



The experience of the Consorcio de Compensación de Seguros for climate risk management and adaptation in Spain



Enhancing disaster risk management and climate change adaptation in Cyprus



Francisco Espejo Gil (fespejo@consorseguros.es)

Assistant Director for Research and International Relations

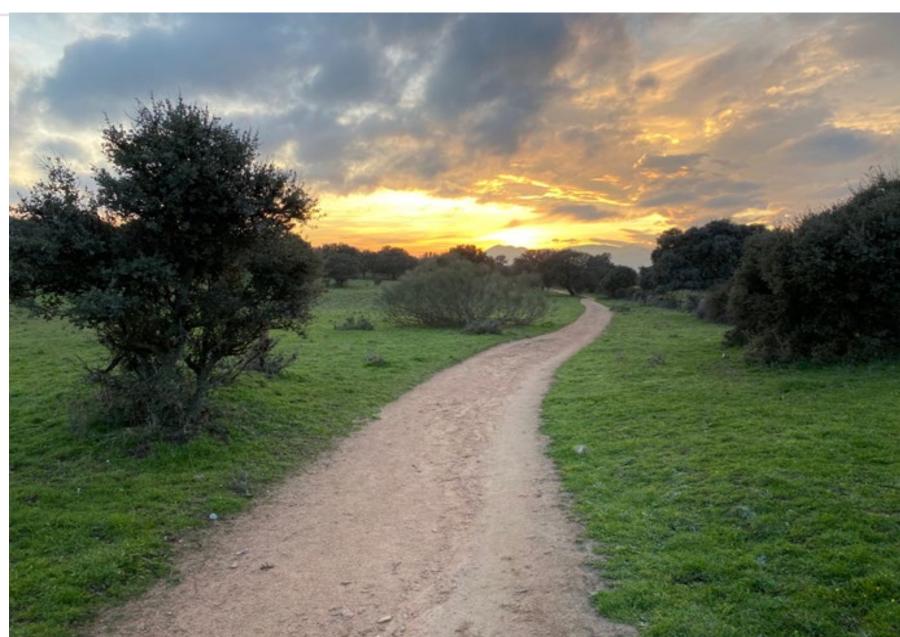
Consorcio de Compensación de Seguros





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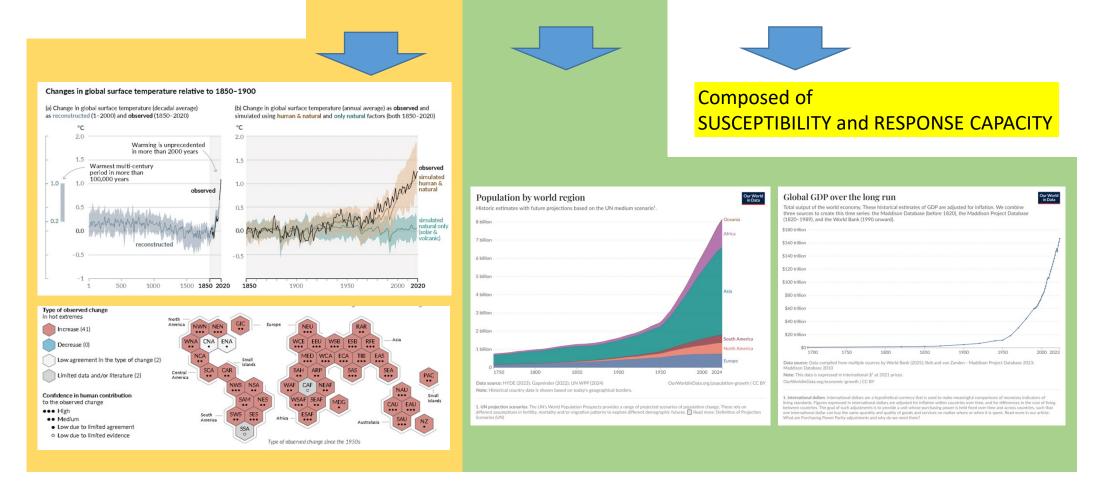


#### 1. Risk context



# On risk, insurance and insurability

RISK = HAZARD x EXPOSURE x VULNERABILITY







# On risk, insurance and insurability

To be transferred to insurance



Composed of SUSCEPTIBILITY and RESPONSE CAPACITY

With both hazard and exposure on the rise, probably the best option to keep the risk to be insured within acceptable levels, is to reduce vulnerability, by means of:

- Rising response capacity (for instance, by maximising insurance take-up rates and providing more capable and responding insurance schemes)
- Reducing susceptibility



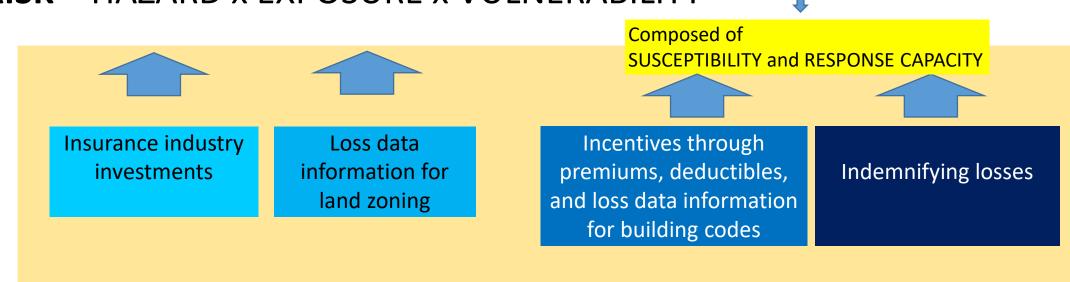


# On risk, insurance and insurability

# To be transferred to insurance



# **RISK** = HAZARD x EXPOSURE x VULNERABILITY



What can insurance do about it?





# What are the challenges for catastrophe risk insurance?

Catastrophe risk violates some principles for insuring risks: non-correlation, randomness, ease to estimate... therefore catastrophe risk has to be insured with specific mechanisms: coinsurance, reinsurance, PPP, ILS...

Most jurisdictions arrange solutions based on their socio-economic and also their cultural contexts.

The main problem is to conciliate these three issues:

# Availability – Affordability – Risk reduction indication

And solutions have generally to choose between two of them, as meeting all three at the same time is complicated and almost contradictory.

Not meeting these three points usually conducts to a wider Insurance Protection Gap.

Ideally, a balance should be found among: take-up rate, and control of both adverse selection and moral hazard.

This gap is a matter of particular concern with **the growing exposure and climate change exacerbated hazards** and therefore, with the **rising losses**.



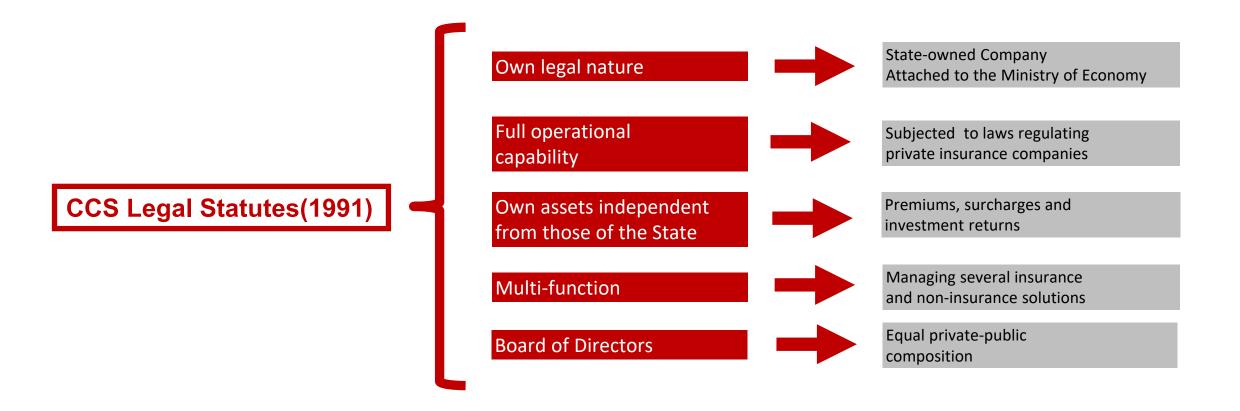








# Consorcio de Compensación de Seguros (CCS): a tool at the service of the insurance market in which it is integrated







## A single institution with many different functions at the service of the Spanish Insurance Industry

# PERMANENT INSURANCE FUNCTIONS

- > Extraordinary Risk Insurance
  - Property loss
  - Personal injury
  - Business interruption
- > Third-Party Motor Car Liability Insurance
  - Direct insurance
  - Warranty fund
- ➤ Multi-peril Agricultural Insurance
  - Coinsurance
  - Reinsurance
  - Loss adjust assessment
- Nuclear risks (reinsurance)
- > Wildfire Fighting Accident Insurance



#### NON-INSURANCE FUNCTIONS

- **➤** Winding-up activity of insurance undertakings
- > Informative functions in Motor Car Insurance
  - Insured Vehicle Informative File (FIVA)
  - Information Centre (cross-border accidents)
- > Other informative functions (Management of the Compulsory Insurance Register)
- > Export Credit Insurance (Management of the Reserve Fund)
- > Environmental liability (Pool\* and Compensation Fund management)
- Prevention, dissemination, communication

# OTHER (TEMPORARY) INSURANCE FUNCTIONS

- ➤ When required by public interest or market circumstances (approved by 2/3 majority of the Board of Administration)
- **Reinsurance operations.** Examples:
  - Reinsurance of risks of war and terrorism to air navigation after 9-11-2001 (2001-2002)
  - Reinsurance of business interruption arising from terrorist attacks (until permanently included into the extraordinary risks insurance system -2004)
  - Credit Risk Insurance (2009-2010; 2020-2021)





#### **HOW DOES INSURANCE COVER NATURAL HAZARDS IN SPAIN?**

#### **HAZARDS**

#### **INSURANCE COVER**

#### **AFFECTING PROPERTIES AND PERSONS**

WILDFIRE

RAIN. SNOW. HAIL

AVALANCHES AND LANDSLIDES

WINDSTORM (<120 Km/h)

FLOOD (RIVERINE. PLUVIAL AND COASTAL)

**WAVE BATTERING** 

WINDSTORM (>120 Km/h) AND TORNADO

EARTHQUAKE AND TSUNAMI

VOLCANIC ERUPTION

METEORITE FALLING

#### AFFECTING THE AGRICULTURAL SECTOR

FLOOD

DROUGHT

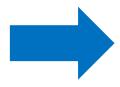
WINDSTORM

FROST AND HEATWAVE

HAIL

WILDFIRE

. . .



#### **ORDINARY INSURANCE**

These hazards are covered by private undertakings, on a free tariff basis.



#### **EXTRAORDINARY RISK INSURANCE**

Compulsory extension of most policies contracted with private undertakings to cover the *Extraordinary Risks*. Consorcio de Compensación de Seguros provides this cover on a subsidiary basis.



#### **MULTIPERIL AGRICULTURAL INSURANCE**

Cover provided by an insurance pool (AGROSEGURO) of private undertakings and CCS. with CCS also as reinsurer.

Insureds (farmers and stock breeders) enjoy public grants (from national and regional administrations) to pay their premiums.





# **RISKS** "EXTRAORDINARY" 뿚

Natural

made

Human

Flood

(riverine or flash-flood)

Coastal flood

(+ wave battering)

Windstorms

(>120 Km/h and tornado)

Earthquake and tsunami

Volcanic eruption

Meteorite falling

Terrorism

Riots, civil commotion

Actions of Armed Forces and Law Enforcement Agencies in peacetime





















#### THE EXTENSION OF THE COVER IS COMPULSORY

In Spain almost all property policies\*, business interruption and personal injury policies have a <u>dual nature</u>.

\*Exceptions: ships and airplanes, construction and erection, transport and liability policies.

#### **Private sector (private insurers)**

Choose the risks to insure.

Underwrite the policies.

Apply premium prices freely.

Cover non extraordinary hazards

(including some natural hazards).

Collect the surcharge for extraordinary risks and transfer it to CCS together with information

about the policies.

Is in charge of handling some extraordinary events (windstorms).

#### Public sector(CCS)

Extends the cover of underwritten policies to the extraordinary risks.

Surcharge is universal and depends only on the kind of risk and sum insured.

Covers properties and individuals affected by any listed extraordinary hazard (handles the claim, assess the loss and indemnifies the policyholder directly).

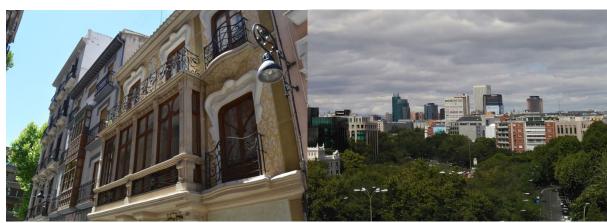
Generates information about catastrophic losses that is shared with bodies competent in risk reduction and the academic sector.





# **SURCHARGE TARIFF**

## **APPLIED ON THE INSURED CAPITAL**



**OFFICES 0.12 %** 

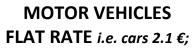
RESIDENTIAL 0.07 ‰
i.e., a house insured for 300,000 € would
pay a premium surcharge of 21€



CIVIL WORKS from 0.28 ‰ to 1.63 ‰



SHOPS, INDUSTRIES AND OTHER SINGLE RISKS
0.18 ‰

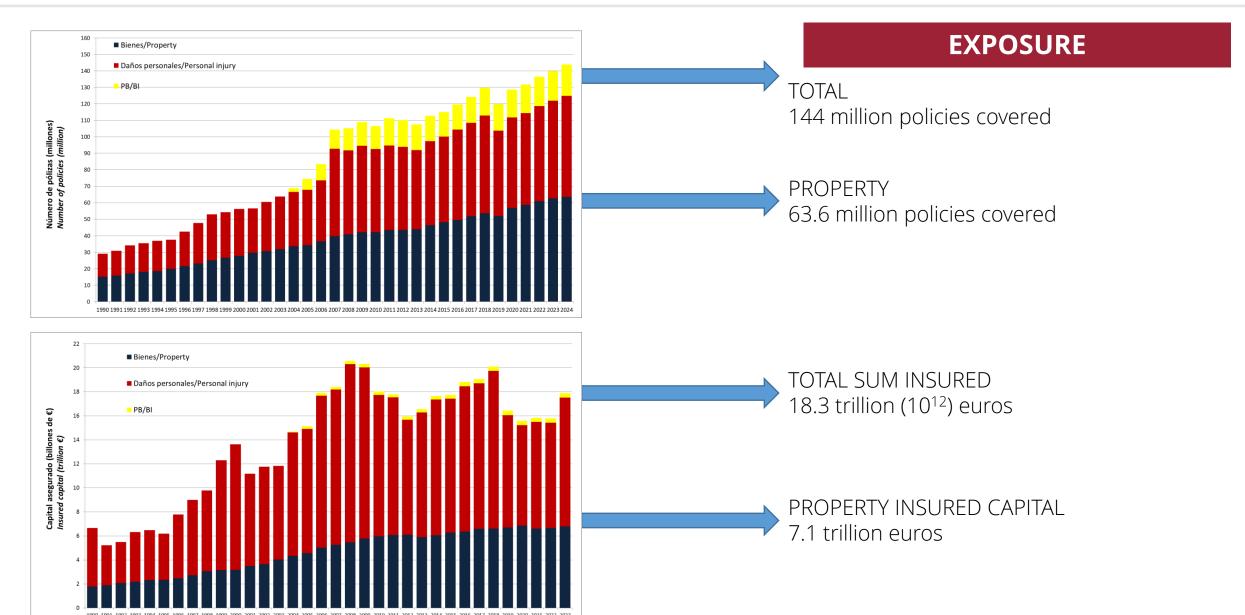




BUSINESS INTERRUPTION: (dwellings. 0.0035 %; other risks. 0.18 %)
PERSONAL INJURY: 0.003 %



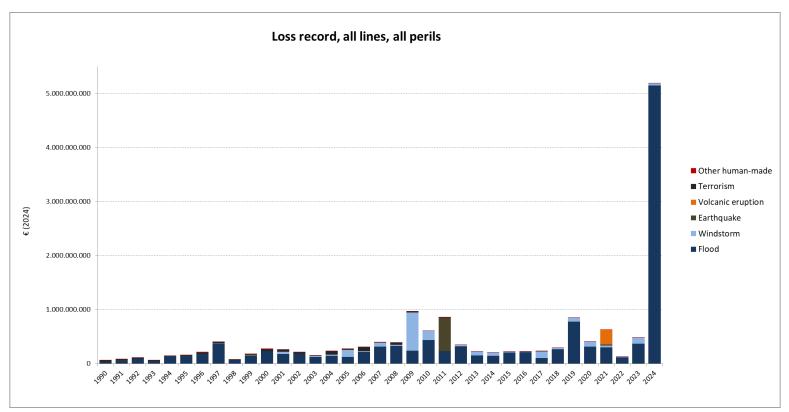




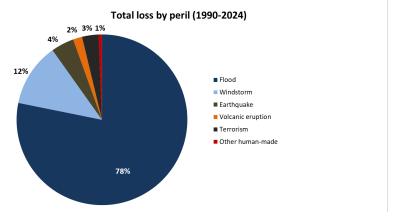




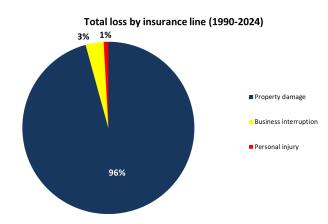
## **LOSS COMPOSITION**



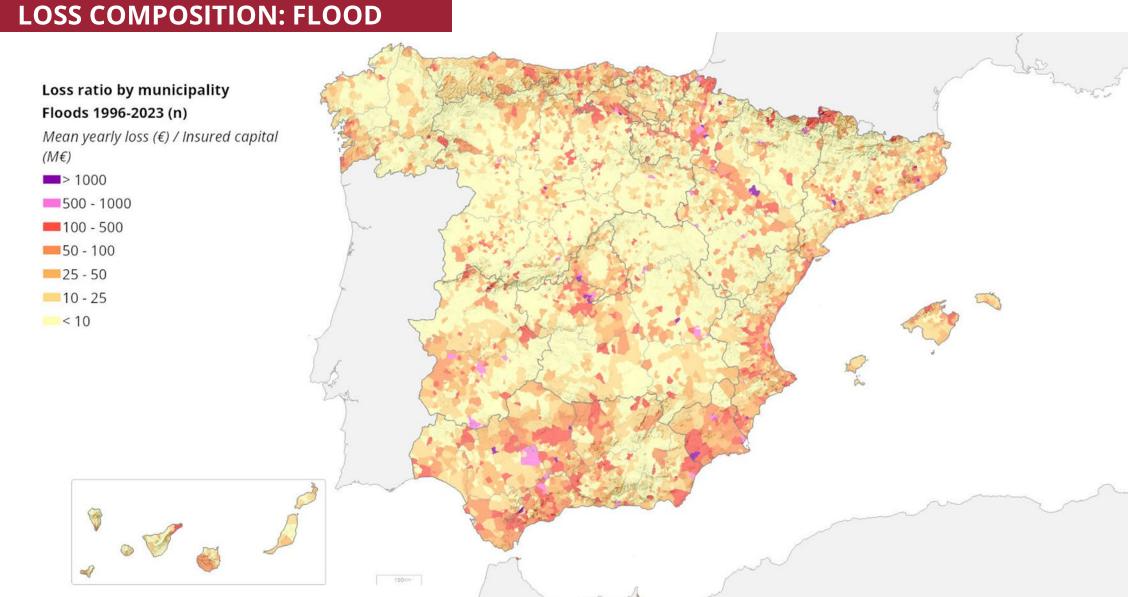
Year to year loss composition by cause (1990-2024)



> 3/4 caused by flood90 % hydrometeorological hazards6 % geological hazards96 % natural hazards

















Between 26 October and 4 November 2024 a cut-off low (DANA in Spanish) caused heavy precipitation and numerous floods in many parts of Eastern and Southern Spain. The worst floods happened to the West and South of the Valencia metropolitan area (which is the third city in Spain) on the afternoon and evening of 29 October. In total, 236 people died.

#### This situation:

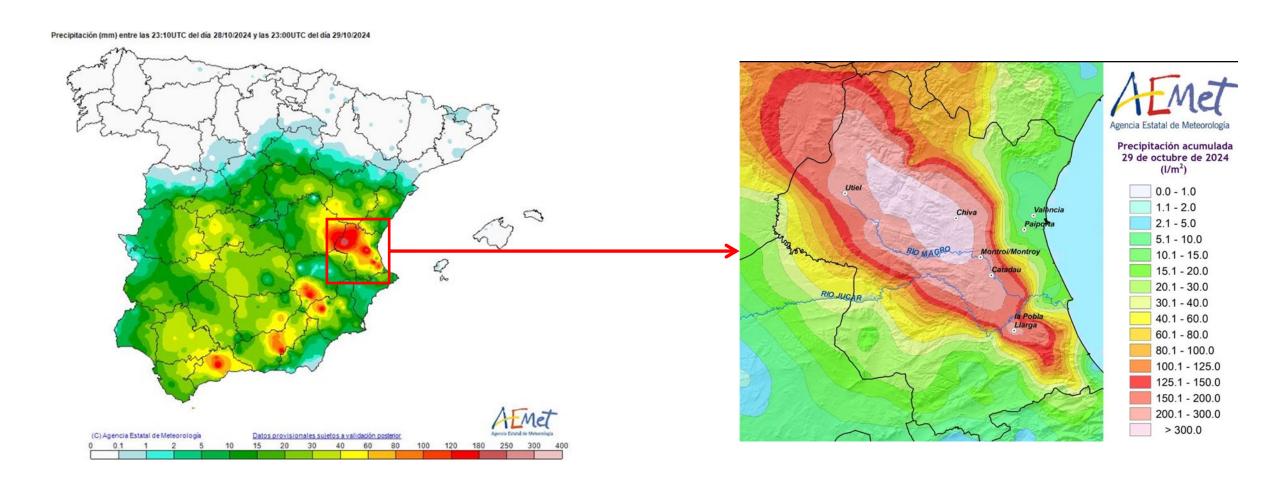
- Was the result of the combination of a large exposure in a well-known flood-prone area together with the rising intensity in extreme rainfall very likely caused by global warming.
- Caused the largest loss event in the 70 years of history of CCS and extraordinary risk insurance, with more than 250,000 claims and an estimate loss likely to be around €4.8 billion.
- Immediately implied changes in the system for better and quicker response:
  - Enlargement of the expert pool working with CCS, of the web and customer line capacities and of CCS's staff and functions.
  - Agreement with the private sector for their cooperation in filing claims and assessing loss. 38 companies adhered to this agreement.
     Claims handled are sent to CCS for final check and payment to the policyholder.
  - These measures have been key for the speed gained in the process: after 11 months 97.6% of the claims are completed.

#### **Key takeaways:**

- The extraordinary risk insurance has been tested and, in spite all difficulties, is providing and exemplary answer.
- About 90% of the residential properties (and likely, higher shares of commercial and industrial properties) and 100% of the 144,000 vehicles affected, were insured and are to be indemnified. Should the country not count with this insurance scheme, the number of insured properties would have been much lower and this event would have been a heavier burden on public budgets.
- Agreement with the private sector was fundamental and the fabric of collaborative work and mutual confidence along the decades has allowed for finding new ad-hoc ways for collaboration in a matter of days.



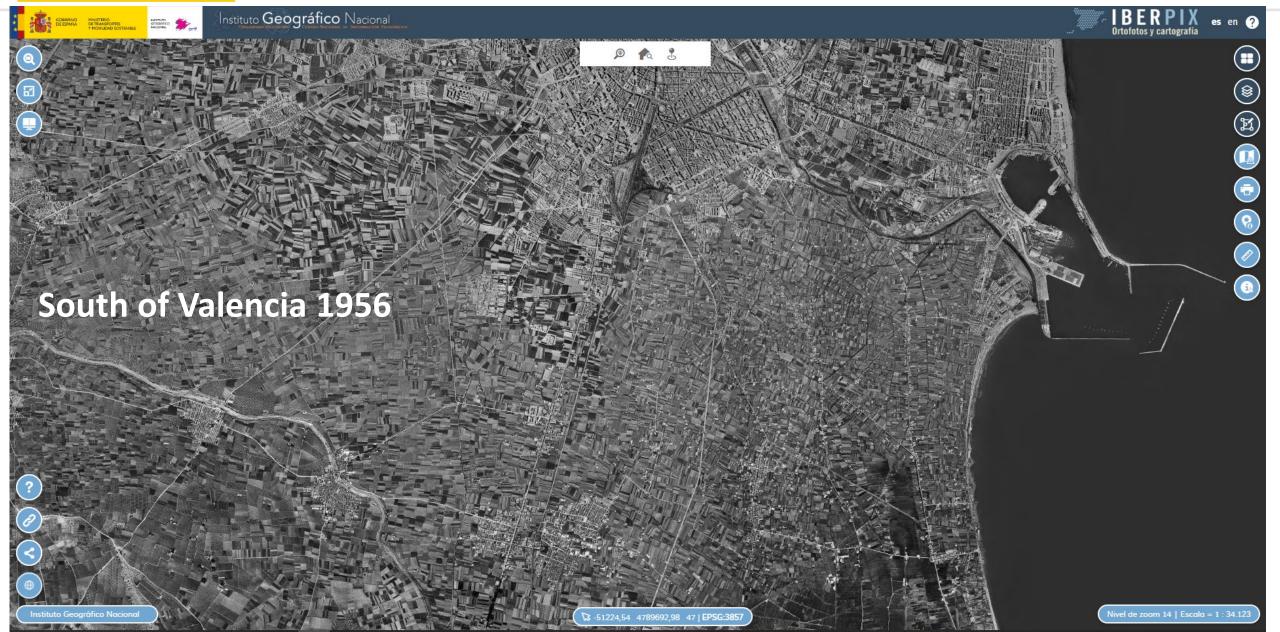




Accumulated rainfall of the 29<sup>th</sup> October 2024









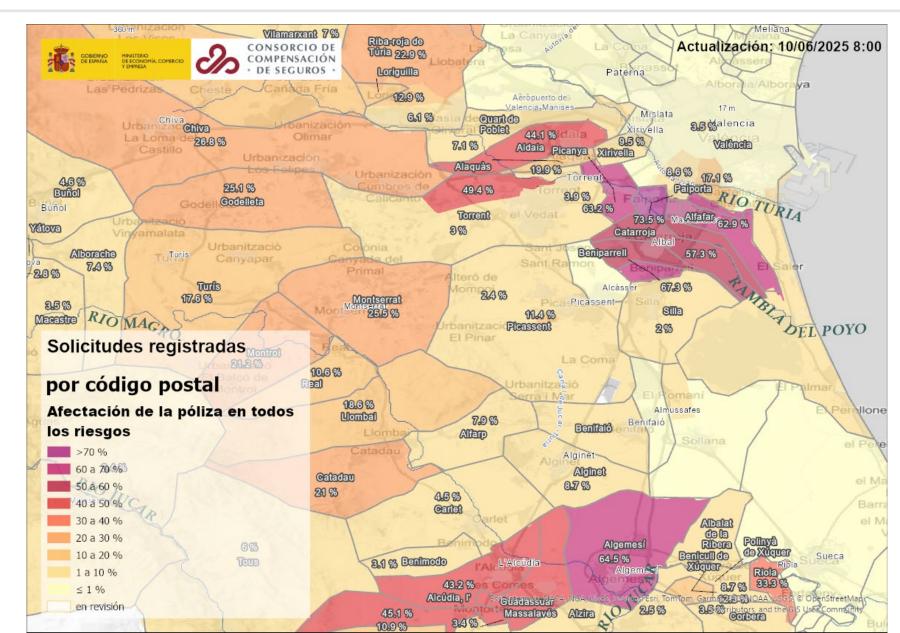








Percentage of existing policies that filed a claim (by postcode) as of June 10<sup>th</sup> 2025







## IN CONCLUSION

- The compulsory nature of the cover extension (to common policies: multi-risk home insurance, MTPL, etc.):
  - maximises mutualisation,
  - guarantees affordability,
  - eliminates adverse selection.
- Private market involvement is essential because:
  - private undertakings sell the policies (and cover extension is a selling point),
  - private undertakings can choose insurable risks (as the private part also bears certain hazards).
  - a culture of cooperation with the public sector is in place.
- Inclusion of several hazards into the binding covers:
  - justifies application of a rate independent of the risk level,
  - simplifies operation.
- **Data collection** by a single organisation:
  - Eases putting available information at the disposal of risk managers in view of disaster risk reduction, climate change adaptation, etc.





# Thanks for your attention!

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