



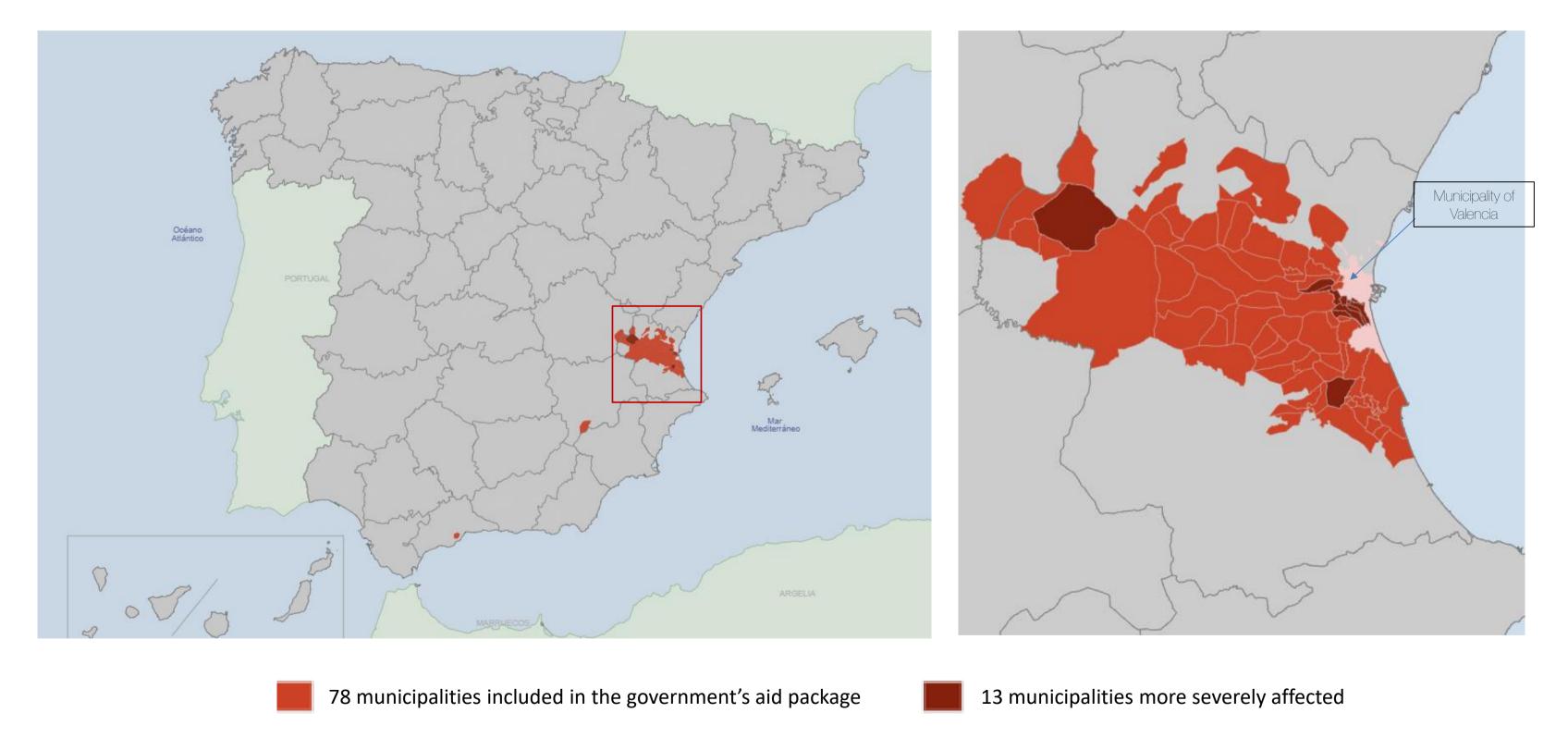
7<sup>TH</sup> BANCO DE ESPAÑA ANNUAL RESEARCH CONFERENCE

# MACROECONOMIC AND FINANCIAL ASPECTS OF CLIMATE CHANGE

JOSÉ LUIS ESCRIVÁ
BANCO DE ESPAÑA GOVERNOR
14.11.2024

# Areas affected by the DANA

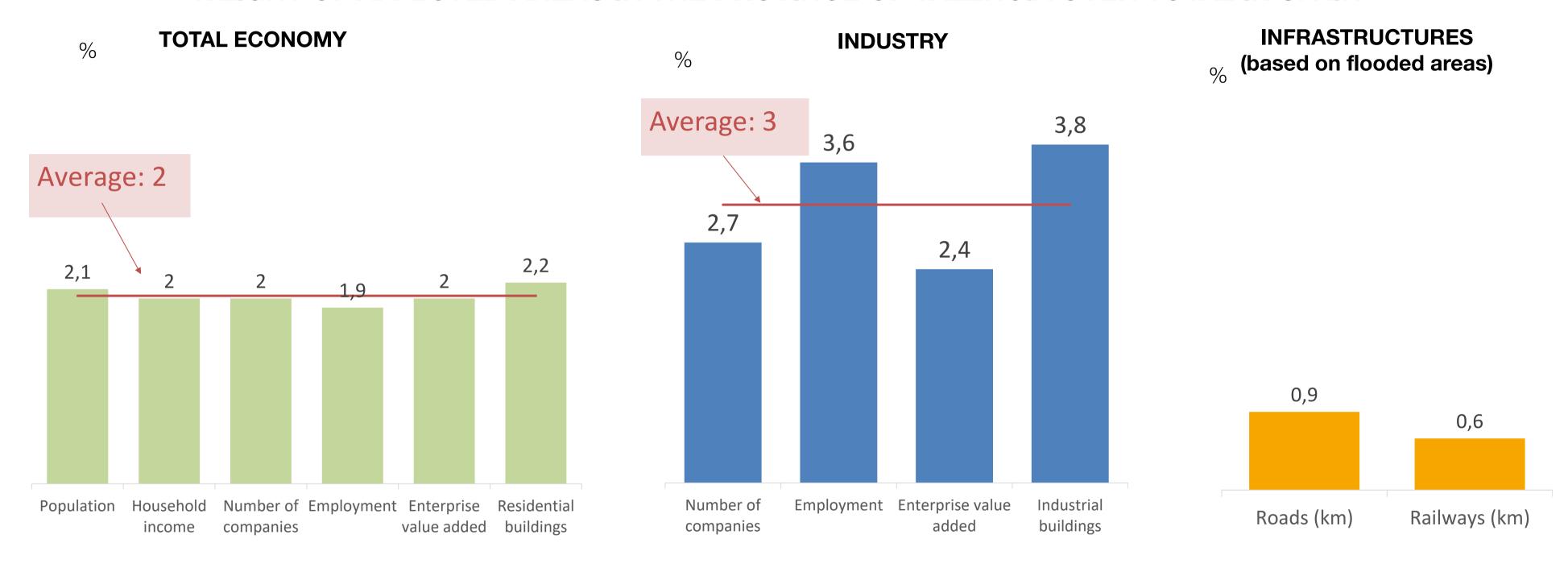
#### MUNICIPALITIES AFFECTED BY THE DANA, ACCORDING TO RDL 6/2024\*



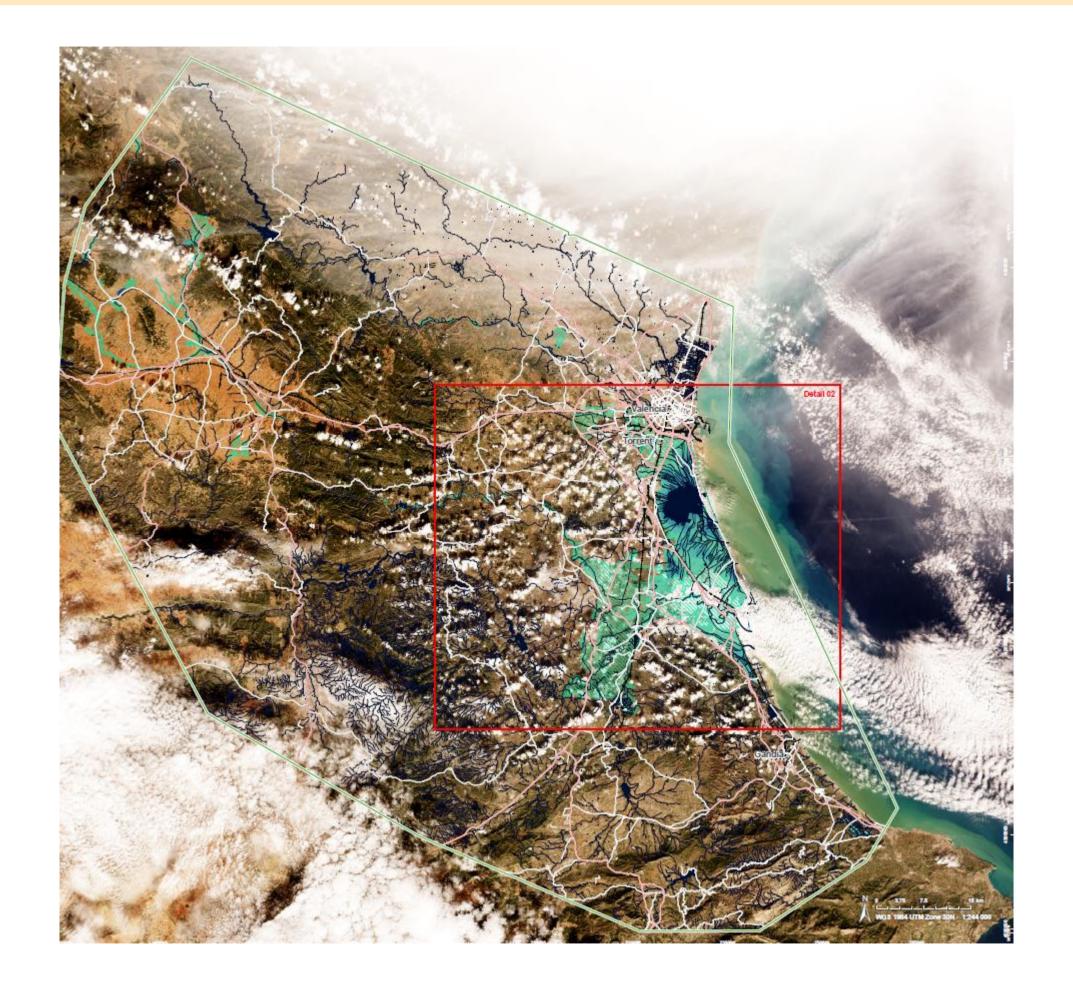
<sup>\*</sup> In the municipality of Valencia (in pink), affected areas are "pedanías del sur", with around 21.000 inhabitants.

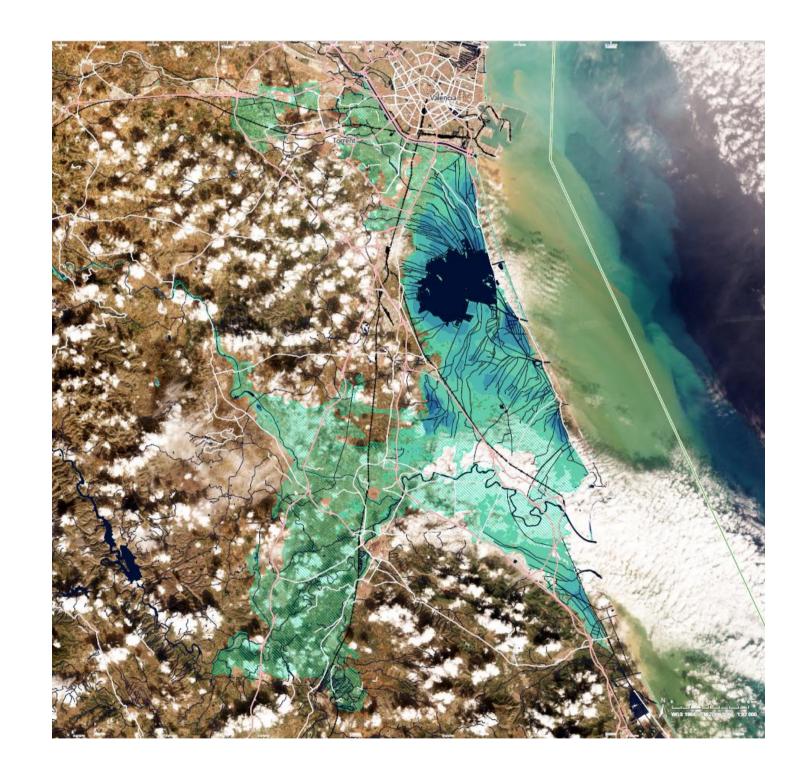
## Economic relevance of the areas affected by the DANA

#### WEIGHT OF AFFECTED AREAS IN THE PROVINCE OF VALENCIA OVER TOTAL IN SPAIN



# Areas affected by the DANA

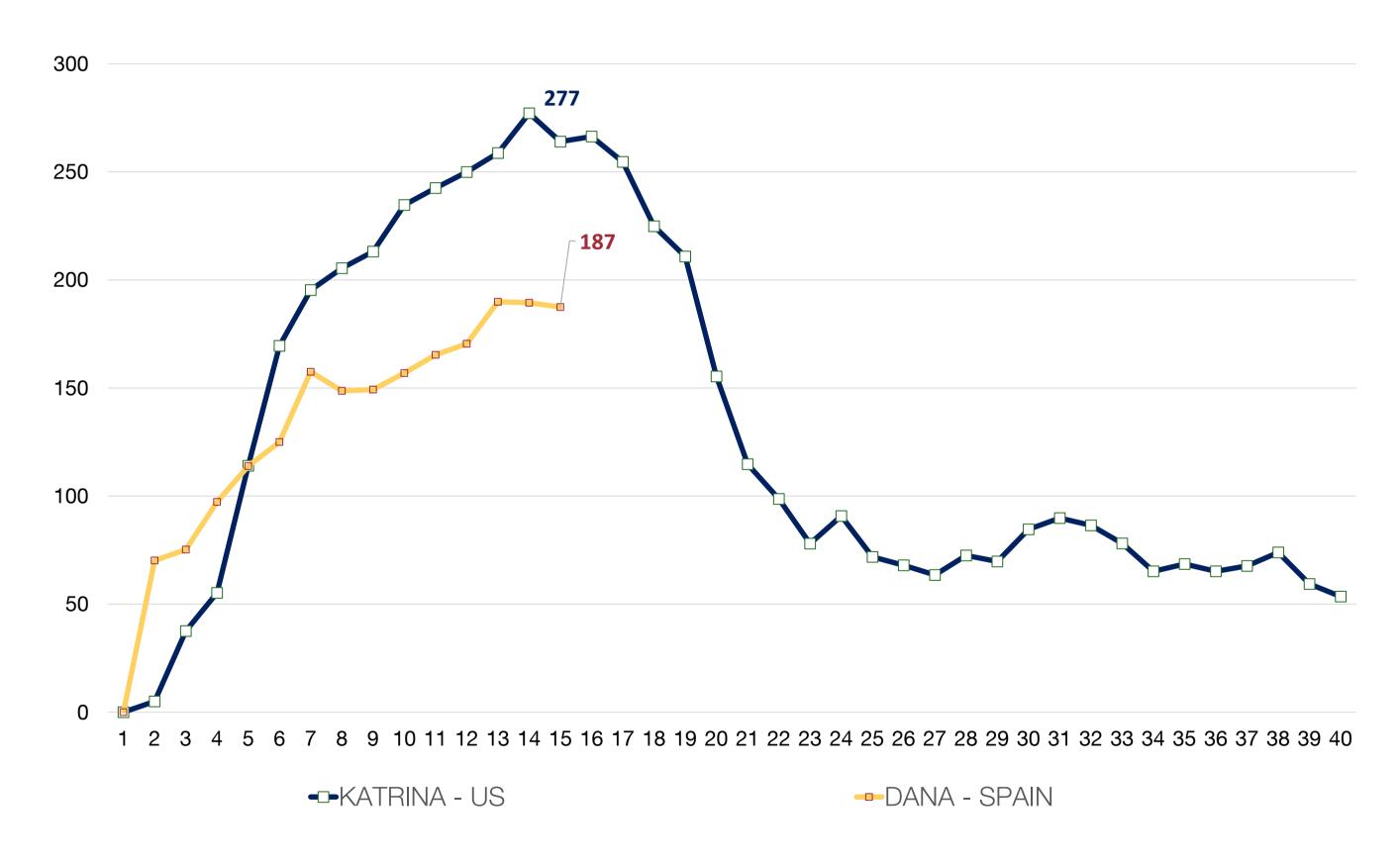




Copernicus EMS Rapid Mapping <a href="https://rapidmapping.emergency.copernicus.eu/EMSR773/download">https://rapidmapping.emergency.copernicus.eu/EMSR773/download</a>

## Real-time monitoring of the economic impact: bottlenecks

# CHANGE IN THE SUPPLY BOTTLENECKS INDEX IN THE UNITED STATES AFTER KATRINA VS. CHANGE IN SPAIN AFTER THE DANA

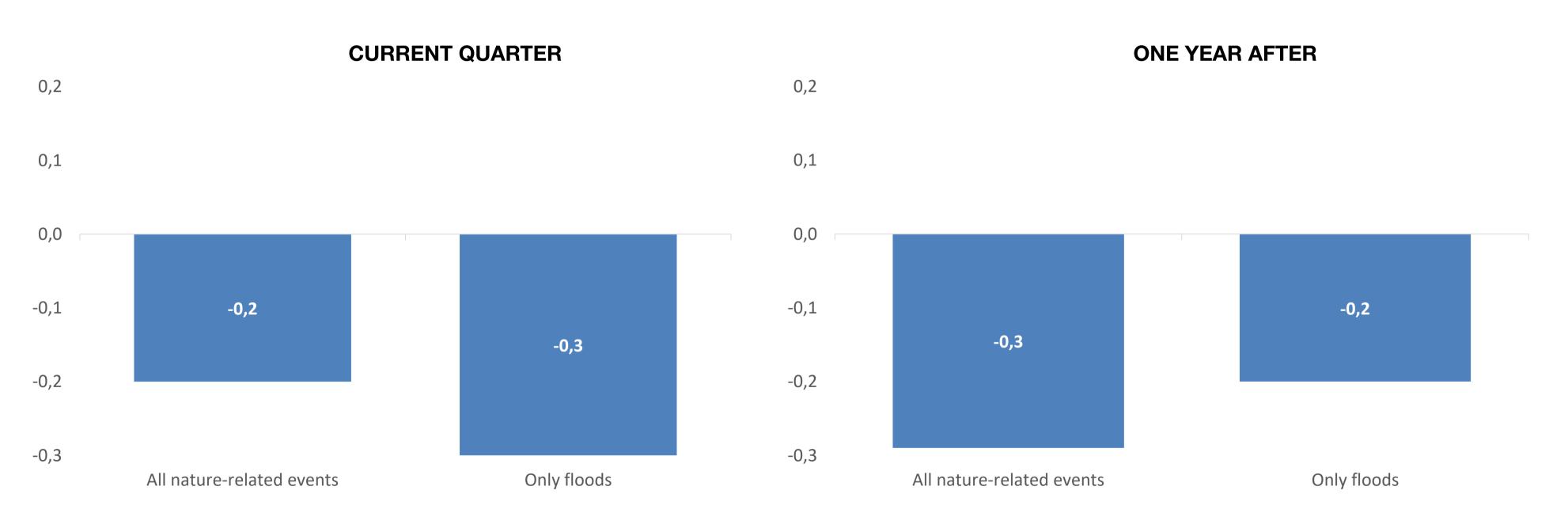


Source: Banco de España. Burriel, Kataryniuk, Moreno-Pérez and Viani (2024). 15-day moving average. Last observation: 12 November 2024.

# Historical international evidence points to a negative short-run impact of nature-related events on GDP

• The impact of the DANA on Spain's GDP growth is uncertain and will depend on various factors, such as the percentage of economic activity affected and the magnitude and timeliness of fiscal measures implemented

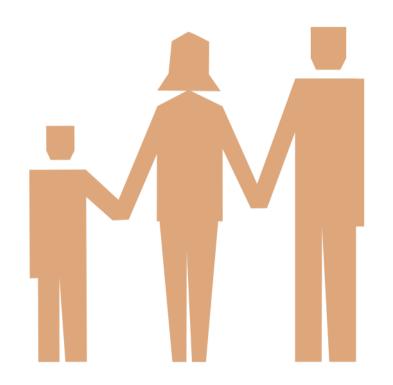
#### **ESTIMATED IMPACT OF NATURE-RELATED EVENTS ON GDP**



Source: Own calculations based on Eurostat and EM-DATA. The EM-DATA database collects natural disasters in Europe in the last 23 years, including drought, earthquake, epidemic, flood, glacial lake outburst, flood, infestation, mass movement, storm, volcanic activity, wildfire. Extreme temperature events are excluded (e.g. Spain heat wave in 2022 with 11,000 casualties).

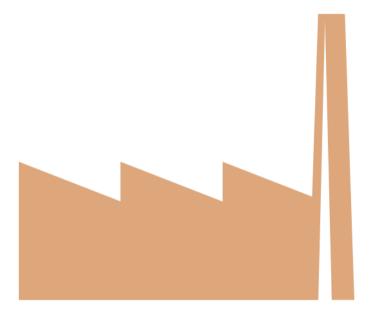
## The fiscal response to the DANA

• On November 5<sup>th</sup> and 11<sup>th</sup>, the Government enacted **fiscal measures** to support households, firms, and other public administrations (reestablishing local insfrastructure).



 Including assistance to compensate for property damage

**HOUSEHOLDS** 



FIRMS & SELF-EMPLOYED

Including direct transfers (about EUR 1bn)



# PUBLIC INFRASTRUCTURE

 Including street cleaning and water infraestructure

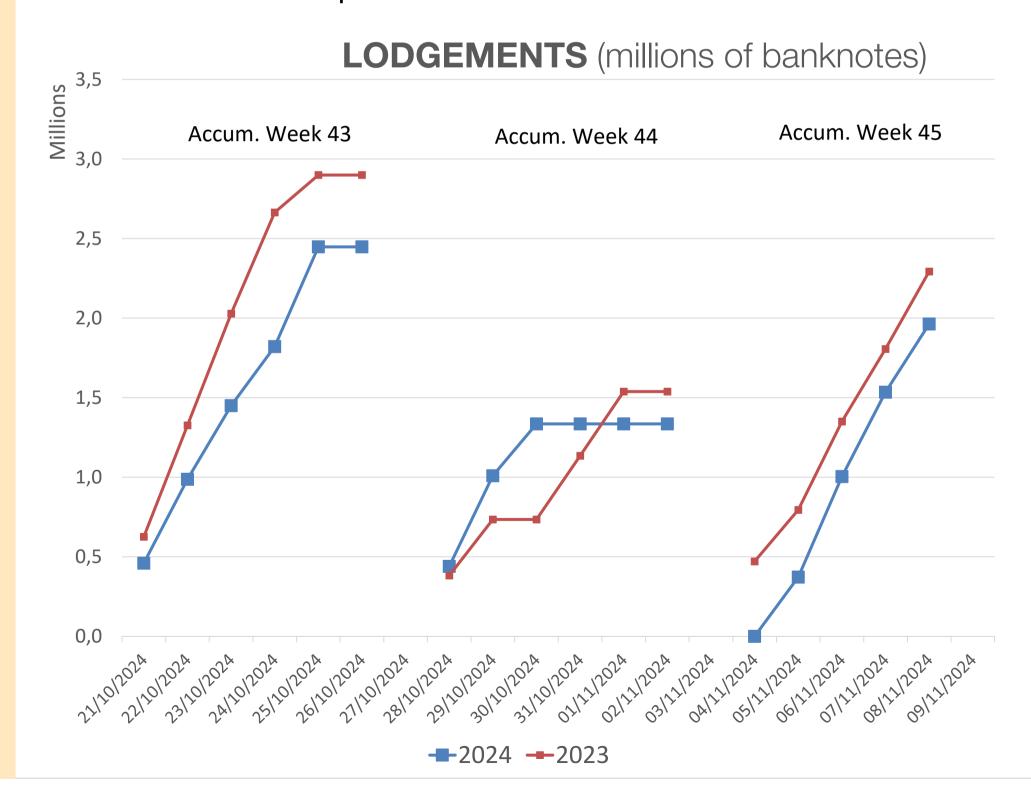


#### **FINANCIAL AID**

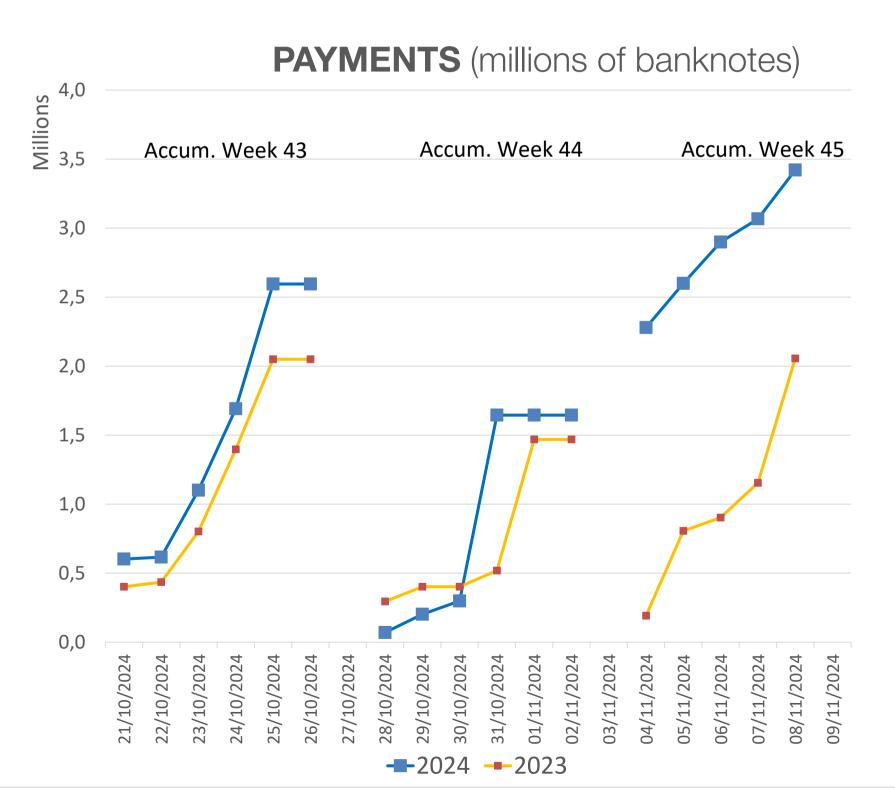
Including public guarantees to households, firms and self-employed (about EUR 5bn) and moratoria

## Distribution and access to cash: monitoring cash lodgements and payments

Lodgements are expected to grow this week once the procedure to exchange damaged banknotes is in place



Payments last week nearly doubled the amount of the previous year to ensure the capacity to provide non-damaged banknotes



## Impact on payments

- 11% of Point of Sale terminals in the area have not operated since 29 October.
- Sales using Point of Sale terminals have fallen by 15% in the area



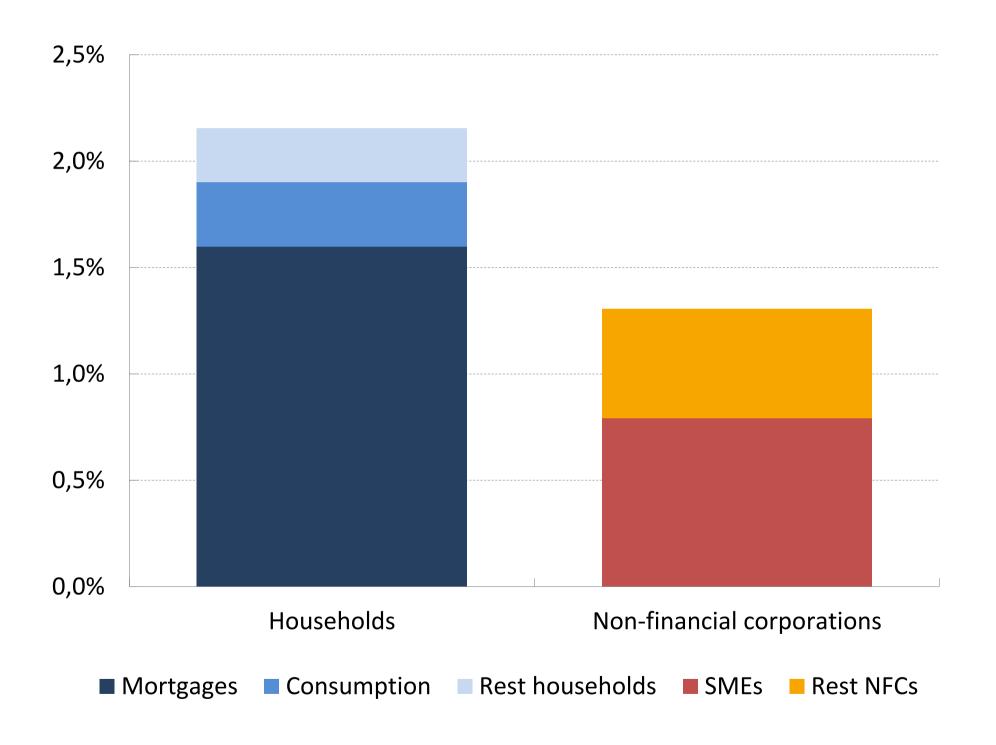


Volume of Cash withdraws in ATMs has declined by 5%

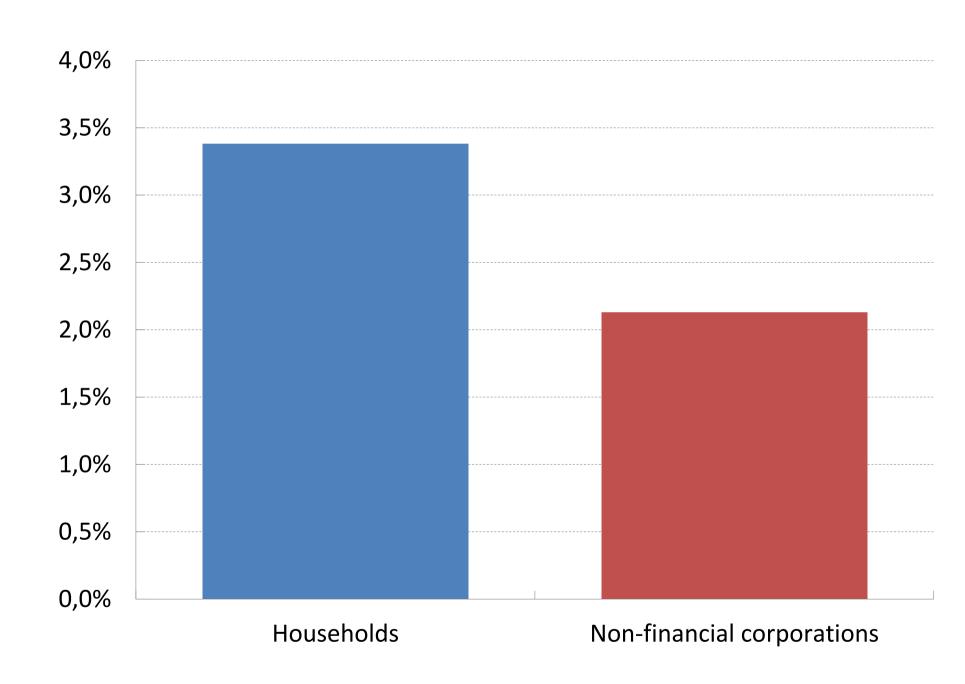
Source: Redsys

# Impact on the banking system: Macroprudential picture





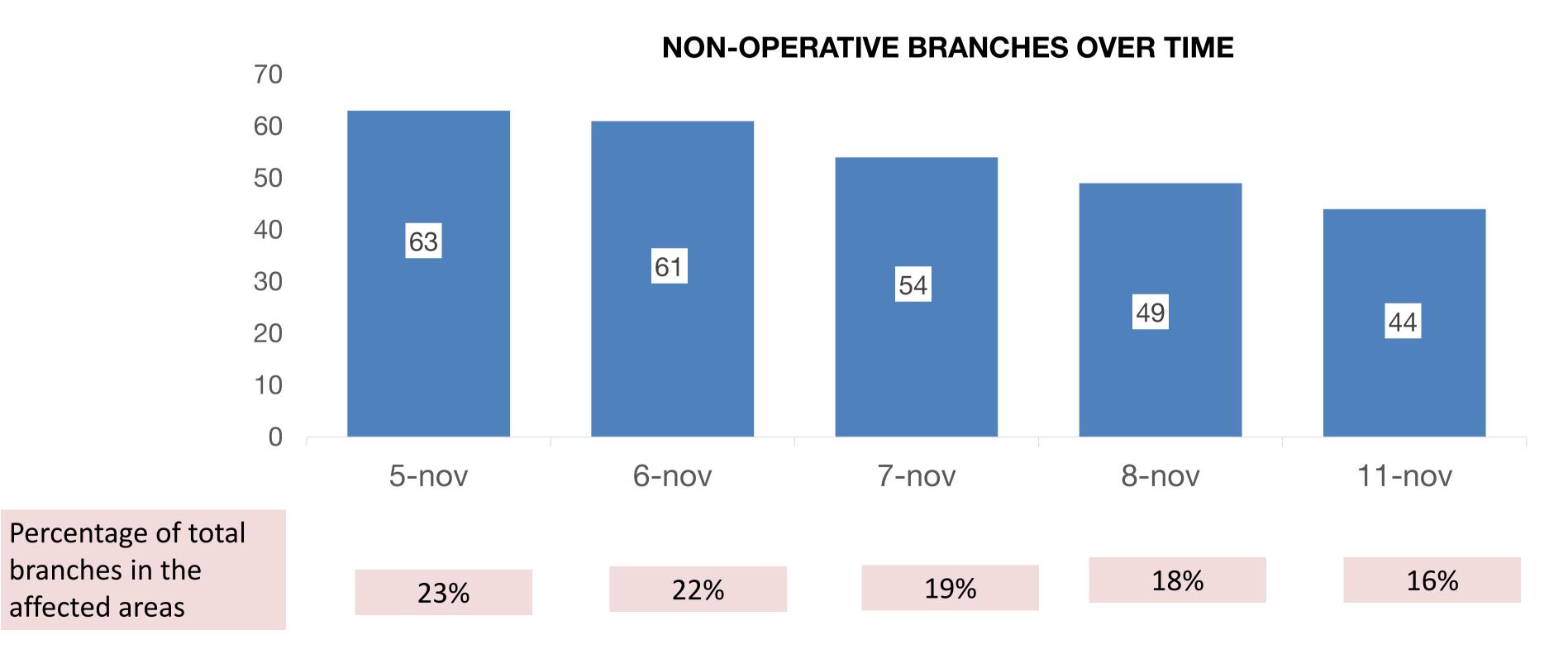
# NUMBER OF AFFECTED HOLDERS (% total households or NFCs holders)



# Impact on the banking system: Operational capacity



44 Non-operative branches as of today

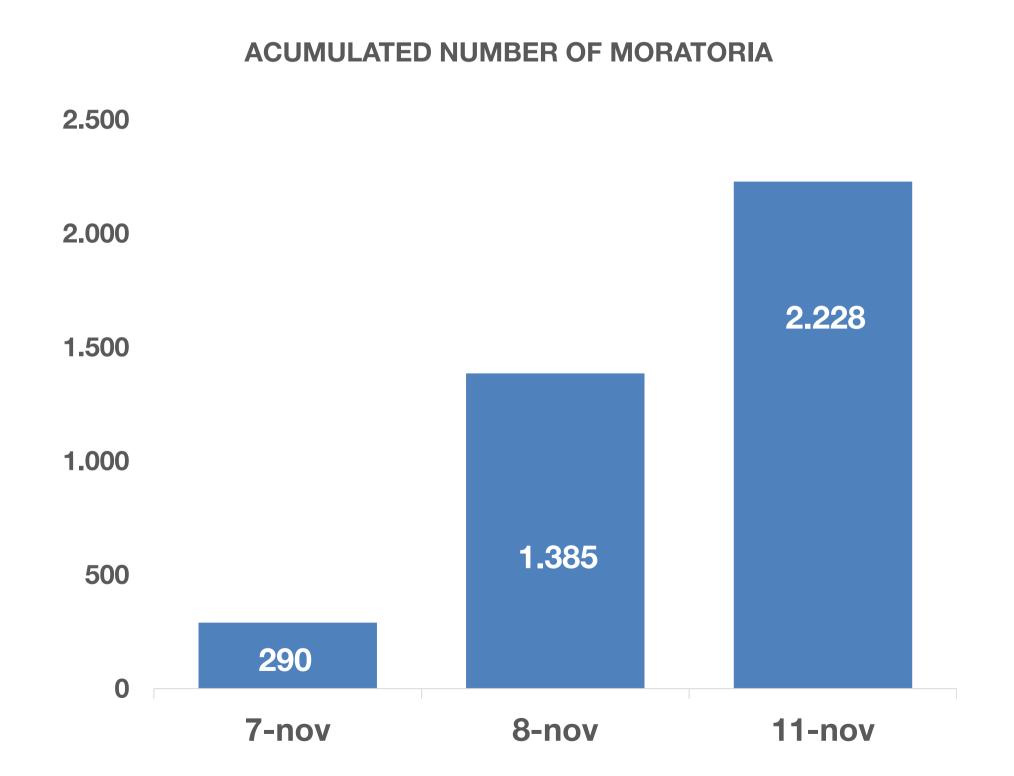


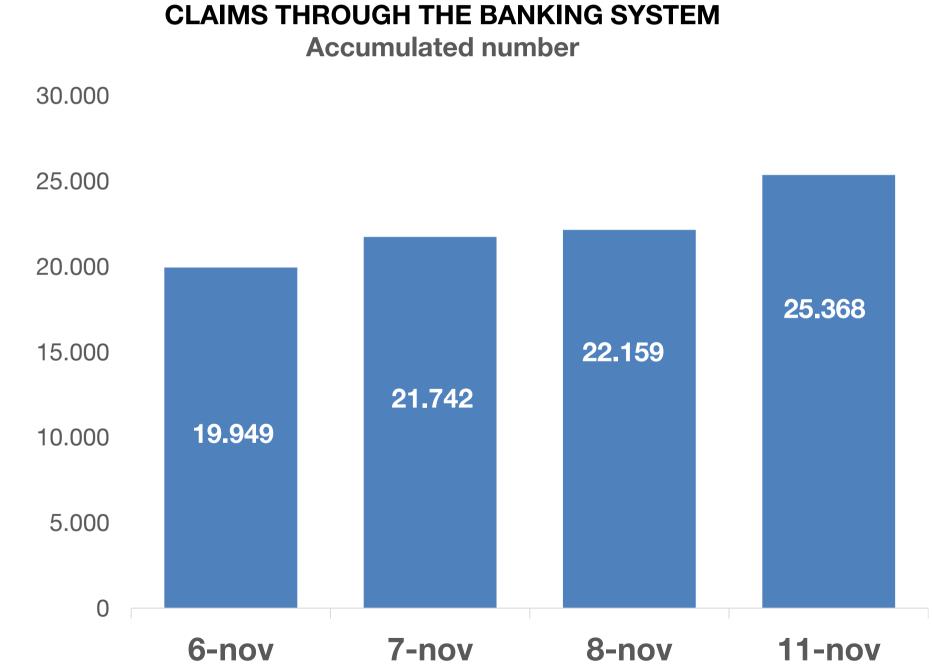
Source: Daily survey to entities

# Impact on the banking system: Measures adopted

### Loan moratoria

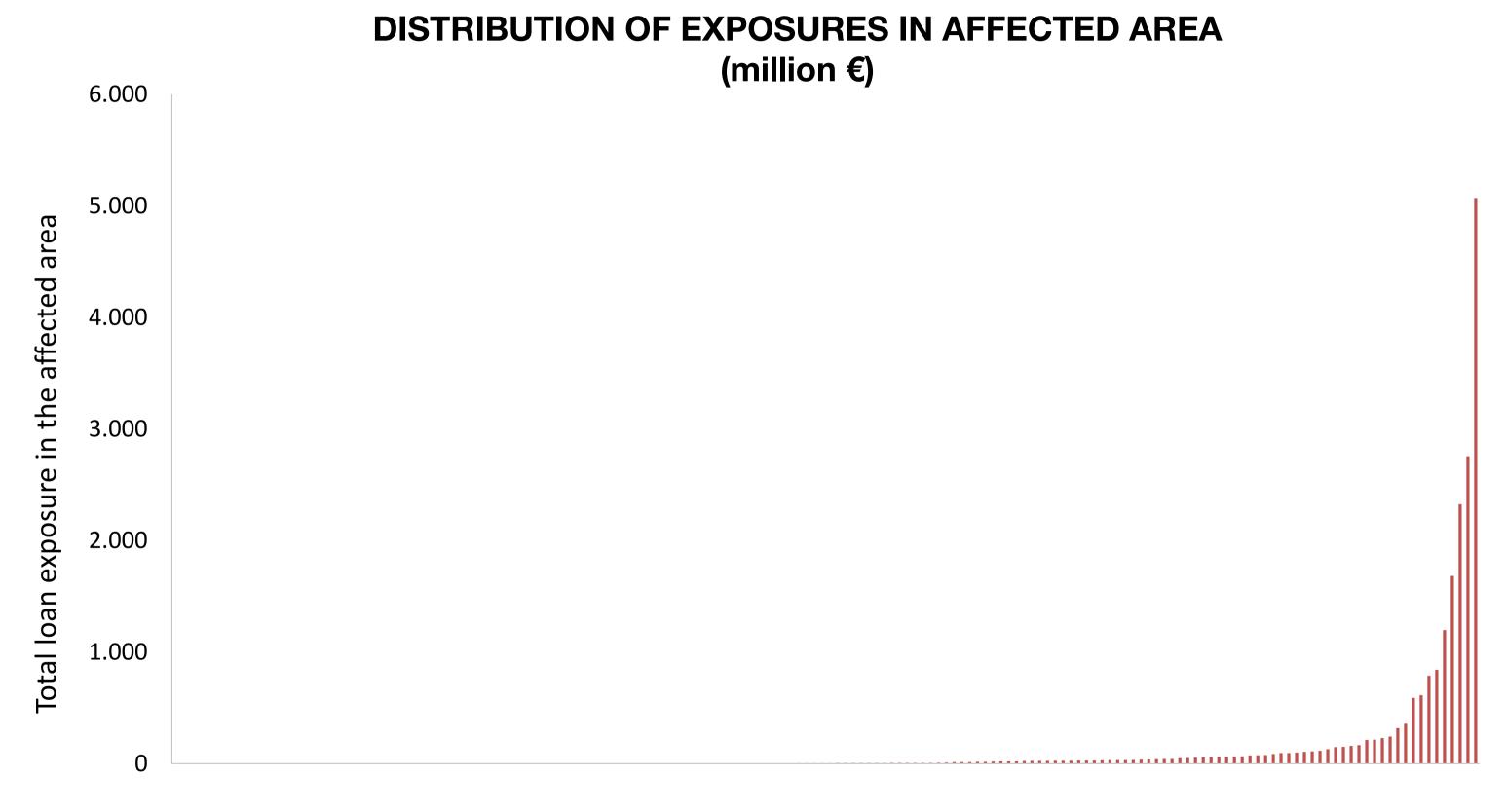
# Insurance Claims (Insurance Compensation Consortium + direct claims)





Source: Daily survey to entities

# Impact on the banking system: Microprudential picture



Individual financial institution (ranked by exposure)



# THANK YOU

