

NeaOdos

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**16th ROAD**

**SAFETY**

**CONFERENCE**

- 5th of March 2024
- Madrid, Spain

*Hosted by*

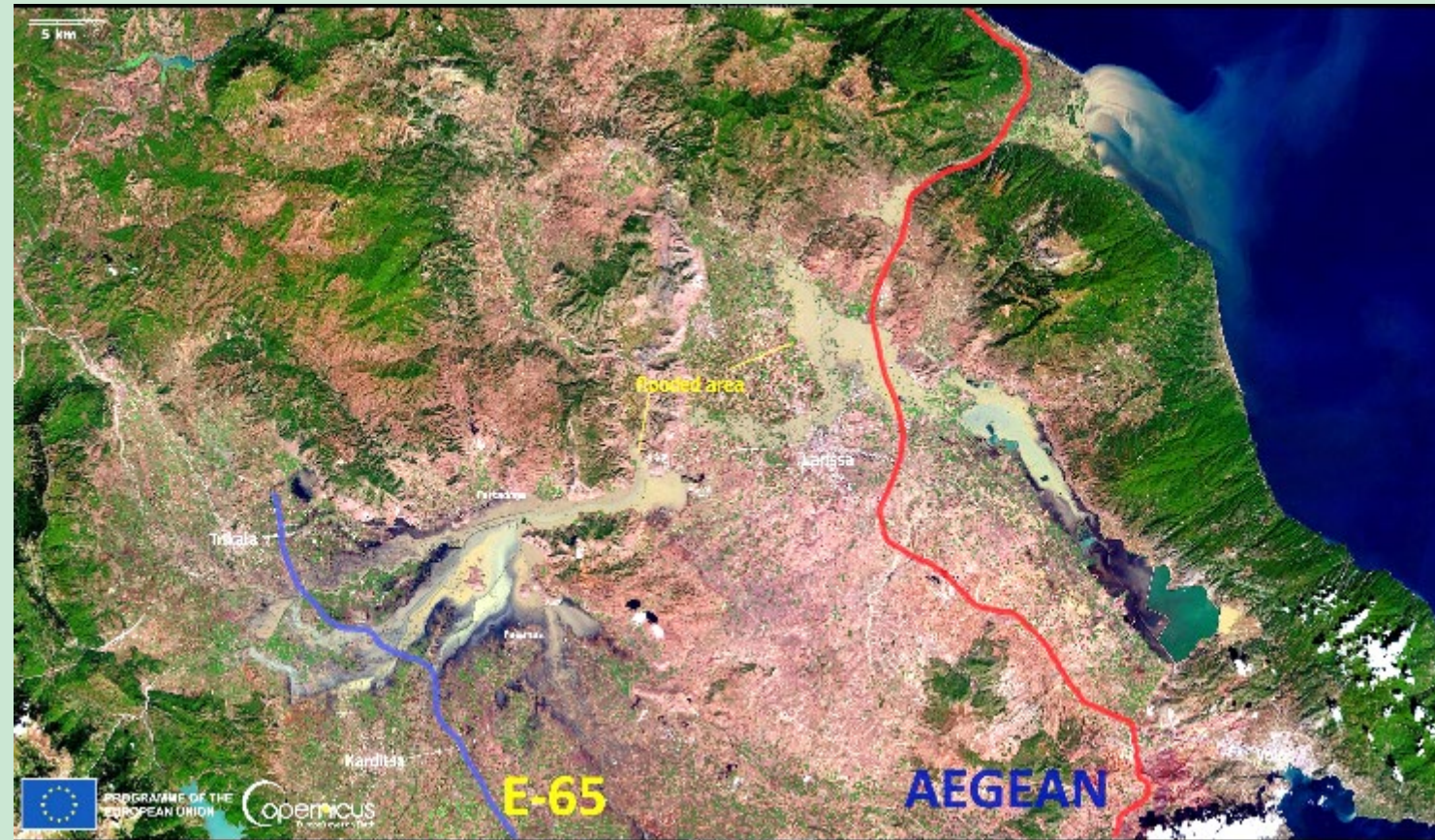




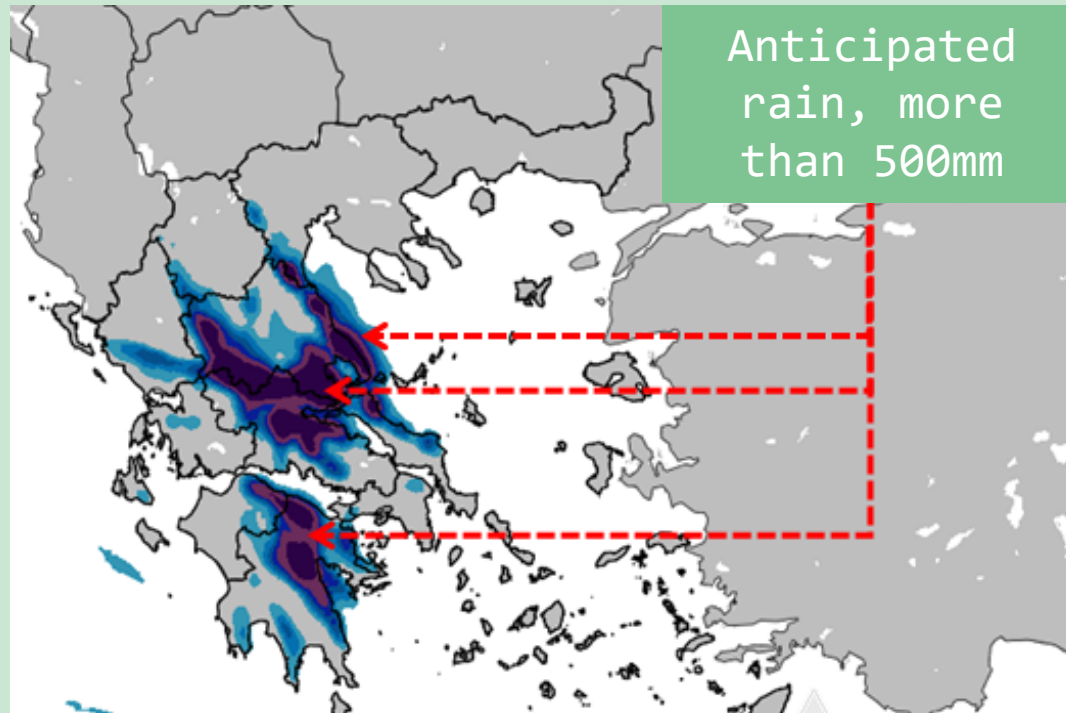
# Motorway worker's safety under extreme weather conditions

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# Motorways Operation under extreme weather disturbances



- 4-7 September 2023 severe rainfall on Thessaly, Greece
- Local weather stations recorded 200mm to 1100mm of rainfall
- Critical damages on infrastructures, buildings, agriculture
- Aegean Motorway and E65 Motorway faced challenges in operation and recovery

Date/ Weather Stations	Kalampaka	Trikala	Karditsa	Smokovo	Domokos	Lamia
04-Sep	10.8 mm	17.6 mm	42.4 mm	40.2 mm	40.4 mm	24.6 mm
05-Sep	94.2 mm	116.6 mm	185.2 mm	97.0 mm	110.0 mm	22.8 mm
06-Sep	165.8 mm	256.8 mm	404.4 mm	89.4 mm	225.2 mm	167.0 mm
07-Sep	85.2 mm	86.4 mm	26.8 mm	14.0 mm	6.4 mm	10.6 m

*National Observatory of Athens*



# Concequenses and Impacts of severe weather conditions



- Streams overflowed on nine (9) sections along the motorway
- Executed gradual traffic deviations on sequence
- Fence, guardrails, slopes & hard shoulders damages
- Clogged drainage pipes, culverts
- Functionality problems issued on toll stations

# Training and Fostering Safety Culture: Preliminary Measures



- Maintaining vehicles and fleet in reliable condition
- Utilising communication and GPS equipment
- Cultivating a safety culture among all stakeholders
- Revisions of the operation manuals
- Communication protocols assessment
- Appropriate PPE / Preparation



# Facing Extreme Weather Conditions: Strategies and Actions



- Patrolling & reporting safely, according to training and directions
- Communication: Consistency, Conciseness, Clarity
- Monitoring, evaluation and sharing information
- Providing guidance and instructions to staff
- Reporting emergency incidents to authorities
- TCC ensured safety for traffic circulation

## Optimized and Agile Management, Post Incident



- Communication Strategy and Resources
- Collaboration among Stakeholders as State, Traffic police
- Information to the general public about motorway closures



- Incremental execution of motorway cleaning and restoring
- Result: safe working conditions



## Aftermath – Lessons Learned – Commitment to Safety



E-65 Smokovo area

- Talent acquisition, retain personnel, training of the employees
- Modernize Equipment, Exploit communication tools
- Proactive and Risk averse organization culture
- Collective Effort and Shared Vision
- Implement new technologies as drone inspection and patrolling amplified with AI



# ***Thank you for your attention***

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