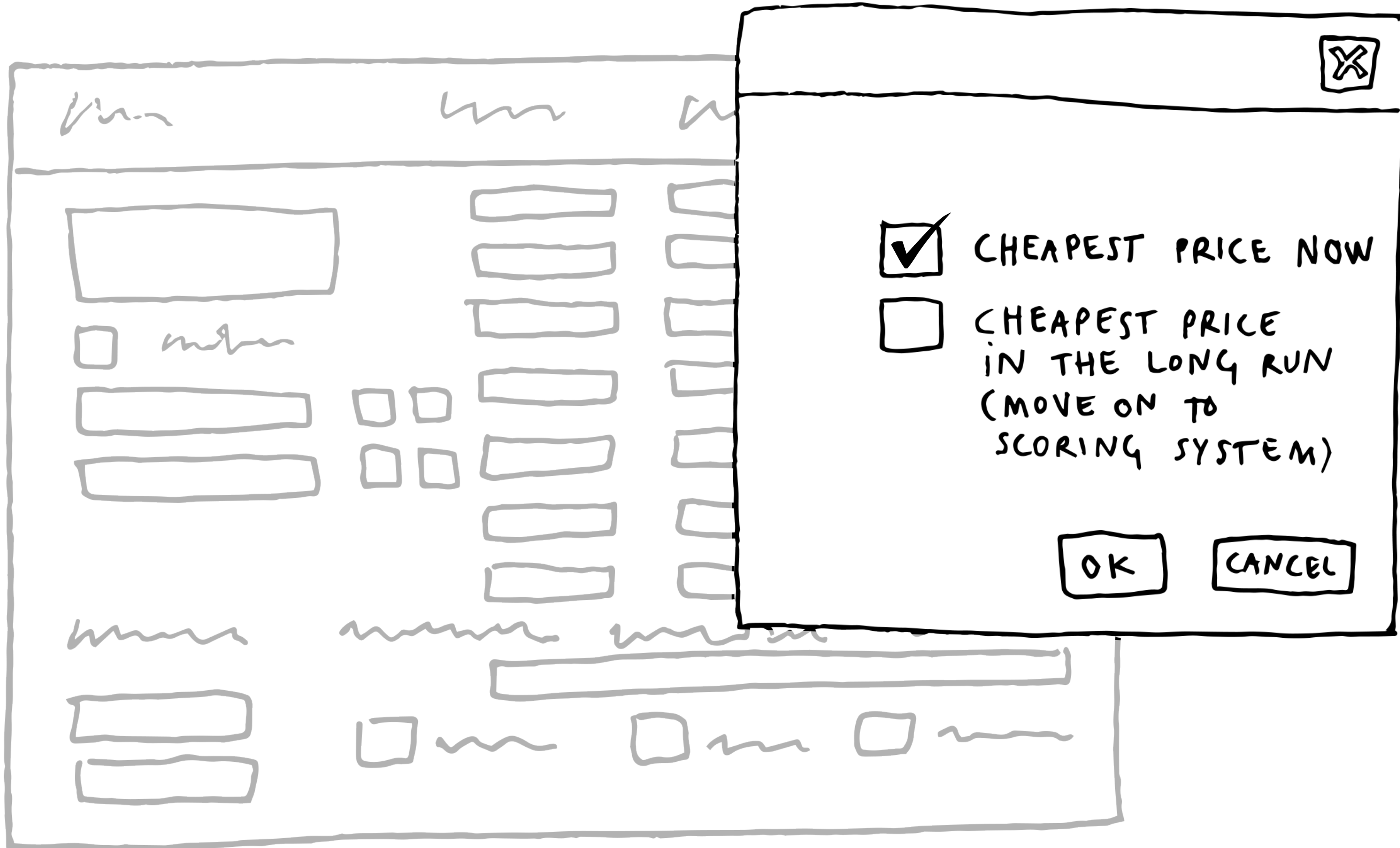












The Challenge:

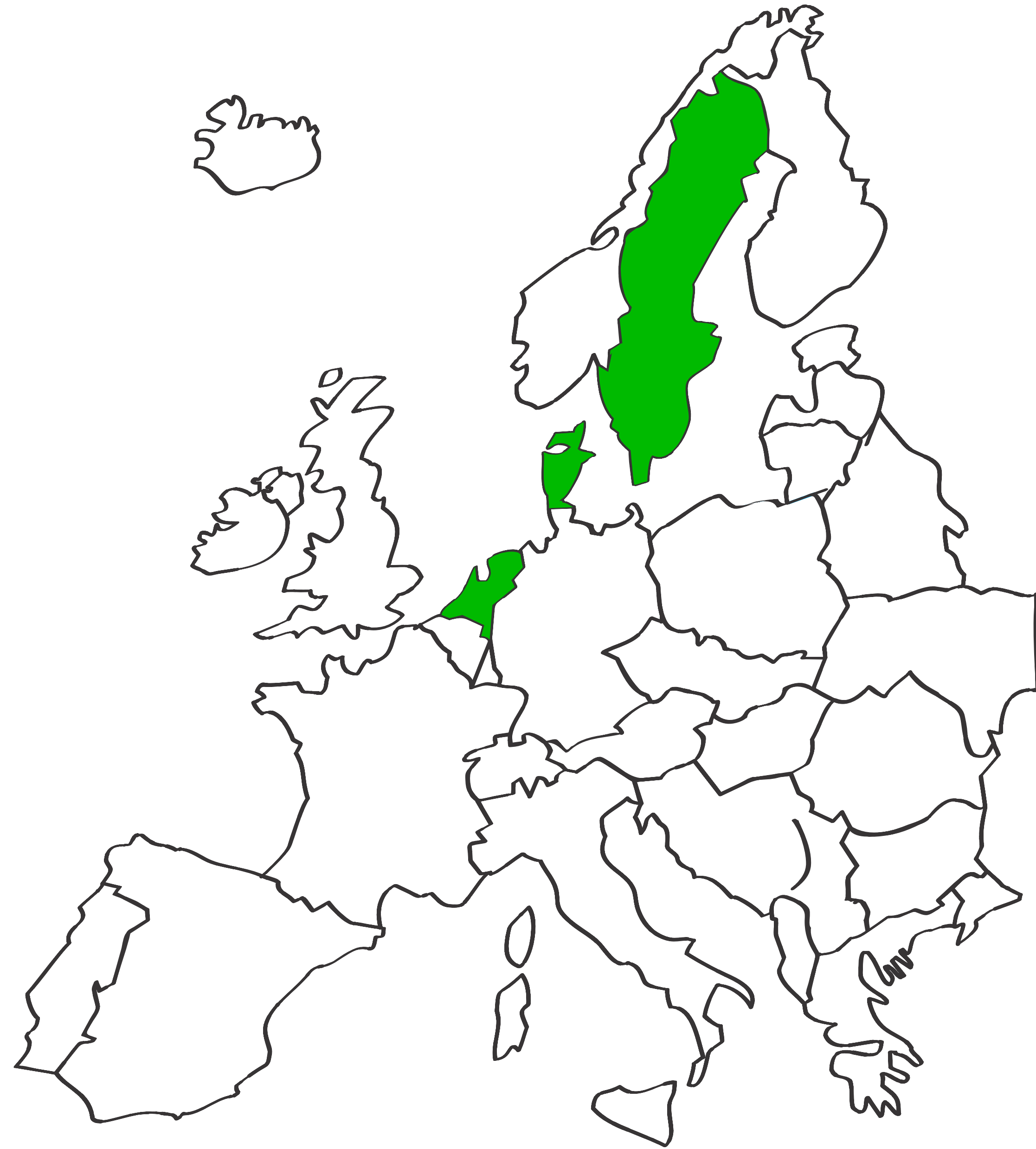
- **Lack of practical support**

The Challenge:

- **Lack of practical support**
- **Lack of continuity**

The Challenge:

- **Lack of practical support**
- **Lack of continuity**
- **Lack of coherence**



Our Goal:

**To ensure sustainability is
a priority in public procurement.**

The Proposal

1. The Procurer Assistant

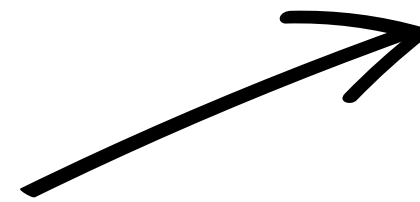
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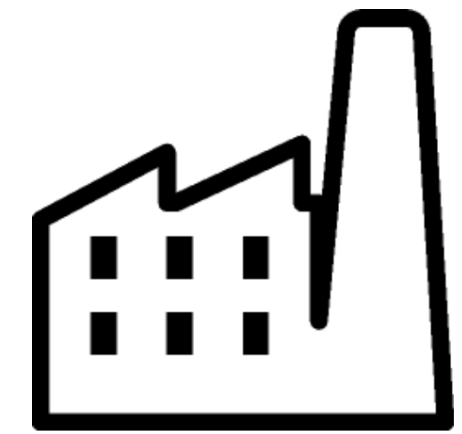
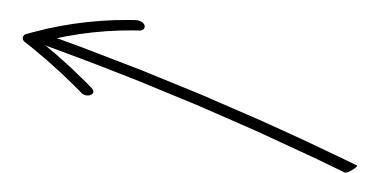
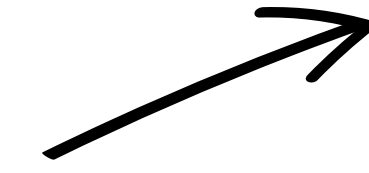
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Sustainable Requirement Library



Basic Requirements for Computers

Listed below are the basic environmental requirements based on your selections. You can get more information by clicking on each requirement.



Energy Efficiency

Points will be awarded/price reduction will be applied for the tender that fulfills the criteria that offered products are more energy efficient than Energy Star for Computers version 6.0 chapter 3, based on the TEC-value (kWh/year).

[Verification](#)[Download](#)

Warranty

Additional points will be awarded if the supplier can provide an adequate warranty and ensure spare part availability. These qualification requirements can be used as a vehicle for improving the potential usable lifetime of the IT equipment.

[Verification](#)[Download](#)

Repairability

Additional points will be awarded if the supplier takes durability, longevity and reparability into consideration. These qualification requirements can be used as a vehicle for improving the potential usable lifetime of the IT equipment.

[Verification](#)[Download](#)

Recyclability

Additional points will be awarded if the supplier takes re-use and recycling at the end of the life-cycle into consideration. IT products such as computers contain hazardous materials, as well as valuable elements that be recycled for reuse.

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Follow-up Tool for Case Studies

Case: City of Helsinki

Environmentally-friendly office IT equipment in Helsinki

Procurement Objectives

In 2016, The City of Helsinki introduced stringent new environmental requirements for purchasing computers. The new stipulations include energy efficiency, longer warranty periods, repairability, recyclability, the use of recycled plastic in new products and eliminating lead, mercury and halogenated flame retardants from new computers.

The City owns about 40,000 desktop and laptop computers. It will be one of the first major Finnish enterprises to have longer lifecycles in both laptops and desktop computers.

Used Requirements

The new stipulations include energy efficiency, longer warranty periods, repairability, recyclability, the use of recycled plastic and eliminating lead, mercury and halogenated flame retardants from new computers.



Energy Efficiency



Recyclability



Repairability



Longer Warranty

Environmental Impacts

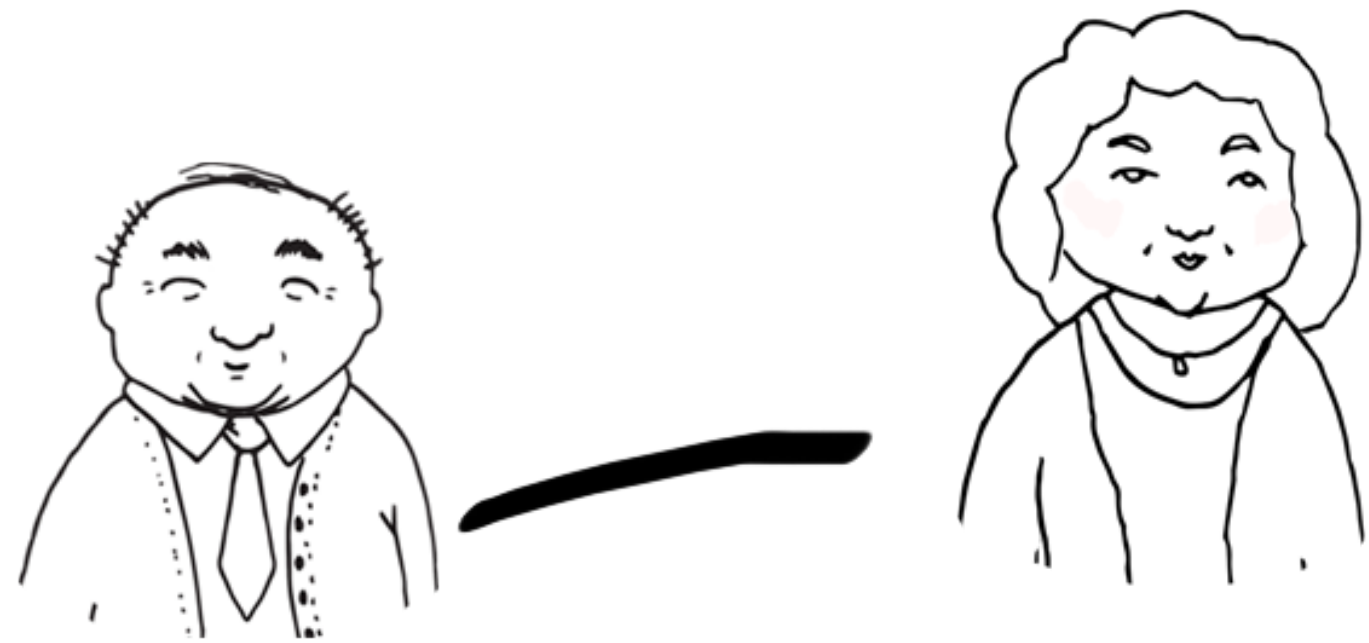
The application of the latest Energy Star criteria (5.0) results in energy savings during the use phase over older, less efficient models. Computers meeting the TCO criteria 05 or above diminish energy consumption and limit the use of potentially harmful substances, such as lead, cadmium and mercury.

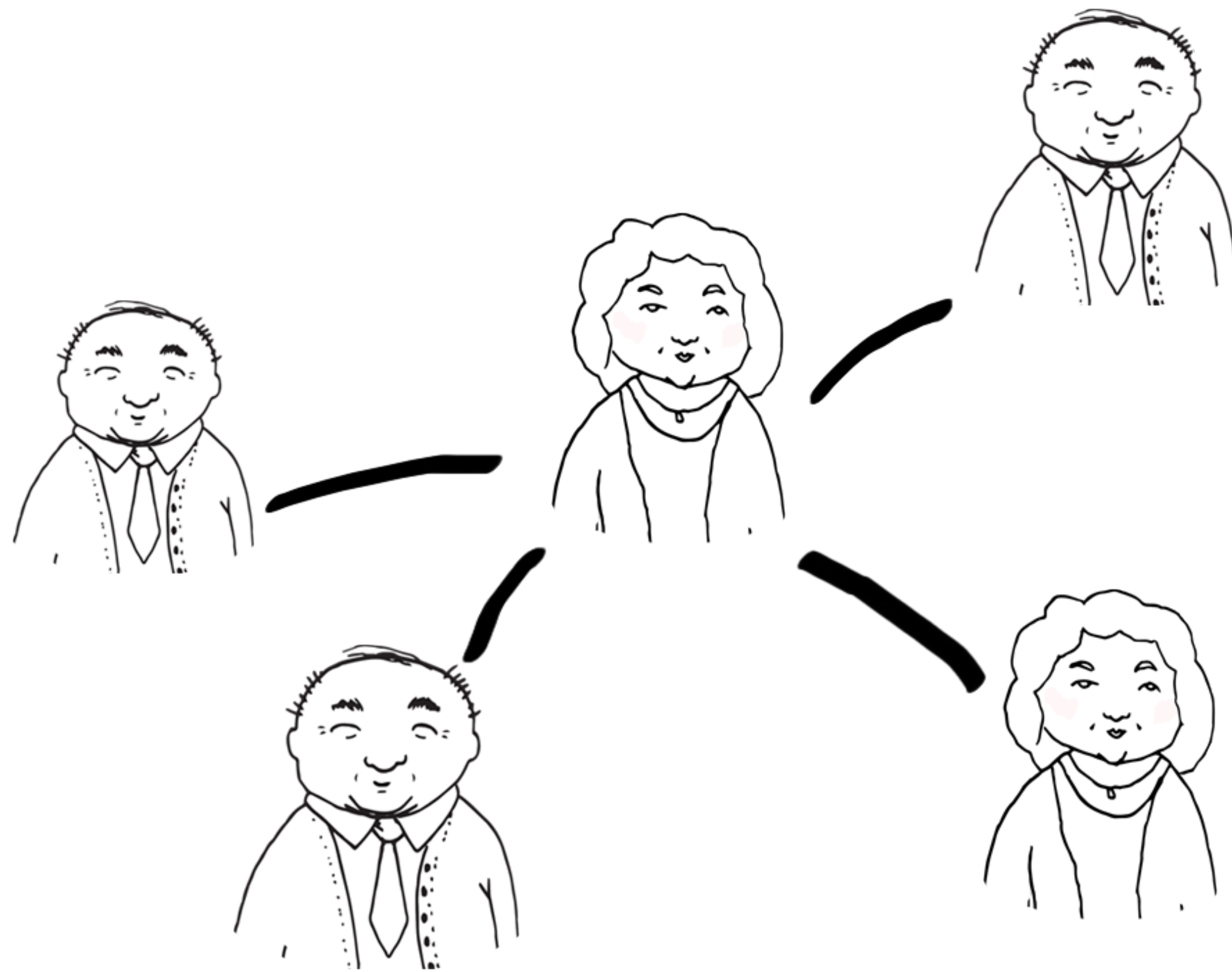
City of Helsinki owns about 40,000 computers (about 25% of all the computers in the county), and is renewing it on a rolling basis. By the end of 2014, the City expects to have lessened the climate impact of its computers - including during their use phase - by 40%, reduced the weight of hazardous substances by eight million kilograms and cut the City's carbon dioxide emissions by two million kilograms.

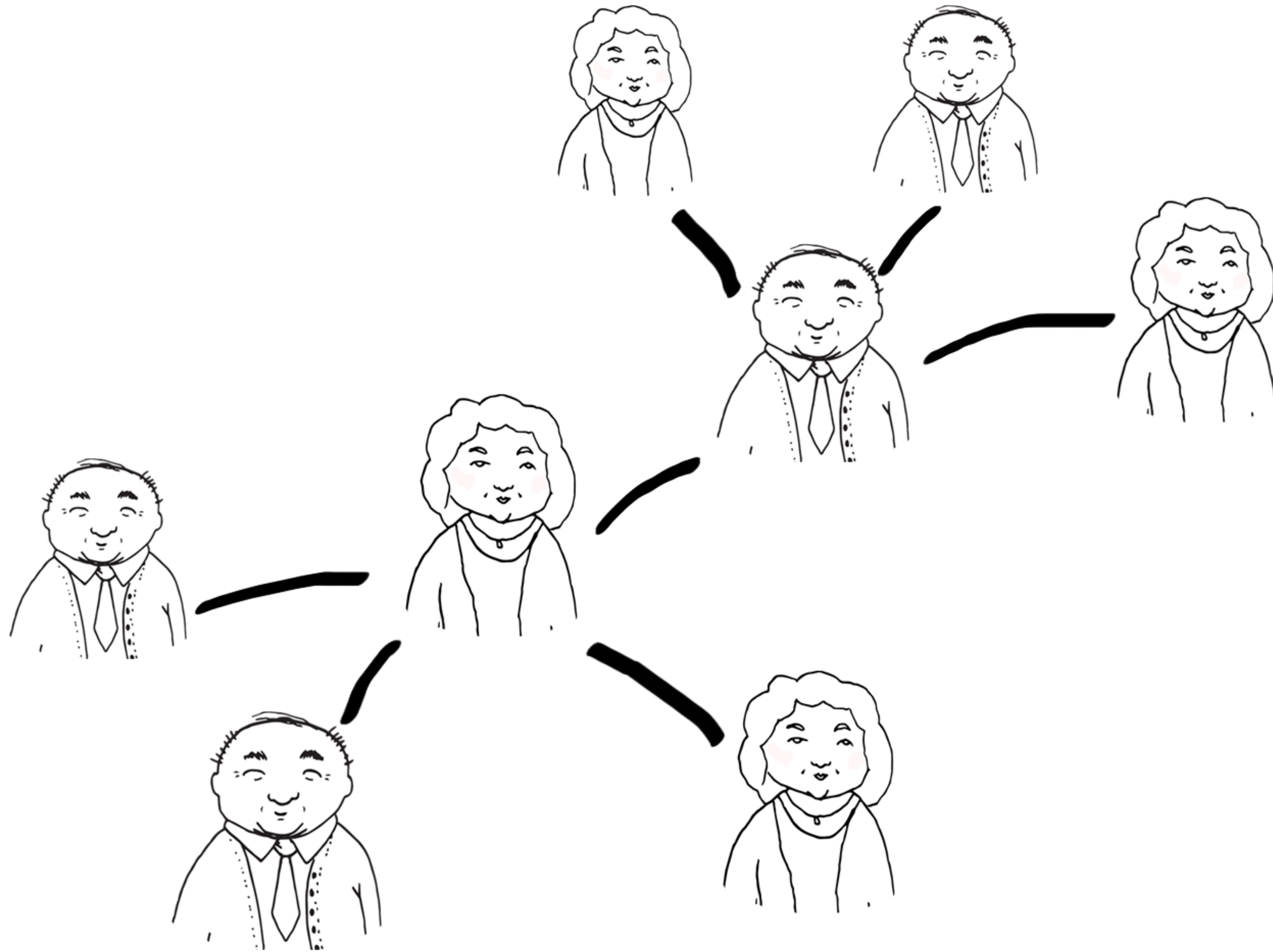
Lessons Learned

It proved difficult for suppliers to meet all of the sustainability requirements. This shows that some remain unprepared when faced with ambitious sustainability requests. However, while there is room for improvement, there is also potential for customer satisfaction as numerous suppliers were able to meet, not all, but many of the requirements. The winning supplier did succeed in fulfilling all of the requirements. As other suppliers are likely to take steps to meet the sustainability requirements indicated in the tender, City of Helsinki would employ the same procedure again.

2. Mentoring Program



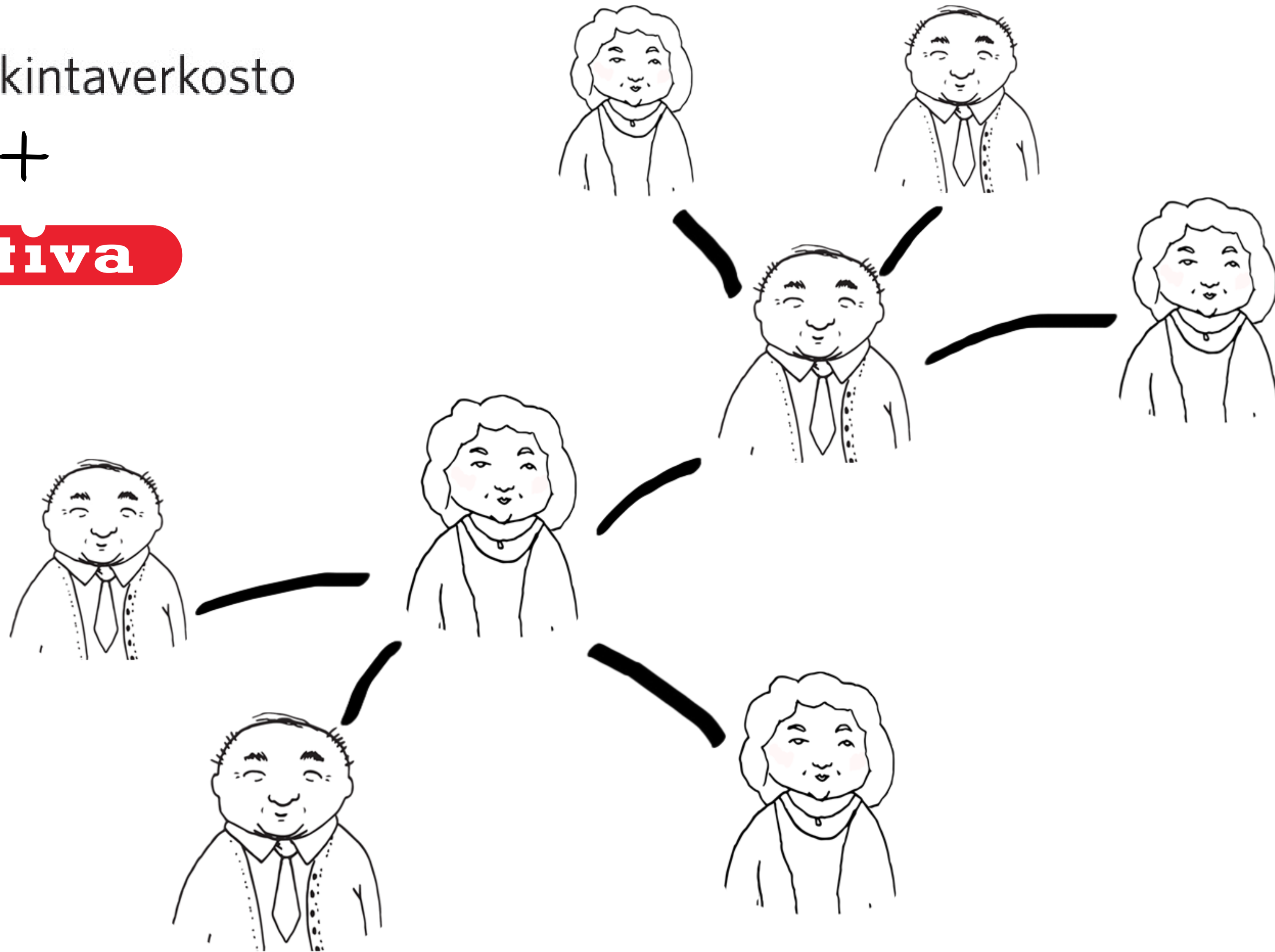




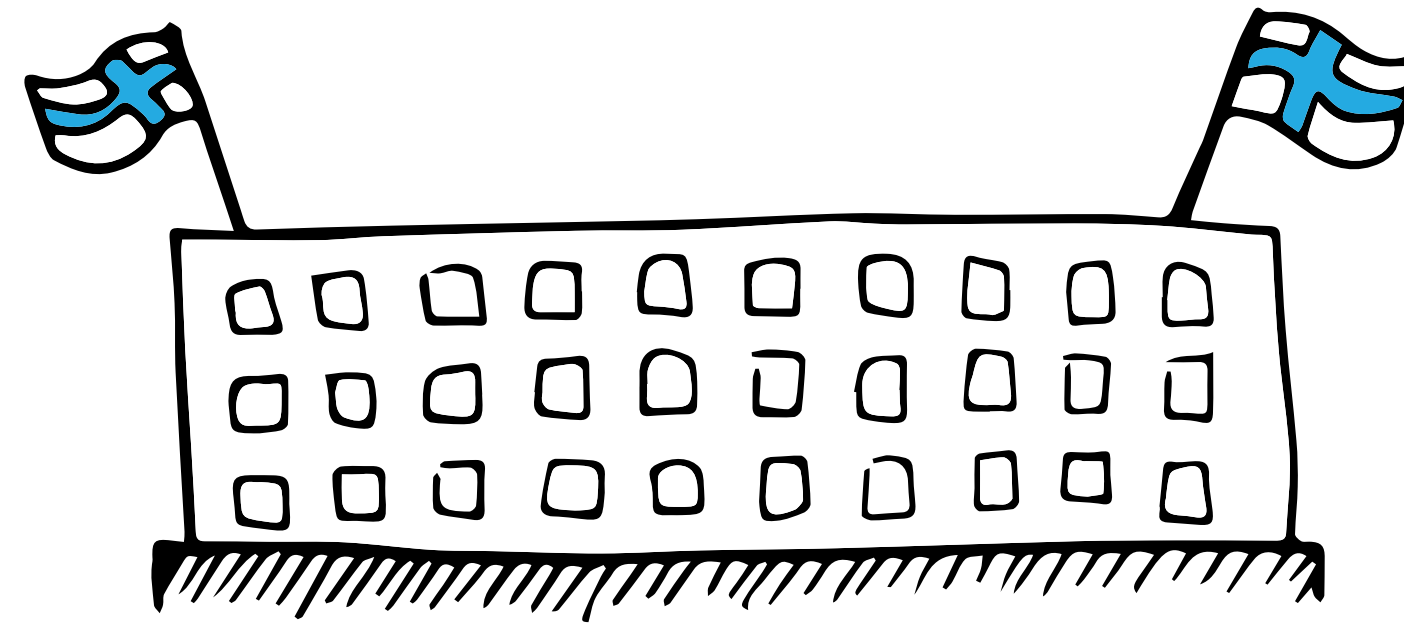
 Ekohankintaverkosto

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3. Agency



The National Procurement Agency



Ympäristöministeriö
Miljöministeriet
Ministry of the Environment

Tekes

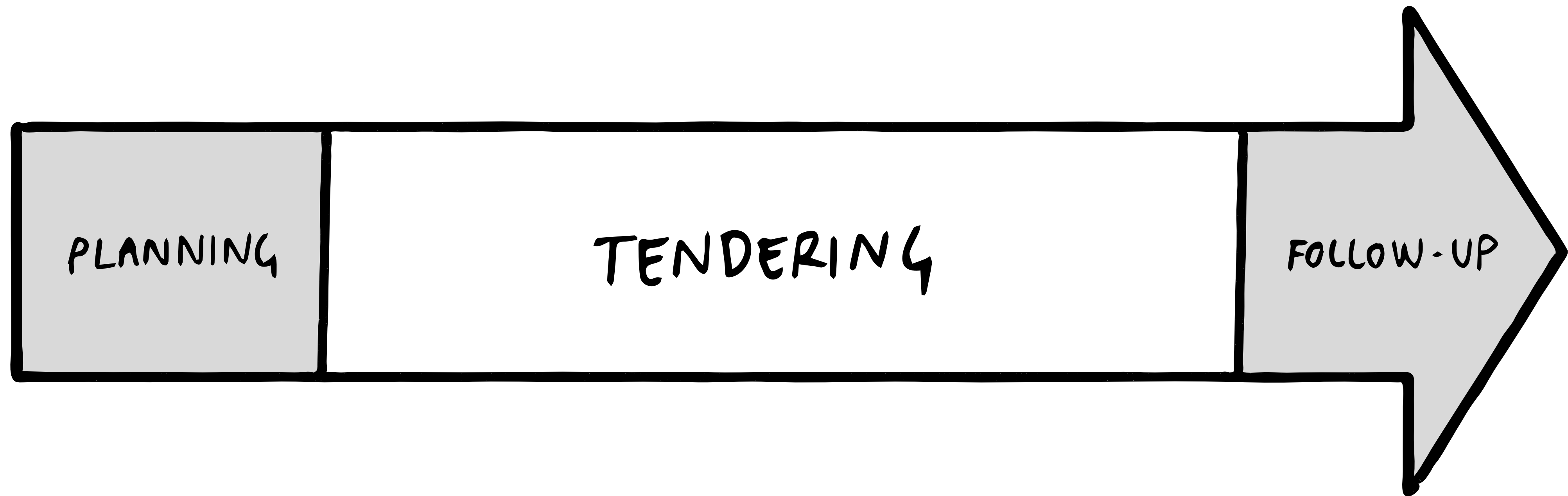


TYÖ- JA ELINKEINOMINISTERIÖ
ARBETS- OCH NÄRINGSMINISTERIET
MINISTRY OF EMPLOYMENT AND THE ECONOMY

HANSEL 

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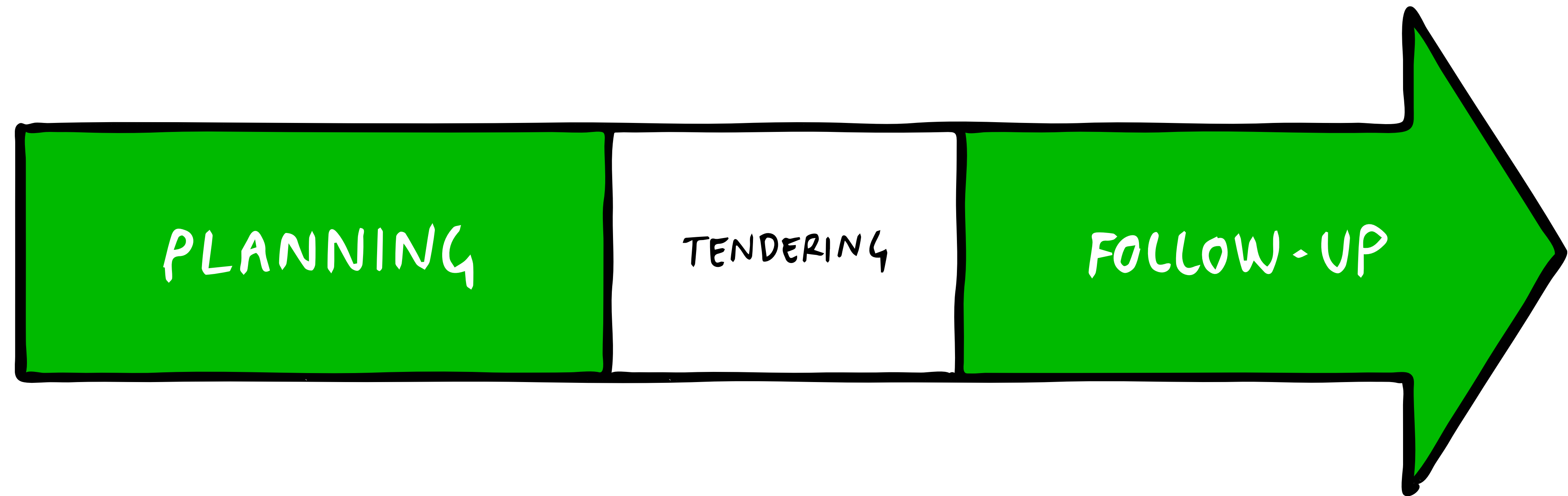
 Ekohankintaverkosto



PLANNING

TENDERING

FOLLOW-UP

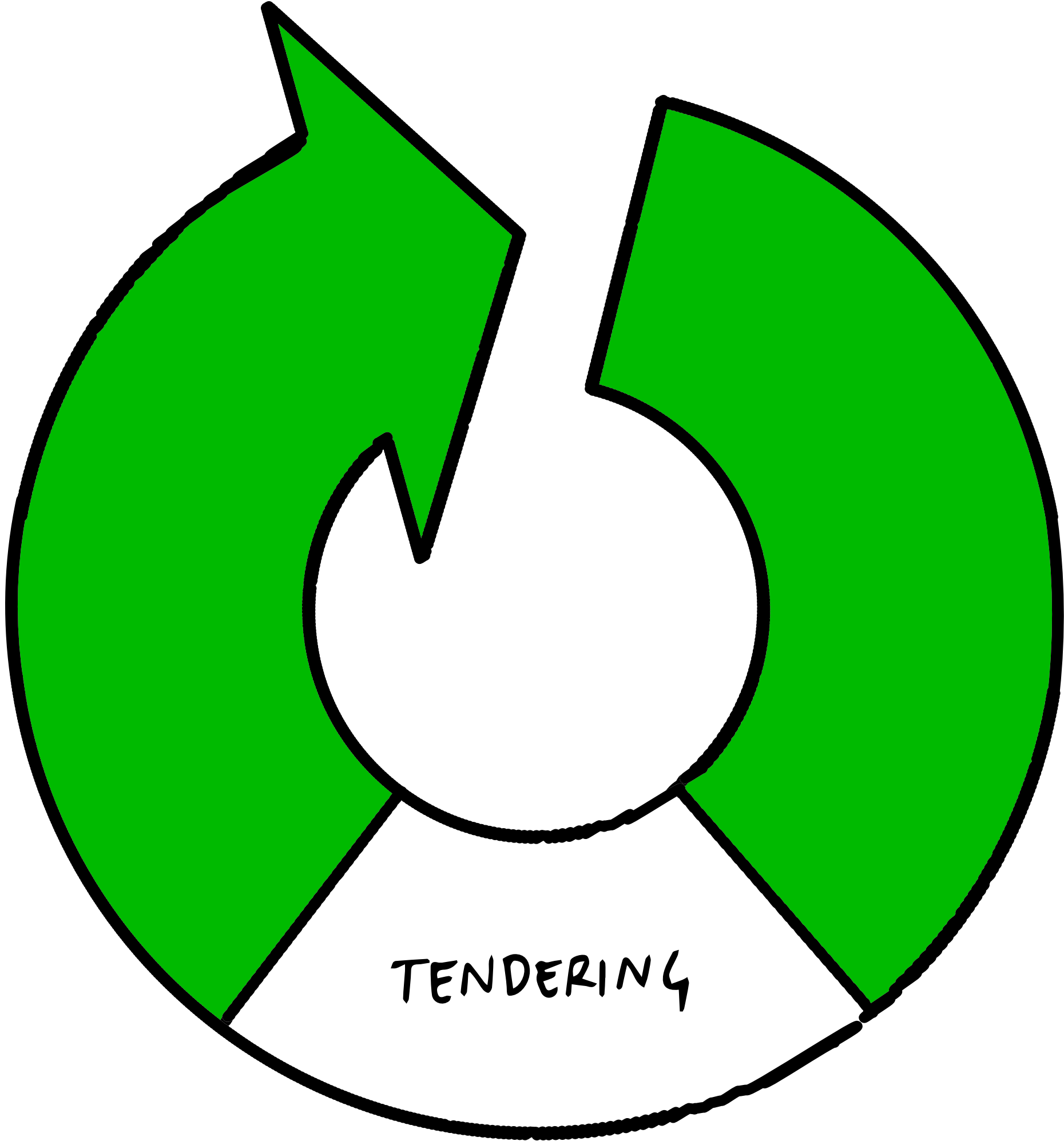


PLANNING

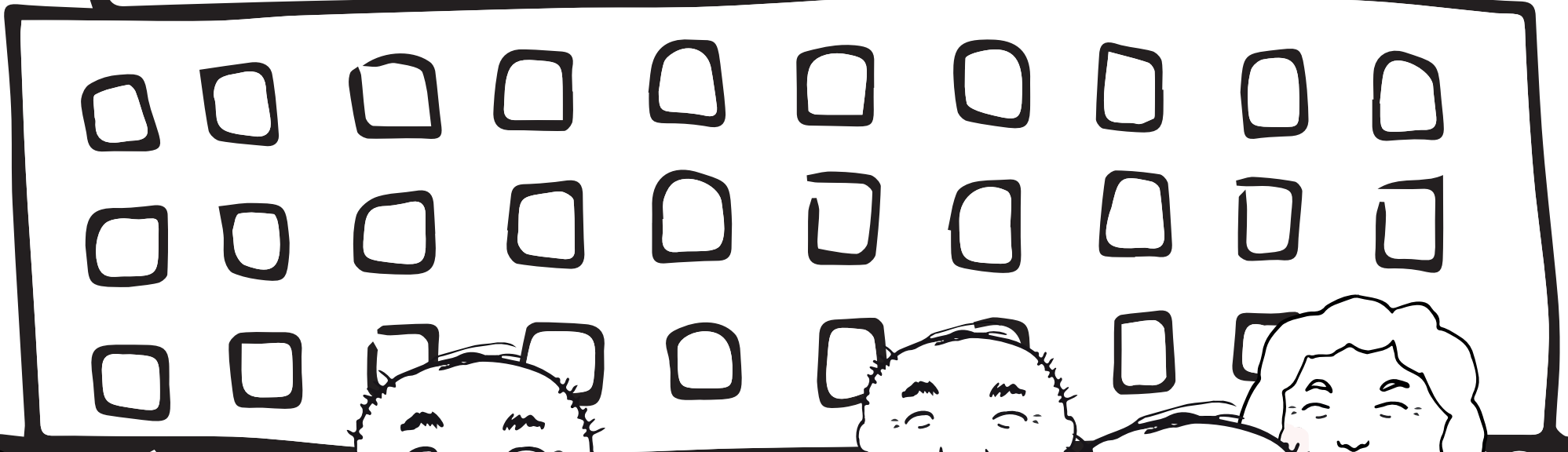
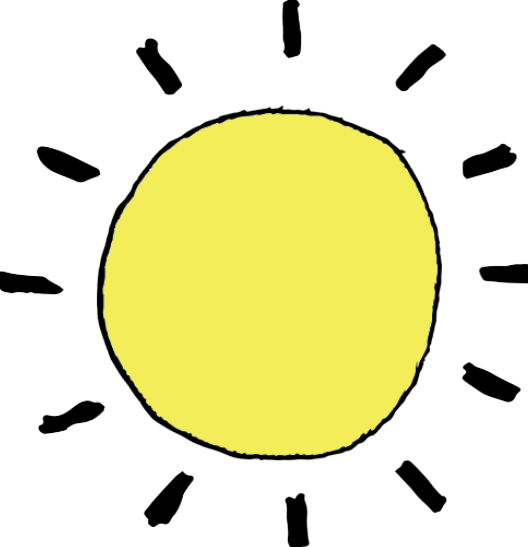
TENDERING

FOLLOW-UP

FOLLOW-UP



PLANNING



Why these partners?



Ympäristöministeriö
Miljöministeriet
Ministry of the Environment



The National Waste
Plan Valtsu, funding
environmental
research.

TeKes



Innovative public
procurement project:
the effects of products'
life cycles.



TYÖ- JA ELINKEINOMINISTERIÖ
ARBETS- OCH NÄRINGSMINISTERIET
MINISTRY OF EMPLOYMENT AND THE ECONOMY



Procurement law.

Why these partners?



Experience
on developing
requirements.



A facilitator for
collaboration and
support.



An agile practical level
actor, a peer-to-peer
support.