ODYSSEE-MURE

ODYSSEE-MURE fits for 55 (2022-2025) National Seminar 21 January 2025, Finland

ODYSSEE-MURE-projekti: Uudet ominaisuudet ja tulokset

Lea Gynther, Motiva Oy, Finland

Motiva

Agenda

- Odyssee-Mure: Taustaa
- Energy Efficiency Scoreboard 2024 (energiatehokkuuden maavertailutyökalu)
- Dekomponointituloksia
- Energiaköyhyys ja “Energy sufficiency”
  - Näillä laajennettu scoreboard
- Policy assessment tool ja sen linkki MICAT-työkaluun (multiple benefits -analyysityökalu)
- Keskustelua

Motiva

Agenda in English

- Odyssee-Mure: Background
- Energy Efficiency Scoreboard 2024 (energy efficiency country benchmarking tool)
- Dekomposition results
- Energy poverty and Energy sufficiency
  - Enhanced scoreboard
- Policy assessment tool and it link to the MICAT tool (multiple benefits analysis tool)
- Discussion

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Odyssee-Mure: Taustaa

- Yli 25v projektijatkumo (EU-rahoitus)
- Koordinaattori: Ademe (FR); muita keskeisiä teknisen sisällön tuottajia Enerdata (FR) ja Fraunhofer Institute (DE); tiedonkeruussa kansalliset tiimit
- Sivu: https://www.odyssee-mure.eu/
  - Odyssee (indikaattorit): ’key indicators’ ja useat työkalut avoimia kaikille; koko tietokanta ilmaiseksi avoin kaikille muille paitsi kaupallisille toimijoille
  - MURE: vapaa pääsy kaikilla
- Tiedonkeruussa siirrytty käyttämään yhä enemmän Eurostatin dataa harmonisoinnin näkökulmasta
- Syötettyyn tietoon kohdistuu automaattista ja ihmisten suorittamaa laadunvalvontaa. Tietokantojen rakenteisiin ja käyttötapoihin liittyy kuitenkin paljon riskejä ja epävarmuuksia, erityisesti maavertailuissa. Joten tarkasti on seurattava.

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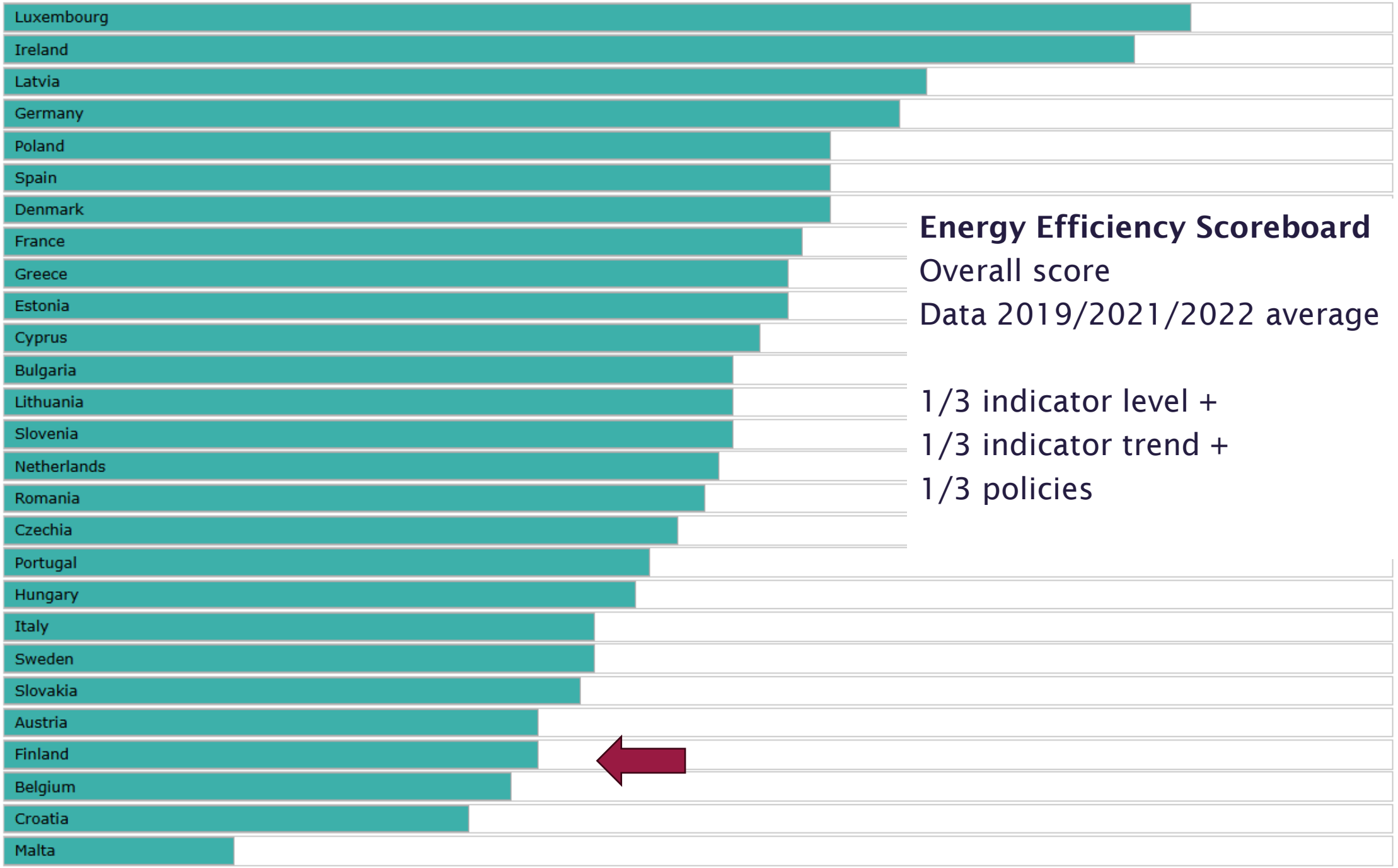
Energy Efficiency Scoreboard 2024 - Data 2019/2021/2022 average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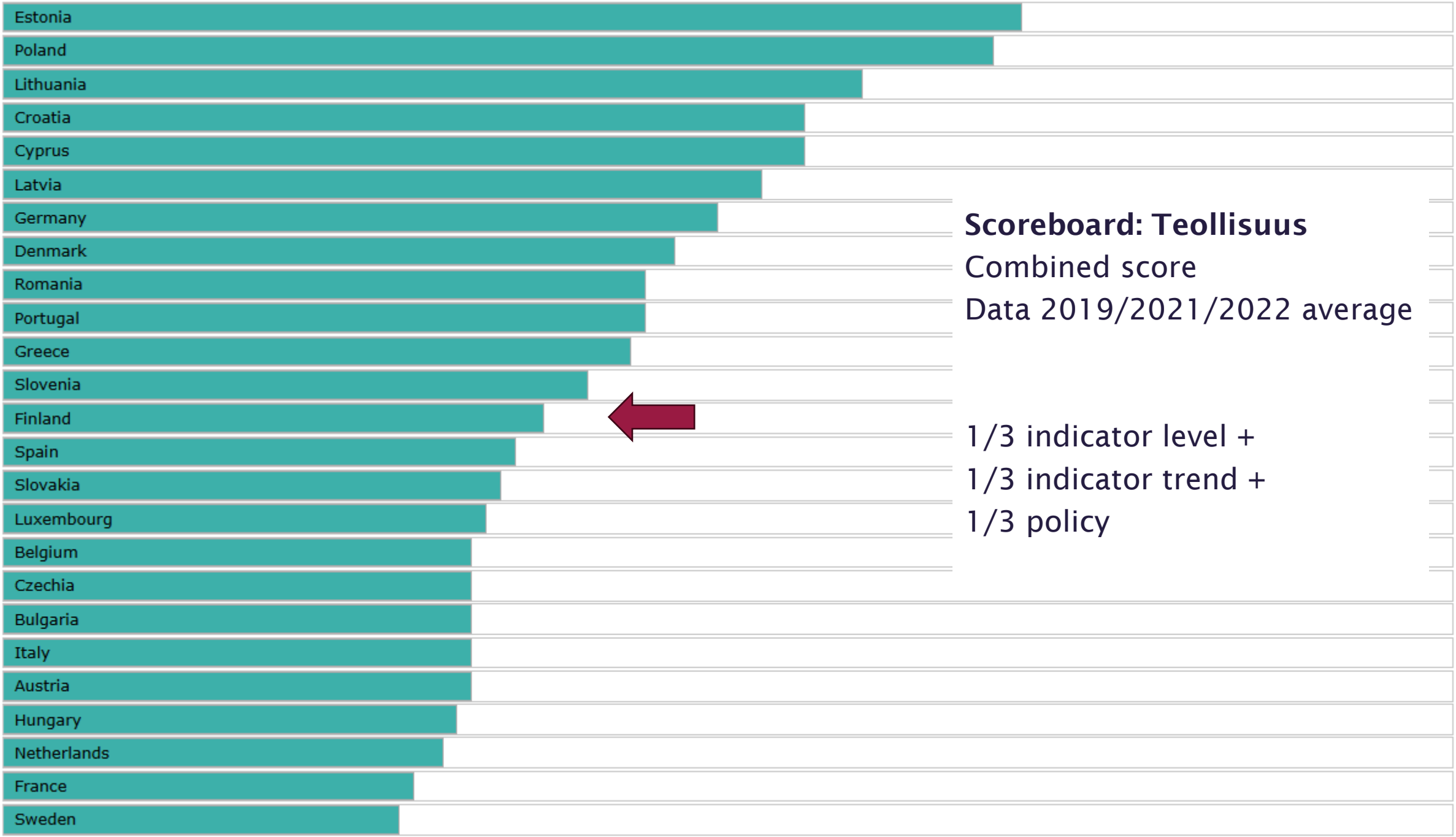
Energy Efficiency Scoreboard
Overall score
Data 2019/2021/2022 average
1/3 indicator level +
1/3 indicator trend +
1/3 policies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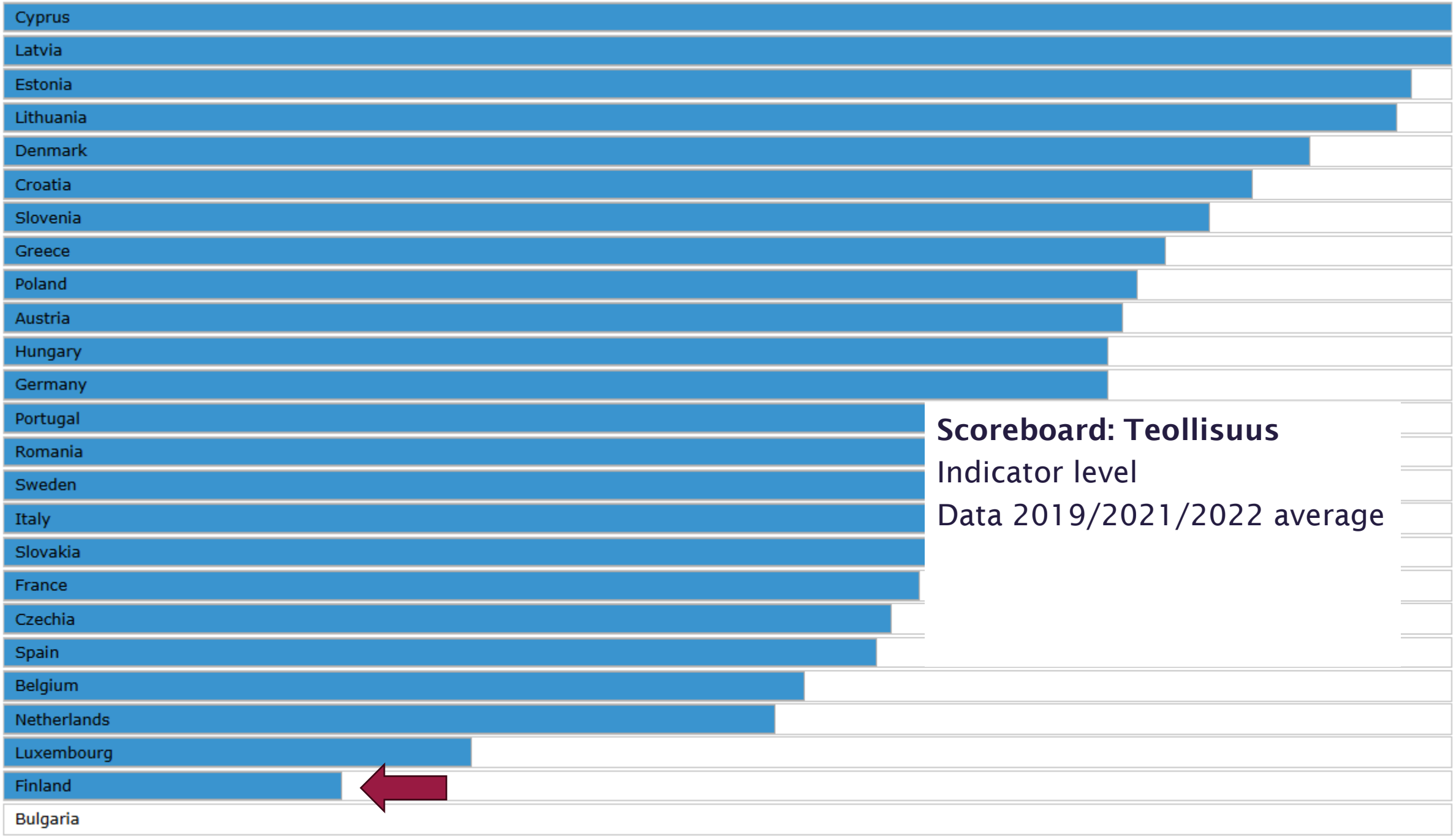
Scoreboard: Teollisuus
Combined score
Data 2019/2021/2022 average
1/3 indicator level +
1/3 indicator trend +
1/3 policy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Indicator level
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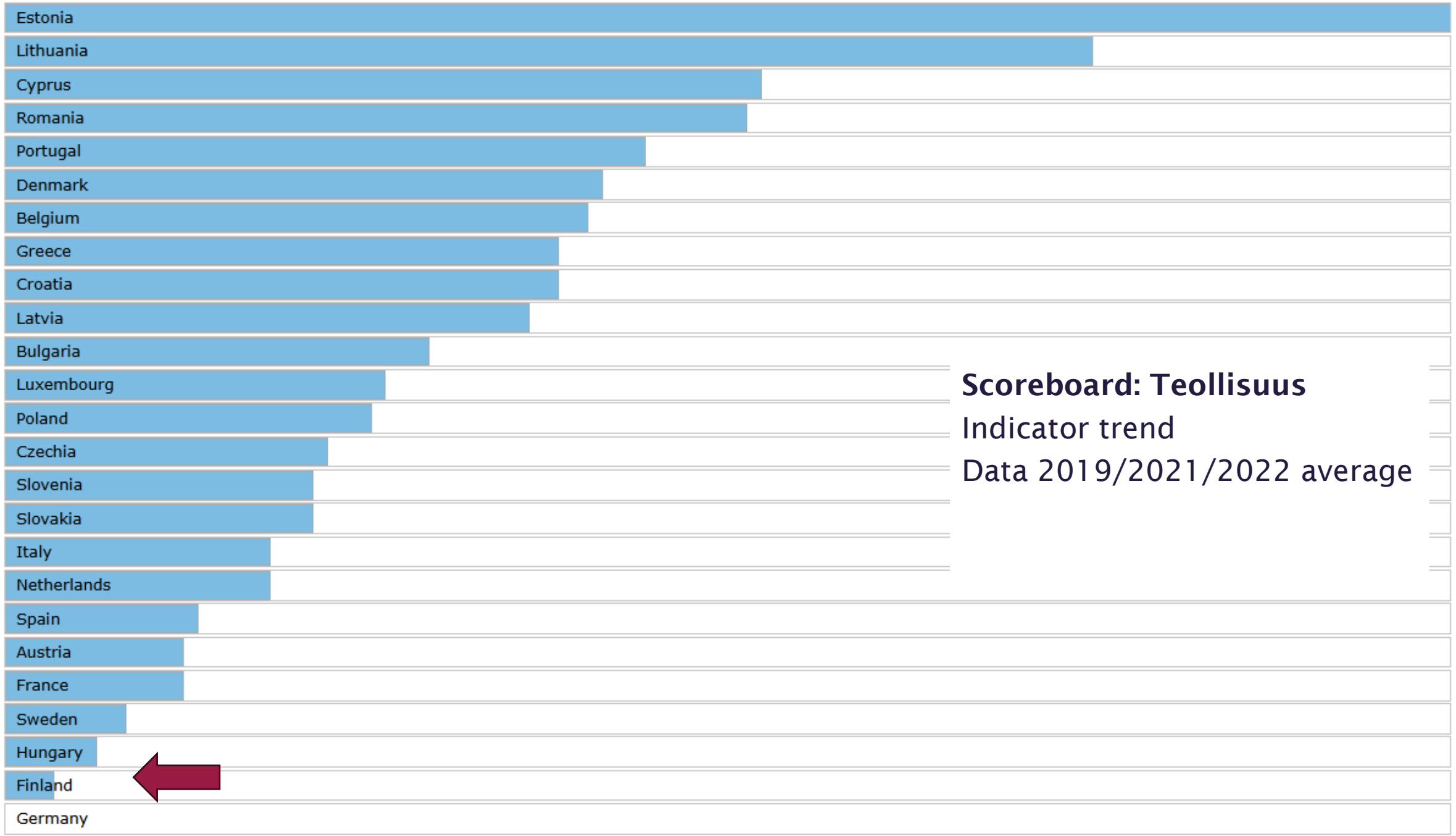
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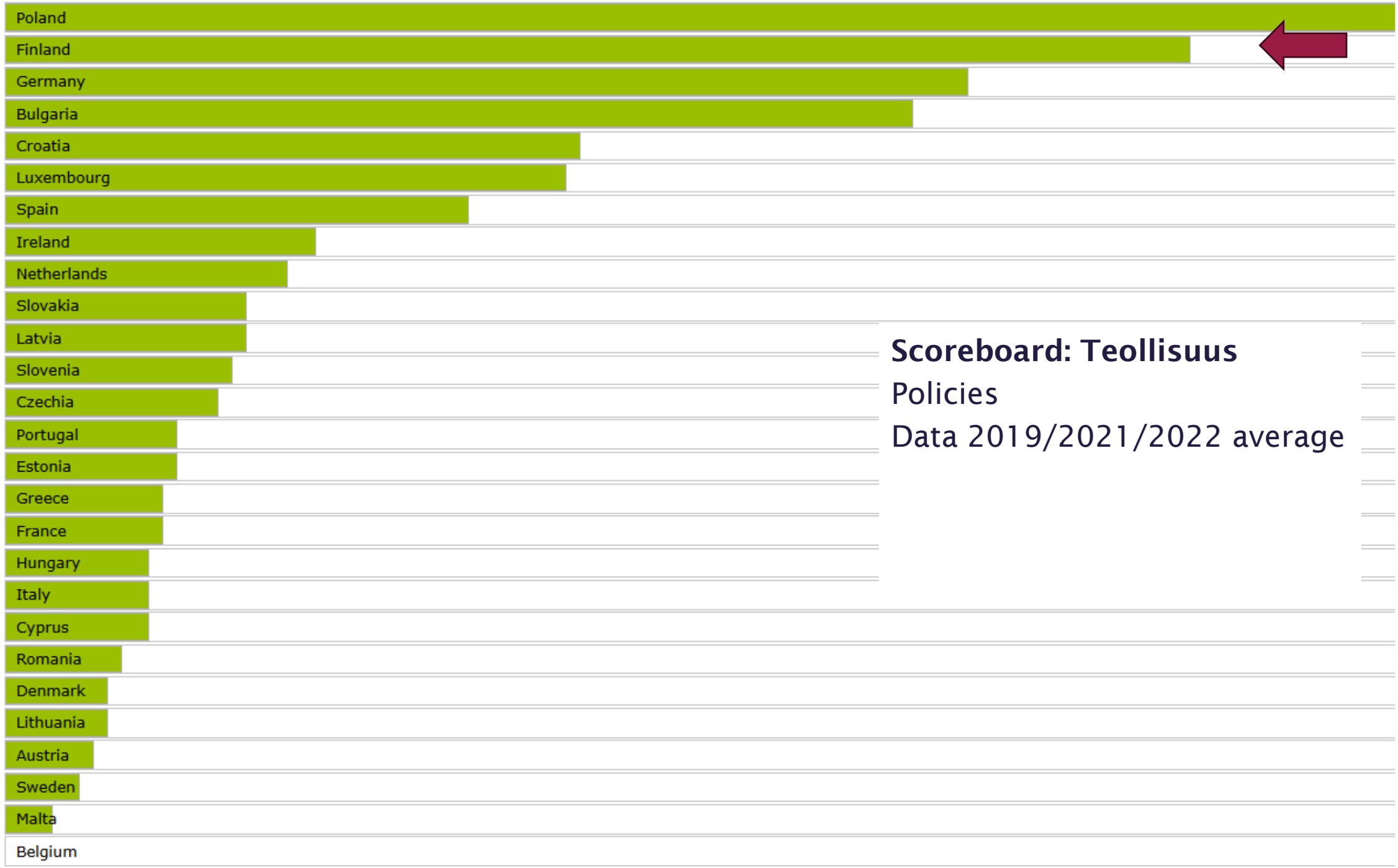
Indicator trend
Data 2019/2021/2022 average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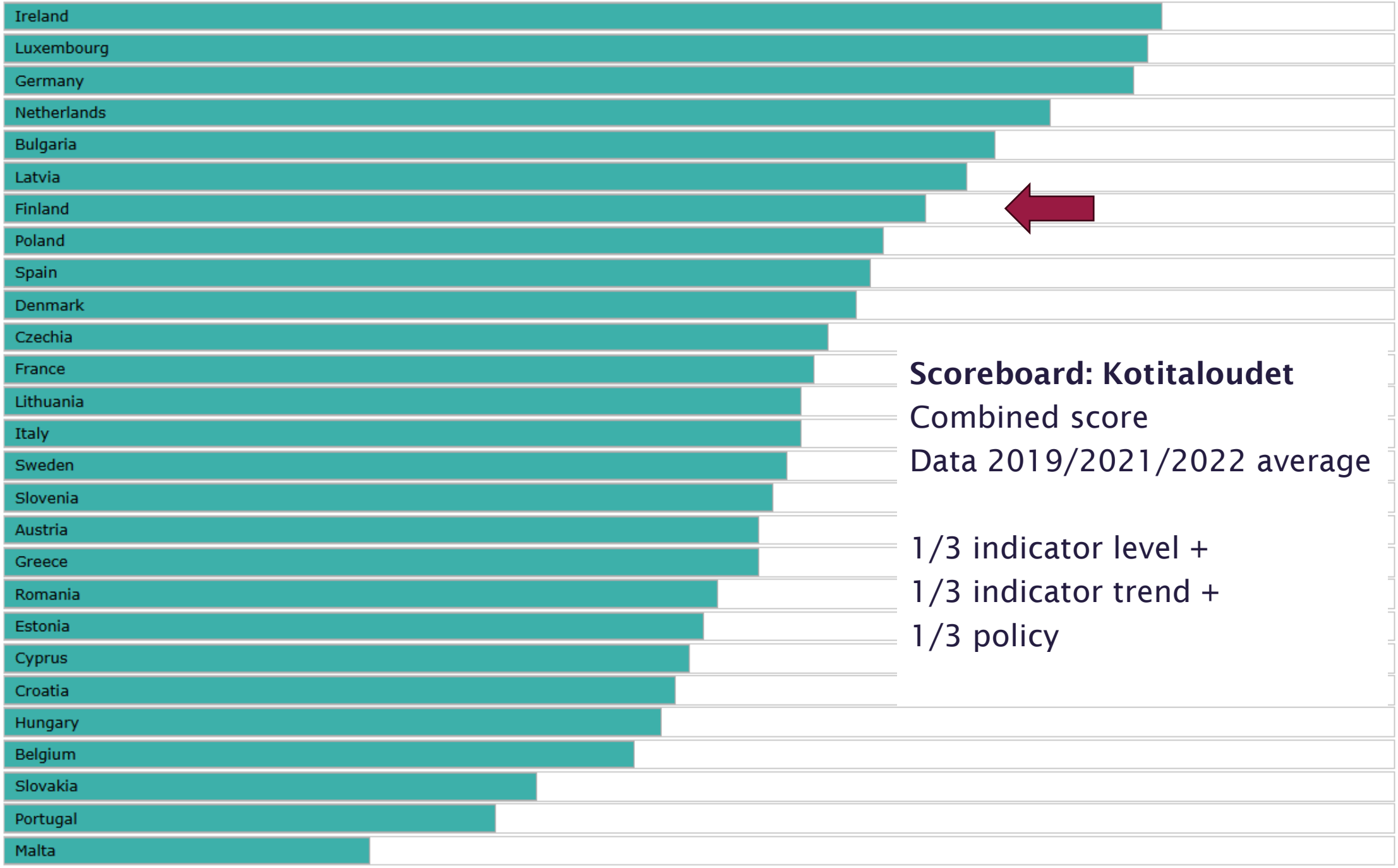
Scoreboard: Teollisuus
Policies
Data 2019/2021/2022 average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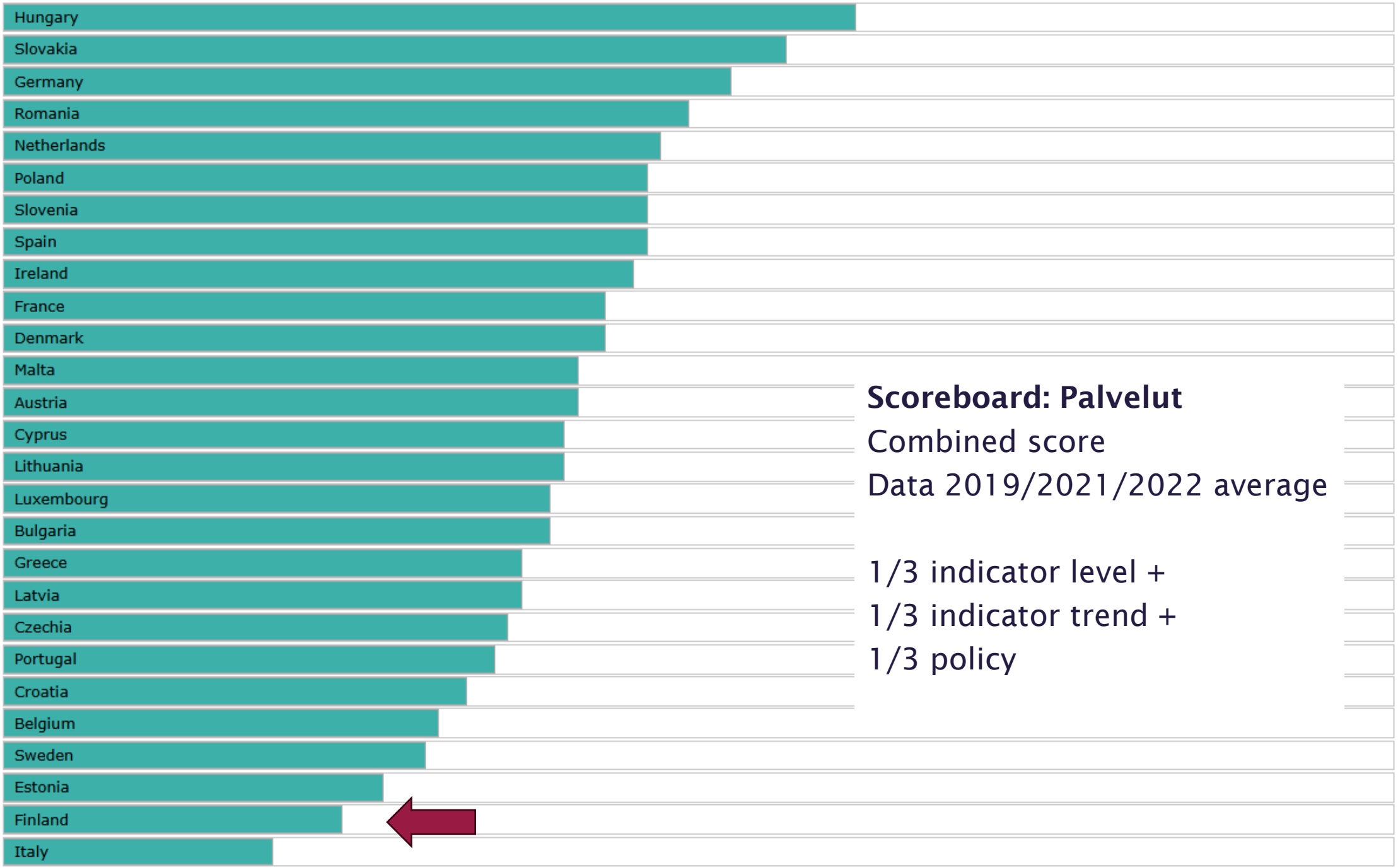
Scoreboard: Kotitaloudet
Combined score
Data 2019/2021/2022 average
1/3 indicator level +
1/3 indicator trend +
1/3 policy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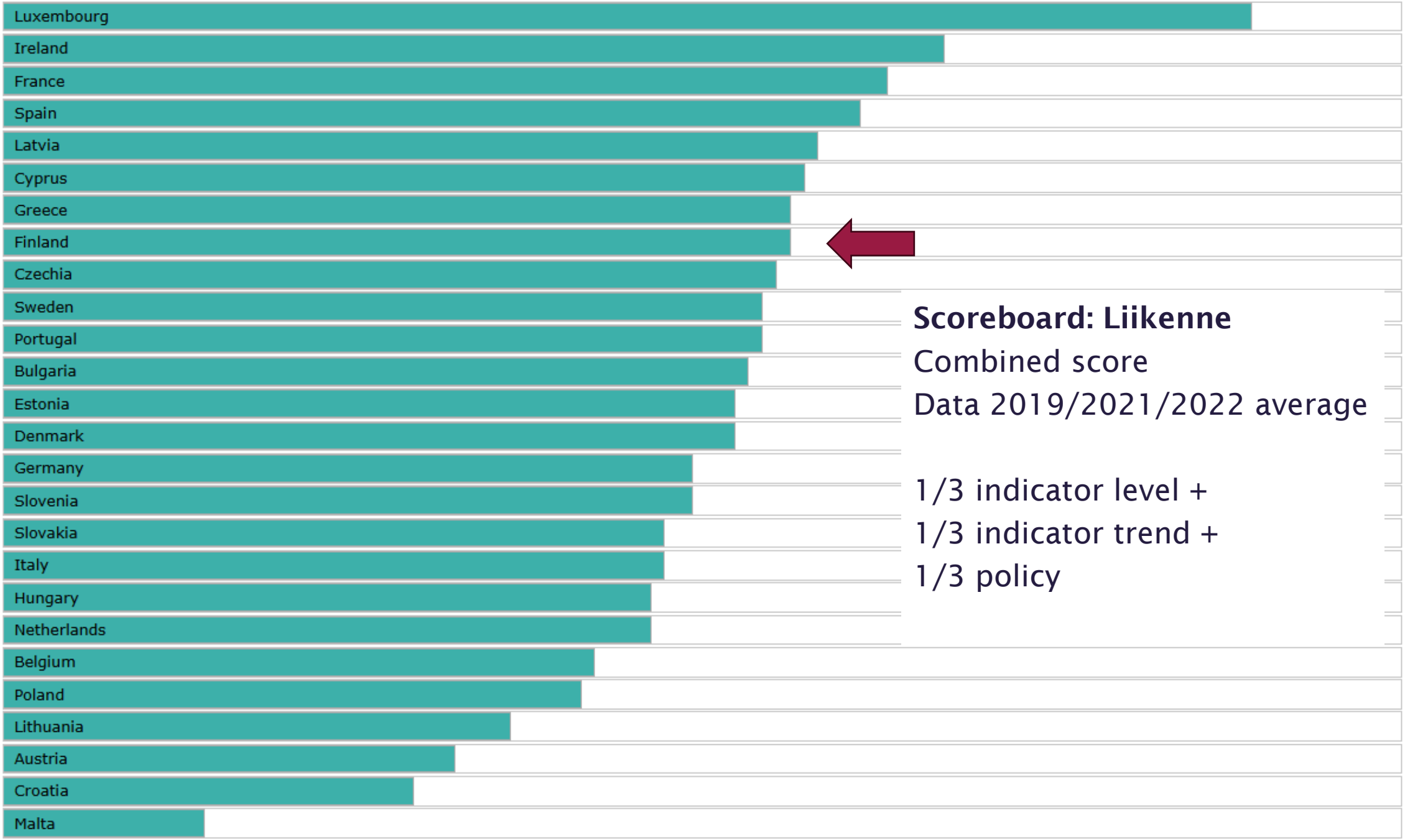
Scoreboard: Palvelut
Combined score
Data 2019/2021/2022 average
1/3 indicator level +
1/3 indicator trend +
1/3 policy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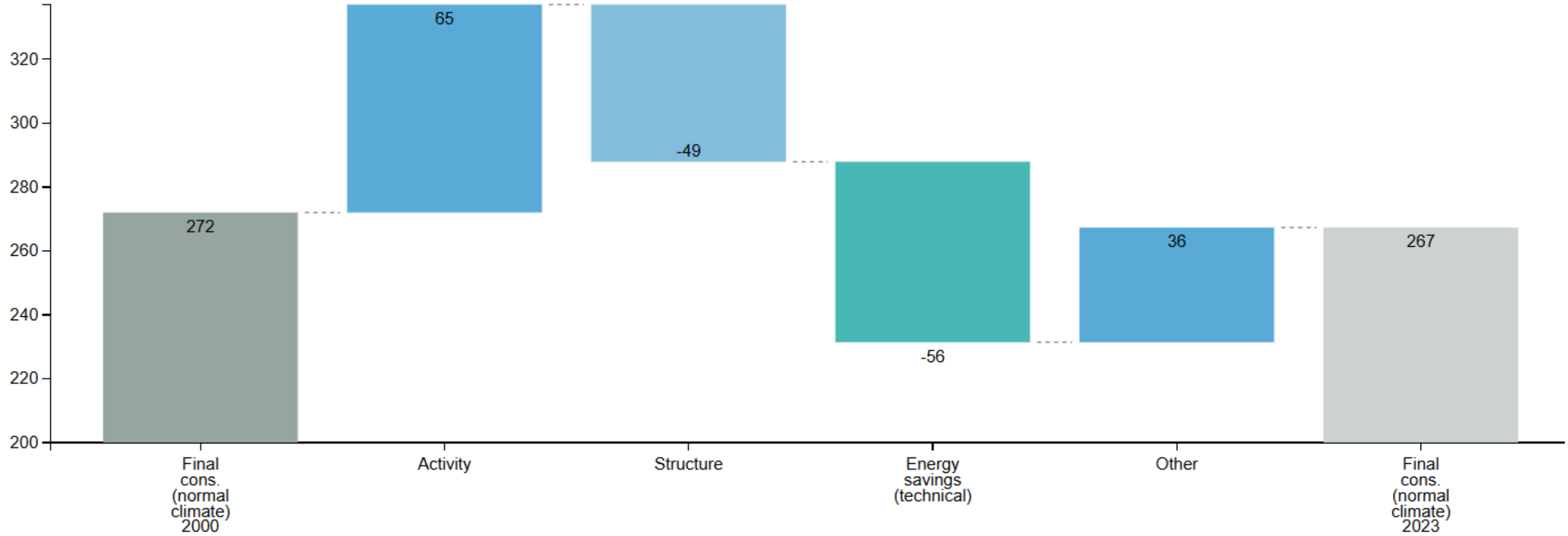
Scoreboard: Liikenne
Combined score
Data 2019/2021/2022 average
1/3 indicator level +
1/3 indicator trend +
1/3 policy

Dekomponointituloksia

VARIATION FINAL ENERGY CONSUMPTION
FINLAND
TWH (2000-2023)



Source: ODYSSEE, based on Eurostat and national data

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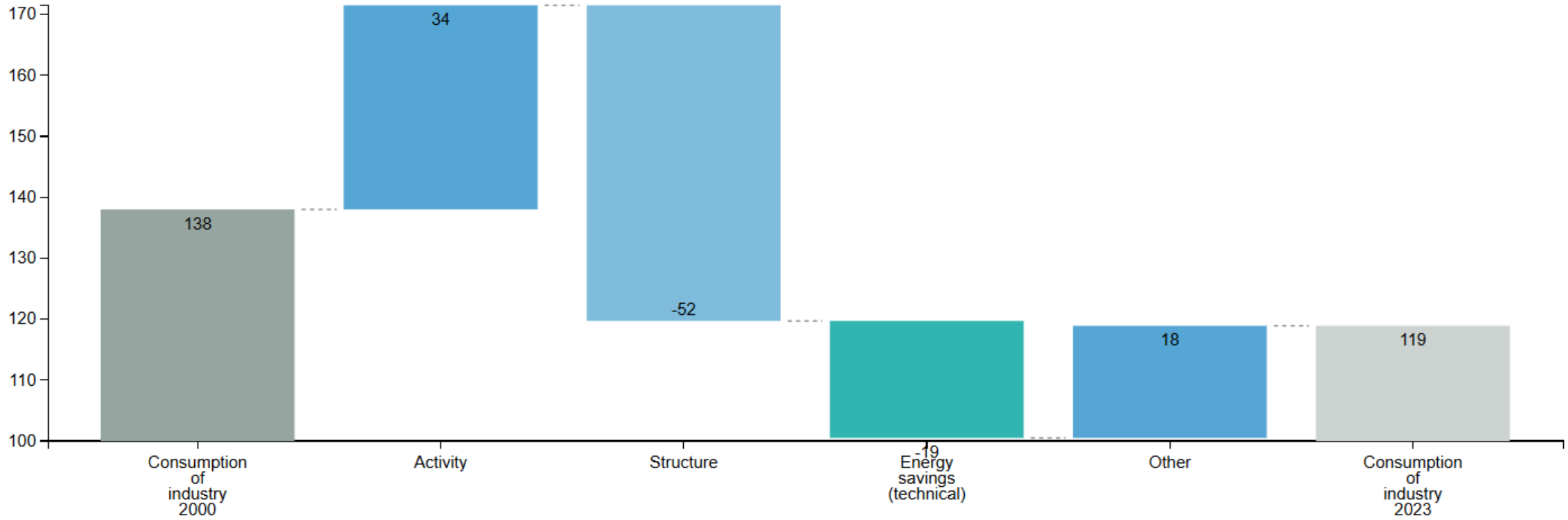
VARIATION INDUSTRY CONSUMPTION
FINLAND
TWH (2000-2023)

EXCEL



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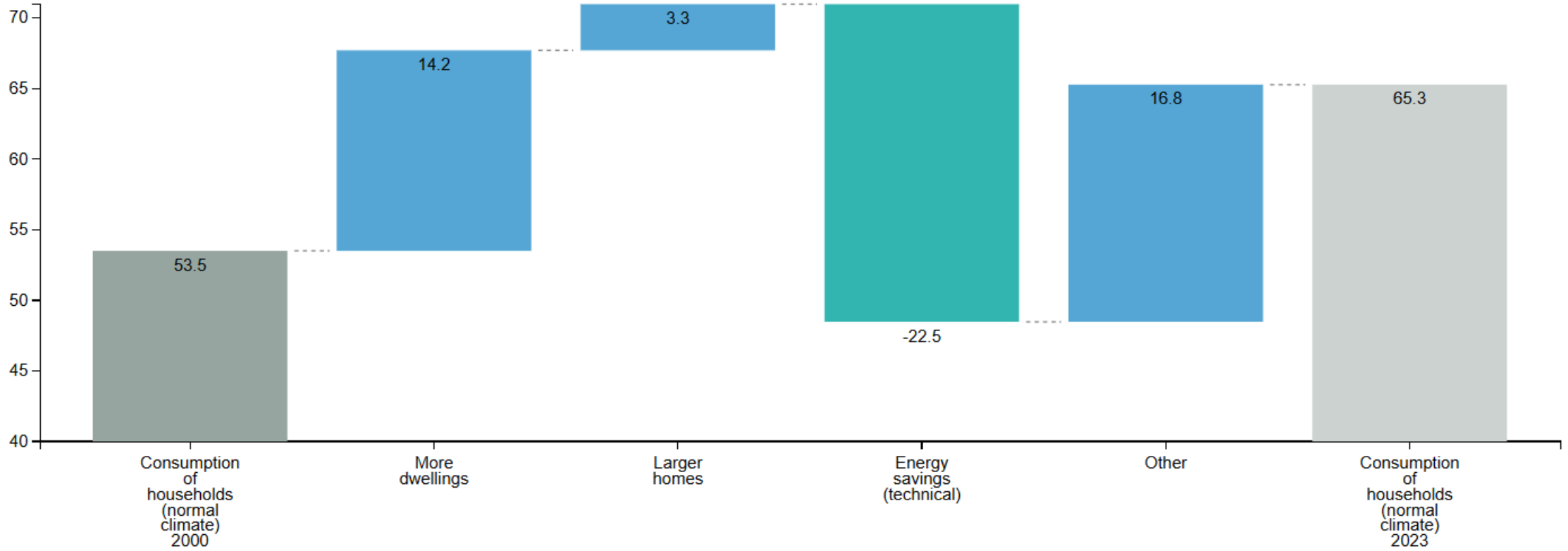
VARIATION HOUSEHOLDS CONSUMPTION
FINLAND
TWH (2000-2023)

EXCEL



Huom! Other sisältää behaviour-tekijöiden lisäksi lämpöpumppujen ilmaislämmön.
Tämä putsataan tuloksista vielä tämän projektikauden aikana.

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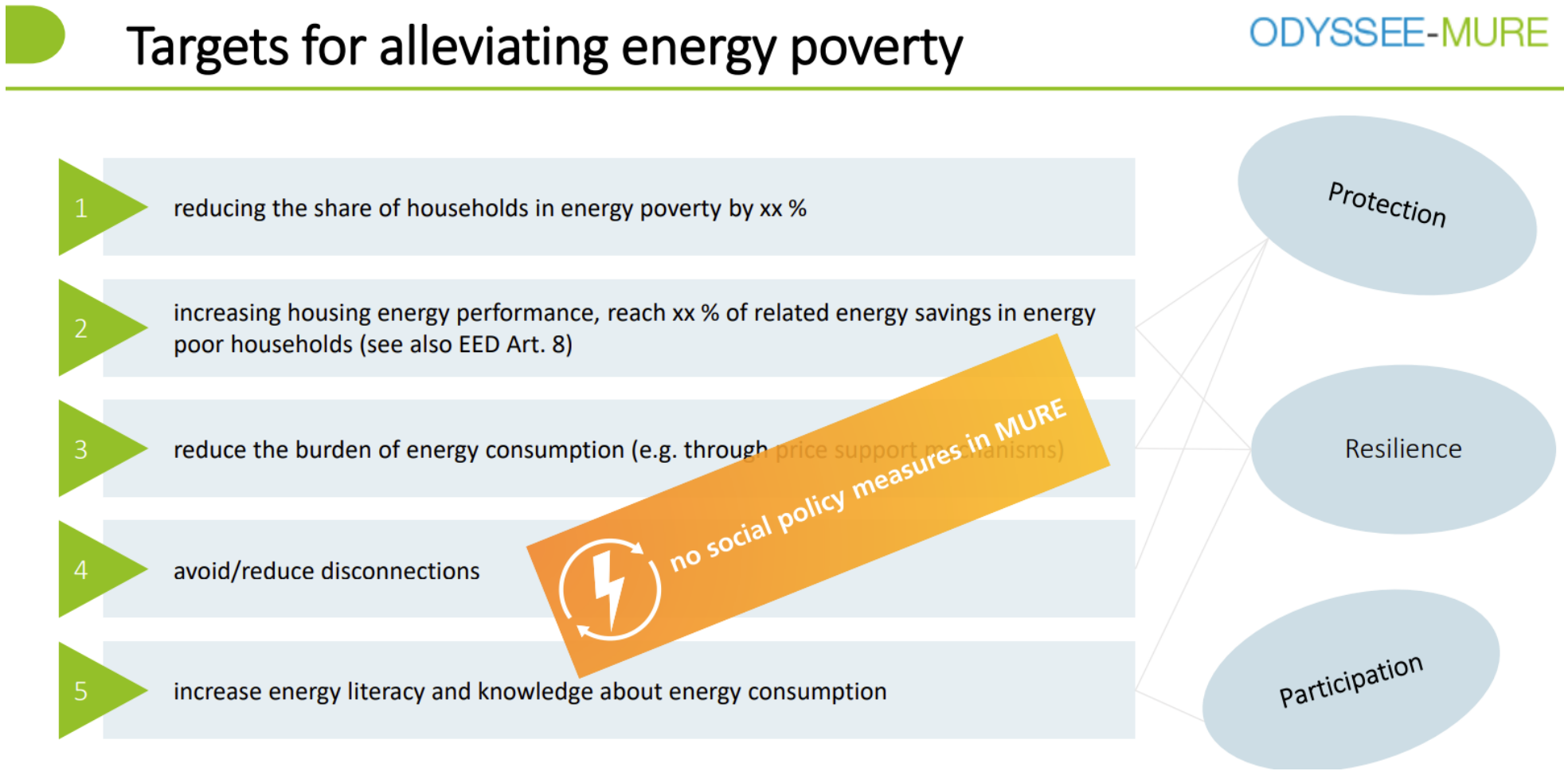
Energiaköyhyys ja ”Energy sufficiency”

Projektin tulokulma energiaköyhyyteen



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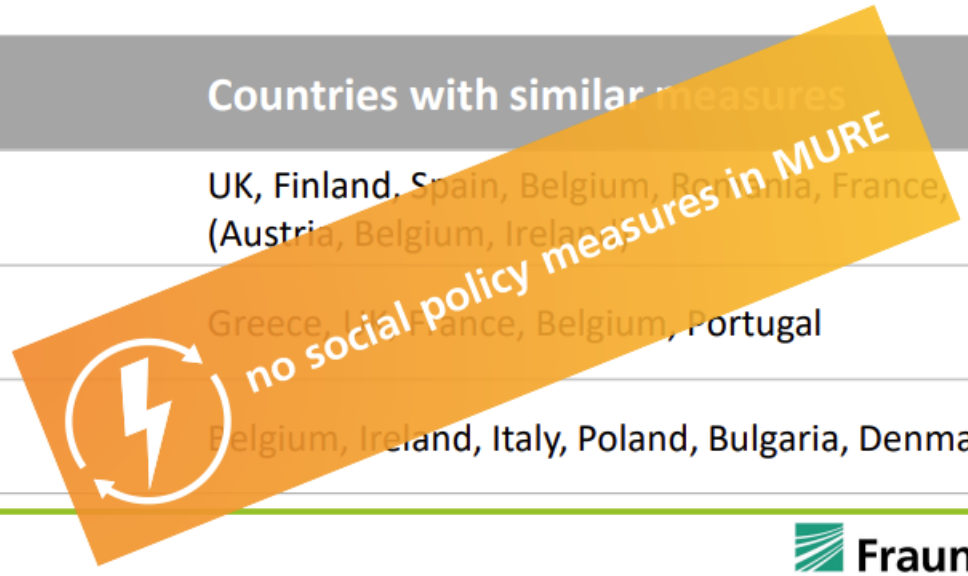
Types of energy poverty policies

ODYSSEE-MURE

Category	Instrument Type	Countries with similar measures
Instruments and measures related to CO_2 pricing	Revenue recycling options from CO_2 pricing	Germany, Denmark, Switzerland
Resilience: Energy efficiency instruments	Financial support for low-income owner-occupiers	France, Belgium, UK, Germany
	Electricity and energy savings check	Germany, Netherlands, Austria, France, Belgium
	Energy Company Obligations	Lithuania, Latvia, Luxemburg, Malta
Participation: Infrastructure and technology	Smart Meters	across the EU and UK
	Self-generated electricity for tenants	Germany

Category	Instrument Type	Countries with similar measures
Protection: Regulatory instruments	Disconnection Protections	UK, Finland, Spain, Belgium, Romania, France, (Austria, Belgium, Ireland)
	Social Domestic Tariffs	Greece, UK, France, Belgium, Portugal
Resilience: Direct financial support	Electricity and Gas funds	Belgium, Ireland, Italy, Poland, Bulgaria, Denmark



Energy poverty, policy briefs

Projektissa tehty joukko policy brief –julkaisuja:

- Alleviating energy poverty: key developments of the policy framework for energy poverty detection and measure improvements (2024)
- Addressing Energy Poverty Through Effective Energy Efficiency Schemes: Policy development, examples and recommendations (2024)
- Main energy poverty measures in Europe: Characterisation from the EPOV and the EED perspectives (2024)
- Measuring and monitoring energy poverty in the EU - examples of good practices (2022)
- Incentives and energy poverty in EU (2021)
- Energy Poverty in the EU (2021)
- Fuel poverty and energy efficiency in EU (2021)

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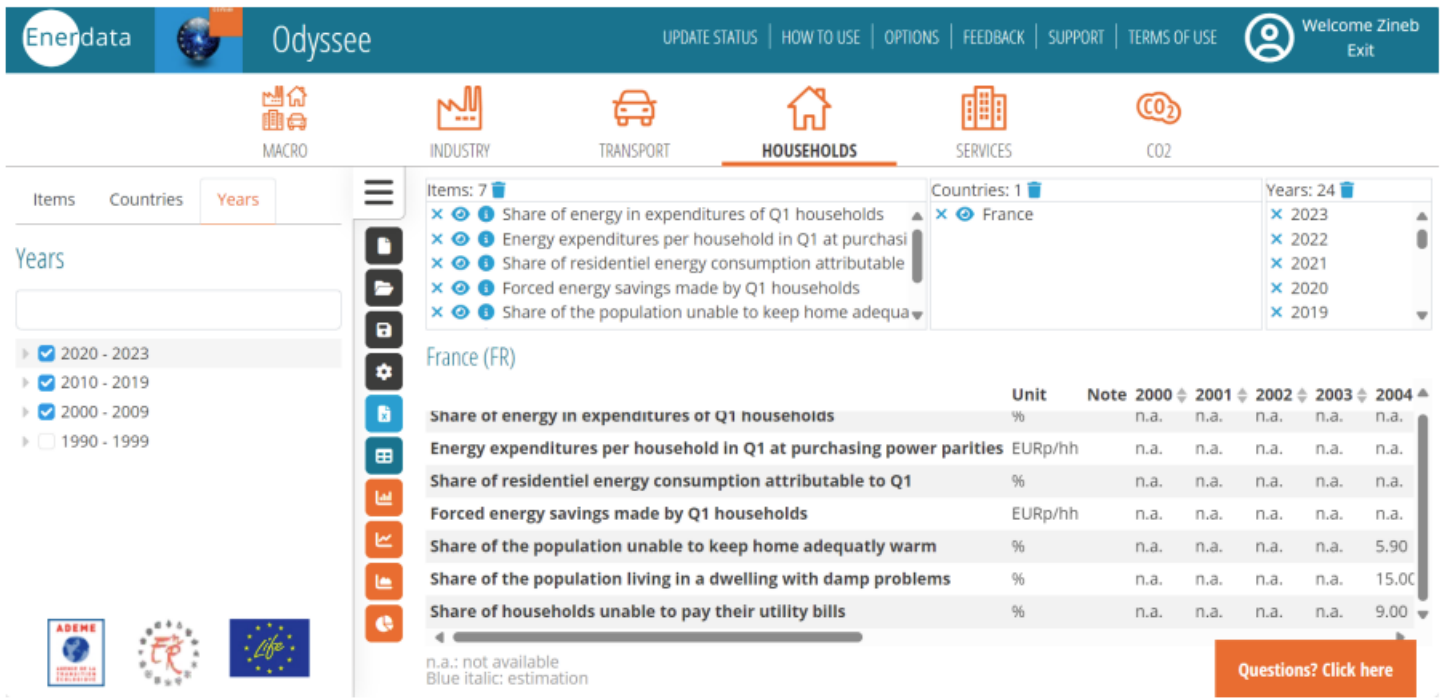
Energy poverty indicators in the Odyssee database

- 7 indicators on energy poverty in the household sector in the EU (see list in Annex)
- Based on Eurostat data, with additional treatment and calculations by Enerdata (focus on the lowest quintiles + analysis).
- Indicators included in ODYSSEE data base and in the next update of household sectorial profile



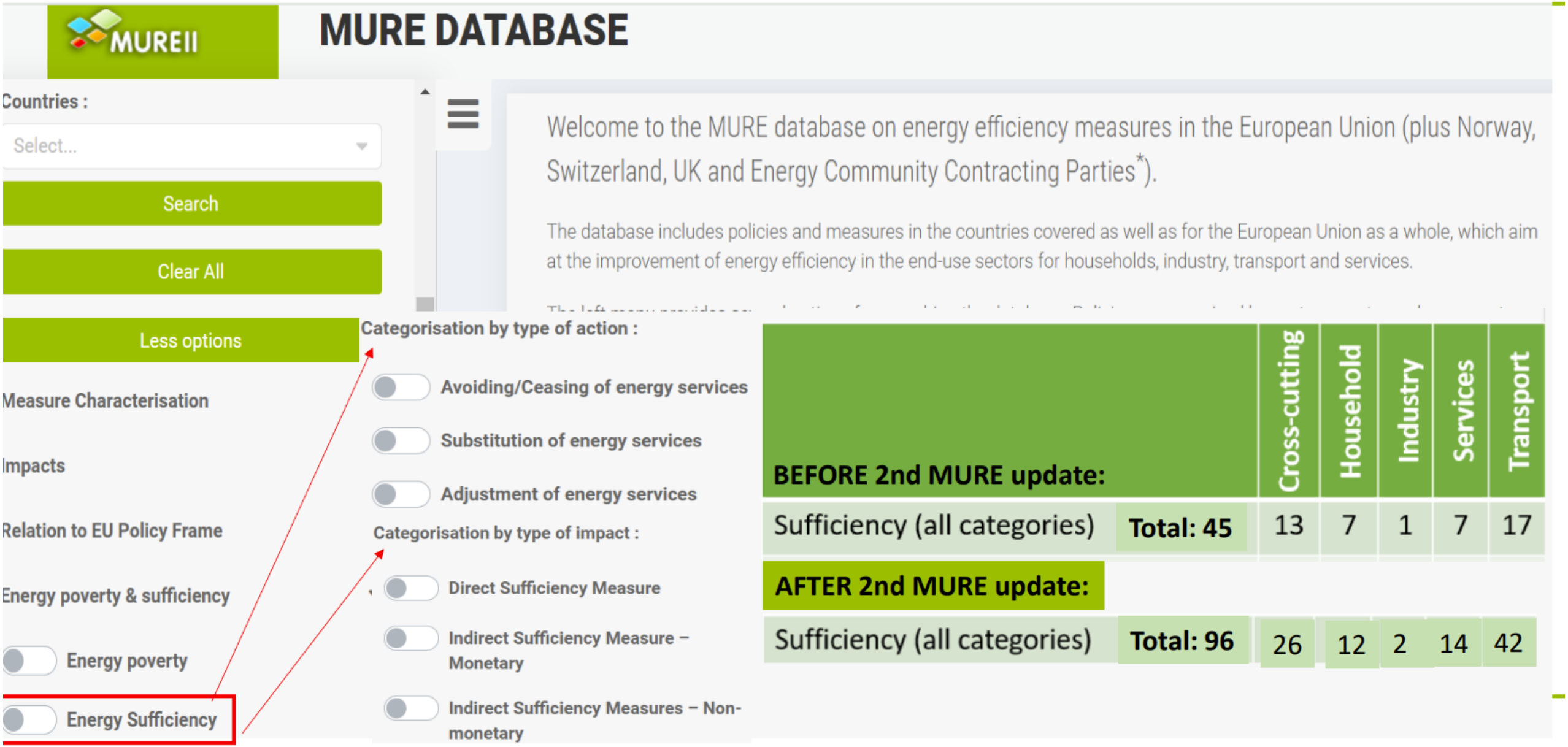
- *Energy expenditures in dwellings only*
- *Indicators 1 to 5: Available every 5 years starting from 2005*
- *Indicators 5 to 7 : available 2004 onwards*

Definitions of Energy Sufficiency in MURE

ODYSSEE-MURE

Energy sufficiency	A state in which people's basic needs for energy services are met equitably and ecological limits are respected.
Energy sufficiency actions	Actions which **reduce energy demand**, to take us towards the energy sufficiency state, whilst at the same time **changing the quantity or quality of the energy services demanded** in a sustainable way and not below people's basic needs.
Energy services	The **benefits provided by energy**, such as cooking, lighting, cooling, IT-based communication, automotive transport and industrial processes.
Sufficiency vs. efficiency	Their nature of changing the quantity or quality of the energy services demanded is exactly what **distinguishes energy sufficiency actions from energy efficiency actions.**

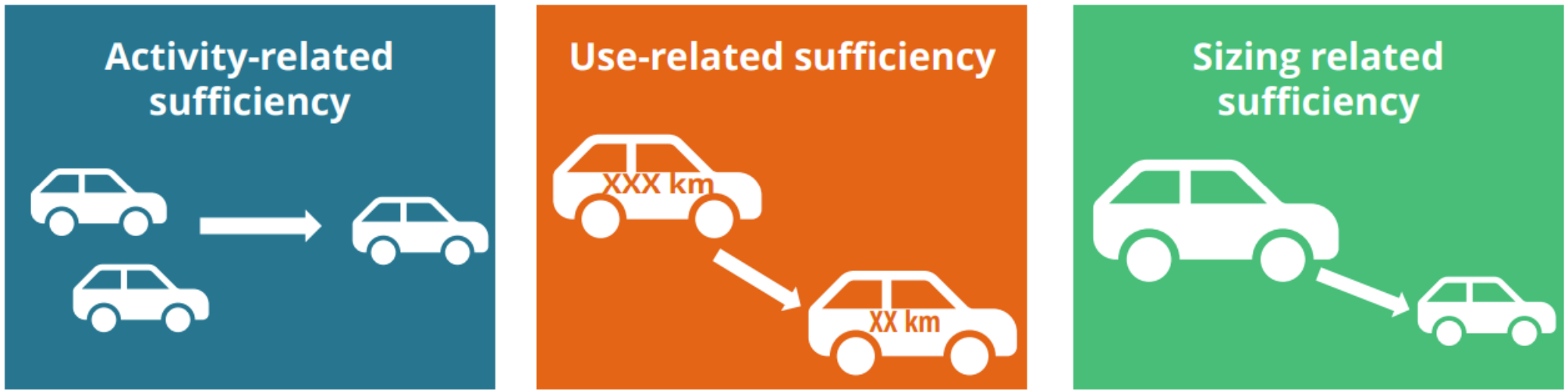
Energy Sufficiency Measures in MURE – status after 2nd update ODYSSEE-MURE



BEFORE 2nd MURE update:		Cross-cutting	Household	Industry	Services	Transport
Sufficiency (all categories)	**Total: 45**	13	7	1	7	17
AFTER 2nd MURE update:						
Sufficiency (all categories)	**Total: 96**	26	12	2	14	42

Various forms of energy sufficiency at sector level

Energy sufficiency here refers to a reduction of final energy consumption in the households and transport sectors, linked to three types of household behaviours:



Energy sufficiency, policy briefs

Energy Sufficiency Indicators and Policies (2021)

Uusia tulossa, seuraa: odyssee-mure.eu/publications/policy-brief/

A Leap Beyond Efficiency - Energy Sufficiency Policies in Europe (Gynther, 2025, webinaari 21.1)

Evolution of sufficiency policies in Poland (webinaari 17.2.)

Lifestyles in EU MS and its potential for energy consumption reduction (helmi-maaliskuu?)

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Täydennetty scoreboard

Energy poverty + energy sufficiency lisätään scoreboardiin täydentävinä elementteinä (kesken)

- Tarkastelut pääasiassa kotitalous- ja liikennesektorilla

Policy-modulissa pyritään erottamaan ‘energy poverty/sufficiency –toimien” vaikutus politikkatoimien kokonaisvaikutuksesta

Sufficiencyn level + trend –moduleissa arvioidaan dekomponoinnista, kuinka paljon lisääntynyt aktiviteetti (mm. asuntojen määrä) ja “mukavuustekijät” (asuntojen ja autojen koko) ovat vaikuttaneet indikaattoreihin

Motiva

Policy Assessment Tool +
MICAT-tool (multiple benefit -analyysit

Policy Assessment Tool: What it does and how it functions

- Links to the ODYSSEE-MURE database on energy efficiency policies and indicators. These in turn are updated by national teams in each EU MS and link to NECPs and Art. 8 (formerly Art. 7) measures
- Extracts information on measures and their impacts by EU MS.
- Adjustment factors to account for implementation, impact and interactions (need to be determined by interviews as done previously)
- Allows to compare with EU scenarios (reference and policy scenario), establishes what part of the gap is filled by measures and what part still needs to be filled
- Will be linked to Multiple Impacts of the EE measures (see later)
- Has a dashboard to consult those measures and allows to identify the important ones.
- Links measures to EU directives as far as relevant (will allow in future to analyse also the impacts of different EU Directives).
- Under preparation: a gap filling approach based on the evaluation of measures in the tool based on certain number of criteria and a ranking of the measures. Multiple benefits could also become part of that ranking.

Policy Assessment Tool – Status quo

- First version of (webbased) Policy Assessment Tool available
- Improvements to graphs necessary
- Work on correct transfer from MURE API

MICAT-tool

- EU-rahoitettu multiple benefit –analyysityökalu: MICAT
- Vapaasti käytettävissä
- Laskee erilaisia ’multiple benefits/impacts’ (externalities) sekä määrällisesti että monetarisoiden
- Syöttötietona vain erilaisten toimenpiteiden energiansäästön määrä
- Sisältää kansallisina parametreinä mm. energiankäytön rakenteen, väestötiheyden ym.
- Korvaa Odyssee-Muren oman kömpelömmän työkalun
- Yhdistetään Odyssee-Muren policy analysis –työkaluun

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Keskustelu

Kiitos!

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www.motiva.fi