



# FROM 120 HOURS OF INTERNET VOTING TO NO INTERNET VOTING:

## THE CASE OF THE ÅLAND ISLANDS

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and SA Archimedes.

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Casper Wrede

# INTRODUCTION

## Background:

- 2015: the Åland Islands decided to introduce Internet voting in the October 2019 elections;
- October, 9, 2019: the Åland Islands decided not to start Internet voting due to security issues.



# INTRODUCTION

## Two research visits:

- June, 2019 when implementation of Internet voting was still in full force;
- October, 2019 after the decision on cancellation.



## RESEARCH QUESTIONS

Why have the Åland Islands decided to implement Internet voting?



How has Internet voting been implemented in the Åland Islands?

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Why have the Åland Islands decided to implement Internet voting?



How has Internet voting been implemented in the Åland Islands?

Why was the decision to cancel Internet voting taken in the Åland Islands?



How are the elections delivered without Internet voting in the Åland Islands?

# THEORETICAL FRAMEWORK

“Why to introduce?”	<ul style="list-style-type: none"><li>• Drivers for Internet voting implementation, and digitalization of elections;</li></ul>
“How to implement?”	<ul style="list-style-type: none"><li>• Business process reengineering theories;</li><li>• ODiHR framework for the analysis of New Voting Technology;</li><li>• E-voting Mirabilis Conceptual Framework;</li></ul>
“Why & How to cancel?”	<ul style="list-style-type: none"><li>• Barriers for I-voting implementation;</li><li>• Crisis management in public administration;</li><li>• (Reverse) Business Process Reengineering: back to analogue voting channels.</li></ul>

# METHODOLOGY

Research design	<ul style="list-style-type: none"><li>• Case-Study: single common embedded explanatory; extreme/deviant case (Flyvbjerg, 2006);</li></ul>
Data source	<ul style="list-style-type: none"><li>• Legal acts &amp; other documents;</li><li>• Interviews;</li><li>• Observations/on-site visits;</li></ul>
Data analysis	<ul style="list-style-type: none"><li>• Document analysis;</li><li>• Stakeholder mapping;</li><li>• Process mapping (BPMN);</li><li>• Coding of interviews;</li><li>• Timeline creation;</li><li>• Challenges/barriers mapping</li></ul>
Timeframe	<ul style="list-style-type: none"><li>• 2000-2019</li></ul>

# FINDINGS



# FINDINGS

Why to  
introduce?



# FINDINGS

## Why to introduce?

“It could be a good way to show that being small does not mean you need to lag behind”.

“Åland is a place where you can move faster and introduce new things because of self-governance”.

# FINDINGS

## Why to introduce?

### **Nordic Pioneers: facing the first use of Internet Voting in the Åland Islands (Parliamentary Elections 2019)**

Robert Krimmer<sup>1</sup>, David Duenas-Cid<sup>1,2</sup>, Iuliia Krivonosova<sup>1</sup>, Radu Antonio Serrano<sup>1</sup>,  
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<https://osf.io/5zr2e/>

# FINDINGS

How to  
implement?



**ÅDA**  
Offentliga Ålands IT-bolag

**nixu**  
cybersecurity.

**DEDUCTIVE  
LABS**

**ScytI**  
Innovating Democracy

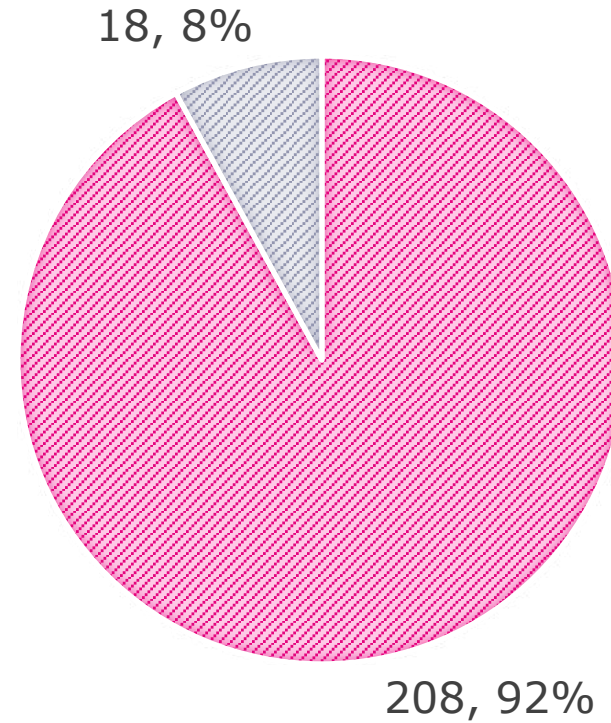
**TAL  
TECH**

# FINDINGS

## How to implement?

### MONTHS

■ Planning ■ Development



# FINDINGS

## Why to cancel?

alandstidningen.ax/nyheter/datainspektionen-inte-sakert

TELEFONKATALOGEN bilwebben.ax Ålandstidningen marknaden.ax jobb ÅLANDSKORTET

**ÅLAND** TUESDAY, NOVEMBER 12, 2019

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**LAST ALARM**  
November 10 22:42  
Basic alarm Automatic alarm, Mariehamn  
(Building depositment store (Commensk LL  
Completed))

PUBLISHED SEPTEMBER 20, 2016 AT 09:04

### Data Inspection: Not sure to vote on the internet

Defer the i-election if the deficiencies are not rectified before October 9.  
This is what the Data Inspectorate wrote, which examined the security of voting via the Internet in the autumn elections.  
According to DI, the election secret risks being jeopardized.

**Nyhets-Podden**  
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Nytt avsnitt varje fredag

TO THE ARCHIVE

# FINDINGS

## How to cancel?

alandsradio.ax/nyheter/1492-personer-drabbas-nar-e-rostning-laggs-ner

Published: Wednesday, October 9, 2019 - 11:44, updated: Friday, October 18, 2019 - 9:15

### **1492 people are affected when e-voting is discontinued**

**The system was not tested to one hundred per cent, therefore the e-voting is set for 1492 people with domestic rights, written in a place other than Åland.**

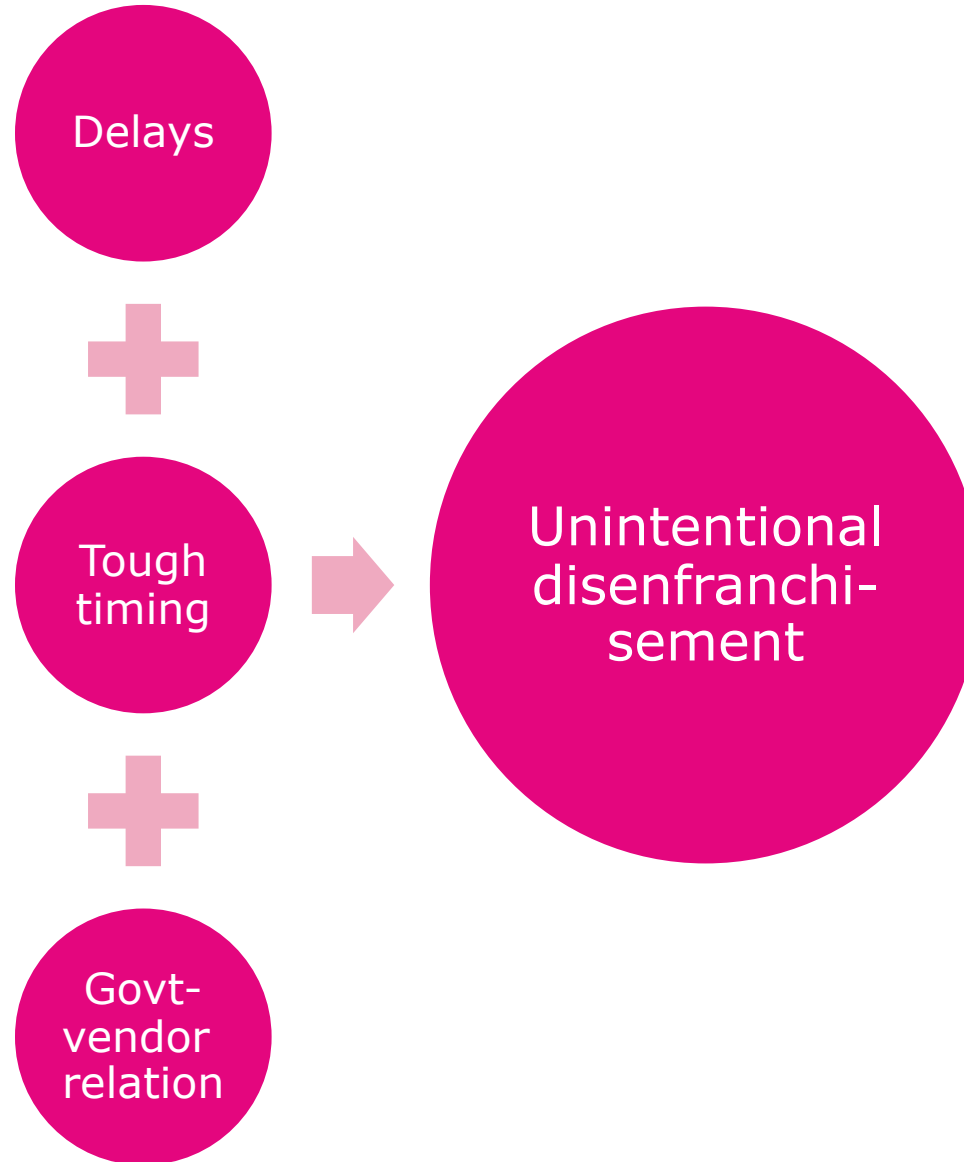
Election Administrator Casper Wrede of the Åland Landscape Government led today's press conference explaining what went wrong when 19 minutes before the Internet vote was to begin, the public announced that it would be canceled.

- It is regrettable, but this is the situation. Neither the steering committee nor the central board have seen any other way of doing it than this, he said.

A Finnish company has been given the task of testing the system and has shown that

# CONCLUSION

Lessons  
learnt







# TAL TECH

## THANK YOU FOR YOUR ATTENTION

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## BIO

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