

WELMEC

Informative Document

Screening project on non-automatic weighing instrument with point of sale devices

**Prepared by
Working Group 5 Metrological Supervision**

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A SCREENING PROJECT ON NON AUTOMATIC WEIGHING INSTRUMENTS (NAWI) WITH POINT OF SALE (POS) DEVICES

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WELMEC, WG 5/ADCO MI meeting, 21-23, March, Paris



Content:

- Background
- Definition of the project tasks
- The results of the surveillance/supervision
 - Results of the metrological tests
 - Results of the formal examination
- Where we discover the biggest non conformities
- Follow actions
- Summary





Background and rationale for the study

- ▶ NAWI + POS devices are part of the daily life of millions of Europeans
- ▶ Devices need to fulfil the requirements described in the Directive 2014/31/EU
- ▶ Lack of knowledge and experience by market surveillance authorities
- ▶ Surveillance of these devices in France 2013





Definition of the project tasks

Formal test

- Device identification (manufacturer, type designation, serial number, year of CE marking, TC number for POS system)
- Documents – declaration of conformity and by whom it was issued
- Visual inspection/ conformity marking
- Software version (NAWI/POS)
- Visibility to both vendor and customer: weight/unit/price to pay





Definition of the project tasks

Metrological examination

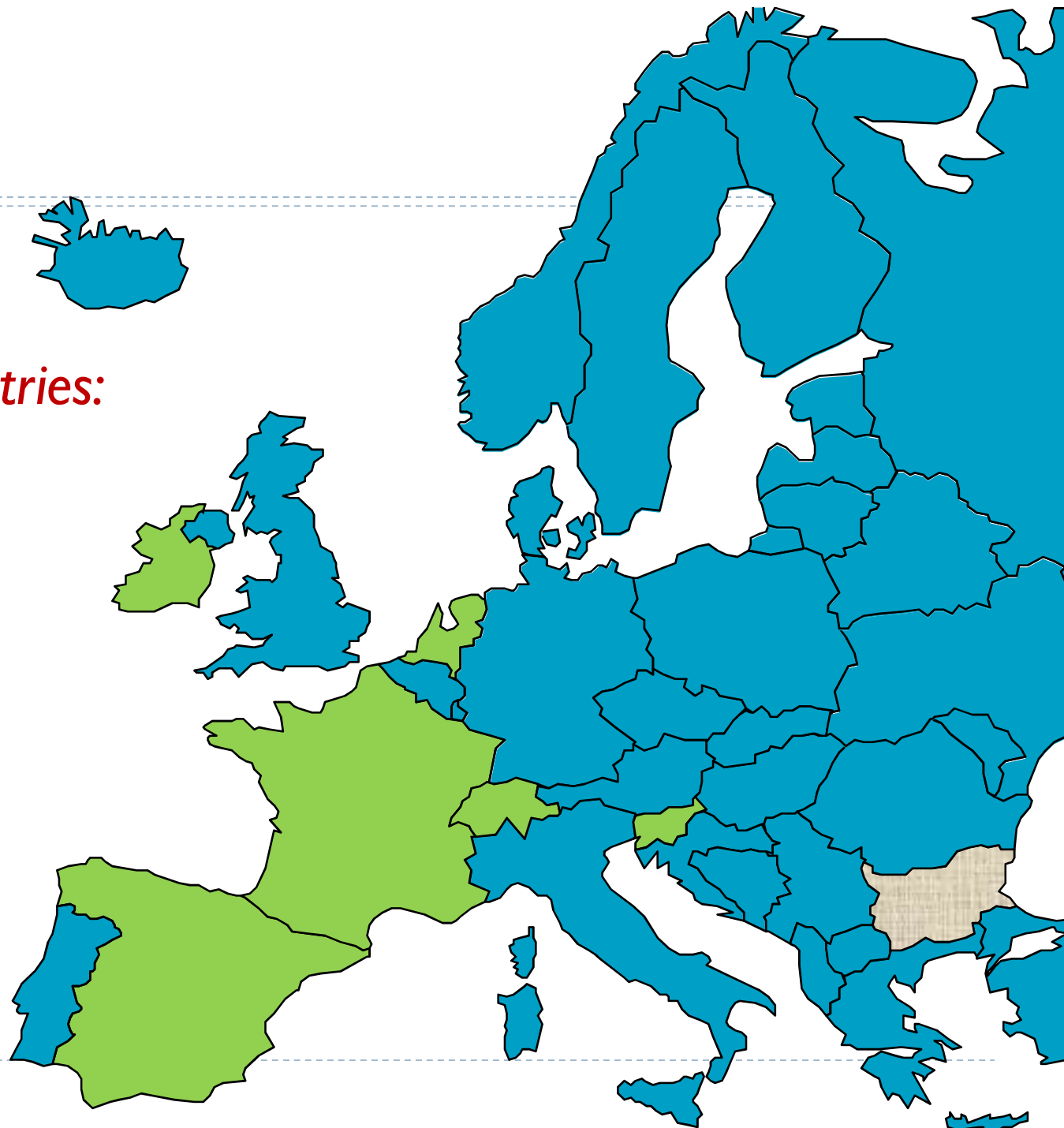
- Test of stability of equilibrium - possible differences between digital indication and print-out
- Accuracy test at 10 g and 1 kg
- Test of price calculation- possible differences between digital indication and print-out
- Multiple print out possibility
- Other remarks





Participating countries:

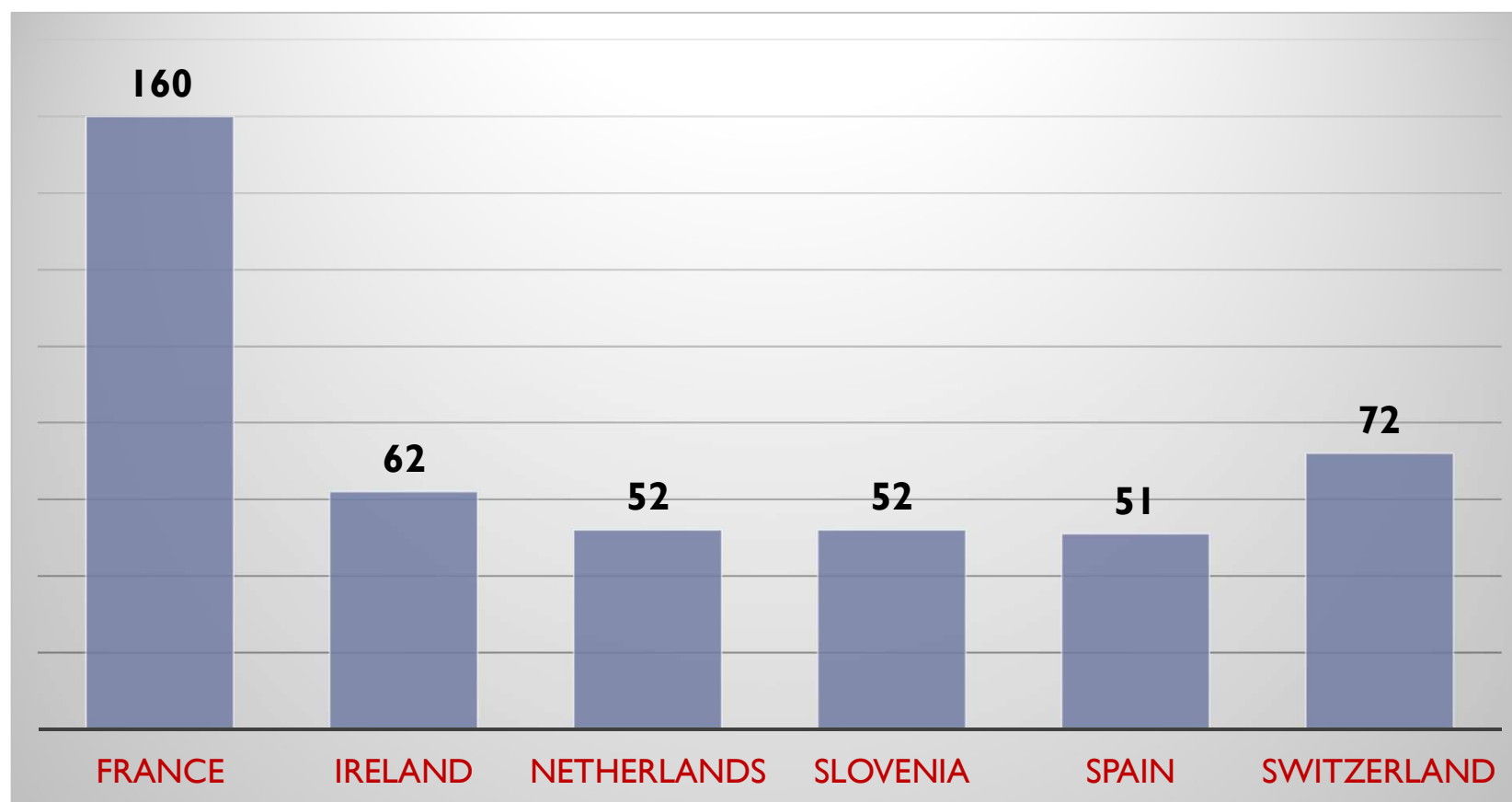
1. France
2. Ireland
3. Netherland
4. Slovenia
5. Spain
6. Switzerland



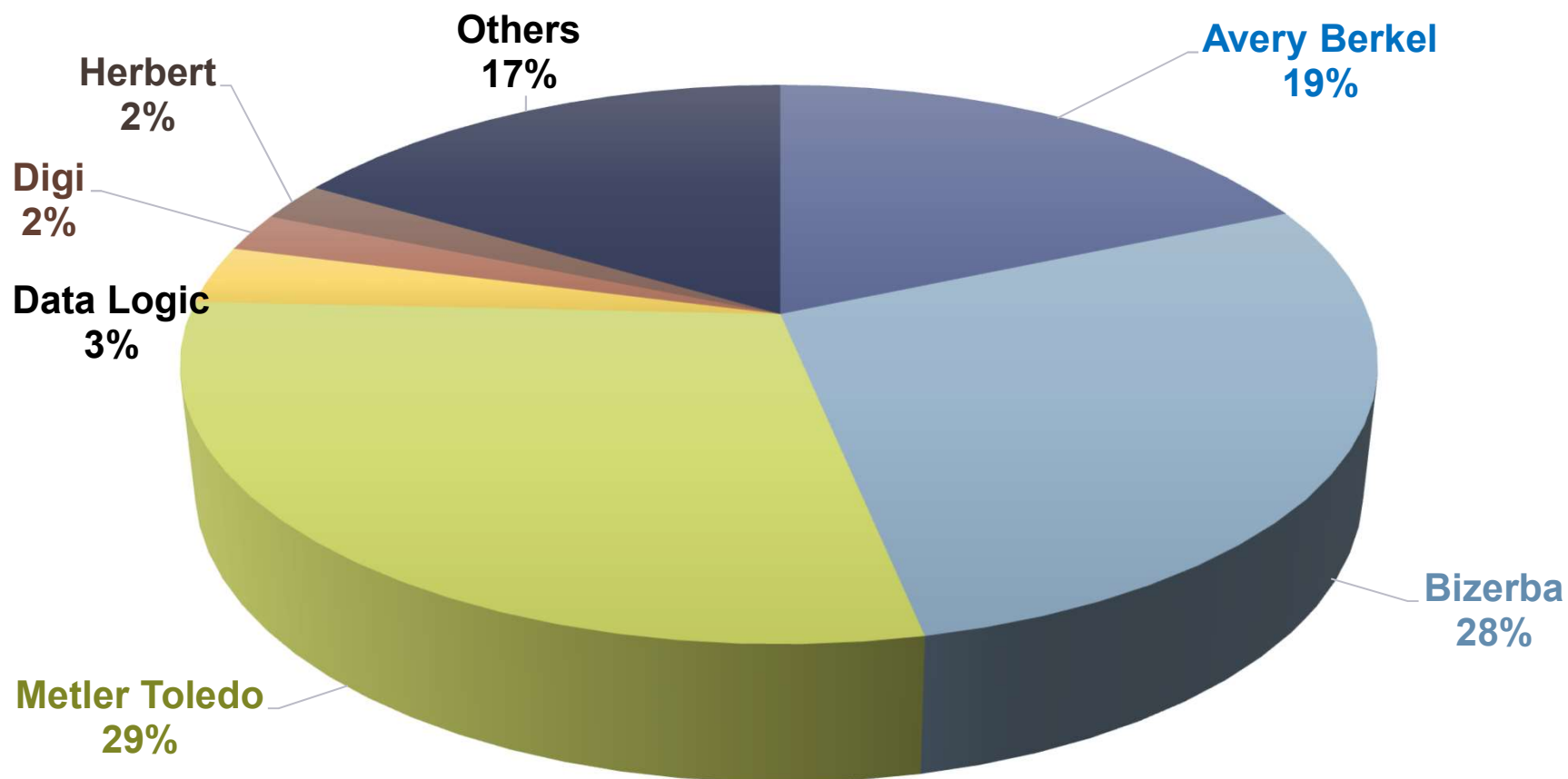


Number of the tested measuring instruments

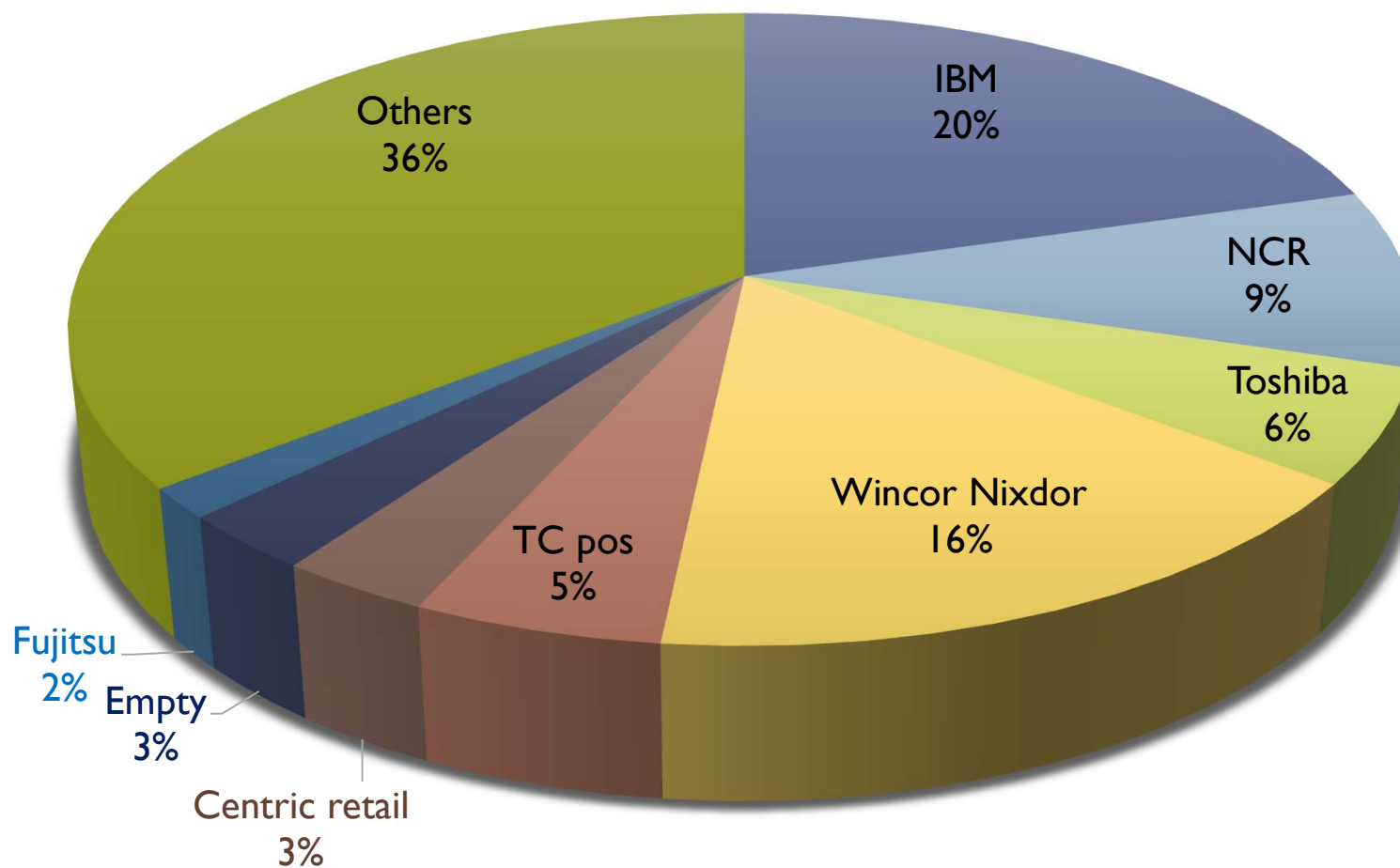
Tested: 449 NAWI + POS



Tested NAWI by manufacturers

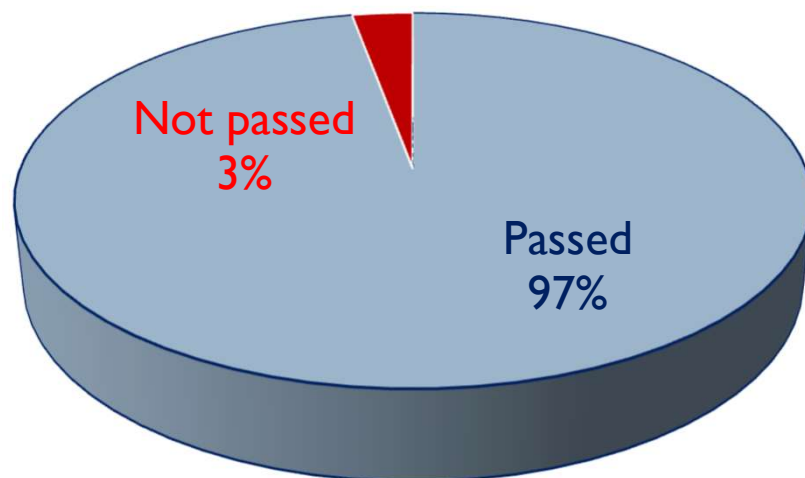


Tested POS by manufacturers

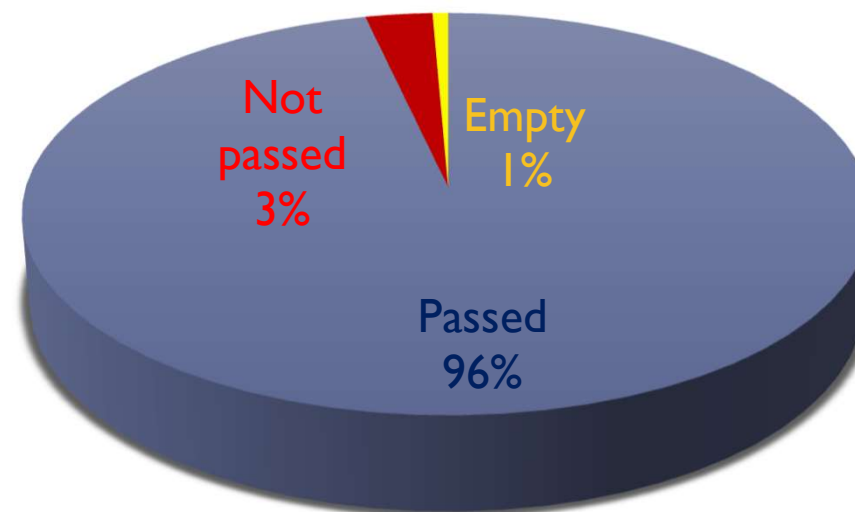


Metrological tests

Test of stability equilibrium

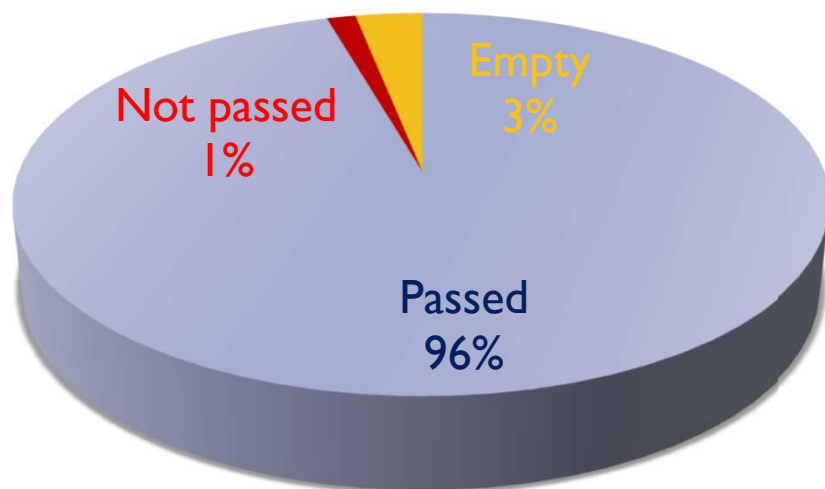


Test of stability equilibrium any differences (between digital indication and print-outs)

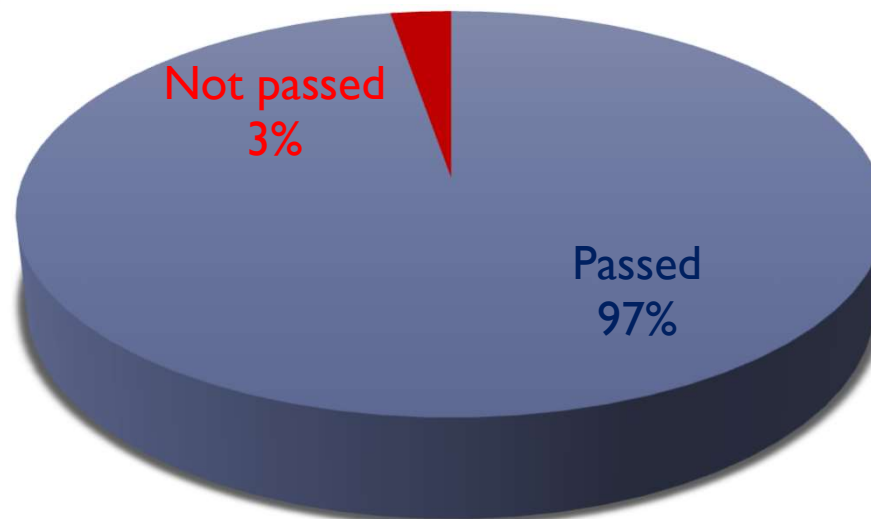


Metrological tests

Test of price calculation 1 (one load and three different price)

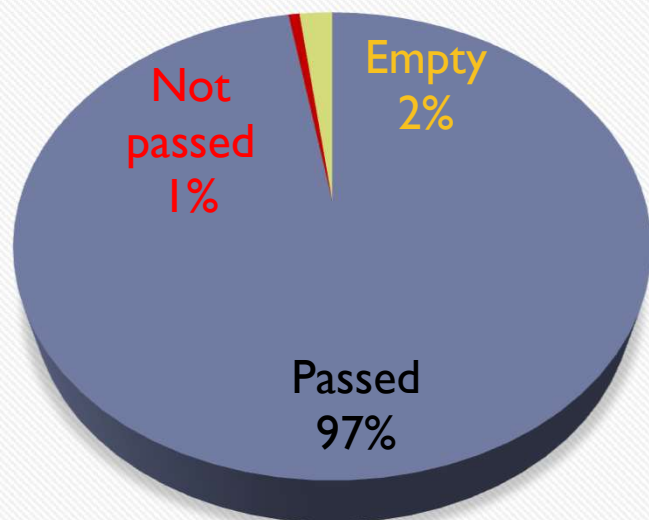


Test of price calculation 2 (one fixed unit price and three different loads)

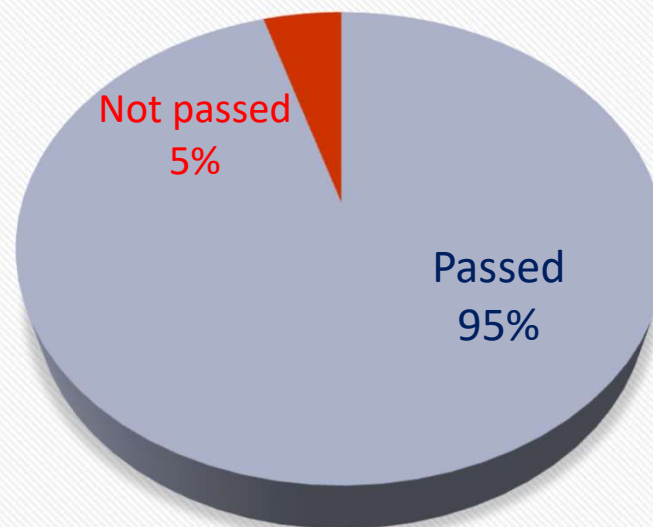


Metrological tests

Accuracy test 10 g

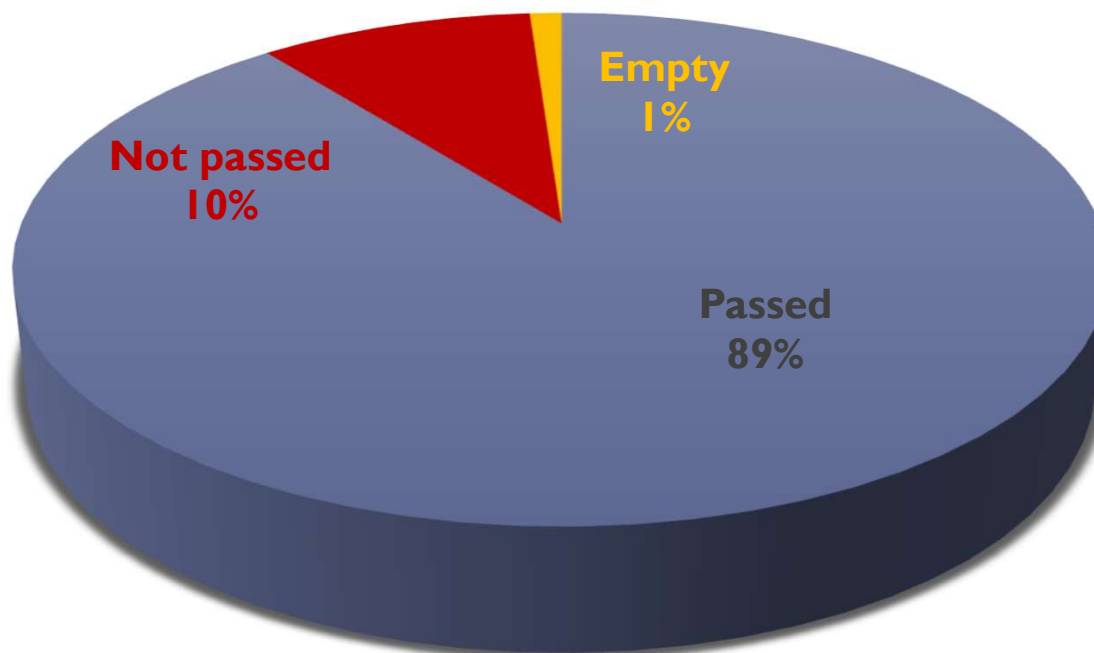


Accuracy test 1kg



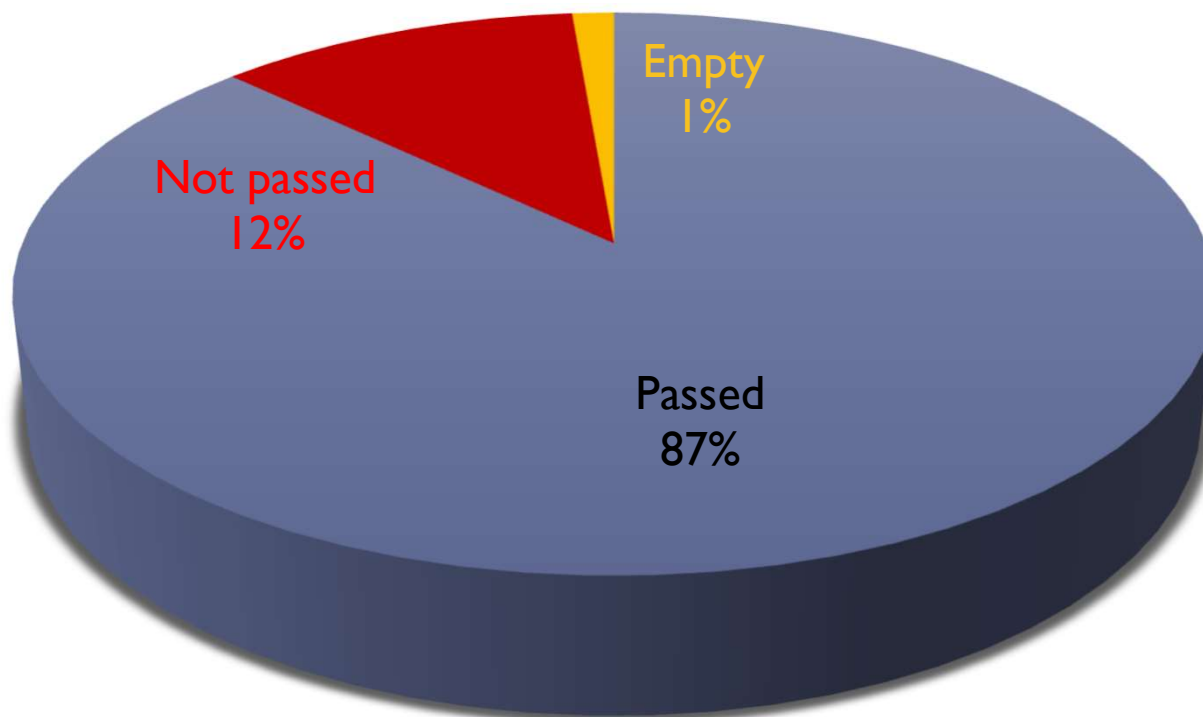
Metrological tests

Multiple print out possible, without unloaded balance



Metrological tests

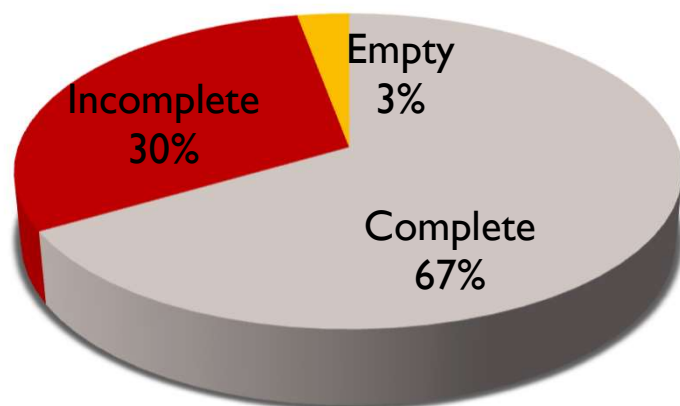
Metrological examination passed



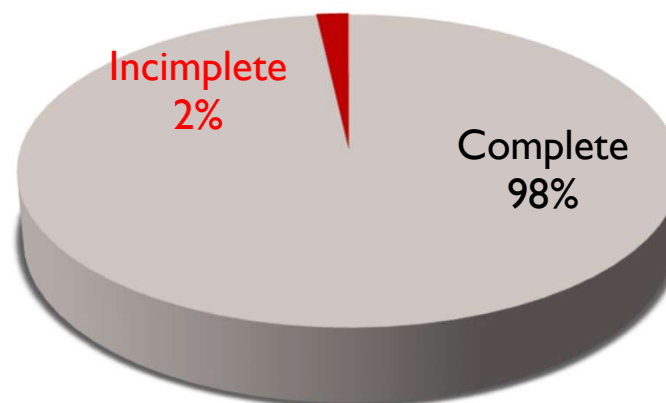


Formal Checks – POS / NAWI Labels/ conformity marking

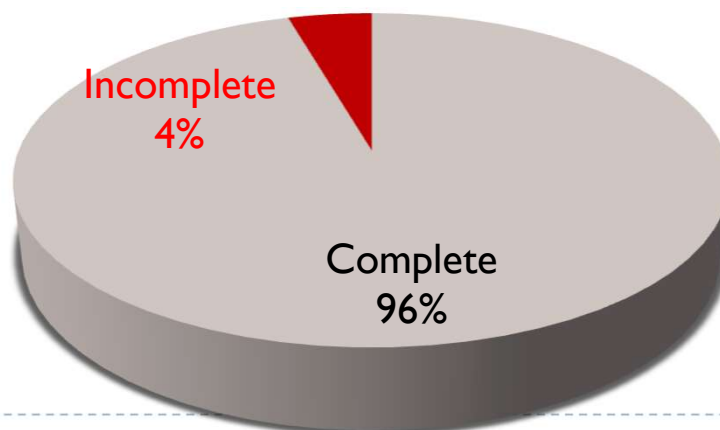
Labels POS



Labels NAWI

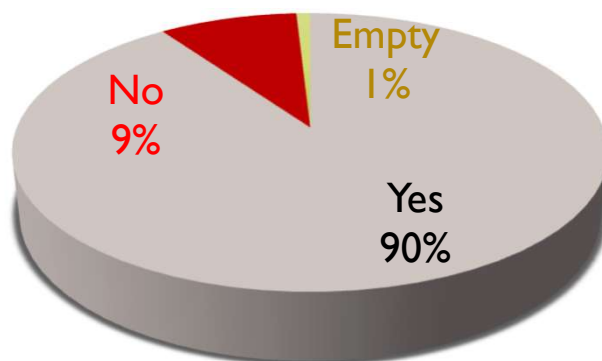


Conformity marking/sealing point

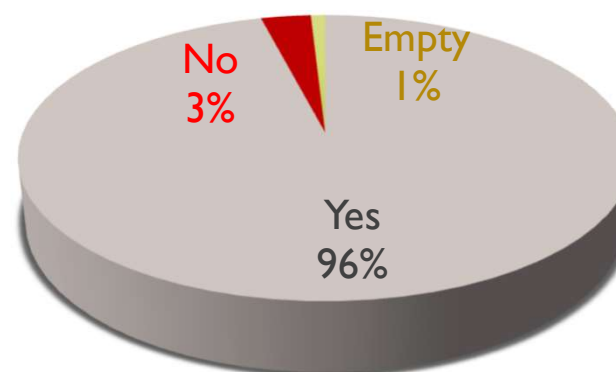


Formal Checks – Visibility

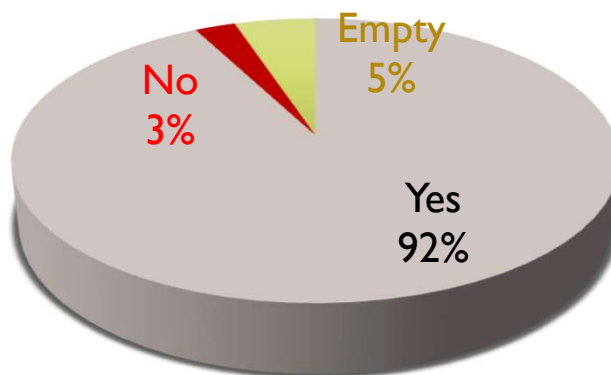
Visible currency to user and customer



Visible price to user and customer

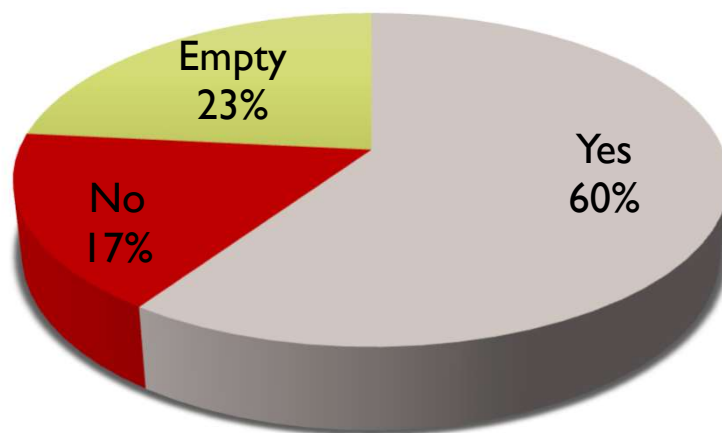


Visible weight to user and customer

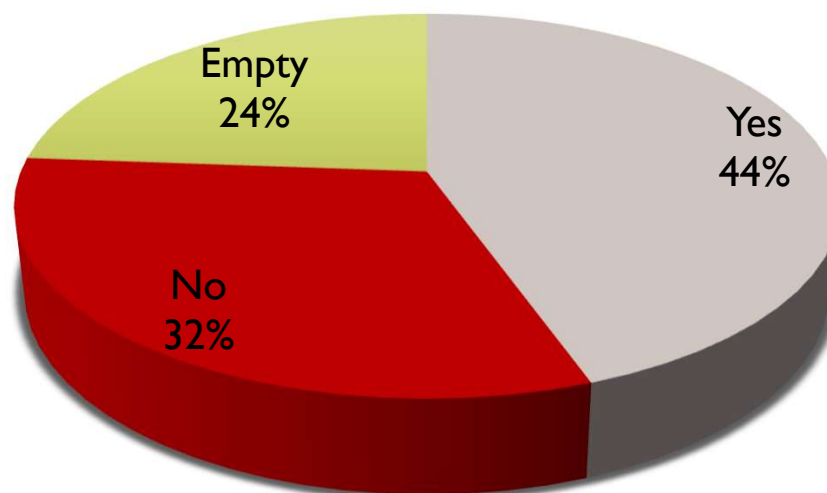


Formal Checks – Software in POS/ NAWI

Software POS



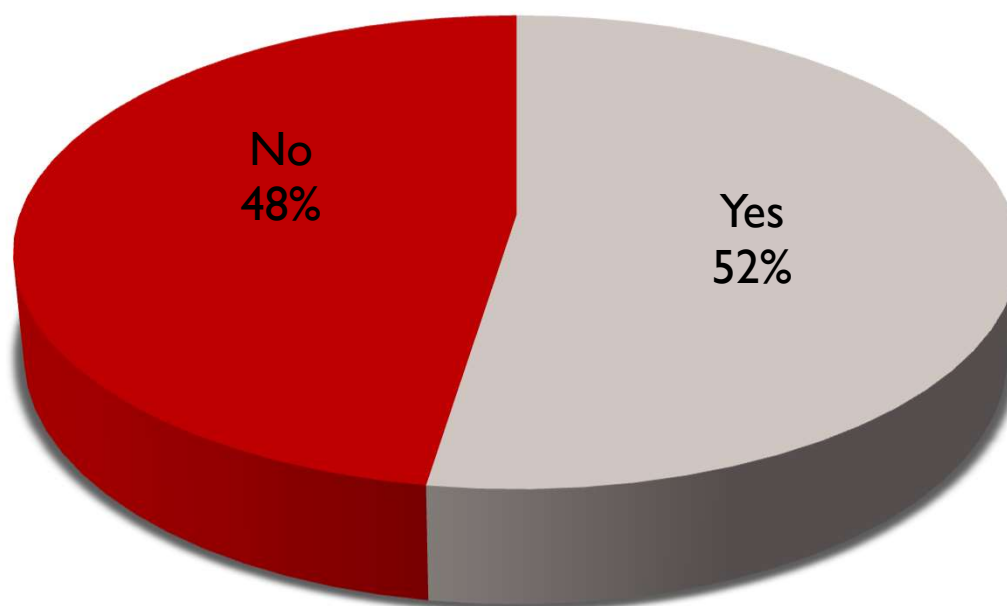
Software NAWI





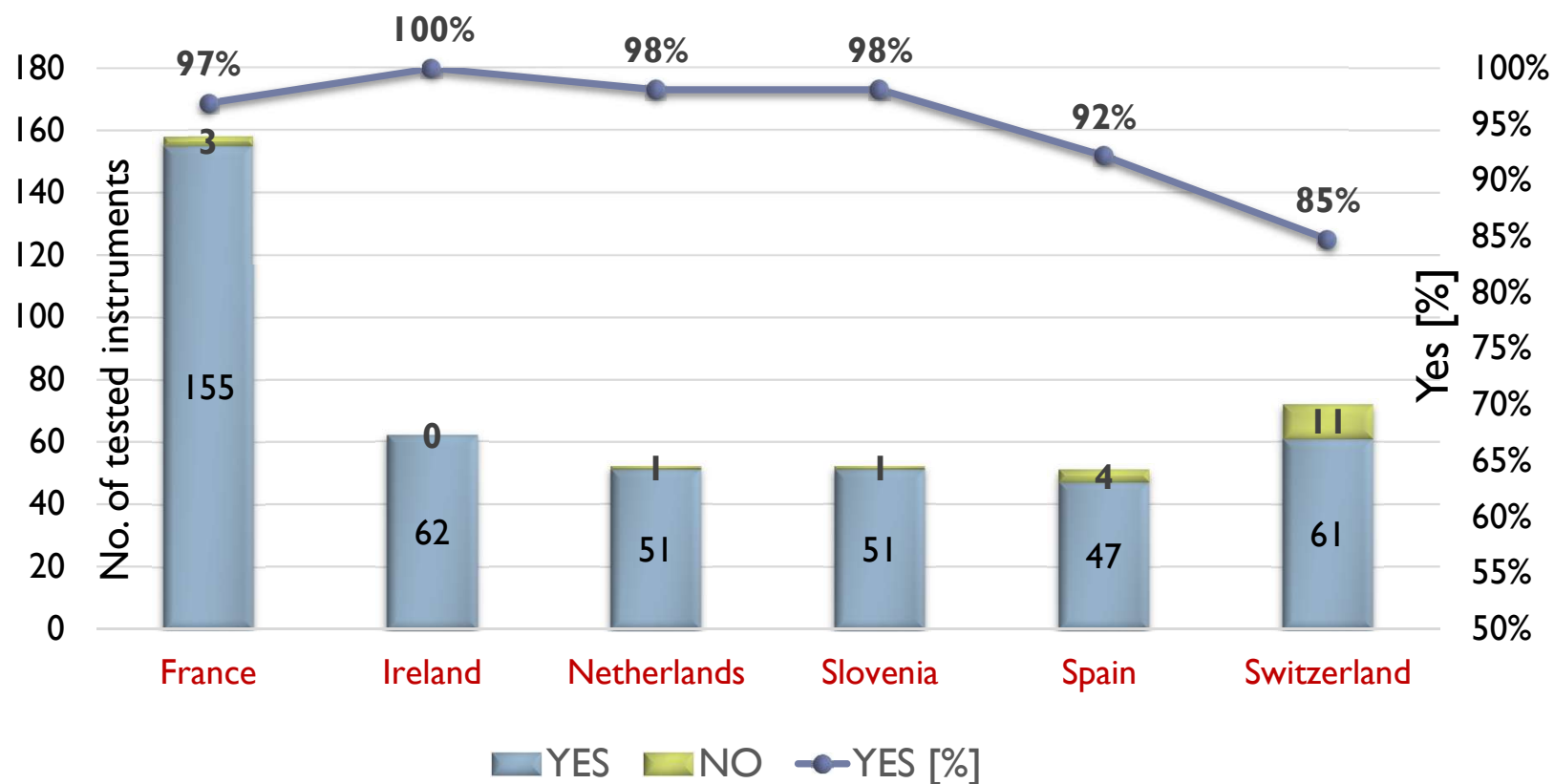
Formal Checks – Declaration of conformities POS + NAWI

Declaration of conformity POS + NAWI



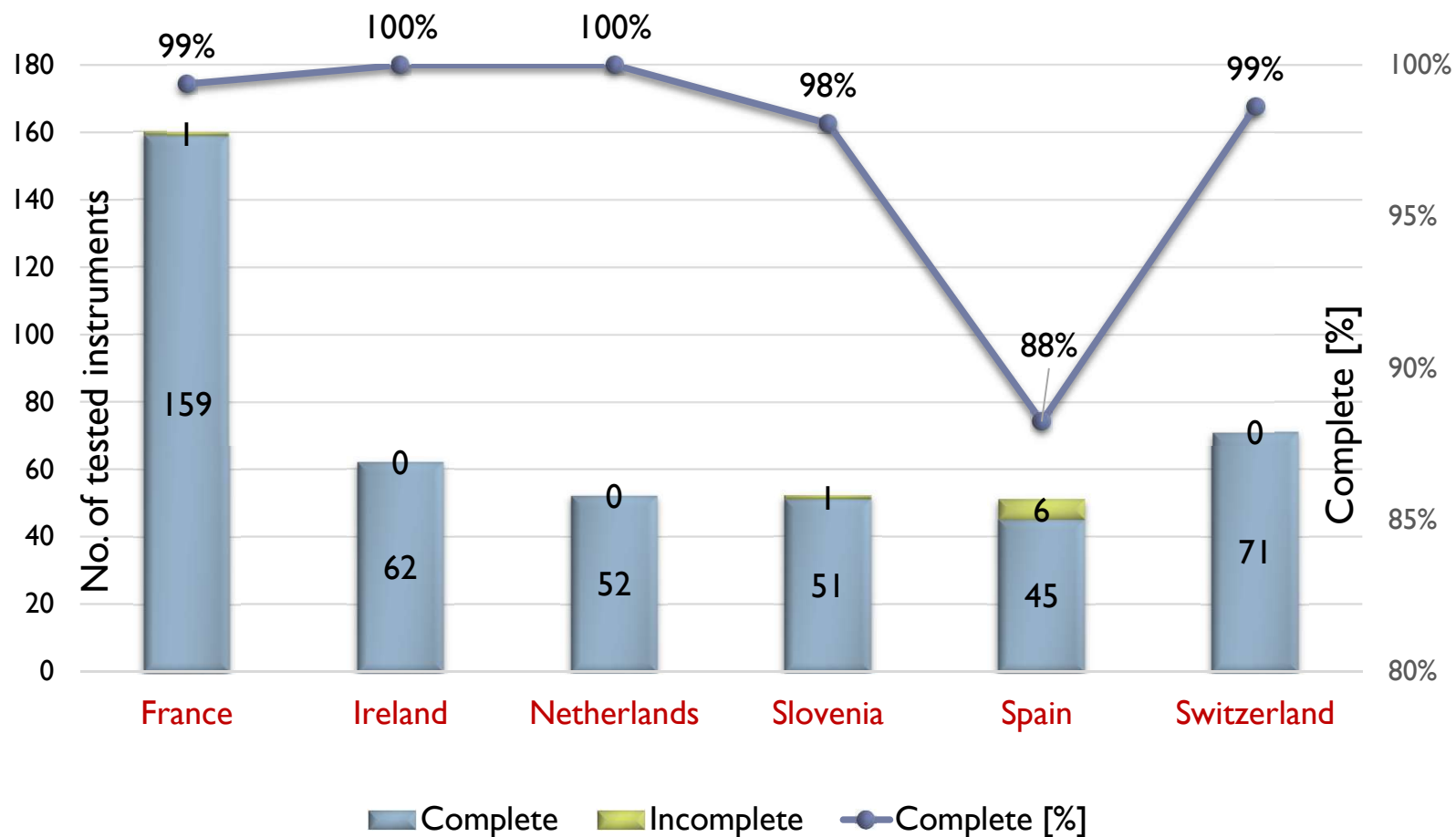


Formal Checks by countries - Visual inspection



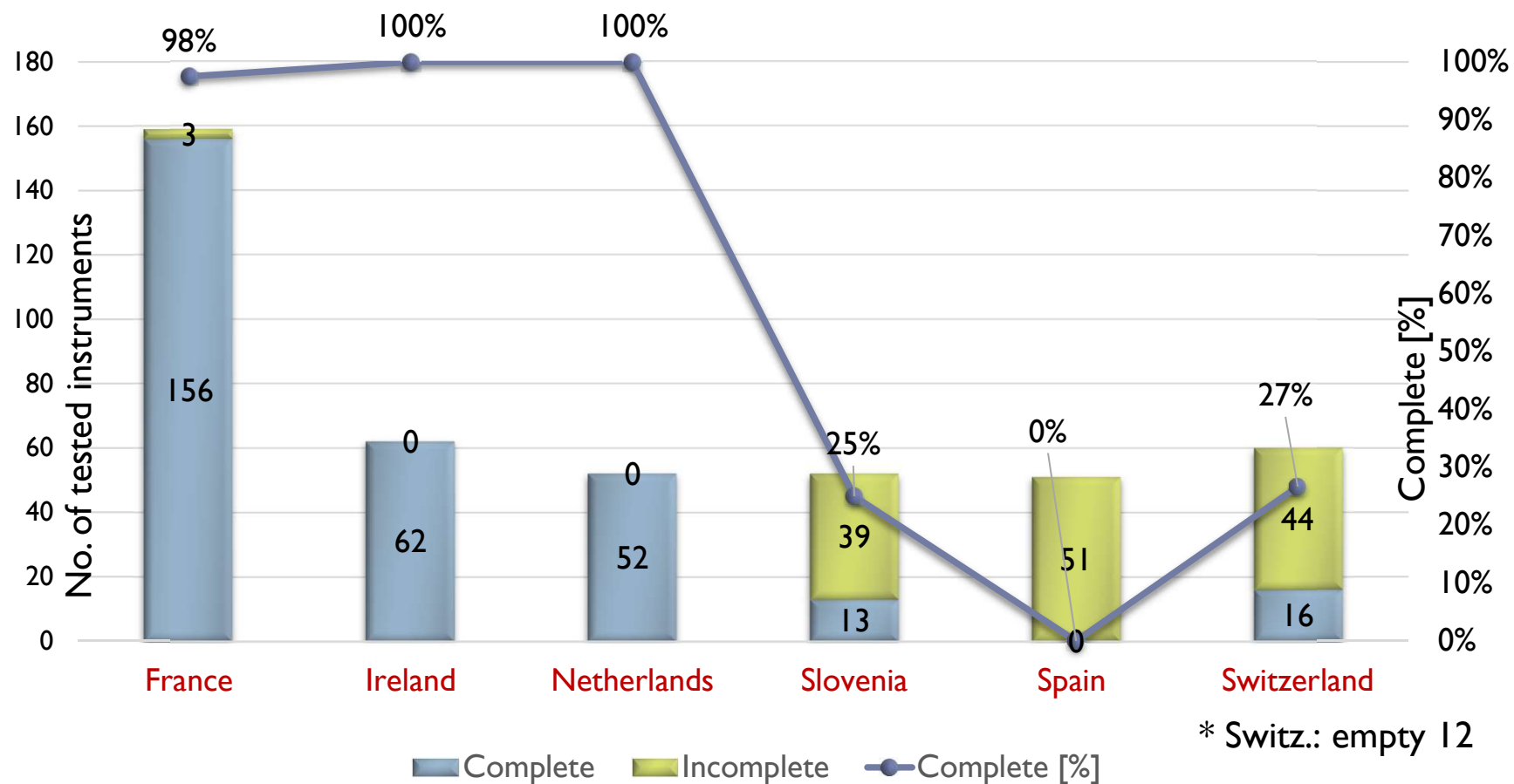


Formal Checks by countries – Labels NAWI



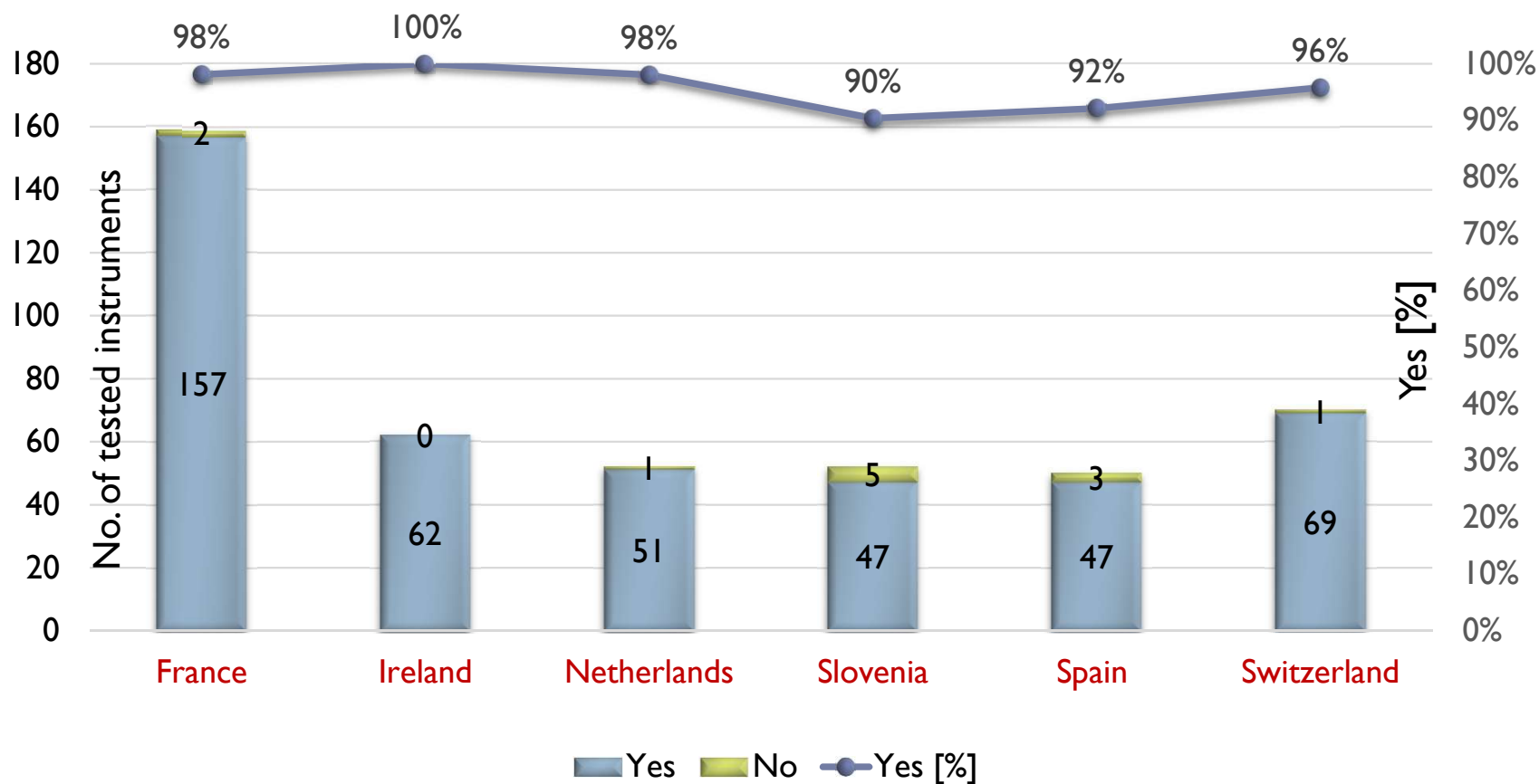


Formal Checks by countries – POS Labels



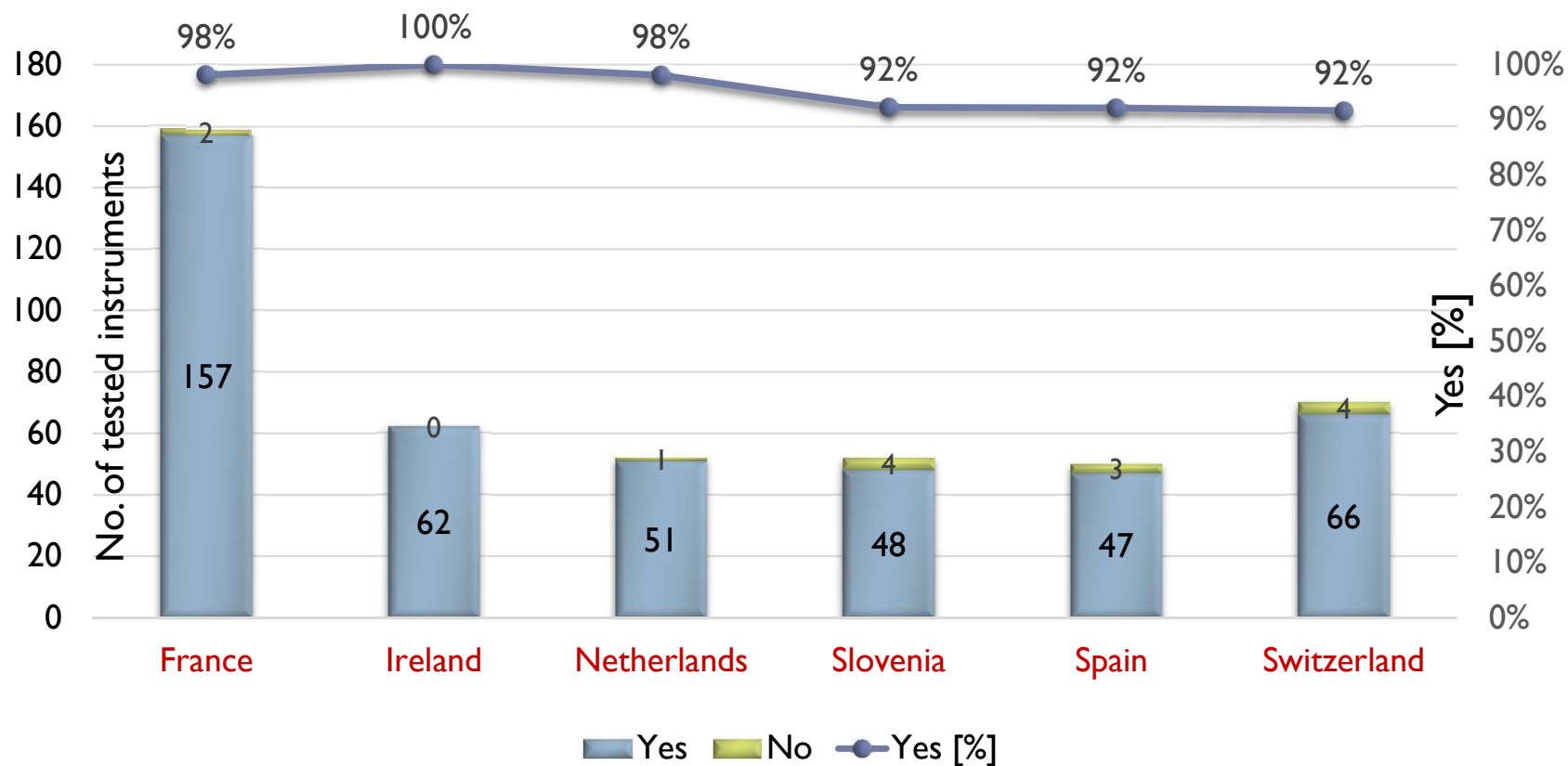


Formal Checks by countries – Visible weight to user and customer

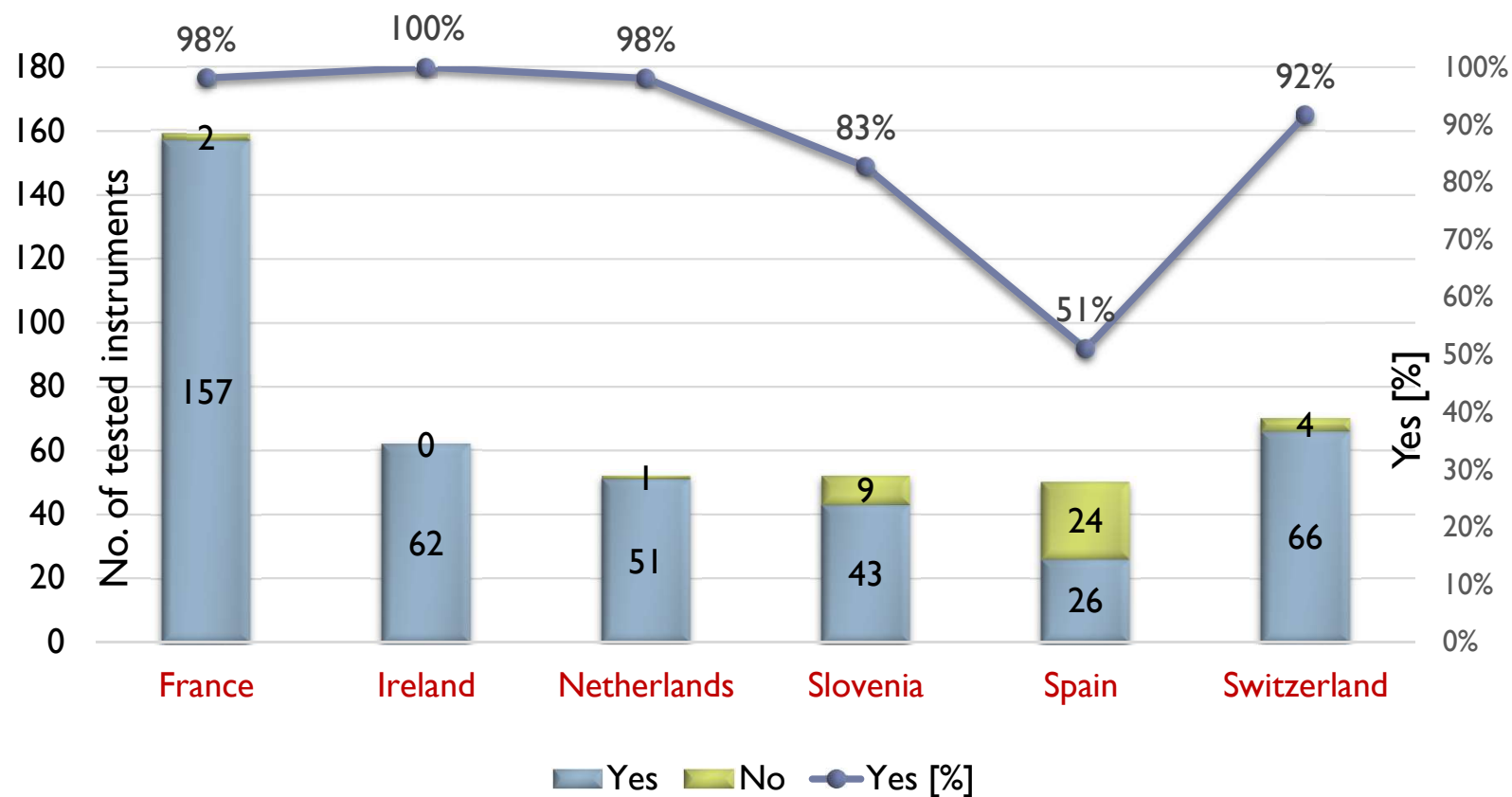




Formal Checks by countries – Visible price to user and customer

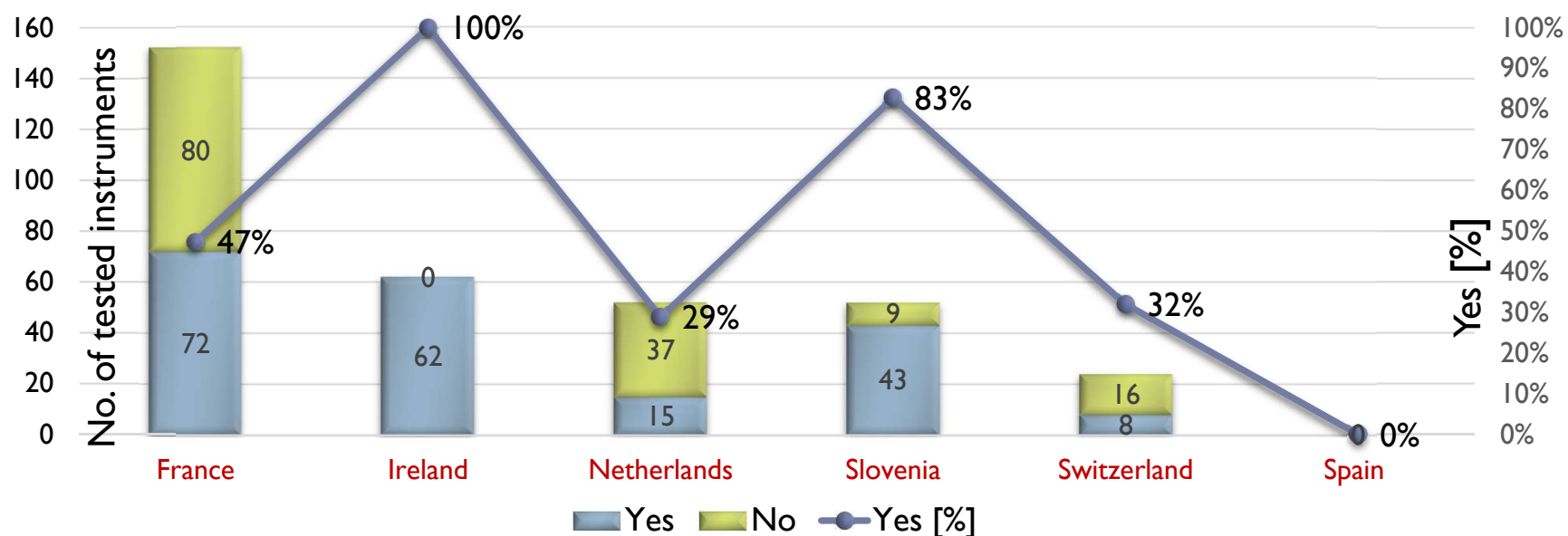


Formal Checks by countries – Visible currency to user and customer



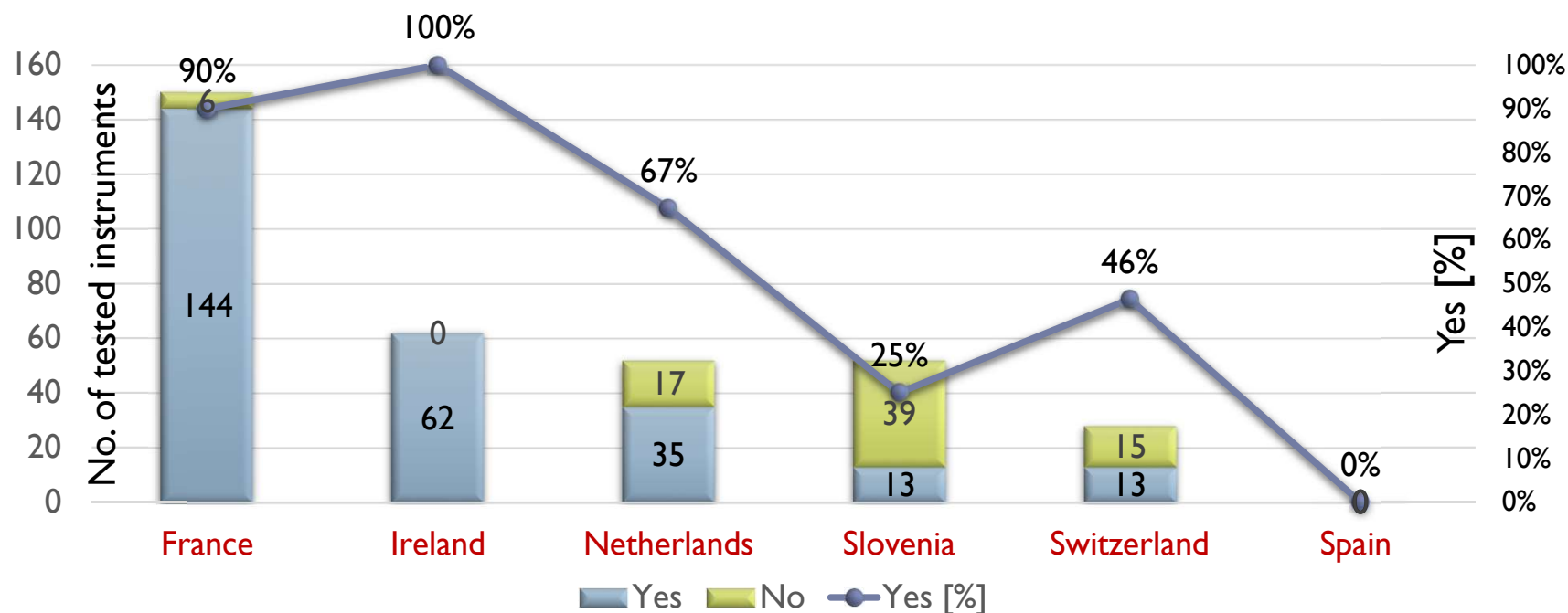


Formal Checks by countries - Software in NAWI (TAC)



Country	Number of tested	Passed	Not passed	Empty	Passed [%]
France	152	72	80	8	47%
Ireland	62	62	0		100%
Netherlands	52	15	37		29%
Slovenia	52	43	9		83%
Switzerland	25	8	16	48	32%
Spain	0	0	0	51	0%

Formal Checks by countries – Software in (TC) POS



Country	Number of tested	Yes	No	Empty	Yes [%]
France	160	144	6	10	90%
Ireland	62	62	0		100%
Netherlands	52	35	17		67%
Slovenia	52	13	39		35%
Switzerland	28	13	15	44	46%
Spain	51	0	0	51	0%



Where we discover the biggest non conformities ?

Formal checks:

- 48 % of measuring instruments were without (accessible) declaration of conformity for all system
- In 40 % it was not possible to check the software in the (TC or PC) POS device
- In 50 % it was not possible to check the software in the (TAC) NAWI

Metrological test:

- 12 % of measuring instruments did not pass metrological test





Following actions

- Following action will depend on national regulation and discovered non conformities.. .?





Summary

What were our goals?

1. Get information if the NAWI + POS device are in accordance with the regulations
2. To take all possible measures to eliminate non-compliance devices
3. To obtain more knowledge and experience in the field
4. To encourage other Member States to join the project or independently verify the conformity of these devices

What we achieved?

1. Obtained information (findings) are not encouraging
2. Measures will follow
3. Through surveillance/inspection we have got a knowledge and experiences
4. Based on the findings, it is expected that such supervision will follow in other member countries as well

