

4th Anniversary of the Ahr Valley Floods



Thinking
Circular

Reflections after 9 months since the DANA catastrophe that occurred in Valencia on October 29, 2024



CLUSTER
CLEAN WASTE

Speaker: Salvador Ortí
Manager

Organizer of the Sustainable Reconstruction Conference
after the DANA, held in Valencia (January 7-11, 2024)

National association of entities and companies specialized in waste management processes



Special Employment Centers

Collaborators in each region:

Technical Consulting and Training:

Coordinates:

4th Anniversary of the Ahr Valley Floods



PARTICIPANTS in the CONFERENCE held in Valencia (January 7-11, 2024)



Organized by:



Invited entities:



Advisor:



As a German consultancy



Participating companies of the Cluster



Two of the three companies commissioned by the GVA to manage the DANA waste two months after the disaster

What happened in Valencia on October 29, 2024?

It was the largest flood caused by a DANA in the 21st century in our country, comparable to other historic events that occurred in the Valencian Community during the 1950s and 1980 s.

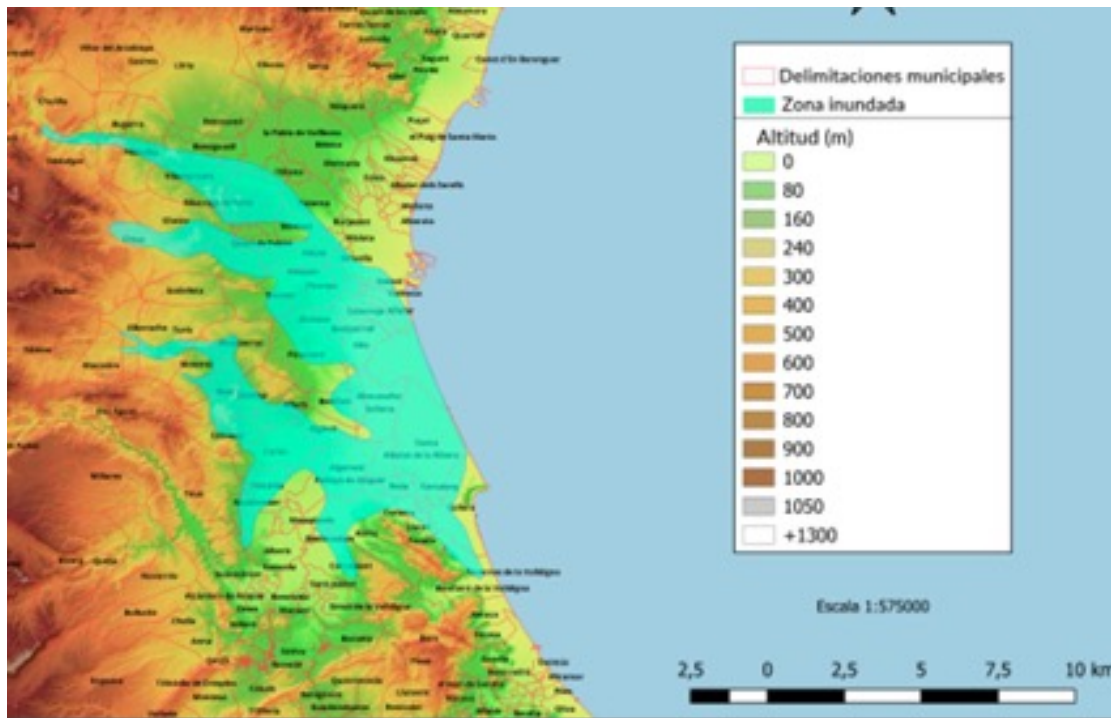


Figura 10 Precipitaciones acumuladas el día 29 de octubre de 2024 en España. Fuente: AEMET

What happened in Valencia on October 29, 2024?

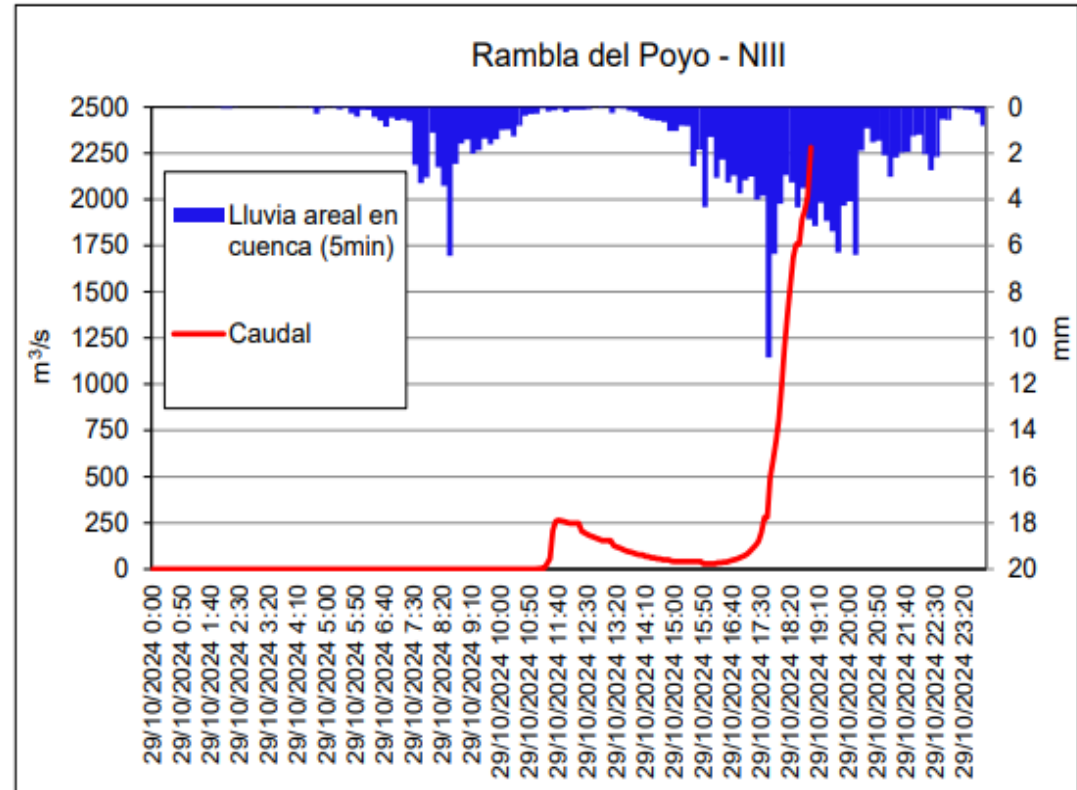
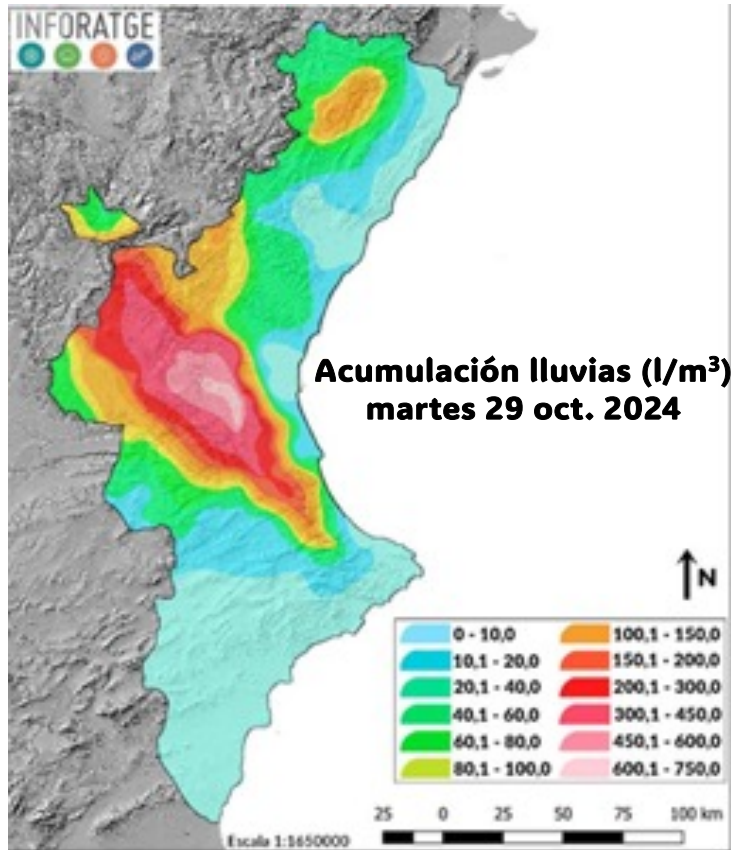
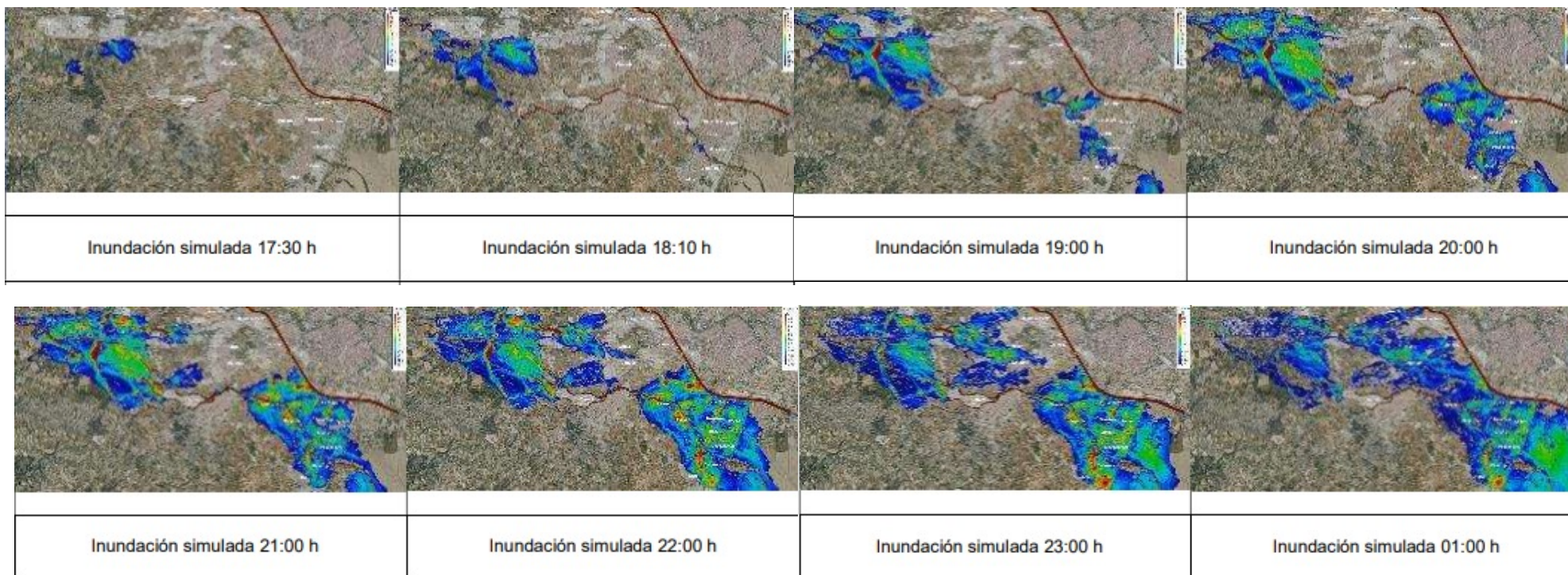


Figura 4 Hietograma areal e hidrograma en la cuenca vertiente a estación de aforos del SAIH. Fuente: SAIH de la CHJ

What happened in Valencia on October 29, 2024?



Since the first floods began at 5:30 p.m., measures should have been taken to warn residents downstream.

Datos sobre la DANA de Valencia (Fte. Presidencia Gobierno España)

• **229 muertos**

Población de la zona afectada: 845.371 habitantes, (31,8 % de la prov. de Valencia) de 65 municipios

Superficie afectada: 4.608 km² (el 43 % superficie de la provincia de Valencia.)

Los más afectados han sido: Paiporta, Chiva, Catarroja y Massanassa (según responsables de la UME)

Solicitudes indemnización: 343.916. En tramitación 82,8 %; Finalizadas: 30,9%

Solicitudes Daños a personas y comercios: 36.079

Anticipos por daños en viviendas y enseres: 39,36 mil. € (Entre 15.000 y 20.000 €/ vivienda)

Actividad económica afectada en la zona: 54.289 empresas 123 Polígonos industriales.

Más de **354.000 trabajadores** (el 33,5% de la provincia de Valencia)

Situación del alcantarillado 1 mes después de la DANA *(más del 80% estaba obstruido)*

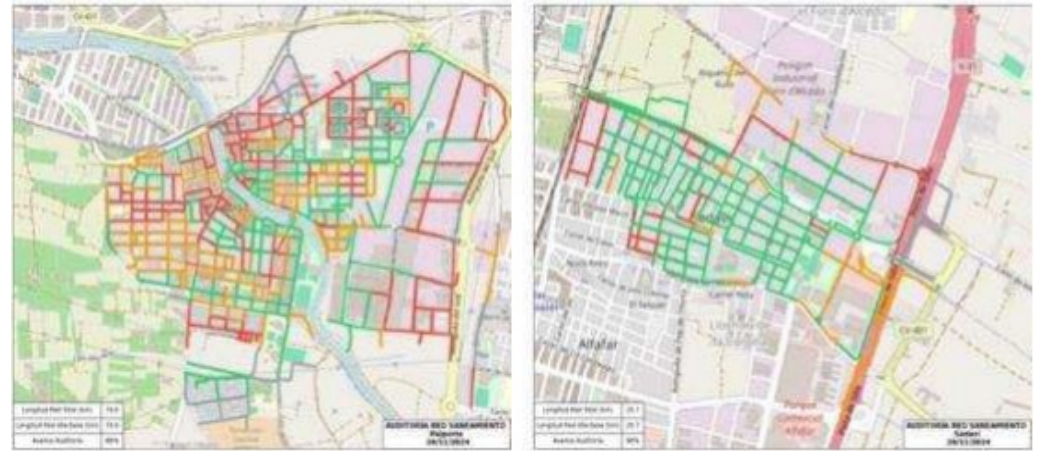


Figura 37 Mapas sobre el estado de obturación de la red de alcantarillado a fecha 20-11-2024 en Algesesí, Benetússer, Catarroja, Chiva, l'Alcúdia, Massanassa, Paiporta y Sedavi

In Spain, it is evident that preventive measures and Automatic Hydrological Information Systems (AHIS) to assist in flood prediction and management, as well as the National Flood Zone Mapping System, which covers potentially floodable areas, as well as the **PROTOCOLS for addressing flood disasters, urgently require updating and equipping them with more reliable and secure technological means.**

**Summary of PROPOSALS and INITIATIVES put forward by the CLEAN
WASTE Cluster following the Conference held from January 7 to 11,
2025**

Following an urgent analysis and study of the current status of the waste *generated (goods collected from the streets of the affected towns and from affected vehicles)* accumulated in the various collection areas, and after four days of visits to the affected areas by Cluster technicians and a German consultancy firm, we verified that the following situations occurred in the management of the waste accumulated mainly on the streets of the affected towns:

- After the houses were emptied, carried out mainly by volunteers and staff, residents' belongings accumulated in the middle of the streets, diverting much of the mud into the sewers, causing serious blockages and making it impossible to pump out water from garages.
- The affected vehicles, which were mainly on the streets and in garages in the towns, were removed by inappropriate means, causing damage to the vehicles to a greater extent than the damage caused by the flood. The vehicles were not identified beforehand to inform the owners.

**Our PROPOSAL was born as a professional sector related to
WASTE MANAGEMENT.**



These PROPOSALS are designed with a FUTURE-LOOKING vision, helping to turn the effects of tragedies like those experienced in Valencia into a source of information and assistance for other regions or countries that may experience similar situations.

**Summary of PROPOSALS and INITIATIVES put forward by the CLEAN
WASTE Cluster following the Conference held from January 7 to 11,
2025**

1. **After assisting victims and providing them with basic services (food, water, medicine, energy, communications), the most important thing, given the scale and economic, environmental, and social impact, is to ensure proper and flexible management of the waste generated by a disaster.**
2. **Given the risks of the work to be carried out after these disasters and considering the safety of those affected, volunteers must have an ID issued by a public entity and receive minimal training prior to participating in the work. They must be provided with appropriate protective equipment for the work to be performed. Priority should be given to assisting people in need by providing them with food, medicine, or providing support.**
3. **After carrying out EMERGENCY waste removal actions (which should be limited to the shortest possible time), the procedure must be changed, and a specialized waste management process must be implemented.**
4. **Waste management must always adhere to sustainability and circularity criteria to minimize the environmental impact of these types of disasters, which requires unique and specialized PROTOCOLS, PLANNING, and COORDINATION.**
5. **For proper waste management, it is necessary to develop proven procedures, relying from the outset on specialized entities and/or companies, depending on the type of waste to be treated. This procedure must be carried out in the designated final collection areas and at the appropriate time, for which these measures must be in place.**
6. **Experience shows that the resources required to properly manage waste will be greater in terms of human resources and machinery than initially estimated, as well as adequate spaces for accumulation for subsequent treatment.**
7. **From the outset, the treatment of vehicles accumulated on the streets must be carried out in a manner that allows for: Identification of the owner by license plate and/or chassis number; informing the owner of its destination and condition (via photo), and generating databases. and ensuring that the removal does not cause any further damage to the vehicle than the damage caused by the disaster.**
8. **After their initial removal, vehicles should NOT be handled (as has also been the case in areas near towns) without first removing hazardous waste (fuel, oil, batteries, etc.) due to the safety and health risks they pose.**

**Other PROPOSALS and INITIATIVES put forward by the CLEAN
WASTE Cluster following the Conference held from January 7 to 11,
2025**

Given that many of **the homes and businesses** located on ground floors in the affected towns are rendered uninhabitable by the damage they have suffered, **we understand that they have also become "waste."**

These properties were the best and most sought-after in these towns, but after the catastrophe, **their value has fallen to ZERO or minimal.**

Nine months later, all owners now know that **the compensation payments will NOT allow them to cover the costs of their rehabilitation.**

Therefore, we propose that **public agencies should treat the owners**

of buildings damaged by the DANA with the same criteria as public buildings

and infrastructure (i.e., covering 100% of the value of the damage), given that the residents HAVE NO RESPONSIBILITY for the causes and reasons that led to this catastrophe.



The DANA has taken EVERYTHING from those affected (their memories, possessions, vehicles, and even their homes).
"We must return as much value as possible to them."

Proposal to establish a **PROFESSIONAL SUPPORT SERVICE** for affected owners

For those owners who can afford the renovation of their properties with their own resources and subsidized resources, we propose establishing a **PROFESSIONAL SUPPORT SERVICE**, the costs of which will be borne by the public entities.

- **Manage, through the owners' delegation, the permits to begin the renovation process for their properties with the relevant entities and organizations.**
- Obtain various **BUDGETS for the renovation, comparing their quality/price ratios**, and establishing and pre-arranging with potential suppliers the appropriate guarantees for the execution of the work to be carried out, doing so under the best price/quality conditions and guarantees that protect the owners' interests.
- **Monitor and supervise the renovation work**, ensuring that technicians maintain and execute it properly and within budget.
 - Process the necessary procedures until the completion of the renovation work, as well as obtain administrative authorizations for the new use of your home or business premises, as well as all licensing, permit, and registration processes.
 - And, where appropriate, advise on the processes for the RENTAL/TRANSFER of the property and/or SALE, if required.



SUSTAINABLE RECONSTRUCTION of damage caused by DANA IN PUBLIC PROCUREMENT

We also propose **the USE in PUBLIC PROCUREMENT of materials from waste**, (e.g. *plastics, rubbers, debris*, ...) minimising their deposit in landfills and/or incineration.

Avoiding that in these public tenders the **PRICE** is the main criterion for grading, (an issue that the current regulations (Law 7/2022 or LCAP) already establish, having to consider, for example, the cost of the useful life of the products, or considering minimizing the costs of landfilling.

**The application of CIRCULAR ECONOMY in PUBLIC PROCUREMENT
is still not contemplated in any EE:PP contracting in Spain.**

We propose that all recoverable waste can have a new use and/or an economic return can be obtained from it, generating a new transformation industry and the generation of new jobs, if possible, a significant part of them inclusive.

El Parlamento Europeo quiere fomentar la extracción de materias primas a partir de residuos

Action criteria proposed by:



The criteria for defining actions to reduce flood risk in the basins of the Pozalet, Saleta, and Rambla del Poyo ravines are as follows:

- a) **Zero risk does not exist**, so actions are proposed with the aim of achieving acceptable risk levels. This means that flood levels and velocities in the most vulnerable areas should cause the least possible damage during extraordinary floods, such as those that occurred during the DANA.
- b) **The solutions proposed to reduce hazards in the most vulnerable areas should not significantly increase the risk in other, less vulnerable areas.**
- c) **Nature-based solutions will be prioritized.** When structural solutions are proposed, they must be supported by favorable cost-benefit studies, seeking greater environmental compatibility and landscape integration.
- d) **The work being carried out** in the Pozalet and Saleta ravines, as well as in the Poyo ravine, must begin downstream, but it should be noted that an adequate level of protection will only be achieved with upstream work.

Improving knowledge about flood risk



The flooding that occurred on October 29 has highlighted the need to review flood risk planning and develop new hazard and risk maps for this area, as well as mapping flood zones in unstudied sections. This is intended to increase territorial coverage and, most likely, to expand coverage in other areas of the Mediterranean basin, where studies already conducted by the CEDEX Hydrographic Studies Center indicate that maximum rainfall and flow rates for high return periods are underestimated.

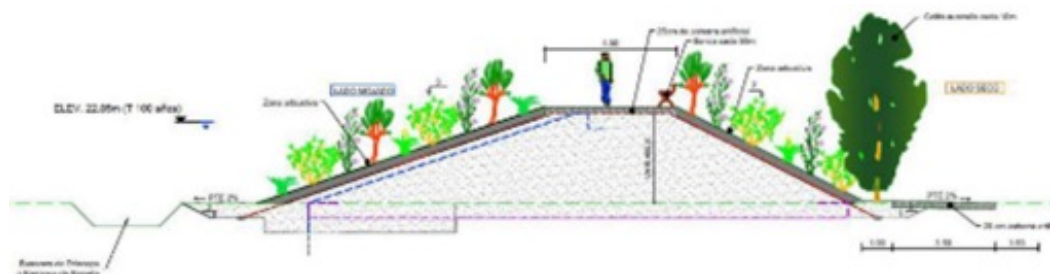
Protective Measures *Investment required for prevention and protection measures: €530 million*

The main objective of protective measures is to reduce risk by reducing hazards. They include nature-based solutions, such as hydrological and forest restoration and reforestation, controlled storage areas, and channel improvements and structural interventions, such as diversions and greenways, protective mounds, and improved cross-drainage of communication routes. Urgent measures have already been initiated and are planned for implementation during 2025 and 2026.

Propuesta de Plan para la recuperación y mejora de la resiliencia frente a las inundaciones en el territorio afectado por la DANA en la Comunidad Valenciana

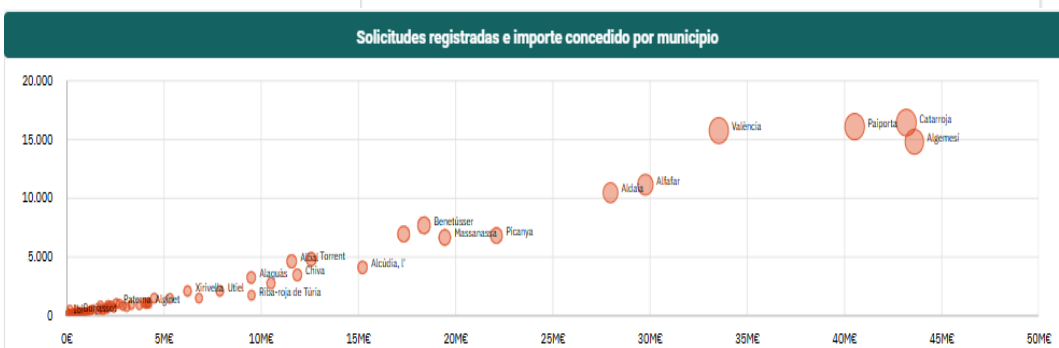
CÓDIGO	Título del Proyecto	Total PBL (IVA incluido)
PC 01	Adaptación a la inundabilidad del Bco. de la Casella y mejora de su capacidad.	24 M€
PC 02	Zona de laminación natural en la confluencia del Bco. Casella-Barxeta	2 M€
PC 03	Adaptación al riesgo de inundación del Bco. Barxeta. Fase I	5 M€
PC 04	Adaptación al riesgo de inundación del Bco. Barxeta. Fase II	8,5 M€
PC 05	Elementos estructurales de protección contra inundaciones del núcleo urbano de Cogullada	2,5 M€

Example of one of the solutions planned for the protection of some urban centers:



Protective mound 954 m long, with a variable height of 2.5 m to 3 m.

AID AND REQUESTS FOR DAMAGES from DANA



Immediate Response Plan to DANA, an investment of €10,600,000 to cover needs such as:

- **Extraordinary Temporary Disability:** For workers and self-employed workers who have suffered physical or psychological injuries as a result of the DANA (National Emergency Situation). **75% of their salary is guaranteed from the first day.**
- **Assimilation of pensions to occupational accidents**
- **Supplement to the Minimum Living Income (IMV):** A 15% supplement to the IMV (Minimum Vital Income) and non-contributory pensions is established.
- **Cessation of activity benefit for self-employed workers:** Those affected by the DANA (National Emergency Situation) who have been forced to suspend their activity.
- **Exemptions from social security contributions:** A "zero cost" is established for social security contributions for companies and self-employed workers on ERTE (Temporary Employment Regulation File) directly affected by the DANA

On 29 May 2025, the Vice President and Minister for Ecological Transition and the Demographic Challenge, Sara Aagesen, presented to the associations of victims of the DANA in Valencia a plan to improve the resilience to flooding of the affected territory with an investment of **530 million euros.**

SITUATION of the premises as of today (8 months later)
Photos taken in only part of the municipality of Paiporta on June 29, 2025



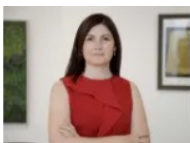
**More than 50% of
the affected
properties are
awaiting
rehabilitation.**



Vuelve el Metro a la zona de la DANA de Valencia: un primer día de ajustes y retrasos, pero de gran expectación

EUROPA PRESS

- Los autobuses lanzadera se retiran tras haber desplazado 4,3 millones de viajeros.



La alcaldesa de Paiporta deja el cargo por salud ocho meses después de la DANA

EFE

- Albalat (PSPV-PSOE) ha agradecido el apoyo recibido durante sus 10 años al servicio del pueblo.



El jefe de la Aemet, a la jueza de la DANA: "¿Cómo vamos a comunicar los avisos más de lo que lo hicimos?"

EP

- José Ángel Núñez afirma que "falló la decisión" de quien tenía la competencia de alertar a la población.



Abierto el plazo para solicitar las nuevas ayudas de la Generalitat para vehículos afectados por la DANA

AGENCIAS

- Esta segunda convocatoria incluye categorías de vehículos subvencionables que no estaban en la anterior.



La jueza de la DANA rechaza investigar al jefe de Climatología de la Aemet en la Comunidad Valenciana

EFE

- La magistrada insiste en que la Aemet avisó de que el 29 de octubre "era el día álgido de la DANA".



Transición Ecológica prevé activar el próximo año el primer paquete de proyectos posdana

20minutos

- La primera actuación será el encauzamiento del barranco de la Saleta desde Aldaia al nuevo cauce del Turia.



El hijo de una de las víctimas de la DANA, ante la jueza que investiga el 29O: "Si se hubiera cortado la zona, mi padre no habría muerto"

EFE

- El empresario Antonio Noblejas falleció después de que la riada se llevara su coche en el circuito de Cheste.



Mazón anuncia 30 millones en bonos para comercio y hostelería y ayudas a mercados

J. L. Obrador

- El jefe del Consell avanza nuevas prestaciones dirigidas a sectores afectados por la DANA del 29 de octubre.



La juez solicita a la Confederación del Júcar información de un control del barranco del Poyo

Reclama a Emergencias información sobre la movilización de los bomberos forestales para vigilar el río y los barrancos

THE OBJECTIVE | **Tribunales**



El 112: los bomberos fueron al Poyo a las 12.48 horas del 29-O, pero desconoce quién los retiró

La testigo desconoce el tiempo que estuvieron desplazados los bomberos, cuál fue el momento de su retirada y quién dio la orden



El Parlamento valenciano acelera la comisión de la dana para oír a las víctimas antes de verano

Todos los colectivos de damnificados de la tragedia y víctimas a título individual podrán participar

Jorge Mestre | **Comunidad Valenciana** | 4



Afectados por la dana se manifiestan en el Tribunal Supremo y en el Congreso: 'Por la Verdad y la Justicia'

Madrid domingo 29 junio 2025



Solo se ha movilizado el 13% de los créditos ICO anunciados para los afectados por la dana

Apenas se han concedido 675,8 millones de euros en préstamos con aval, de los 5.000 prometidos por Sánchez



General Gan Pampols: «La instrumentalización de las víctimas me parece deleznable»

Lamenta la poca colaboración del Gobierno para afrontar la difícil situación de las zonas afectadas por la riada



Mazón promete reunirse con las asociaciones de víctimas de la dana en la 'zona cero'

El presidente de la Generalitat asegura que podrán participar en la comisión de investigación en Las Cortes valencianas



La octava manifestación contra Mazón por la dana reúne a cinco mil personas en Valencia

Valencia domingo 29 de junio 2025

Mensaje final / **Final message:**

La DANA ha dejado una lección ineludible sobre nuestra vulnerabilidad frente a la naturaleza.

Ahora está en nuestras manos convertir esta crisis en una oportunidad para fortalecer el compromiso ambiental, recuperar recursos y garantizar que las decisiones que tomemos mañana sean el cimiento de un futuro más resiliente y consciente de estos riesgos.

The DANA has left an inescapable lesson about our vulnerability to nature.

It's now in our hands to turn this crisis into an opportunity to strengthen our commitment to the environment, recover resources, and ensure that the decisions we make tomorrow lay the foundation for a more resilient future that is aware of these risks.



Gracias por su atención
Thank you for your time

¡ Dejémosles un futuro mejor !
¡ Let's leave them a better future !