



UNIVERSITY  
OF TAMPERE



FACULTY OF MANAGEMENT

**GOVERNING SAFETY IN FINNISH AND SWEDISH  
NUCLEAR WASTE REGIMES (SAFER)**

**KYT2018 Midterm seminar  
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# CONTENT

- Governing safety in Finnish and Swedish nuclear waste regimes
  - Civil regulation
  - Print media attention
  - Ethical aspects
  - Survey results (only from Finland)



# INVESTIGATIONS ARE ADVANCING IN SWEDEN AND FINLAND (POSIVA TUTKII 3/2004)





# CIVIL REGULATION

## Aims:

- 1) trying to influence activities or self-regulation of those responsible for implementing nuclear waste disposal,
- 2) trying to influence practices and management of regulatory agencies and
- 3) trying to influence meta-regulation, i.e. preparation, renewal and updating of national and international rules, norms and principles guiding the implementation of regulation.

We define **civil regulation** as activities performed by civil society organisations and individual citizens, pushing either corporations or public authorities to deliver improvements in their regulatory standards or activities, and developing non-statutory norms, codes and standards of good practice that are intended to govern nuclear safety.

Source: Litmanen et al. (2017) Is there a Nordic model of final disposal of spent nuclear fuel? Governance insights from Finland and Sweden, *Energy Research & Social Science*.



# MAIN INSTITUTIONAL SIMILARITIES BETWEEN THE FINNISH AND SWEDISH CIVIL REGULATION APPROACHES FOR SNF MANAGEMENT

- Private nuclear waste management company owned by the nuclear power industry is responsible for implementation of final disposal of SNF.
- Local council of a proposed host municipality for a SNF repository is vested with veto right under law.
- The EIA process includes public participation.
- In both countries community benefit packages are part of the process, although the benefits are more generous in Sweden.

Source: Litmanen et al. (2017) Is there a Nordic model of final disposal of spent nuclear fuel? Governance insights from Finland and Sweden, *Energy Research & Social Science*.



# MAIN INSTITUTIONAL DIFFERENCES BETWEEN THE FINNISH AND SWEDISH CIVIL REGULATION APPROACHES FOR SNF MANAGEMENT

- Political decision on construction of a SNF repository is taken later in the Swedish licensing process than in the Finnish process, in which the Decision-in-Principle on a nuclear facility launches the licensing process.
- In Sweden there are two parallel licensing procedures, whereas in Finland the licensing process design is simpler.
- Only in Sweden do CSOs have the possibility to apply for annual funding from the Nuclear Waste Fund.
- Societal activity towards development and implementation of public engagement in SNF disposal is more frequent in Sweden than in Finland.
- Public consultation is part of the R&D process of safety analysis in Sweden.
- The Swedish National Council for Nuclear Waste conducts independent program oversight whereas the Finnish regime lacks such as an organization.
- Finnish nuclear policy is more expansionist than the Swedish nuclear policy.

Source: Litmanen et al. (2017) Is there a Nordic model of final disposal of spent nuclear fuel? Governance insights from Finland and Sweden, *Energy Research & Social Science*.

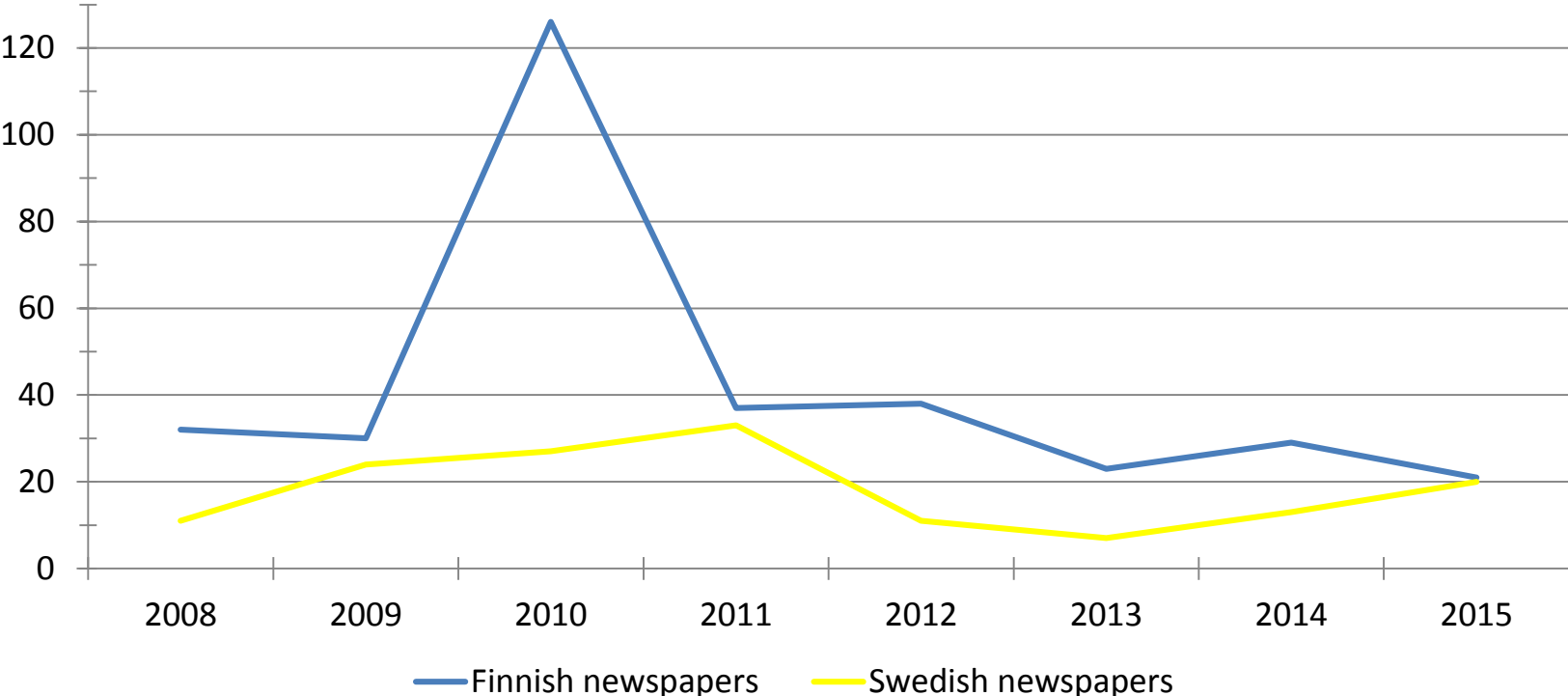


# PRINT MEDIA ATTENTION

- A longitudinal research of news coverage of a single issue
- Data gathering covers the period 1 Jan 2008 – 31 Dec 2015
- Newspapers:
  - Dagens Nyheter (DN)
  - Svenska Dagbladet (SvD)
  - Helsingin Sanomat (HS)
  - Aamulehti (AL)
- Key words: nuclear waste, final disposal, Posiva, SKB

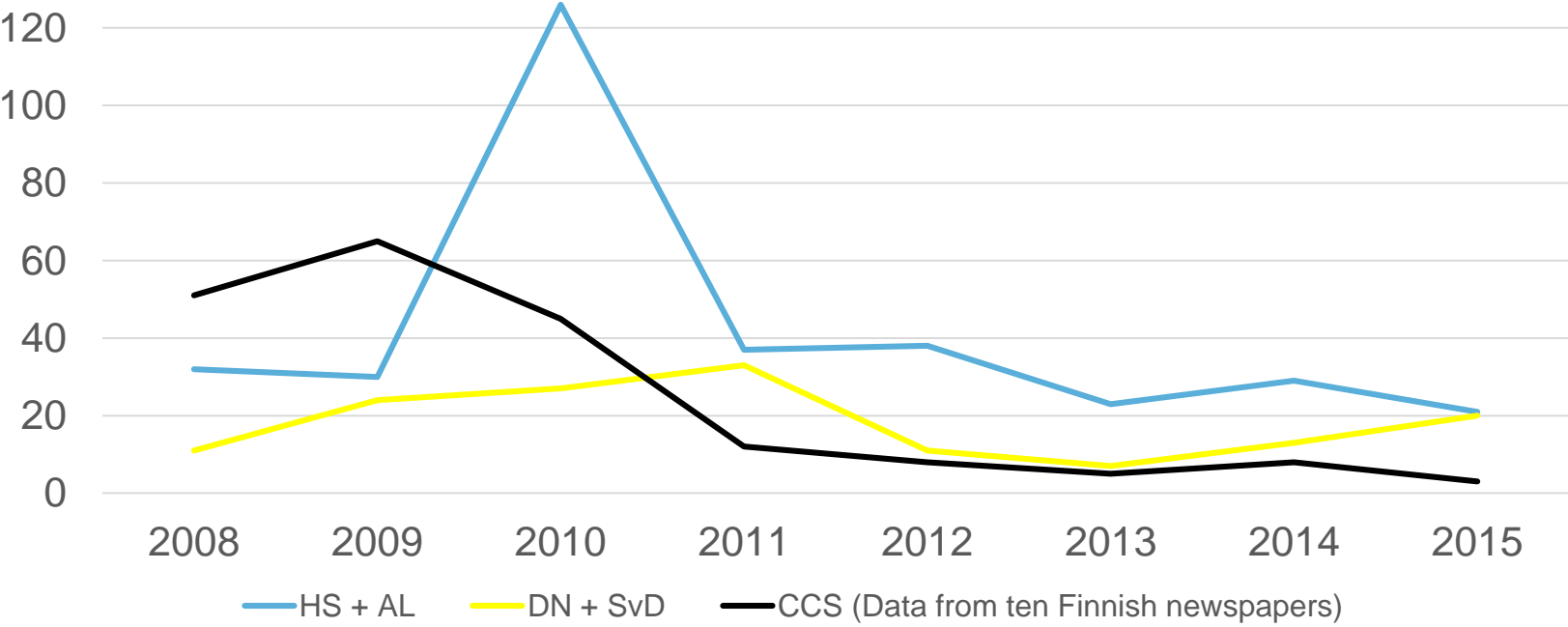


# PRINT MEDIA ATTENTION TO THE NUCLEAR WASTE ISSUE IN TWO LEADING NEWSPAPERS IN FINLAND (HS + AL) AND SWEDEN (DN + SVD) IN 2008–2015 (N=482)

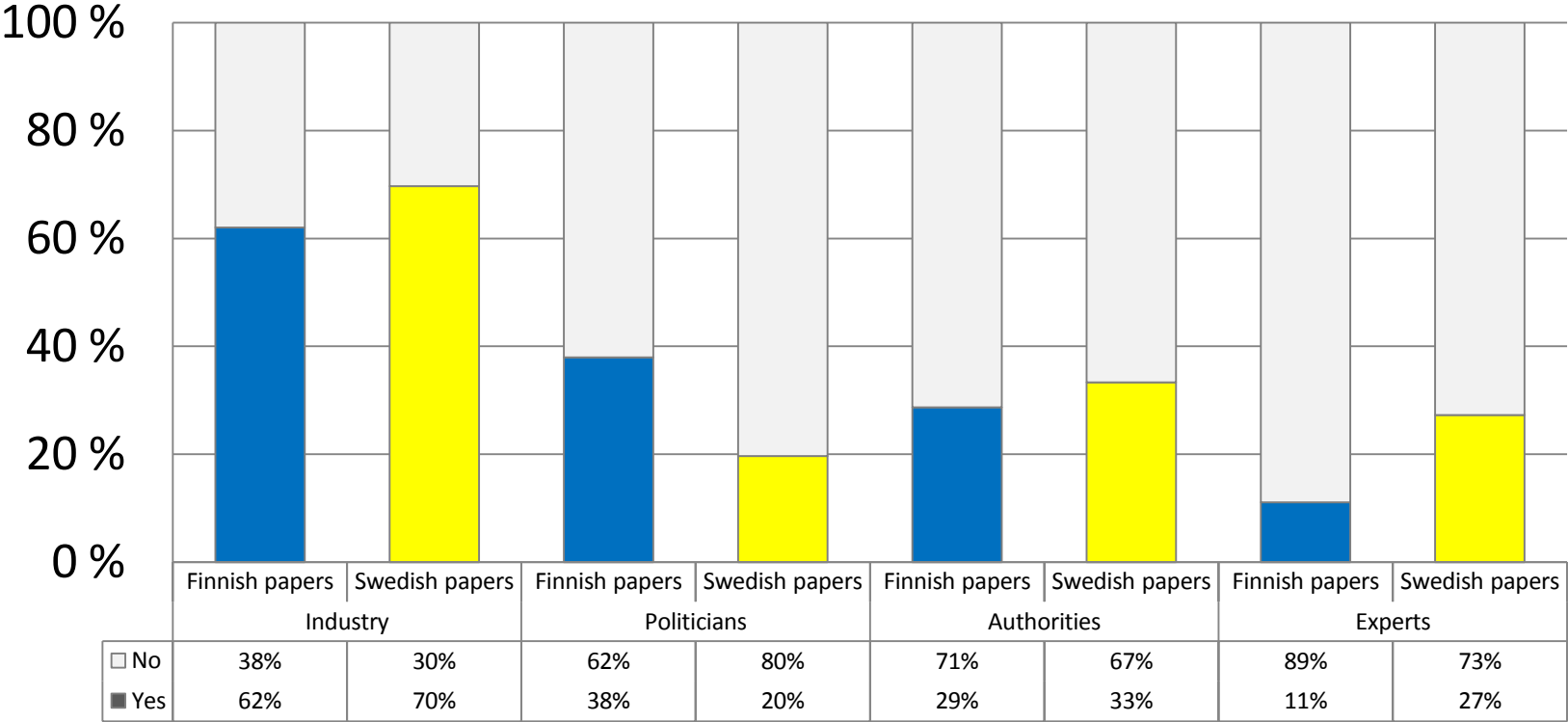




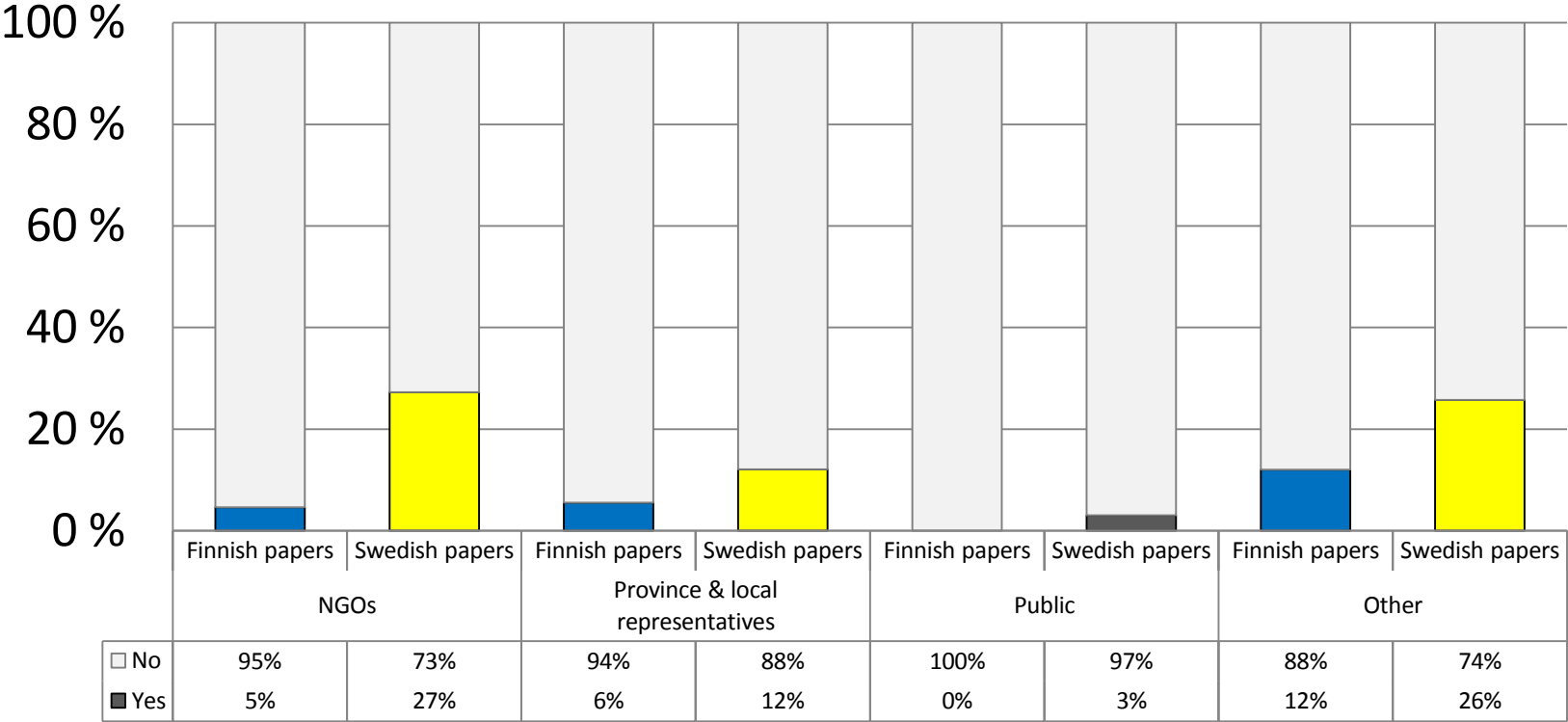
# PRINT MEDIA ATTENTION TO THE NUCLEAR WASTE ISSUE IN FINLAND (HS+AL) AND SWEDEN (DN+SVD) COMPARED TO CARBON CAPTURE AND STORAGE (CCS) IN 2008-2015



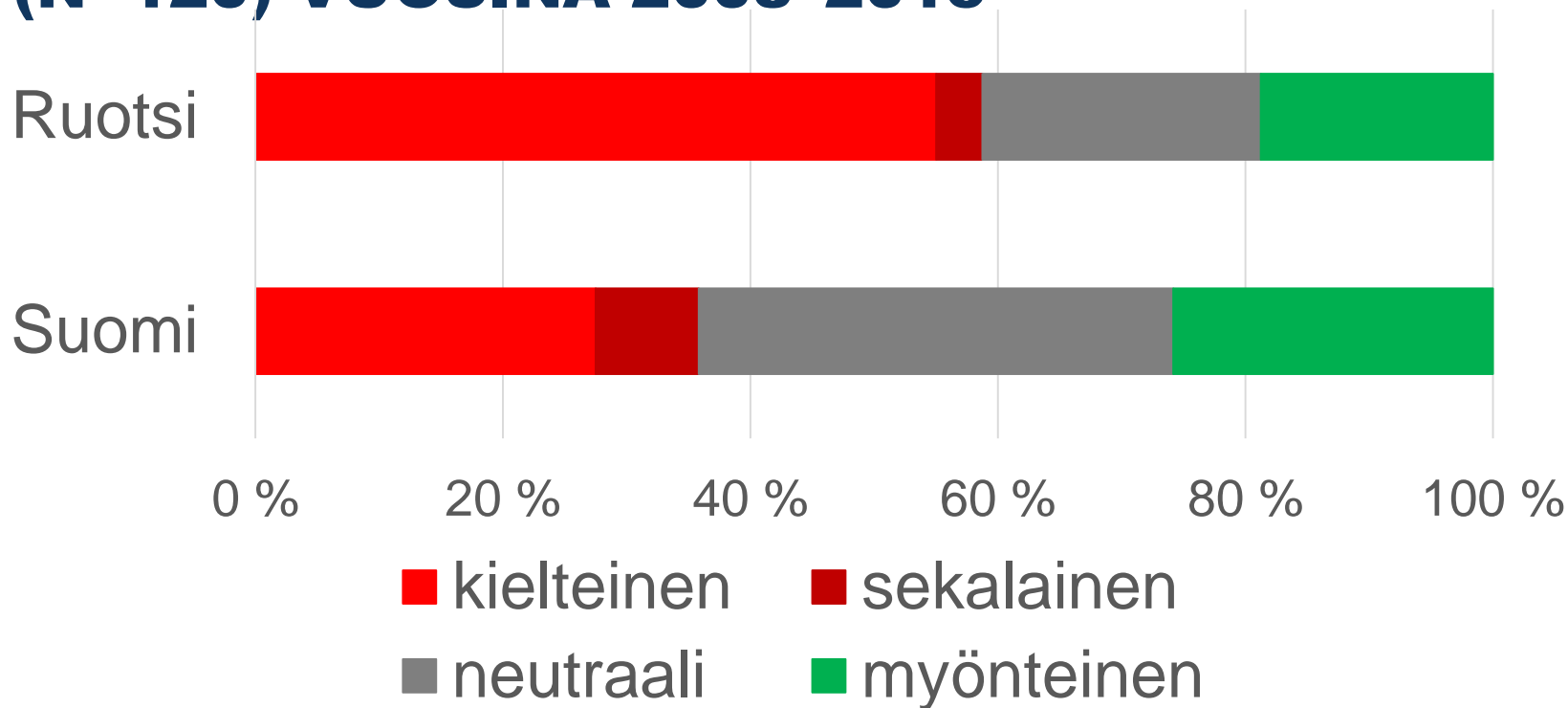
# EXTENT WHICH VOICE IS GIVEN (YES/NO) TO CERTAIN ACTOR GROUPS IN NEWS ARTICLES RELEVANT TO THE ISSUE (%) BY COUNTRY (N=108 FIN / N=66 SWE) IN 2008–2014



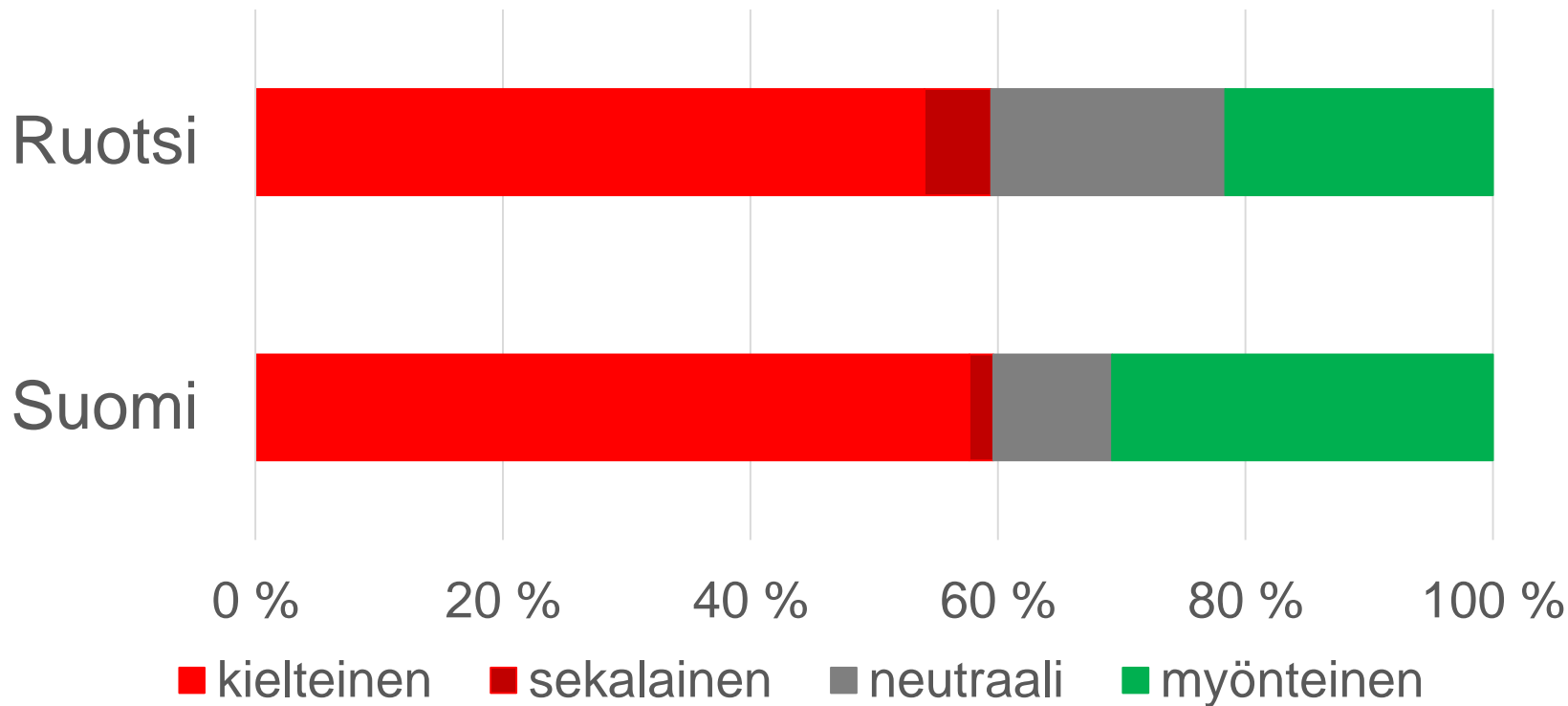
# EXTENT WHICH VOICE IS GIVEN (YES/NO) TO CERTAIN ACTOR GROUPS IN NEWS ARTICLES RELEVANT TO THE ISSUE (%) BY COUNTRY (N=108 FIN / N=66 SWE) IN 2008–2014



# LOPPUSIJOITUSTA KOSKEVIEN UUTISTEN SÄVY RUOTSISSA (N=80) JA SUOMESSA (N=120) VUOSINA 2008–2015



# LOPPUSIJOITUSTA KOSKEVIEN MIELIPIDE- KIRJOITUSTEN SÄVY RUOTSISSA (N=37) JA SUOMESSA (N=104) VUOSINA 2008–2015



# EETTISET KOMMENTIT

Sanomalehtiaineistossa (HS + AL + DN + SvD 2008-2015) oli 114 uutista tai mielipidekirjoitusta, joissa tulkittiin olevan Suomen ja Ruotsin ydinjätteiden loppusijoitusta käsitteleviä eettisiä kommentteja.

Jutuissa oli yhteensä 136 kommenttia, joista 52 oli Ruotsista ja 84 Suomesta.





# LOPPUSIJOITUSTA KOSKEVIEN EETTISTEN KOMMENTTIEN LUOKITTELU

Luokka	Ruotsi	Suomi
Proseduraalinen oikeudenmukaisuus (mm. tiedon arviointi ja päätöksenteko)	46%	12%
Sukupolvien välinen oikeudenmukaisuus (mm. pitkä aikaperspektiivi, vastuu)	33%	43%
Distributiivinen oikeudenmukaisuus (mm. hyödyt, kompensatiot, riskien jakautuminen)	21%	45%
Yhteensä	100%	100%

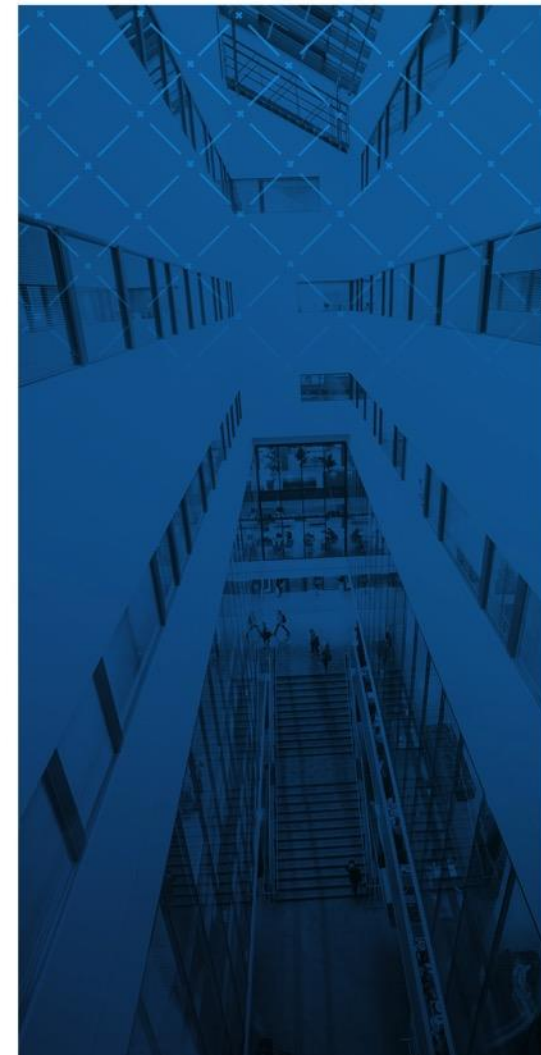
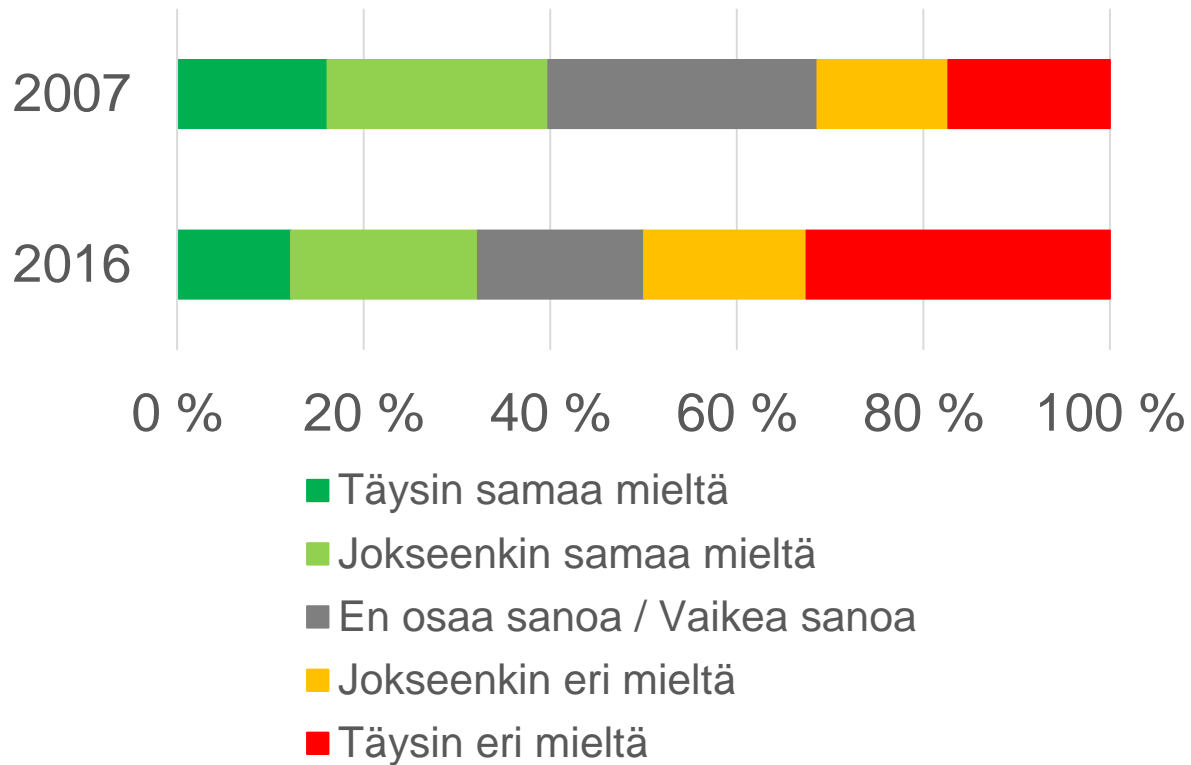


# THE SURVEY

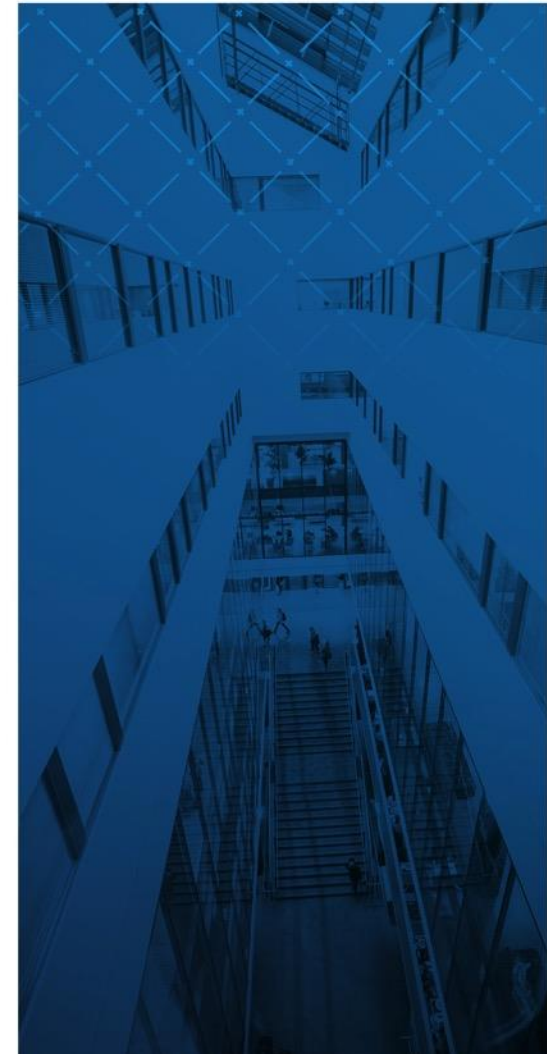
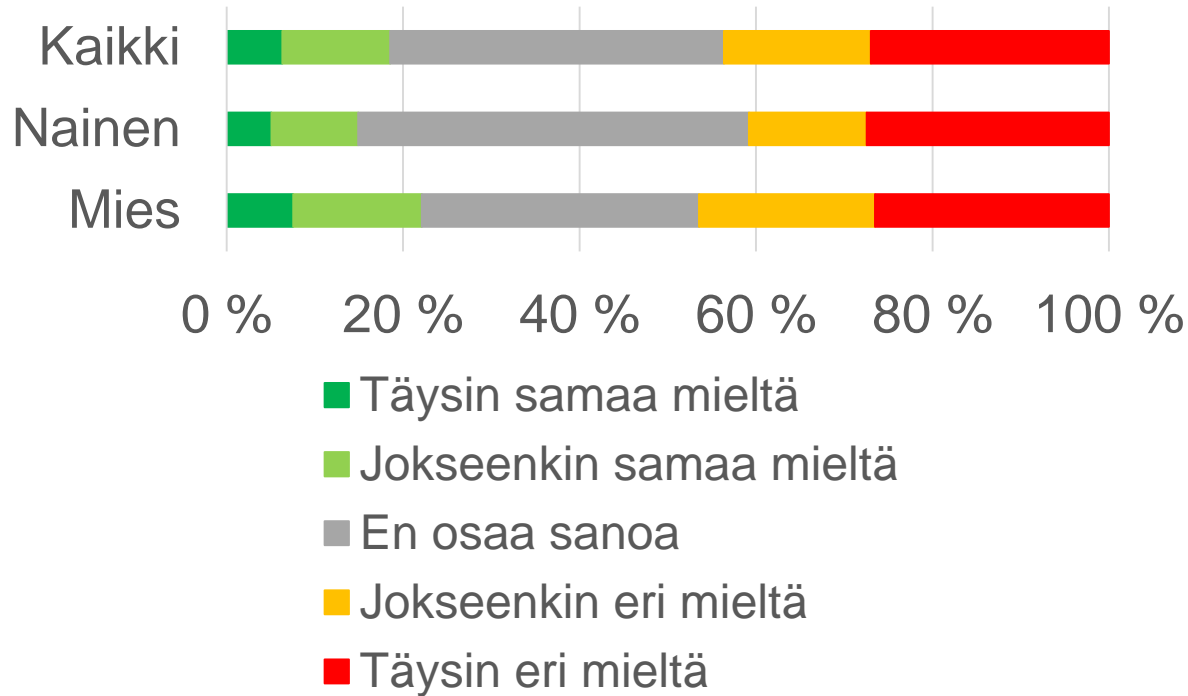
- A nation-wide survey was carried out in Finland between August 23 and October 17 2016 by the University of Tampere / EL-TRAN project ([www.el-tran.fi](http://www.el-tran.fi)).
- The sample consisted of 4000 randomly selected 18 to 75 year-old Finns.
- The response rate was 33,7 (n=1349).
- Some statements regarding SNF management were included.
- Compared to the survey data of 2007 when possible.



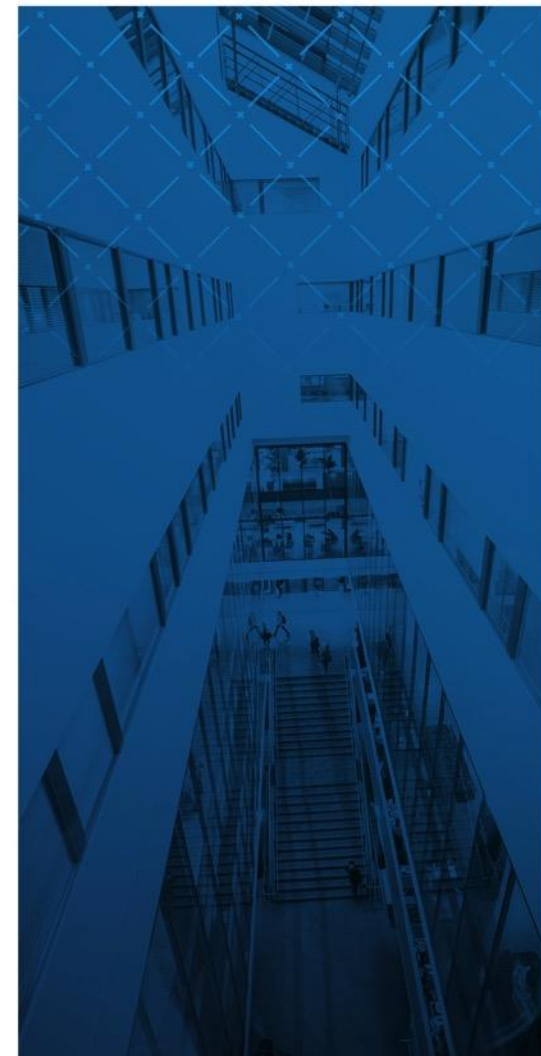
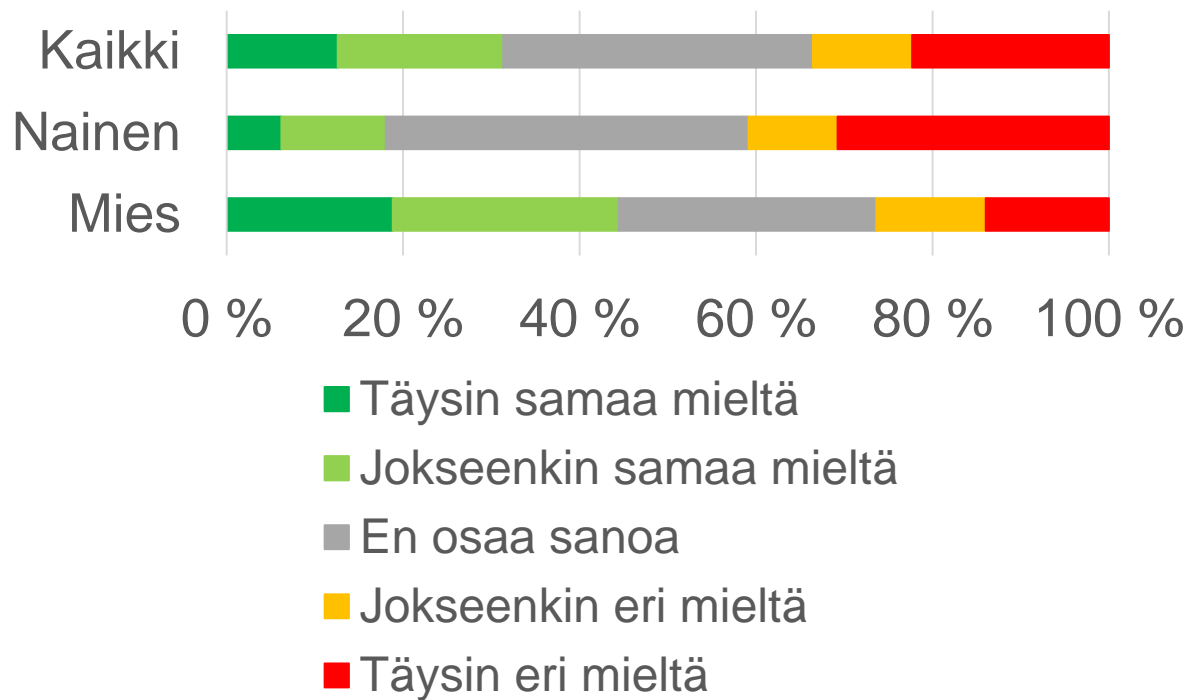
# YDINJÄTTEET VOIDAAN TURVALLISESTI LOPPUSIJOITTA SUOMEN KALLIOOPERÄÄN



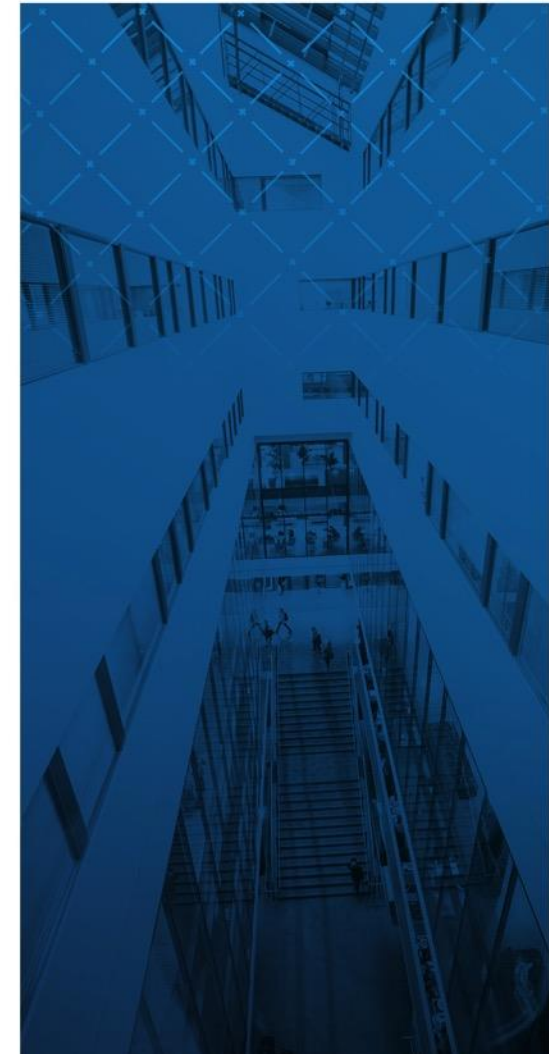
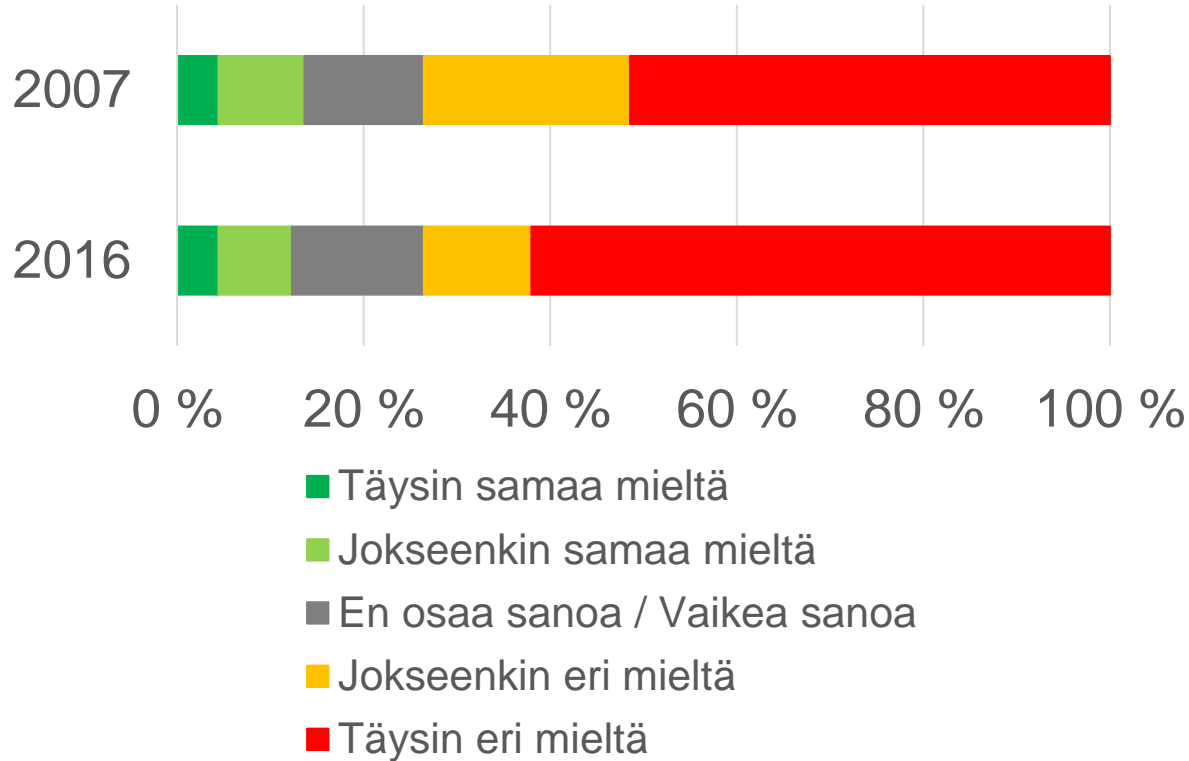
# FENNOVOIMAN TULEE RAKENTAA OMA KÄYTETYN YDINPOLTTOAINEEN LOPPUSIJOITUSLAITOS PYHÄJOELLE



# FENNOVOIMAN YDINVOIMALAN KÄYTETTY YDINPOLTTOAINE TULEE LOPPU-SIJOITTA A EURAJOEN OLKILUOTOON



# HYVÄKSYN ULKOMAILLA TUOTETUN YDINJÄTTEEN LOPPUSIJOITUKSEN EURAJOEN OLKILUOTOON, JOS SE TODETAAN TURVALLISEKSI





# THANK YOU

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*You can change the world  
only if you know how it works.*

