



Fisuel Seminar – 15-16 of October 2024

Barcelona – Spain

Oliver TISSOT - ICA

Forum for **E**uropean **E**lectrical **D**omestic **S**afety



Forum for European Electrical Domestic Safety

- Group of stakeholders (Firefighters officers, consumer associations, insurance sector, and professional organisations)
- FEEDS works on domestic electrical safety, and particularly electrical inspections as essential fire prevention measure

<https://www.feedsnet.org/>

<https://twitter.com/euelecsafety>

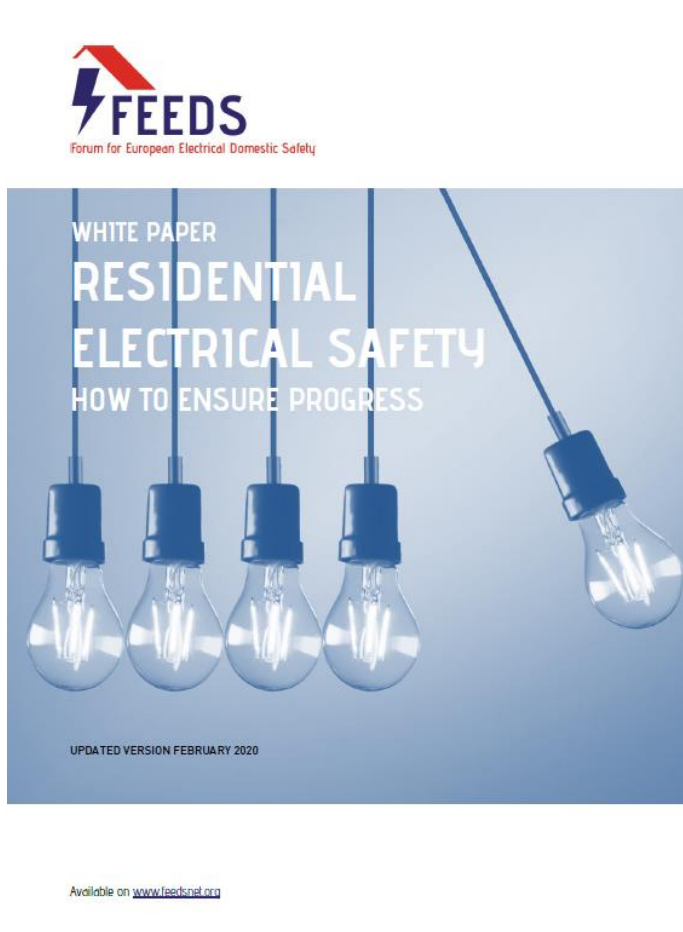
<https://www.linkedin.com/company/feeds-eu/>



European transparency register: 720468945742-06

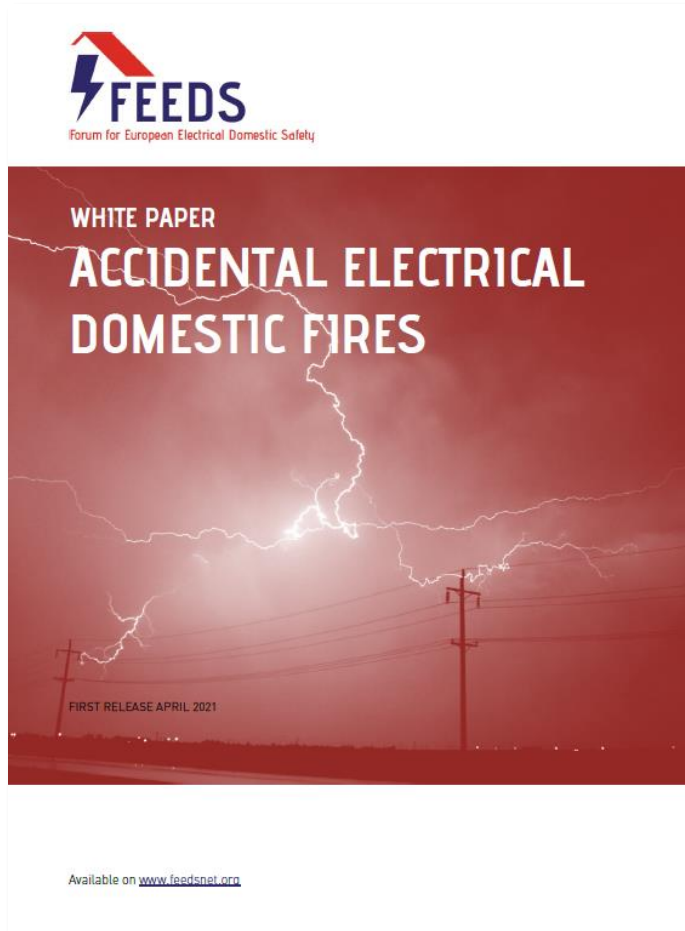


FEEDS reports



**"In Europe, 30%
of domestic fires
have an
electrical source"**

2020



" In Europe, 50%
of domestic
accidental fires
have an electrical
source "

2021



- **95%** of respondents believe the link between EPOV and fire risk is existing
- Adequate measures are mostly occasionally implemented or even not well known
- Most degraded houses are the most likely to have obsolete electrical installations that can be a fire risk

2022

132 millions
of obsolete electrical installations

- 👉 More than 30 years old
- 👉 Never upgraded or renovated

Our data show that
electrical domestic fires have a
predominant share in Europe

BUT these fires are largely
preventable

~~**FATALITY**~~

 **Act by prevention**

Why is there **24 times** more electrical fires in Europe than in Japan?

	Population	Dwellings	Electrical Fires	EF/population	EF/dwellings
EU	512 762 685	227 081 424	273 230	530	1200
Japan	126 475 664	53 890 900	2 732	22	50

This table was presented during the 1st *European Fire Safety Week* in **2019**

 **Inspection regimes are key**

Theresa Griffin MEP @TheresaMEP · 27 nov. 2019
 Media on #FireSafety & the #EU #ClimateEmergency. Your @LabMEPs working for you. Most domestic fires are preventable. We need to take action now to save our planet. Just another working day in @Europarl_EN & still @TheProgressives Group Meeting to go!



Theresa Griffin MEP @TheresaMEP · 20 nov. 2019
 No we can't accept this & will take further action

Modern Building Alliance @ModernBuildEU · 20 nov. 2019
 Electrical fires per dwelling in #EU ⚡🔥

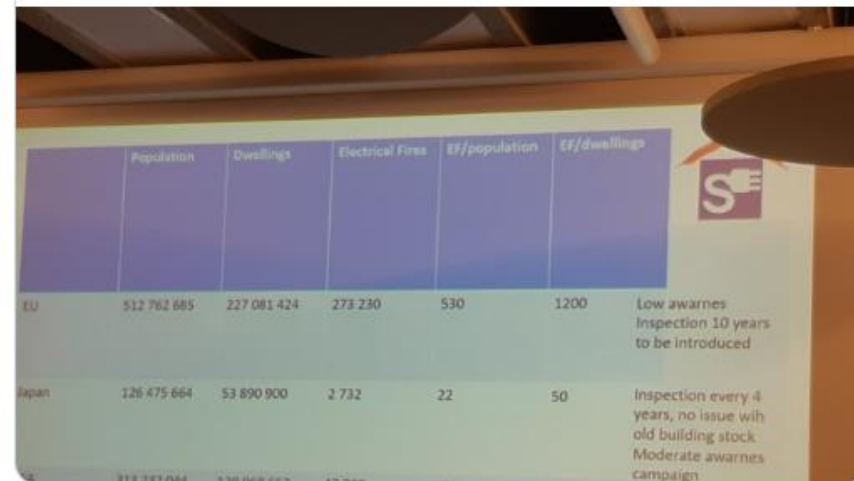
3 times more than in #USA 😞
 24 times more than in #Japan 🙄

Can we accept that? 🚨🚦
 @TheresaMEP @SeanKellyMEP

#prevention #inspection

#EuropeanFireSafetyWeek


[Afficher cette discussion](#)



	Population	Dwellings	Electrical Fires	EF/population	EF/dwellings	
EU	512 762 685	227 081 424	273 230	530	1200	Low awarnes Inspection 10 years to be introduced
Japan	126 475 664	53 890 900	2 732	22	50	Inspection every 4 years; no issue with old building stock Moderate awarnes campaign

In the EU:

- **30%** of domestic fires have an electrical source
 - **50%** of accidental domestic fires have an electrical source
 - **132 millions** of obsolete electrical installation
- 👉 **Inspection of existing electrical installations in the domestic sector is an essential fire prevention measure**



What are the existing practices for domestic electrical inspection in Europe?



MAPPING
**ELECTRICAL INSPECTIONS
REGIMES IN THE EU:**
A SITUATION WHICH VARIES STRONGLY
AMONG MEMBER STATES

FEBRUARY 2022 - Draft version / Shared for feedback

Available on www.feedsnet.org

- Situation varies among Member States
- Deployment is limited

2022 revised 2024

FEEDS analysed the general framework regarding the installation and renovation of electrical installations in dwellings in various European countries

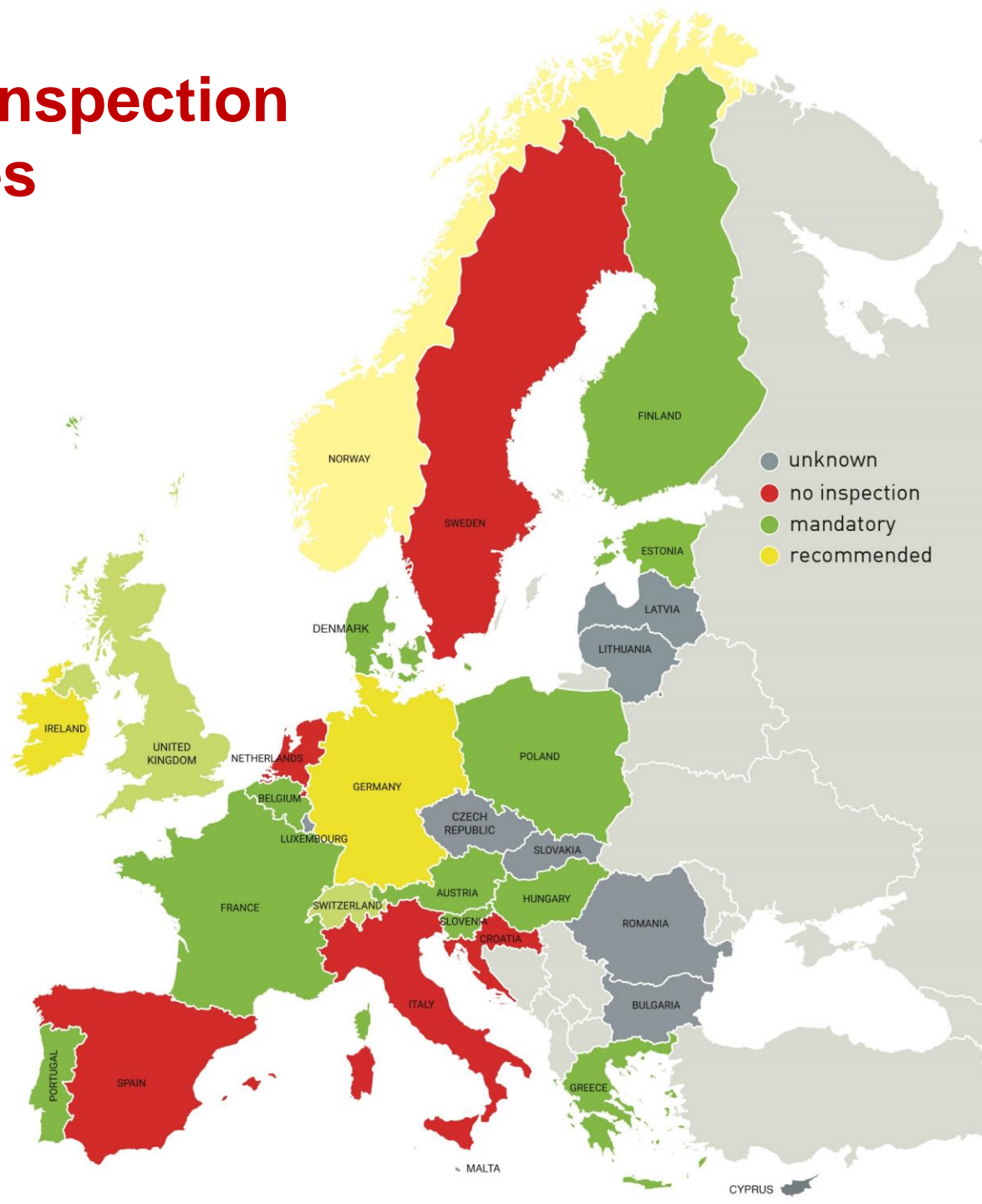
The work presented is based on **internal expertise**, it reflects the inventory that we have established on the basis of our knowledge and research

Mainly, **2 types** of regulations exist:

- **Initial** verification of the domestic electrical installation (new or completely refurbished)
- Inspection of **existing** domestic electrical installations

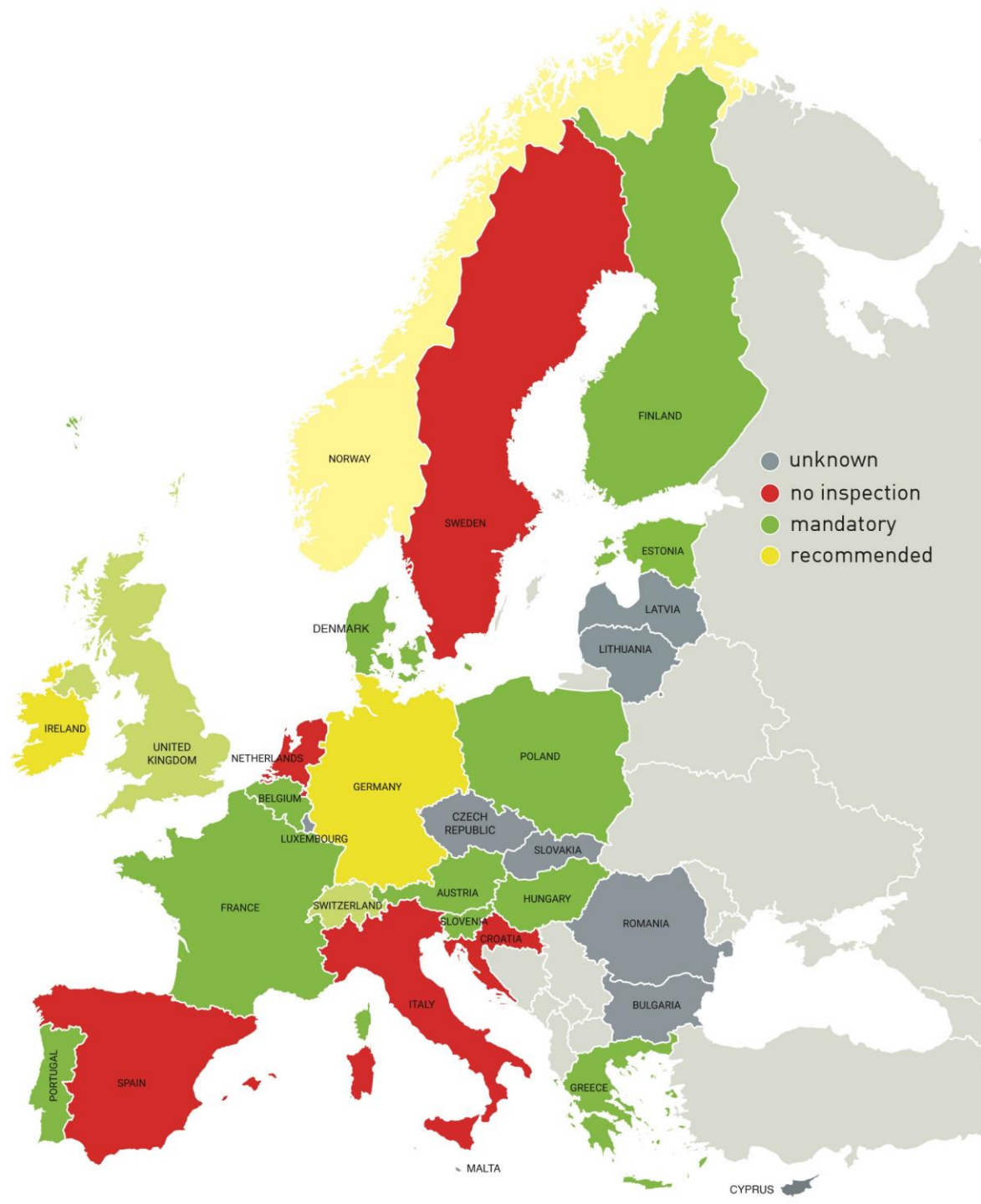
Two maps have been established accordingly

Initial inspection regimes



In the **majority** of the EU countries, an initial third-party verification of the domestic electrical installation in new residential buildings is **mandatory**. Most of these inspections are executed by private third-party or authorized electricians

In **some countries**, third-party inspection of the installation is **not mandatory**, but the work on the installation needs to be executed by **certified** electrical contractors



Inspection regimes for existing installations

If most (if not all) European countries have an inspection regime for **office buildings, hotels, hospitals, schools...**

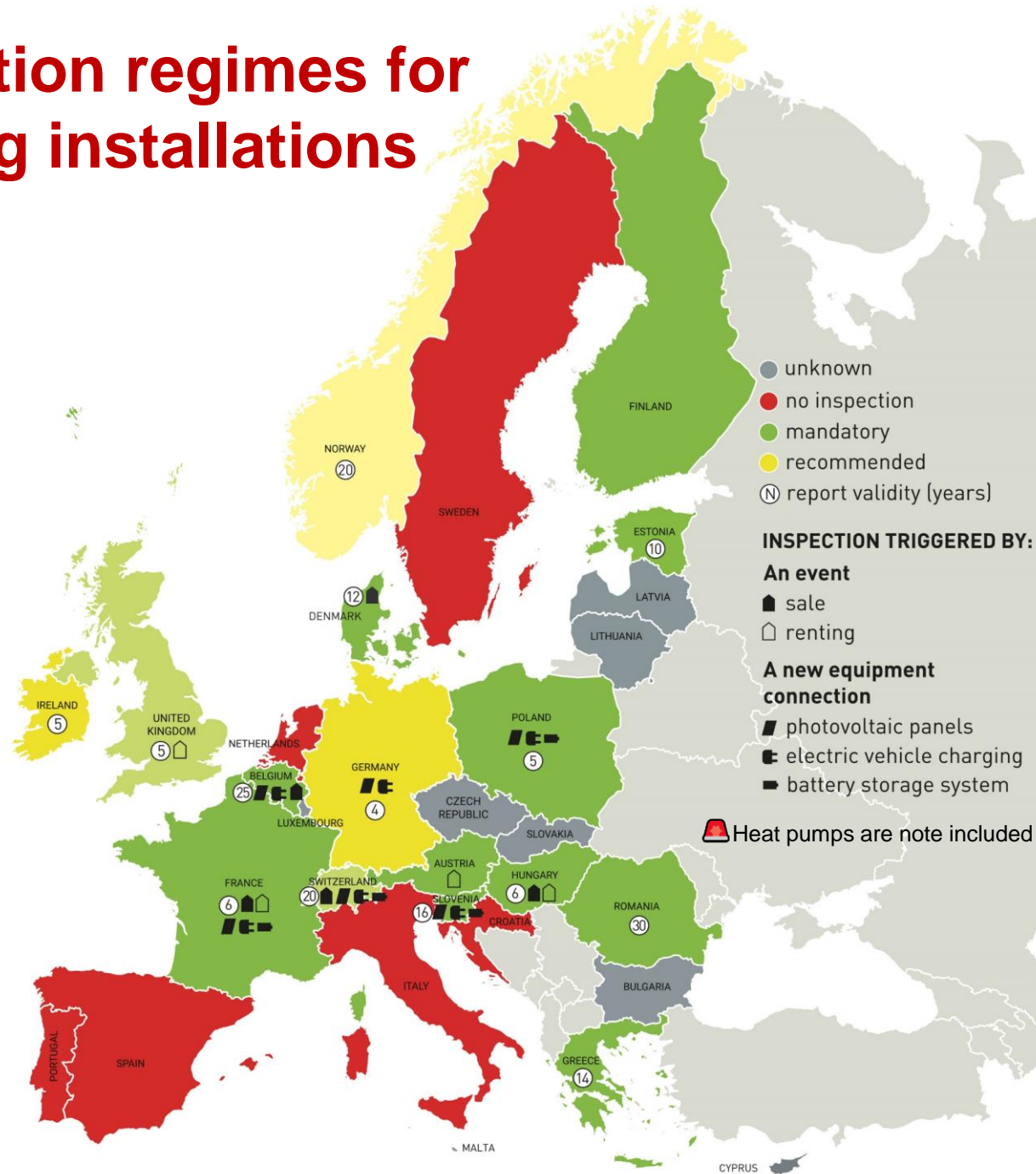
The **situation is completely different** regarding regulation for verifying **domestic** electrical installations after the initial inspection

Four concepts can be identified:

- Legal obligation
 - Periodic inspections at **fixed intervals**
 - Inspections with each **change of occupant**
 - Inspection after **major work** (Power increase, retrofit, new equipment...)
- Recommendation
 - CENELEC (HD 60364-6) **recommends a periodic inspection** of the electrical installation every **10 years**
- Voluntary (Insurance reward)
- Voluntary (Promotion – free inspection)



Inspection regimes for existing installations



AUSTRIA



Initial inspections (Map 1)		mandatory	
Periodic inspections (Map 2)		no	
Validity of the inspection report (Year)		no	
Conditions	Event related to housing	Sale	no
		Renting	mandatory
	New equipment installation	Photovoltaic panels	no
		Electric vehicle charging point	no
		Storage battery system	no

BELGIUM



Initial inspections (Map 1)		mandatory	
Periodic inspections (Map 2)		mandatory	
Validity of the inspection report (Year)		25	
Conditions	Event related to housing	Sale	mandatory
		Renting	no
	New equipment installation	Photovoltaic panels	mandatory
		Electric vehicle charging point	mandatory
		Storage battery system	no

FRANCE



Initial inspections (Map 1)		mandatory	
Periodic inspections (Map 2)		mandatory	
Validity of the inspection report (Year)		6	
Conditions	Event related to housing	Sale	mandatory
		Renting	mandatory
	New equipment installation	Photovoltaic panels	mandatory
		Electric vehicle charging point	mandatory
		Storage battery system	mandatory

GERMANY



Initial inspections (Map 1)		recommended	
Periodic inspections (Map 2)		recommended	
Validity of the inspection report (Year)		4	
Conditions	Event related to housing	Sale	no
		Renting	no
	New equipment installation	Photovoltaic panels	recommended
		Electric vehicle charging point	recommended
		Storage battery system	no

IRELAND



Initial inspections (Map 1)		recommended	
Periodic inspections (Map 2)		recommended	
Validity of the inspection report (Year)		5	
Conditions	Event related to housing	Sale	unknown
		Renting	unknown
	New equipment installation	Photovoltaic panels	unknown
		Electric vehicle charging point	unknown
		Storage battery system	unknown

GREECE



Initial inspections (Map 1)			mandatory
Periodic inspections (Map 2)			mandatory
Validity of the inspection report (Year)			14
Conditions	Event related to housing	Sale	unknown
		Renting	unknown
	New equipment installation	Photovoltaic panels	no
		Electric vehicle charging point	no
		Storage battery system	no

HUNGARY



Initial inspections (Map 1)		mandatory	
Periodic inspections (Map 2)		mandatory	
Validity of the inspection report (Year)		6	
Conditions	Event related to housing	Sale	mandatory
		Renting	mandatory
	New equipment installation	Photovoltaic panels	unknown
		Electric vehicle charging point	unknown
		Storage battery system	unknown

ITALY



Initial inspections (Map 1)		no	
Periodic inspections (Map 2)		no	
Validity of the inspection report (Year)		no	
Conditions	Event related to housing	Sale	no
		Renting	no
	New equipment installation	Photovoltaic panels	no
		Electric vehicle charging point	no
		Storage battery system	no

POLAND



Initial inspections (Map 1)			mandatory
Periodic inspections (Map 2)			mandatory
Validity of the inspection report (Year)			5
Conditions	Event related to housing	Sale	no
		Renting	no
	New equipment installation	Photovoltaic panels	mandatory
		Electric vehicle charging point	mandatory
		Storage battery system	mandatory

👉 The deployment of electrical domestic inspection regimes in Europe is limited

👉 The situation **varies strongly** among Member States

Best practices are already existing for encouraging regular inspection regimes:

- In every dwelling on regular basis
- When major equipment is added

MERCI - THANKS

