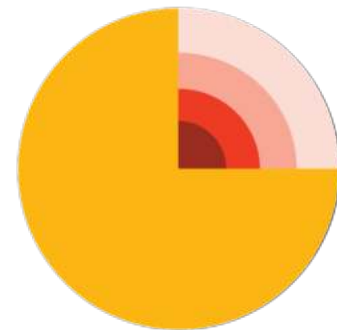


EDANYA Group UMA

Jorge Macías
Universidad de Málaga (UMA)



UNIVERSIDAD DE MÁLAGA



ChEESE



Universidad de Málaga



UNIVERSIDAD DE MÁLAGA

- Founded in 1972
- Spanish public university
- Around 40,000 students
- 58 Graduate degrees
- 53 Master's degrees
- 278 research groups
- PDI (teaching and research staff): 2,482 (dec 2017)
- 19 Faculties / 81 Departments
- Campus de Excelencia Internacional "**Andalucía TECH**" (2010)



The Tsunami Team – EDANYA Group - UMA

		
Jorge Macías	Manuel J. Castro	Tomás Morales

- Marc de la Asunción (**eFlows4HPC**)
- Carlos Sánchez Linares (eFlows4HPC)
- José Manuel González (GEO-INQUIRE)
- Alex González del Pino (**DT-GEO**)
- Cipriano Escalante
- Sergio Ortega
- Juan Fran Rodríguez (**NN - ML**)
- Contracted 1 (**GEO-INQUIRE**)
- Contracted 2 (Investiga programme)



UMA staff effort per WP

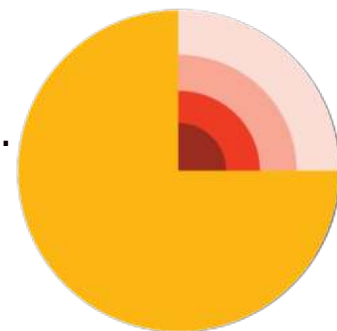
Work Package	PM
WP1: Project Management	2
WP2: Exascale technical challenges in flagship codes	12
WP3: Co-design with European HPC vendors and technologies	6
WP4: Simulation ecosystem	6
WP5: Farming Pilot Demonstrators	18
WP6: SCs and service enabling using EuroHPC infrastructures	12
WP7: Dissemination, outreach and capacity building	2



UMA role in ChEESE2 – Flagship code

Flagship code: HySEA

- Operational version of the dispersive version of Tsunami-HySEA (one-layer for earthquake generated tsunamis) with nested domain.
- Coupling Meteo-HySEA with real atmospheric data.
- Multi-GPU optimised implementations

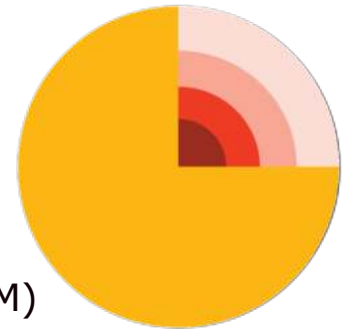


ChEESE



UMA role in ChEESE2 - Tasks

- WP1: Project Management (2 PM)
 - Task 1.1 to 1.5
- WP2: Exascale technical challenges in flagship codes (12 PM)
 - Task 2.1 to 2.4
- WP3: Co-design with European HPC vendors and technologies (6 PM)
 - Task 3.1 (**mini-HySEA**) to 3.3
- WP4: Simulation ecosystem (6 PM)
 - Task 4.2 and 4.3

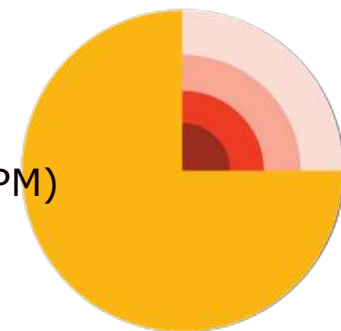


ChEESE



UMA role in ChEESE2 – Tasks

- WP5: Farming Pilot Demonstrators (18 PM)
 - Task 5.1 and 5.2
 - **Task 5.1.6. HySEA**
- WP6: SCs and service enabling using EuroHPC infrastructures (12 PM)
 - Task 6.1 to 6.3
- WP7: Dissemination, outreach and capacity building (2 PM)
 - Task 7.1, 7.3, 7.4 and 7.6

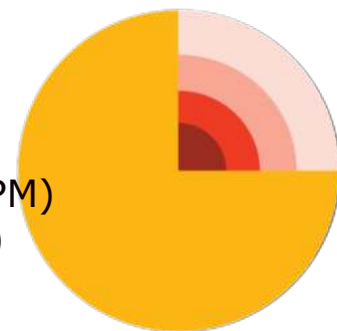


ChEESE



UMA role in ChEESE2 – Leading deliverables

- WP5: Farming Pilot Demonstrators (18 PM)
 - **Deliverable 5.8.- Demonstrator of PD3** (M36)
- WP6: SCs and service enabling using EuroHPC infrastructures (12 PM)
 - **Deliverable 6.4.- SCs report and dataset from PD3** (M46)

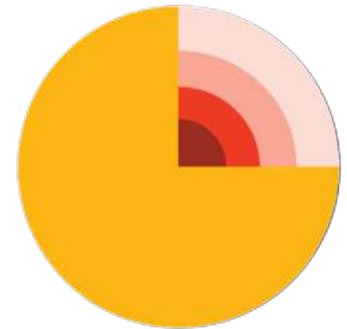


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UMA role in ChEESE2 – Pilot Demonstrators

- PD3: Global probabilistic tsunami hazard and uncertainty quantification (SC3.1)
 - INGV / UMA, NGI, TUM, LMU
- PD4: Complex multi-source tsunami modeling (SC4.1)
 - NGI / UMA, INGV, TUM, LMU, CNRS, RBI, UM
- SC3.1: The Global Tsunami Hazard Map
 - INGV, UMA / NGI, TUM
- SC4.1: Multi-source local high-resolution scenario with emphasis on the 2022 Tonga case
 - NGI / TUM, INGV, UMA, LMU, RBI, CNRS



ChEESE



Thank you



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