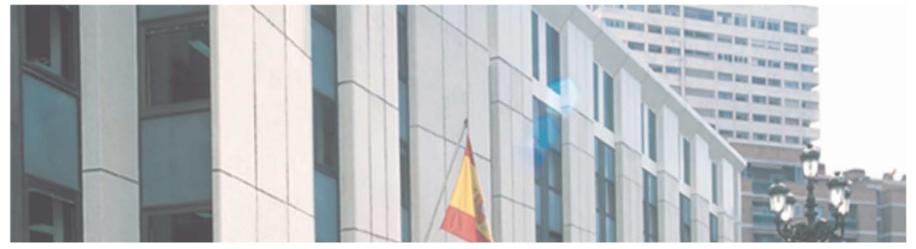


RADON NATIONAL ACTION PLAN WORKSHOP Paris, 30 September – 2 October 2014



The regulation of occupational radon exposure in Spain

Marta García-Talavera





- 2. Regulatory framework
- 3. Compliance
- 4. Revision and new strategy
- 5. Conclusions

Spain Facts







□ Diverse geology: western Hercynian and eastern Alpine areas

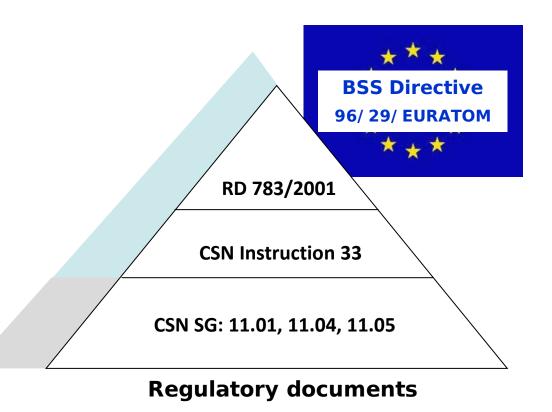


Decentralised administrative structure



□ CSN regulatory and technical body responsible for nuclear safety and radiological protection

Legislative Framework



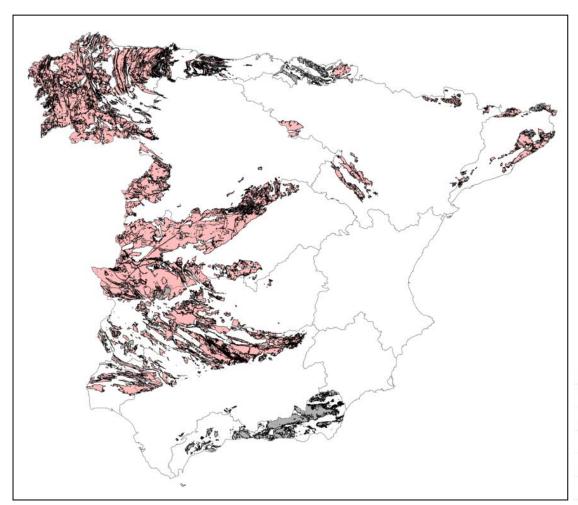


RADON PROTECTION AT WORK

CSN IS-33 (2012)

- □ Reference level: 600 Bq/m³, or 300 Bq/m³ at residential workplaces and schools
- ☐ Graded approach to regulation: 1000 Bq/m³
- Mandatory registration and risk evaluation at workplaces:
 - below ground
 - containing a groundwater source
 - at radon-prone areas (not yet effective)

RADON-PRONE AREAS



García-Talavera et al. (2013), J Radiol Prot 33(3):605–20







CRITERIA FOR LABORATORIES & SERVICES

CSN SG-11.01 (2009)

CSN SG-11.05 (2014)

Accreditation to ISO/IEC 17025



Authorisation to carry out radon studies



UPC Radon Chamber

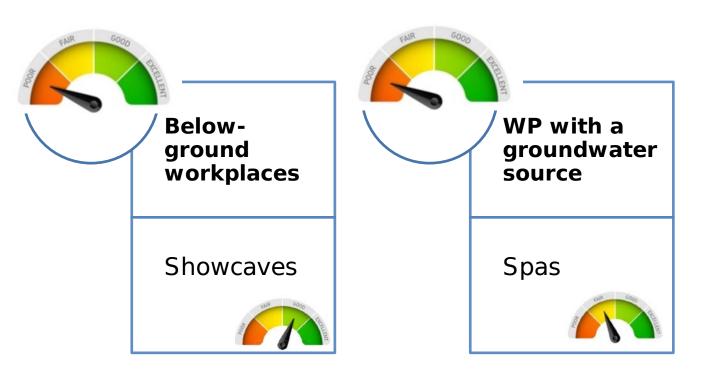
CSN SG-11.04 (2012)

Methodological guidance for studies conducted under Title VII (RD 783/2001)

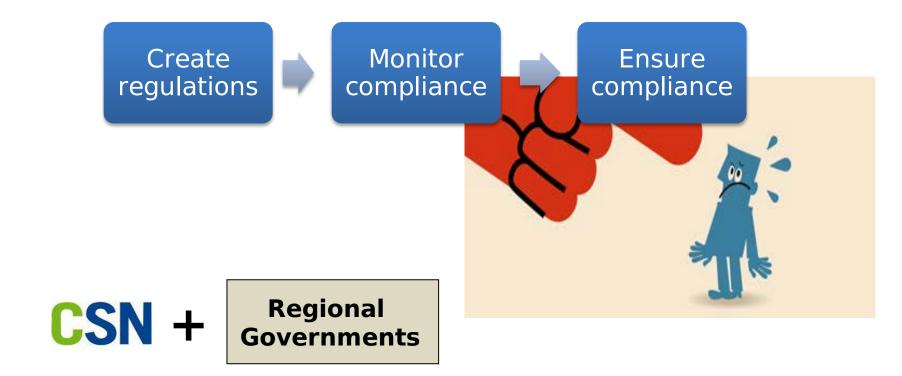
Compliance







■ Best compliance achieved when business associations got involved in dissemination (information days, articles in their members' magazines)



- Personalised letters to employers (awareness of moral and legal responsibilities and practical information)
- Providing free personalised advice
- Well-publicised inspection campaign

Legal obligation for testing only on some employers. Promotion of

SELF-REGULATION

Voluntary 'low-radon' programme for schools & nurseries

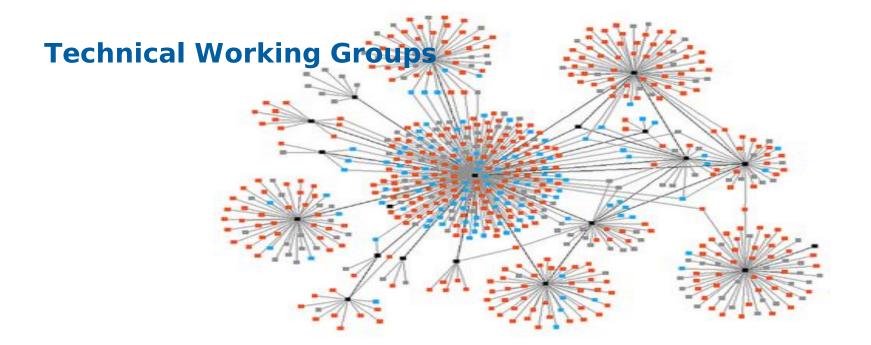


■ In general: Develop other systems in support of the outside control by Government

Revision and new strategy

Directive 2013/59: Establishment of a Committee bringing together the regulators and the key stakeholders at the national, regional and local levels

Main past failures: Little stakeholder involvement in the regulation-making process; Lack of political will

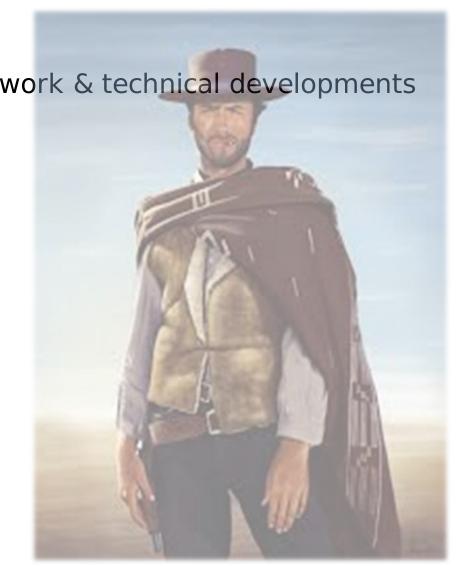


Conclusions

The Good—Regulatory framework & technical developments in support of it

The Bad—Workers at risk

The Ugly—Poor compliance



The solution

Broaden the scope. Stakeholder involvement

■ New instruments and policies to boost compliance (economic incentives; mechanisms for workers' participation; employer's awareness; promotion of voluntary measures)



Thank you very much



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Key points for discussion

- □ Different concept of referent level in ICRP Publication 103 and in Directive 2013/59/EURATOM. Role of optimisation
- Strategies and instruments to ensure compliance
- Inspectorates' actions and effectiveness
- ☐ Civil liability in relation to breaches of legislation on radon at the workplace