



Return final meeting

Comunicazione, Disseminazione
e Valorizzazione dei risultati

3-5 dicembre 2025

Napoli,
Centro Congressi, Stazione Marittima



POSTER SESSION

Room	Board N#	Presenter Surname	Presenter Name	Spoke	Authors	Title
Agave/Perseide	26	Acquilino	Marzia	Spoke 1 – VS1: Water	<u>Acquilino Marzia</u> , Gnecco Ilaria, Boni Giorgio	Modelling Pluvial Flooding in Urban Areas: Focus on Topographic Input Data
Agave/Perseide	45	Aiuppa	Alessandro	Spoke 3 – VS3: Earthquake and volcanoes	<u>Aiuppa Alessandro</u> , Bitetto Marcello, Curcio Luciano, Insinga Laura, Lages Joao, Lo Bue Trisciuzzi Giovanni, Vitale	Progresses in volcanic gas monitoring in Return
Dione/Elettra	96	Albanese	Stefano	Spoke 4 – VS4: Environmental degradation	<u>Albanese Stefano</u> , Guarino Annalise, Iannone Antonio, Parrella Luisa, Schiavo Simona, Crovato Cinzia, Accardo Sonia, Montereal Rosa Maria, Caiazzo Laura, Pezza Massimo, De Cassan Maurizio Giovanni, Caprioli Raffaella, Manzo Sonia	Assessing Chemical-Environmental Risks Along the Sarno River: A Comprehensive Framework in the Context of Climate Change.
Foyer	3	Alvioli	Massimiliano	Spoke 2 – VS2: Ground Instabilities	<u>Alvioli Massimiliano</u> , Lami Leonardo, Mirabile Maurizio, Balducci Vinicio, Boccacci Francesco, Bucci Francesco, Esposito Giuseppe, Fiorucci Federica, Iovine Giulio, Lorenzetti Walter, Lupiano Valeria, Marchesini Ivan, Melillo Massimo, Pisano Luca, Rossi Mauro, Santangelo Michele, Tosi Matteo, Tripodi Vincenzo	VIGIT-R: versatile implementation of ground instability tools in RETURN
Dione/Elettra	146	Amenta	Libera	Spoke 5 – TS1: Urban and metropolitan settlements	<u>Amenta Libera</u> , Attademo Anna, Bosone Martina, De Toro Pasquale, Russo Michelangelo	Metabolic risk in critical multi-risk urban contexts: a methodological proposal for a multidimensional assessment of the wastescapes resilience potential
Dione/Elettra	116	Antico	Mauro	Spoke 5 – TS1: Urban and metropolitan settlements	<u>Antico Mauro</u> , Bisegna Fabio, Bellemo Bullo Alberto, Burattini Chiara, Vespasiano Flavia	CHEOPE: Climate cHange urban monitoring and EvaluatiOn Platform and multisEnsor system

Dione/Elettra	147	Archetti	Renata	Spoke 6 – TS2: Multi-Risk Resilience of Critical Infrastructures	<u>Archetti Renata</u> , Casadei Isabella, Ponti Massimo	Hydrodynamic Studies on a Restored Oyster Reef: Methodology and Preliminary Results
Agave/Perseide	25	Arena	Claudio	Spoke 1 – VS1: Water	<u>Arena Claudio</u> , Castaldo Francesco, Francipane Antonio, Noto Leonardo	A Seasonal-Forecast-Based Decision Support System for drought management in complex water resources systems
Agave/Perseide	63	Asaridis	Panagiotis	Spoke 7 – TS3: Communities' resilience to risks: social, economic, legal and cultural dimensions	<u>Asaridis Panagiotis</u> , Ottonelli Daria, Boni Maria Pia, Quiceno Pérez Valeria, Gallazzi Alice, Petrini Lorenza, Muratori Simona, Vigotti Francesca, Molinari Daniela	Prioritizing risk mitigation measures in areas exposed to multiple natural risks
Agave/Perseide	27	Autovino	Dario	Spoke 1 – VS1: Water	Caltabellotta Gaetano, <u>Autovino Dario</u> , Iovino Massimo, Bagarello Vincenzo	Monitoring temporal variability of infiltration rates by beerkan runs: a four-year experiment in a sandy-loam soil
Agave/Perseide	28	Bachini	Elena	Spoke 1 – VS1: Water	<u>Bachini Elena</u> , Camporese Matteo, Larese Antonia, Putti Mario	Evaluating the impact of water-related natural hazards on civil structures: a multiscale and multiphysics approach
Dione/Elettra	108	Baini	Matteo	Spoke 4 – VS4: Environmental degradation	Panti Cristina, <u>Baini Matteo</u> , Concato Margherita, Limonta Giacomo, Galli Matteo, Maccantelli Andrea, Dettoto Chiara, Ancora Stefania, Marsili Letizia, Casini Silvia, Caliani Ilaria, Bianchi Nicola, Franchi Enrica, Fossi Maria Cristina	Ecotoxicological risk assessment of environmental contaminants and climate change in the Orbetello lagoon
Foyer	4	Bausilio	Giuseppe	Spoke 2 – VS2: Ground Instabilities	<u>Bausilio Giuseppe</u> , Coda Silvio, Di Martire Diego, Forte Giovanni, Tufano Rita, Calcaterra Domenico	KATABASIS: a Sinkhole Susceptibility Assessment and Time-Magnitude Scenario Evaluation tool within the RETURN Project
Dione/Elettra	117	Belleri	Annamaria	Spoke 5 – TS1: Urban and metropolitan settlements	<u>Belleri Annamaria</u> , Ali Sana Fatima, Chen Yi	Integrating urban microclimate and dynamic thermal behaviour for resilient building retrofit strategies: a multi-scale simulation
Agave/Perseide	53	Belloni	Valeria	Spoke 3 – VS3: Earthquake and volcanoes	Giaccio Laura, <u>Belloni Valeria</u> , Ravanelli Roberta, Crespi Mattia	Reference frame connection of EGMS InSAR time series for large-scale ground velocity mapping: application to the Irpinia
Dione/Elettra	118	Bernardini	Gabriele	Spoke 5 – TS1: Urban and metropolitan settlements	Quagliarini Enrico, <u>Bernardini Gabriele</u> , Cantatore Elena, De Fino Mariella, Fatiguso Fabio	A User-Centered Workflow for Multi-Risk Assessment and Mitigation in Historic Urban Built Environments

Dione/Elettra	149	Bertolini	Ilaria	Spoke 6 – TS2: Multi-Risk Resilience of Critical Infrastructures	<u>Bertolini Ilaria</u> , Marchi Michela, Gottardi Guido	A fragility-based numerical framework for evaluating mitigation measures against Backward Erosion Piping in river embankments: a case study from the Po river
Dione/Elettra	167	Bertone	Nicolò	Spoke 6 – TS2: Multi-Risk Resilience of Critical Infrastructures	Zambrini Roberta, Zamariolo Andrea, Casagrande Giulia, Martinucci Davide, Possamai Marco, Zei Caterina, Pieroni Cristian, Borgatti Lisa, Festi Pietro, Vittuari Luca, Gandolfi Stefano, Tini Alessandra, Cappuccio Matteo, Marcato Gianluca, Ballaera Angelo, <u>Bertone Nicolò</u> , Francioni Mirko	INFRATEC - Multi-Sensor Integration and Mixed-Reality for Tunnel Resilience: The San Lorenzo Case Study
Dione/Elettra	97	Bizzotto	elisa	Spoke 4 - VS4 e TS1	<u>Bizzotto Elisa</u> , Scanferla Petra	Best practices and methodologies for the compilation of ecotoxicological databases
Dione/Elettra	119	Bizzotto	elisa	Spoke 5 – TS1: Urban and metropolitan settlements	<u>Bizzotto Elisa</u> , Raimondi Barbara, Scanferla Petra	Ecological value and roles of vegetation in brownfield remediation and redevelopment
Agave/Perseide	79	Borile	Federica	Spoke 8 – DS: Science underpinning climate services for risk mitigation and adaptation	<u>Borile Federica</u> , Pinardi Nadia, Clementi Emanuela, Oddo Paolo	Assessment of Ocean Climate Indicators in the Mediterranean Sea
Foyer	5	Budillon	Francesca	Spoke 2 – VS2: Ground Instabilities	Alberico Ines, Roberto Caprile, Casaburi Annarita, Ceriola Giulio, Chiocci Francesco Latino, Di Martino Gabriella, Di Lauro Paola, Di Martire Diego, Felsani Marcello, Gamberi Fabiano, Iavarone Michele, Innangi Sara, Insinga Donatella D., Martino Salvatore, Martucci Marco, Matano Fabio, Mercorella Alessandra, Pizza Marco, Rossi Marcello, Rovere Marzia, Sarkar Nabanita, Tonielli Renato, Trucco Andrea, Vernazzani Davide, <u>Budillon Francesca</u>	Gravitational instability in shallow-water and coastal environments: monitoring strategies and applications from the RISCHiA-Re Project
Agave/Perseide	46	Bufi	Giordano	Spoke 3 – VS3: Earthquake and volcanoes	<u>Giordano Bufi</u> , Silvia Massaro, Francesco Giordano, Pierfrancesco Dellino, Silvia Rainò, Alessandro Aiuppa, Giulio Bini, Stefano Caliro, Davide Cerasole, Antonio Costa, Fabio Dioguardi, Danilo Elenterio, Simone Lentini, Francesco Rufino, Giancarlo Tamburello, Angelo Vitale, Georges Vougioukalakis, Antonio <u>Bufi</u>	Radioactivity behavior in hydrothermal volcanic systems: preliminary on-site investigations at high and low gas flux degassing areas

Dione/Elettra	98	Burini	Margherita	Spoke 4 – VS4: Environmental degradation	<u>Burini Margherita</u> , Baldassarre Laura, Albanese Annamaria, Auriemma Rocco, Bazzaro Matteo, Caiazzo Laura, Cerino Federica, Davanzo Alessandra, De Vittor Cinzia, Diociaiuti Tommaso, Douss Nessim, Fornasaro Daniela, Iannucci Simona, Kralj Martina, Laudicella Vincenzo Alessandro, Montereali Maria Rita, Nasi Federica, Relitti Federica, Retelletti Brogi Simona, Toffanin Lorenzo, Sandri Lisa, Schiavo Simona, Manzo	Effects of multiple stressors on the ecosystem functioning of Grado lagoon: an experimental assessment using mesocosms
Dione/Elettra	151	Cammarata	Giuseppe	Spoke 6 – TS2: Multi-Risk Resilience of Critical Infrastructures	Alcamo Laura, <u>Cammarata Giuseppe</u> , Caruso Alessandro, Caruso Salvatore, Mauro Alberto, Palo Mauro, Vecchi Andrea, Zollo Aldo	Early Warning System (EWS): A Modular AI-Based Architecture for Real-Time Detection and Classification of Earthquake and Noise Transient Signals
Foyer	6	Cappadonia	Chiara	Spoke 2 – VS2: Ground Instabilities	Mineo Giampiero, <u>Cappadonia Chiara</u> , Rosone Marco	Overview of Rockfall Research Activities
Dione/Elettra	121	Cardillo	Antonella	Spoke 5 – TS1: Urban and metropolitan settlements	Filitti Domenico, <u>Cardillo Antonella</u>	Deep Learning Platform for the Assessment of Seismic Fragility and Vulnerability of Urban Buildings
Dione/Elettra	152	Castiglione	Maria	Spoke 6 – TS2: Multi-Risk Resilience of Critical Infrastructures	<u>Castiglione Maria</u> , Corsino Santo Fabio, Torregrossa Michele	Development and application of a Multi-Hazard Methodology for critical infrastructure assessment: Sicilian Wastewater Treatment Plants
Dione/Elettra	153	Castro Rodriguez	David Javier	Spoke 6 – TS2: Multi-Risk Resilience of Critical Infrastructures	<u>Castro Rodriguez David Javier</u> , Vitale Morena, Demichela Micaela, Barresi Antonello A.	A vulnerability-driven methodology to assess the multi-risk NaTech potential of industrial infrastructures
Agave/Perseide	29	Cavalli	Marco	Spoke 1 – VS1: Water	<u>Cavalli Marco</u> , Crema Stefano, Sarretta Alessandro, Ballaera Angelo, Barizza Antonella, Bossi Giulia, Fiorucci Federica, Maio Donato, Piantini Marco, Rocca Jacopo, Marchi Lorenzo	Post-event documentation and analysis of flash floods: the APPARE Project
Foyer	7	Cencetti	Corrado	Spoke 2 – VS2: Ground Instabilities	Di Matteo Lucio, Melelli Laura, De Rosa Pierluigi, Calderon Cucunuba Laura Paola, Fredduzzi Andrea, Cambi Costanza, Cecconi Manuela, Valigi Daniela, Focareta Mariano, Francioni Mirko, Meisina Claudia, Revellino Paola, Sciarra Nicola, <u>Cencetti Corrado</u>	The LANDAM Open Database and proposal for a new landslide dams' classification

Agave/Perseide	80	Ceola	Serena	Spoke 8 – DS: Science underpinning climate services for risk mitigation and adaptation	<u>Ceola Serena</u> , Palazzoli Irene, Puglisi Chiara, Binelli Chiara, Muttarak Raya	Public Perceptions of Flood Risk: Evidence from Major 2023 Events in Italy
Agave/Perseide	30	Cerboni	Valentina	Spoke 1 – VS1: Water	<u>Cerboni Valentina</u> , Fiorucci Federica, Donnini Marco, Cencetti Corrado, Marchesini Ivan	Linking process-based modeling and field observations to improve soil erosion and sediment transport simulations
Foyer	1	Chen	Xue	Spoke 2 – VS2: Ground Instabilities	<u>Chen Xue</u> , Teatini Pietro, Rosi Ascanio, Catani Filippo, Floris Mario	Spatiotemporal Dynamics and Anomaly Detection of Land Subsidence in Delta Areas: A Case Study from the Po River Delta Using InSAR Time Series
Agave/Perseide	64	Chiozza	Valeria	Spoke 7 – TS3: Communities' resilience to risks: social, economic, legal and cultural	<u>Chiozza Valeria</u> , Cataldi Silvia, Milani Alessandro, Sarrecchia Annalisa, Talamo Alessandra, Xie Mei, Bonaiuto Marino	Psychological Impacts of Geophysical Natural Disasters: A Systematic Review
Agave/Perseide	31	Ciavola	Paolo	Spoke 1 – VS1: Water	Chatzipavlis Antonis, Trogu Daniele, Ruju Andrea, Usai Antonio, Porta Marco, Demuro Sandro, Coco Giovanni, <u>Ciavola Paolo</u>	A methodological framework for the implementation of an Early Warning System for flooding of urban beaches: the NEPTUNE Poetto experience
Dione/Elettra	154	Cicirelli	Franco	Spoke 6 – TS2: Multi-Risk Resilience of Critical Infrastructures	<u>Cicirelli Franco</u> , Panza Maria Antonietta, Vinci Andrea, Guerrieri Antonio, Li Qimeng	AQUA-Predict: Methodological Approach for Water Distribution Network Maintenance
Dione/Elettra	101	Ciluffo	Giovanna	Spoke 4 – VS4: Environmental degradation	Esposito Valentina, Petrosillo Katiuscia, <u>Ciluffo Giovanna</u> , Cassetti Federica, Greco Marta, Signa Geraldina, Tomasello Agostino, Tramati Cecilia D., Crovato Cinzia, Caprioli Raffaella, De Cassan Maurizio, Montereali Maria Rita, Parrella Luisa, Proposito Marco, Schiavo Simona, Manzo Sonia, Tassi Franco, Vizzini Salvatrice	A multidisciplinary assessment of climate–pollution interactions on the seagrass Posidonia oceanica using a shallow hydrothermal vent system as a natural laboratory
Foyer	8	Coppola	Lucia	Spoke 2 – VS2: Ground Instabilities	<u>Coppola Lucia</u> , Silvestri Francesco, Falconi Luca	Examples of remedial measures for ground instabilities
Dione/Elettra	124	Cozzolino	Luca	Spoke 5 – TS1: Urban and metropolitan settlements	Varra Giada, Napolano Nathalia, Boukdire Mohamed, <u>Cozzolino Luca</u> , Benassai Guido, Della Morte Renata, Capozzi	The PARADIGM project

Agave/Perseide	81	Crespi	Alice	Spoke 8 – DS: Science underpinning climate services for risk	<u>Crespi Alice</u> , Simonet Gaspard, Zandonella Callegher Claudio, Giovannini Lorenzo, Pittore Massimiliano	Multi-source observations and modelling to investigate the Urban Heat Island in the city of Bolzano (northern Italy)
Agave/Perseide	82	Crespi	Alice	Spoke 8 – DS: Science underpinning climate services for risk mitigation and adaptation	<u>Crespi Alice</u> , Yousefi Azadeh, Galletti Andrea, Bertoldi Giacomo	Using snow height records to assess systematic errors in a 1-km gridded precipitation dataset for the Adige River catchment (eastern Italian Alps)
Agave/Perseide	48	Curzi	Manuel	Spoke 3 – VS3: Earthquake and volcanoes	<u>Curzi Manuel</u> , Carminati Eugenio	Deciphering fault processes to identify potential precursors
Agave/Perseide	83	D'Angelo	Alexandra	Spoke 8 – DS: Science underpinning climate services for risk mitigation and adaptation	Capano Giliberto, <u>D'Angelo Alexandra</u> , Erittu Eleonora, Profeti Stefania, Casula Mattia	Rethinking Governance in Climate Adaptation. A Systematic Review of Barriers and Enablers Across Hazards.
Agave/Perseide	49	De Pace	Alessandra Maria	Spoke 3 – VS3: Earthquake and volcanoes	<u>De Pace Alessandra Maria</u> , Ravanelli Michela, Fratini Rachele, Mazzoni Augusto, Crespi Mattia	Real-Time Ground Motion Monitoring Using the GNSS Variometric Approach
Dione/Elettra	99	De Paola	Fulvio	Spoke 4 – VS4: Environmental degradation	<u>De Paola Fulvio</u> , De Tommaso Gaetano, Zarrelli Armando, Trifuoggi Marco, Iuliano Mauro	Multiparametric analysis and chemometric evaluation of two aquifers in the Cuma area (Campania, Italy)
Agave/Perseide	73	De Santi	Valentina	Spoke 7 – TS3: Communities' resilience to risks: social, economic, legal and cultural dimensions	Morando Marina, <u>De Santi Valentina</u> , Eusebio Allegra	Territorial heritage in MR evaluation: the case of Livorno
Foyer	9	Delchiaro	Michele	Spoke 2 – VS2: Ground Instabilities	<u>Delchiaro Michele</u> , Ruscitto Valeria, Mariani Valerio, Torre Davide, Schwanghart Wolfgang, Piacentini Daniela, Ballio Francesco, Troiani Francesco	BankfullMapper: a semi-automated tool for detecting and monitoring river bankfull geometry and discharge from high-resolution terrain data
Agave/Perseide	84	Devò	Pietro	Spoke 8 – DS: Science underpinning climate services for risk mitigation and adaptation	<u>Devò Pietro</u> , Rotella Vincenzo, Cozzuto Giovanni, Cesali Chiara, Marani Marco	Advancing climate change resilience for strategic infrastructures: a novel approach to estimate extreme rainfalls and model hydraulic impacts
Agave/Perseide	85	Devò	Pietro	Spoke 8 – DS: Science underpinning climate services for risk mitigation and adaptation	<u>Devò Pietro</u> , Wahl Thomas, Marani Marco	Statistical modeling of rare storm surges in poorly gauged coastal areas
Dione/Elettra	155	Di Benedetto	Almerinda	Spoke 6 – TS2: Multi-Risk Resilience of Critical Infrastructures	Capasso Elena, <u>Di Benedetto Almerinda</u>	Consequence Assessment of Hythane Releases under NaTech Scenarios

Foyer	10	Di Muro	Chiara	Spoke 2 – VS2: Ground Instabilities	<u>Di Muro Chiara</u> , Milillo Pietro, Di Martire Diego, Guerriero Luigi, Calcaterra Domenico	Landslide susceptibility mapping with a multi-methodological approach: implementation and comparison of models within WP2-box environment of VS2.
Dione/Elettra	100	Di Trapani	Daniele	Spoke 4 – VS4: Environmental degradation	<u>Di Trapani Daniele</u> , Cosenza Alida, De Marines Federica, Frisario Silvia, Modica Alfonso, Verginelli Iason, Villani Federico, Viviani Gaspare	Direct Measurements of Vapour Emissions in Contaminated Site by Means of Dynamic Flux Chambers: the Case Study of an Italian Site.
Dione/Elettra	125	Diodati	Daniele	Spoke 5 – TS1: Urban and metropolitan settlements	<u>Diodati Daniele</u> , Martinez Rafael, Dziadek Ricarda, Concezzi Luciano	High SUN - High resolution Solar exposure calculation for the production of renewable energy
Foyer	11	Dzelajlija	Igor	Spoke 2 – VS2: Ground Instabilities	<u>Dzelajlija Igor</u> , Markezic Nora, Gualdrini Marco, Ceramicola Silvia	Integrated Analysis of Fiumare Activity and Coastal Evolution in the Squillace Gulf (Southern Italy): Morphodynamics, Hazards, and Human Impact
Agave/Perseide	50	Ebrahimi	Pooria	Spoke 3 – VS3: Earthquake and volcanoes	<u>Ebrahimi Pooria</u> , Morgavi Daniele, Natale Jacopo, Arzilli Fabio, Di Fiore Fabrizio, Laumonier Mickael, Petrosino Paola	The importance of 4.3-ka Accademia explosive-effusive eruption in the ongoing volcanic unrest at Campi Flegrei, southern Italy
Agave/Perseide	51	Elettore	Giuseppe	Spoke 3 – VS3: Earthquake and volcanoes	<u>Elettore G.</u> , Allegretti A., Napoli A., Rizzano G., Di Benedetto S., Elettore E., Francavilla A., Latour M., Cuccurullo G., Concilio C., Nestico' A., Maselli G., Straulino A., Lisetto S., Sorace S., Pauletta M., Grimaz S., Somma G.	An Integrated Approach to Assess Seismic and Energy-Related Economic Losses in Existing RC Frame Buildings Before and After Structural and Non-Structural Retrofitting
Agave/Perseide	52	Fabbrocino	Giovanni	Spoke 3 – VS3: Earthquake and volcanoes	Sandoli Antonio, Valiante Giovanni, Vesce Gennaro, <u>Fabbrocino Giovanni</u>	An operational workflow for multi-data harmonization aimed at multi-scale probabilistic risk assessment
Agave/Perseide	32	Faggella	Marco	Spoke 1 – VS1: Water	<u>Faggella Marco</u> , D'Ecclesiis Giampiero, Barbosa Andre Ramos	From Snow Drought and NTC18 Regulations to System Water Crisis: A Multi-Hazard Framework for Reservoirs, Aquifers, and Springs in Basilicata

Dione/Elettra	156	Fava	Daniele	Spoke 6 – TS2: Multi-Risk Resilience of Critical Infrastructures	<u>Fava Daniele</u> , Lavallo Luisa, Alvioli Massimiliano, Fiorucci Federica, Marchesini Ivan, Codato Carolina, De Girolamo Paolo, Esposito Giuseppe	A Simulation Framework for Multi-Risk Assessment in Railway Infrastructure
Dione/Elettra	127	Ferraioli	Elena	Spoke 5 – TS1: Urban and metropolitan settlements	<u>Ferraioli Elena</u> , De Martino Paolo, Maragno Denis, Pagliari Daniele, Musco Francesco	MIRACLE: urban laboratories for multi-risk planning
Foyer	2	Ferrari	Alessio	Spoke 2 – VS2: Ground Instabilities	Valentino Giusy Floriana, Rosone Marco, <u>Ferrari Alessio</u>	The impact of intense and prolonged drying on ground instabilities
Dione/Elettra	128	Ferraro	Mario	Spoke 5 – TS1: Urban and metropolitan settlements	<u>Ferraro Mario</u> , Maddaloni Giuseppe, Del Vecchio Ciro, De Masi Rosa, Gigante Antonio, Alloro Francesco	Computo Green Cities
Agave/Perseide	33	Fiorucci	Federica	Spoke 1 – VS1: Water	<u>Fiorucci Federica</u> , Crema Stefano, Marchi Lorenzo, Piantini Marco, Rocca Jacopo, Sarretta Alessandro, Cavalli Marco	Integrated analysis of sediment connectivity and geomorphic effects of Storm Ciaran in two mountain catchments in Tuscany (Italy)
Dione/Elettra	157	Forestiero	Agostino	Spoke 6 – TS2: Multi-Risk Resilience of Critical Infrastructures	<u>Forestiero Agostino</u> , Trizio Ilaria	Artificial Intelligence for Automatic Bridge Damage Detection: The BEDD project
Agave/Perseide	66	Fraschini	Filippo	Spoke 7 – TS3: Communities' resilience to risks: social, economic, legal and cultural	<u>Fraschini Filippo</u> , Pronti Andrea, Zoboli Roberto	Climate change adaptation enablers: An assessment of socio-economic, institutional and environmental drivers behind the definition of adaptation policies inside the
Foyer	12	Fredella	Flaviana	Spoke 2 – VS2: Ground Instabilities	<u>Fredella Flaviana</u> , Capone Paola, Wasowski Janusz, Venisti Nicola, Del Gaudio Vincenzo	A regional predictive model for probabilistically-based classification of slope exposure to co-seismic failures accounting for site response
Dione/Elettra	129	Gaetani d'Aragona	Marco	Spoke 5 – TS1: Urban and metropolitan settlements	Wang Chenbo, Kourehpaz Pouria, <u>Gaetani d'Aragona Marco</u> , Galasso Carmine, Polese Maria	Probabilistic Assessment of Building Recovery Trajectories under Multi-Hazard Scenarios
Agave/Perseide	34	Galletti	Andrea	Spoke 1 – VS1: Water	<u>Galletti Andrea</u> , Pittore Massimiliano, Bertoldi Giacomo	Driver-based classification identifies snowmelt as the primary cause of severe droughts in the upper Adige basin

Agave/Perseide	35	Galli	Nikolas	Spoke 1 – VS1: Water	<u>Galli Nikolas</u> , Nanesha Harsh, Tolazzi Arianna, Chiarelli Davide Danilo, Rulli Maria Cristina	High-Resolution Agricultural Water Demand in Italy
Dione/Elettra	130	Gallo	Chiara	Spoke 5 – TS1: Urban and metropolitan settlements	<u>Gallo Chiara</u> , Afzal Waseem, Wani Haris Mohammad, Sergio Marianna, D'Amico Cinzia, Messuti Nicolino, Napoli Carmine,	ADHERA project Advanced Digital Heritage for Environmental and Resilient Architecture
Agave/Perseide	67	Gatto	Alessio	Spoke 7 – TS3: Communities' resilience to risks: social, economic, legal and cultural dimensions	<u>Gatto Alessio</u> , Intrieri Emanuele, Arrighi Chiara, Bianchini Silvia, Cardinali Vieri, Castelli Fabio, Centauro Irene, De Stefano Mario, Fiorucci Paolo, Marra Antonino Maria, Meschi Giorgio, Segoni Samuele, Trucchia Andrea	National-scale multi-risk mapping for cultural heritage protection in Italy
Foyer	13	Ghaderpour	Ebrahim	Spoke 2 – VS2: Ground Instabilities	<u>Ghaderpour Ebrahim</u> , Bozzano Francesca, Scarascia Mugnozza Gabriele, Mazzanti Paolo	Land subsidence monitoring via PS-InSAR time series in Industrial Areas
Dione/Elettra	158	Ghizzoni	Tatiana	Spoke 6 – TS2: Multi-Risk Resilience of Critical Infrastructures	<u>Ghizzoni Tatiana</u> , Trasforini Eva, Colavitto Bruno	Probabilistic Risk Assessment of isolated areas due to flood and forest fire events.
Agave/Perseide	65	Giacobbe	Maurizio	Spoke 7 – TS3: Communities' resilience to risks: social, economic, legal and cultural dimensions	diStefano Salvatore, PATEL UVESH MAHEBUB, <u>Giacobbe Maurizio</u> , Morey Nathalie	PigreCo: Breaking the Silos in Disaster Risk Governance Through Participatory Digital Platforms
Agave/Perseide	54	Girardi	Maria Teresa	Spoke 3 – VS3: Earthquake and volcanoes	<u>Leone Mattia Federico</u> , Perelli Francesca Linda, Girardi Maria Teresa, Nocerino Giovanni, Pallotta Alice, Nardone Stefano, De Gregorio Daniela, Zuccaro Giulio	Integrated Framework for Assessing and Designing Multi-Hazard Adaptation Strategies in Urban Environments
Dione/Elettra	103	Gobber	Simone	Spoke 4 – VS4: Environmental degradation	Michelotti Chiara, Puddu Riccardo, Villani Federico, Frisario Silvia, <u>Gobber Simone</u> , Piccapietra Luca, Russo Alessandra	Remediation guidelines for sustainable site valorization
Agave/Perseide	68	Golisano	Luca	Spoke 7 – TS3: Communities' resilience to risks: social, economic, legal and cultural dimensions	Golisano Luca	Delays in Planning and the Possible Contribution of Participation
Foyer	14	Grechi	Guglielmo	Spoke 2 – VS2: Ground Instabilities	<u>Grechi Guglielmo</u> , Marmoni G.M., Fiorucci M., Montagnese M., Bozzano F., Martino S.	The Acuto Field Laboratory: a permanent observatory for investigating preparatory factors of rock slope instability

Foyer	15	Gregori	Veronica	Spoke 2 – VS2: Ground Instabilities	<u>Gregori Veronica</u> , Grechi Guglielmo, Fiorucci Matteo, Colica Emanuele, D'Amico Sebastiano, Lenti Luca, Glinsky Nathalie, Martino Salvatore	Local Seismic Response in cavity areas as a predisposing condition for sinkhole triggering
Dione/Elettra	131	Griffo	Cristine	Spoke 5 – TS1: Urban and metropolitan settlements	<u>Griffo Cristine</u> , Pittore Massimiliano	Design and Validation of a Risk-Driven Ontology for Urban Systems in Complex and Multi-Stakeholder Domains
Dione/Elettra	105	Guarino	Annalise	Spoke 4 – VS4: Environmental degradation	<u>Guarino Annalise</u> , Iannone Antonio, De Falco Alessio, Albanese Stefano	Organochlorine Pesticides in the Sarno River Basin: Occurrence, Recency Assessment, and Human Health Risk
Dione/Elettra	132	Gusella	Federico	Spoke 5 – TS1: Urban and metropolitan settlements	<u>Gusella Federico</u> , Bartoli Gianni, Pintucchi Barbara	A simplified loss-based procedure for seismic risk mitigation at a territorial scale
Agave/Perseide	55	Herrmann	Marcus	Spoke 3 – VS3: Earthquake and volcanoes	<u>Herrmann Marcus</u> , Marzocchi Warner	Validating an ontological ensemble model for earthquake forecasting
Foyer	16	Hoorfar	Kaveh	Spoke 2 – VS2: Ground Instabilities	<u>Hoorfar Kaveh</u> , Salmona Paola, Ferrando Ilaria, Federici Bianca, Bovolenta Rossella	The influence of soil erosion on slope instability: multivariate statistical analysis for the assessment of landslide susceptibility
Dione/Elettra	126	Icardi	Fabio	Spoke 5 – TS1: Urban and metropolitan settlements	<u>Icardi Fabio</u> , Marolo Vittoria, Eynard Enrico	Heatmaps Visualization Tool (HVT): an integrated approach for mapping and analyzing Urban Heat Islands to support territorial planning
Agave/Perseide	86	La Loggia	Goffredo	Spoke 8 – DS: Science underpinning climate services for risk mitigation and adaptation	<u>La Loggia Goffredo</u> , Ciraulo Giuseppe, Galante Francesco	Datascan Activities & Tools
Agave/Perseide	47	La Mendola	Lidia	Spoke 3 – VS3: Earthquake and volcanoes	Colajanni Piero, D'Anna Jennifer, Granata Michelefabio, <u>La Mendola Lidia</u>	CEAR07/A UNIPA research activities in the VS3 Spoke-“Earthquake and volcanoes”

Agave/Perseide	36	Larcher	Michele	Spoke 1 – VS1: Water	<u>Michele Larcher</u> , Andrea Andreoli, Maurizio Righetti, Enrico Tomelleri, Ouiza Bouarour, Francesco Comiti, Marco Borga, Carlo Gregoretti, Nicola Surian, Marco Pilotti, Roberto Gaudio, Francesco Macchione, Maria Nicolina Papa, Pierluigi Furcolo, Giacomo Viccione, Luca Sarno, Renata Della Morte, Guido Benassai, Luca Cozzolino, Gian Battista Bischetti, Alessio Cislighi, Ivan Marchesin, Federica Fiorucci, Marco Donnini, Corrado Cencetti, Roberto Greco, Stefano Sibilla, Gabriella Petaccia, Mauro Fiorentino, Giuseppe Oliveto, Maria Rosa Margiotta, Silvano Fortunato Dal Sasso, Giuseppe Tito Aronica, Brunella Bonaccorso, Guido Zolezzi, Giorgio Rosatti, Annunziato Siviglia, Martina Bussetтини, Barbara	New Approaches for Assessing Hydraulic Hazard in Small Mountain Basins - bando a cascata RETURN-PB
Agave/Perseide	37	Lazzarin	Tommaso	Spoke 1 – VS1: Water	<u>Lazzarin Tommaso</u> , Domeneghetti Alessio, Vacondio Renato, Marani Marco, Viero Daniele P.	Advancing Probabilistic Flood Hazard Mapping in Levee-Protected Floodplains
Foyer	17	Leone	Guido	Spoke 2 – VS2: Ground Instabilities	<u>Leone Guido</u> , Cifaldi Daniele, Formato Christian, Revellino Paola, Focareta Mariano, Meisina Claudia, Bordoni Massimiliano, Rozzoni Alessio, Savi Sara, Cencetti Corrado, Francioni Mirko, Morelli Stefano, Sciarra Nicola	Characterization of the landslide-river interaction and evaluation of landslide dam susceptibility at the watershed scale
Foyer	18	Liso	Isabella Serena	Spoke 2 – VS2: Ground Instabilities	<u>Liso Isabella Serena</u> , Colacicco Rosa, Parise Mario, Lollino Piernicola	Analysis of Coastal Cliff Retreat at Melendugno (Apulia, Southern Italy)
Agave/Perseide	56	Lombardi	Flavio	Spoke 3 – VS3: Earthquake and volcanoes	<u>Lombardi Flavio</u> , Palladino Danilo M., Sottili Gianluca	Frequency-magnitude relationship of explosive volcanic activity reveals Milankovitch periodicities: insights from the <0.43 Ma Fucino tephra archive, central Italy
Dione/Elettra	159	Lombardo	Margherita	Spoke 6 – TS2: Multi-Risk Resilience of Critical Infrastructures	<u>Lombardo Margherita</u> , Costabile Pierfranco, Costanzo Carmen, Borgatti Lisa, Titti Giacomo, Evangelista Giulia, Claps Pierluigi	From Extreme Rainfall to Cascading Impacts: A Multi-Scenario Modelling Study on a steep slope Mediterranean Basin

Agave/Perseide	87	Marani	Marco	Spoke 8 – DS: Science underpinning climate services for risk mitigation and adaptation	Sanchez-Pena Arturo, Marra Francesco, <u>Marani Marco</u>	Estimates of Point Rainfall Extremes from Satellite Precipitation Products: Application and Testing in Northeastern Italy
Foyer	19	Marano	Simona	Spoke 2 – VS2: Ground Instabilities	<u>Marano Simona</u> , Grechi Guglielmo, Palombi Lorenzo, Rivellino Stefano, Bozzano Francesca, Di Martire Diego, Martino Salvatore	Integrated passive seismic and remote sensing approach as a tool to analyze the preparatory phase of landslides up to the triggering stage
Dione/Elettra	133	Marmo	Rossella	Spoke 5 – TS1: Urban and metropolitan settlements	Castelluccio Roberto, <u>Marmo Rossella</u> , Fraiese Mariacarla, Vitiello Veronica, Diana Lorenzo, Pugliese Francesco, Salzano Antonio, D'Auria Saverio, Zitiello Enrico Pasquale	Assessing the impacts of vulnerable building envelopes
Dione/Elettra	120	Martinazzo	Michele	Spoke 5 – TS1: Urban and metropolitan settlements	Brattich Erika, Maestri Tiziano, Faggi Andrea, <u>Martinazzo Michele</u> , Proietti Pelliccia Giorgia, Porcù Federico, Pittore Massimiliano, Polese Maria, WP5.2 Team RETURN	Data-Driven Frameworks for Urban Risk Understanding, Prevision and Mitigation
Dione/Elettra	134	Martinazzo	Michele	Spoke 5 – TS1: Urban and metropolitan settlements	<u>Martinazzo Michele</u> , Maestri Tiziano, Proietti Pelliccia Giorgia, Brattich Erika, Faggi Andrea	Optimized Retrieval Pipeline for Aerosol Monitoring Using Ground-Based Infrared Interferometry
Agave/Perseide	57	Marzo	Anna	Spoke 3 – VS3: Earthquake and volcanoes	Aversa Patrizia, Iovinella Ivano, Luprano Vincenza A.M., <u>Marzo Anna</u> , Mazzei Saverio, Roselli Ivan, Saitta Fernando, Tati Angelo, Tripepi Concetta	Experimental Investigations on Full Scale Typical Italian Infill Walls
Agave/Perseide	69	Massa	Alessandra	Spoke 7 – TS3: Communities' resilience to risks: social, economic, legal and cultural dimensions	Comunello Francesca, <u>Massa Alessandra</u> , Monopoli Mario, Scorsino Andrea, Cerase Andrea, Pisu Daniela, Cois Ester	Integrating Generative AI into Risk Communication: Framing, Credibility, and Civic Awareness
Dione/Elettra	135	Mauriello	Marzia	Spoke 5 – TS1: Urban and metropolitan settlements	Cicatiello Lorenzo, Gaeta Giuseppe Lucio, Guadagno Eleonora, <u>Mauriello Marzia</u>	Perceiving Risksapes. A Multimethodological Approach to Urban Climate Challenges
Dione/Elettra	160	Mazzoglio	Paola	Spoke 6 – TS2: Multi-Risk Resilience of Critical Infrastructures	<u>Mazzoglio Paola</u> , Evangelista Giulia, Ganora Daniele, Bogoni Pietro, Claps Pierluigi	Datasets and tools for hydrological hazard assessments on infrastructure across Italy
Foyer	20	Meisina	Claudia	Spoke 2 – VS2: Ground Instabilities	Rozzoni Alessio, Savi Sara, Torrese Patrizio, Bordoni Massimiliano, Zucca Francesco, <u>Meisina Claudia</u> , Cencetti Corrado, Francioni Mirko, Revellino Paola, Leone Guido, Cifaldi Daniele, Formato Christian, Sciarra Nicola, Focareta Mariano	An integrated susceptibility–runout model to assess stream reaches potentially prone to landslide dam

Agave/Perseide	88	Meli	Matteo	Spoke 8 – DS: Science underpinning climate services for risk mitigation and adaptation	<u>Meli Matteo</u> , Marcaccio Marco, Mazzei Marianna, Vecchi Enrica, Antonellini Marco, Giambastiani Beatrice Maria Sole, Romagnoli Claudia	Sea-Level Change as an Indicator of Coastal Processes
Dione/Elettra	161	Melillo	Massimo	Spoke 6 – TS2: Multi-Risk Resilience of Critical Infrastructures	<u>Melillo Massimo</u> , Gariano Stefano Luigi, Brunetti Maria Teresa, Peruccacci Silvia, Mondini Alessandro Cesare, Marchesini Ivan, Rossi Mauro, Ciabatta Luca, Iovine Giulio, Clerissi Frida	PROFIT: Previsione pRObabilistica dell'occorrenza di Frane indotte dalle piogge in Italia
Dione/Elettra	136	Meneghin	Giulia	Spoke 5 – TS1: Urban and metropolitan settlements	<u>Meneghin Giulia</u> , Scanferla Petra, Di Carlo Giorgia, Sellitri Antonio, Frisario Silvia Anna	Framework for an integrated assessment of sustainability and circularity in remediation of contaminated sites
Agave/Perseide	38	Merlo	Martina	Spoke 1 – VS1: Water	<u>Merlo Martina</u> , Giuliani Matteo, Castelletti Andrea	Advancing the detection of multi-sector drought impacts via feature extraction and multi-task learning
Agave/Perseide	89	Michetti	Melania	Spoke 8 – DS: Science underpinning climate services for risk mitigation and adaptation	<u>Michetti Melania</u> , D'Angelo Alexandra, Capano Gilberto, Struglia Maria Vittoria	Global Review of Socio-Cognitive and Environmental Obstacles to Climate Adaptation
Agave/Perseide	39	Michielotto	Alessandro	Spoke 1 – VS1: Water	<u>Michielotto Alessandro</u> , Finotello Alvise, D'Alpaos Andrea	Trade-offs between flood protection and ecosystem resilience: insights from the Venice Lagoon, Italy
Agave/Perseide	70	Milani	Alessandro	Spoke 7 – TS3: Communities' resilience to risks: social, economic, legal and cultural dimensions	<u>Milani Alessandro</u> , Cataldi Silvia, Chiozza Valeria, Comunello Francesca, Massa Alessandra, Sarrecchia Annalisa, Talamo Alessandra, Theodorou Annalisa, Xie Mei, Bonaiuto Marino	The Impact of Media Communication on Risk Perception of Natural Hazards: A Systematic Review and Meta-Analysis
Dione/Elettra	123	Miraglia	Vittorio	Spoke 5 – TS1: Urban and metropolitan settlements	D'Ambrosio Valeria, Di Martino Federdinando, Clemente Maria Fabrizia, <u>Miraglia Vittorio</u> , Santomartino Giuseppina, Tersigni Enza, Verde Sara, Losasso Mario, Cozzolino Luca, Napolano Nathalia, Varra Giada, Della Morte Renata	Integrating Multi-Hazard Impacts in Urban Areas: A What-if Scenario-Based Approach for Climate-Resilient Urban Design
Agave/Perseide	71	Molinari	Daniela	Spoke 7 – TS3: Communities' resilience to risks: social, economic, legal and cultural dimensions	Ottonelli Daria, <u>Molinari Daniela</u> , Asaridis Panagiotis, Balingit Anna Rita, Bastiani Tommaso, Bindi Marco, Boni Maria Pia, Bosone Martina, Castelli Fabio, Cetara Luca, Corradi Emilia, De Toro Pasquale, Fontanella Pisa Paola, Frattari Camillo,	Participatory approaches to integrate stakeholders' values in the MCA evaluation of risk mitigation measures

Agave/Perseide	72	Morando	Marina	Spoke 7 – TS3: Communities' resilience to risks: social, economic, legal and cultural dimensions	Giambelli Marta, Franciosi, Fraschini Filippo, <u>Morando Marina</u>	Citizen participation in Civil Protection Planning (CPP): a self-assessment tool
Agave/Perseide	74	Morey	Nathalie	Spoke 7 – TS3: Communities' resilience to risks: social, economic, legal and cultural dimensions	<u>Morey Nathalie</u> , Shimelis Taddese Henok, Mahebab Patel Uvesh, Martello Giampiero, Garo Luca, Distefano Salvatore, Marchese Salvatore	PIGRECO: a tool for assessing risk mitigation alternatives in a multi-scale, multi-risk context
Dione/Elettra	106	Mzid	Nada	Spoke 4 – VS4: Environmental degradation	<u>Mzid Nada</u> , Terribile Fabio	Advancing Soil Properties Prediction in Volcanic Sites through Chemometric Optimization of Midinfrared Spectra
Foyer	21	Narcisi	Roberta	Spoke 2 – VS2: Ground Instabilities	<u>Narcisi Roberta</u> , Vagnon Federico, Taddia Glenda	A data-driven model for investigating slow-moving landslides from a hydrogeological perspective: the role of mountain springs
Agave/Perseide	58	Nocerino	Giovanni	Spoke 3 – VS3: Earthquake and volcanoes	<u>Nocerino Giovanni</u> , Lancia Daniele, Tedesco Sara, Ghandi Hossein, Leone Mattia Federico, Pone Sergio, Zuccaro Giulio	Integrated Computational Workflow for Multi-Hazard timber structures: Performance-Based Design and digital prototype fabrication
Dione/Elettra	162	Oddo	Maria Concetta	Spoke 6 – TS2: Multi-Risk Resilience of Critical Infrastructures	<u>Oddo Maria Concetta</u> , Amato Anthea, Cavaleri Liborio, Pantano Antonio, Costanza Marco, Tucciarelli Tullio	Resilient infrastructures for wind energy production
Dione/Elettra	163	Oddo	Maria Concetta	Spoke 6 – TS2: Multi-Risk Resilience of Critical Infrastructures	<u>Oddo Maria Concetta</u> , Amato Anthea, Cavaleri Liborio	Mitigating combined earthquake-tsunami vulnerability of infrastructures
Agave/Perseide	59	Ongaro	Malvina	Spoke 3 – VS3: Earthquake and volcanoes	<u>Ongaro Malvina</u> , Panagiotis Asaridis, Balingit Anna Rita, Bastiano Tommaso, Bindi Marco, Boni Maria Pia, Bosone Martina, Castelli Fabio, Cetara Luca, Corradi Emilia, De Toro Pasquale, Fontanella Pisa Paola, Frattali Camillo, Franschini Filippo, Molinari Daniela, Muratori Simona, Ottonelli Daria, Padovan Gloria, petrini Lorenza, Romagnoli	A comprehensive framework for the inclusion of uncertainty in Multi-Criteria Analysis
Agave/Perseide	60	Pace	Letizia	Spoke 3 – VS3: Earthquake and volcanoes	<u>Pace Letizia</u> , Capolongo Domenico, Capparelli Giovanna, Dellino Pierfrancesco, Dioguardi Fabio, Gentile Luigi, Lacalamita Maria, Sulpizio Roberto	Influence of Soil Moisture on Shear Strength and Slope Stability in Volcanic Ash Deposits from Sarno (Campanian Volcanism Region, Italy)
Dione/Elettra	107	Pagliaccia	Benedetta	Spoke 4 – VS4: Environmental degradation	<u>Pagliaccia Benedetta</u> , Gori Riccardo, Lubello Claudio	Occurrence, fate and removal of microplastics in wastewater treatment plants

Agave/Perseide	40	Palcic	Giulio	Spoke 1 – VS1: Water	<u>Palcic Giulio</u> , Giuliani Matteo, Ehbrecht Carsten, Hempelmann Nils, Ascenso Guido, Castelletti Andrea	Albatross: A Scalable Climate Service for Seasonal Precipitation and Inflow Forecasting
Dione/Elettra	102	Paramasiva m	Santhosh	Spoke 4 – VS4: Environmental degradation	Gatto Gianluca, <u>Paramasivam Santhosh</u> , Medda Ricardo, Losito Michele, Kumar Amit	Design and Implementation of an Energy-Harvesting Sensor Network for Urban Environmental Monitoring
Dione/Elettra	137	Pasetti	Stefania	Spoke 5 – TS1: Urban and metropolitan settlements	Folegani Marco, <u>Pasetti Stefania</u> , Fazzini Noemi, Maurizio Sara	VICARIUS Visual Integration for Climate Analysis of Risks and Impacts in Urban Systems
Dione/Elettra	164	Pedone	Livio	Spoke 6 – TS2: Multi-Risk Resilience of Critical Infrastructures	<u>Pedone Livio</u> , Di Criscio Federica, Pampanin Stefano	Predictive Maintenance Methods for Reinforced Concrete and Prestressed Concrete Bridges
Dione/Elettra	138	Pennino	Ilaria	Spoke 5 – TS1: Urban and metropolitan settlements	<u>Pennino Ilaria</u> , Boella Michele, Matarrese Eugenio, Delogu Francesco, Gagliardi Valerio, Benedetto Andrea	SENSE-MAP: SENSor-based monitoring of ComplEx Areas and Advanced MAPping of Coastline, Environment, and Urban Areas
Agave/Perseide	61	Perinelli	Cristina	Spoke 3 – VS3: Earthquake and volcanoes	<u>Perinelli Cristina</u> , Gaeta Mario, Pavese Raffaella, Palladino Danilo M.	Experimental study of magmatic systems under high P-T conditions, with variable volatile contents and open-system rock interactions: implications for pre-eruptive processes in natural volcanoes
Agave/Perseide	92	Pichelli	Emanuela	Spoke 8 – DS: Science underpinning climate services for risk mitigation and adaptation	Antonelli Marta, <u>Pichelli Emanuela</u> , Struglia Maria Vittoria	Convection Permitting climate simulations over Italy
Foyer	22	Pieraccini	Massimiliano	Spoke 2 – VS2: Ground Instabilities	<u>Pieraccini Massimiliano</u> , Pagnini Lorenzo, Bigazzi Luca, Lapo Miccinesi, Beni Alessandra, Cioncolini Andrea	Synthetic aperture radar aboard UAS for detecting and monitoring ground instabilities
Dione/Elettra	139	Piro	Patrizia	Spoke 5 – TS1: Urban and metropolitan settlements	<u>Piro Patrizia</u> , Albano Raffaele, Aronica Giuseppe Tito, Campisano Alberto, Creaco Enrico, Delle Morte Renata, Gisonni Corrado, Grossi Giovanna, Petroselli Andrea, Roman Federico	Nature-based Solutions to enhance urban hydraulic resilience and mitigate climate change impacts: the SUNRISE Project

Agave/Perseide	90	Pisacane	Giovanna	Spoke 8 – DS: Science underpinning climate services for risk mitigation and adaptation	Rotella Vincenzo, Cozzuto Giovanni, <u>Pisacane Giovanna</u> , Falconi Luca, dell' Aquila Alessandro, Struglia Maria Vittoria	Advancing climate change resilience for strategic infrastructures: extreme temperatures indicators to estimate intensity-frequency-duration curves
Foyer	23	Poneti	Giovanni	Spoke 2 – VS2: Ground Instabilities	<u>Poneti Giovanni</u> , Liso Isabella Serena, Tufano Rita, Scacchia Elena, Colacicco Rosa, Lo Presti Valeria, Bausilio Giuseppe, Massaro Silvia, Neglia Francesco, Scardino Giovanni, Zaniboni Filippo, Di Napoli Mariano, Laurenti Alberto, Calcaterra Domenico, Ceramicola Silvia, Chiocci Francesco Latino, Dellino Pierfrancesco, Parise Mario, Sulli Attilio, Martino Salvatore	Development of a Virtual Testbed for the Italian Territory: Proof of Concept for Multi-Hazard Impact scenarios and National Resilience Evaluation
Agave/Perseide	41	Porru	Maria Chiara	Spoke 1 – VS1: Water	<u>Porru Maria Chiara</u> , Vignoli Giulio, Da Pelo Stefania	Integrated coastal groundwater resource management: Hydrogeological modeling and early warning systems for saltwater intrusion mitigation
Dione/Elettra	104	Puddi	Riccardo	Spoke 4 – VS4: Environmental degradation	Michelotti Chiara, <u>Puddu Riccardo</u> , Villani Federico, Frisario Silvia, Gambino Carla, Pappa Rosaria Scotti Samuele, Lucadamo Donato, Russo Alessandra, Mastacchini Lucia	Analysis of the current context of waste management in Italy
Dione/Elettra	140	Puzone	Sabrina	Spoke 5 – TS1: Urban and metropolitan settlements	<u>Puzone Sabrina</u> , D'Ambrosio Valeria, Di Martino Ferdinando, Maria Fabrizia Clemente, Miraglia Vittorio, Lagomarsino Sergio, Cattari Serena, Rago Margherita	Multi-risk analysis for assessing building vulnerability to support resilient city simulation test
Dione/Elettra	109	Quatrini	Paola	Spoke 4 – VS4: Environmental degradation	Catania Valentina, Sciré Calabrisotto Laura, <u>Quatrini Paola</u>	Immobilized biodegrading bacteria for enhanced bioremediation
Dione/Elettra	110	Reale	Marco	Spoke 4 – VS4: Environmental degradation	<u>Reale Marco</u> , Piani Stefano, Raffaele Francesca, Vargas-Heinz Luiza, Giordano Fabio, Coppola Erika, Querin Stefano, Salon Stefano, Solidoro Cosimo, Lazzari Paolo	High-resolution climate and biogeochemical projections for the Northern Adriatic Sea (proof of concept of Return DS8) by using the coupled ocean-biogeochemical model MITgcm-BFM
Dione/Elettra	111	Regoli	Francesco	Spoke 4 – VS4: Environmental degradation	d'Errico Giuseppe, Benedetti Maura, Nardi Alessandro, <u>Regoli Francesco</u>	NEWERA – iNnovative approachEs and Weight of Evidence elaboration for environmental Risk Assessment
Dione/Elettra	165	Ridolfi	Elena	Spoke 6 – TS2: Multi-Risk Resilience of Critical Infrastructures	<u>Ridolfi Elena</u> , Moccia Benedetta, de Ruiter Marleen, Sakic Trogrlic Robert, Ascani Andrea, Alessi Roberto, Russo Fabio, Napolitano Francesco	Learning from infrastructure failures caused by water-related hazards to enhance risk mitigation

Agave/Perseide	75	Rinaldi	Anna	Spoke 7 – TS3: Communities' resilience to risks: social, economic, legal and cultural dimensions	Charness Gary, Caporale Diana, <u>Rinaldi Anna</u>	Vulnerability Game
Dione/Elettra	112	Rizzo	Angela	Spoke 4 – VS4: Environmental degradation	<u>Rizzo Angela</u> , Canu Donata, Libralato Simone, Rosati Ginevra, Laurent Celia, Fianchini Marco, Petronio Antonio, Solidoro Cosimo, Saidi Amira, Zunino Serena, De Santis Vincenzo, Marsico Antonella, Mastronuzzi Giuseppe, Lisco Stefania, Liso Isabella Serena, Parise Mario, Scardino Giovanni, Cincinelli Alessandra, Colzi Ilaria, Falsini Sara, Gonnelli Cristina, Papini Alessio, Sforzi Laura, Capello Marco, Cutroneo Laura, Vercelli Sarah, Piazzese Daniela, Ciraolo Giuseppe, Corbari Laura, Bonifazi Giuseppe, Capobianco Giuseppe, Cocozza Pietro, Gorga Eleonora, Serranti	Contaminants and plastics fate in coastal and marine areas
Agave/Perseide	76	Romagnoli	Federica	Spoke 7 – TS3: Communities' resilience to risks: social, economic, legal and cultural dimensions	Fontanella Pisa Paola, <u>Romagnoli Federica</u> , Mioni Chiara, Oberti Benedetta, Lavarello Schettini Romina	From Heritage to Resilience: Operationalizing Multi-Risk Assessment for Cultural Heritage in Mountain Communities
Dione/Elettra	113	Rosati	Ginevra	Spoke 4 – VS4: Environmental degradation	<u>Rosati Ginevra</u> , Laurent Celia, Fianchini Marco, Zunino Serena, Solidoro Cosimo, Saidi Amira, Buccino Gaia, Petronio Andrea, Canu Donata	Assessing Pollution and Environmental Risk in the Adriatic Sea through Multi-Hazard Modelling
Agave/Perseide	91	Ruscitto	Valeria	Spoke 8 – DS: Science underpinning climate services for risk mitigation and adaptation	<u>Ruscitto Valeria</u> , Delchiaro Michele, Della Seta Marta, Piacentini Daniela, Iacobucci Giulia, Troiani Francesco	Linking geomorphology and climate services for the assessment of climate impact indicators: new approaches through the PNRR RETURN initiative

Dione/Elettra	148	Saler	Elisa	Spoke 6 – TS2: Multi-Risk Resilience of Critical Infrastructures	da Porto Francesca, Badin Luca, <u>Saler Elisa</u> , Gennaro Andrea, Donà Marco, Rosi Ascanio, Viero Daniele, Gregoretti Carlo, Giannini Leonardo Maria, Rollo Fabio, Esposito Carlo, Di Martire Diego, Coda Silvio, La Porta Giulia, Pirulli Marina, Giordano Pierfrancesco, Liuzzo Riccardo, Limongelli Maria Giuseppina	Natural disaster scenarios along an Alpine roadway network
Agave/Perseide	42	Sarno	Luca	Spoke 1 – VS1: Water	Pai Pei-Hsin, <u>Sarno Luca</u> , Tai Yih-Chin, Kan Heng-Chuan	An Adaptive Refinement Neural Particle Method with the $\mu(I)$ -rheology for describing the dynamics of granular materials
Agave/Perseide	77	Sarrecchia	Annalisa	Spoke 7 – TS3: Communities' resilience to risks: social, economic, legal and cultural dimensions	<u>Sarrecchia Annalisa</u> , Ariccio Silvia, Cataldi Silvia, Chiozza Valeria, Milani Alessandro, Talamo Alessandra, Theodorou Annalisa, Xie Mei, Bonaiuto Marino	Strengthening Resilience to Natural Hazards: The SARA Model of Social-Psychological Resources
Dione/Elettra	114	Scardino	Giovanni	Spoke 4 – VS4: Environmental degradation	<u>Scardino Giovanni</u> , Rizzo Angela, Lisco Stefania, Sasso Corrado, Fracchiolla Teresa, De Santis Vincenzo, Marsico Antonella, Liso Serena Isabella, Parise Mario, Mastronuzzi Giuseppe	Cutting-Edge Models to Monitor Floating Plastic Debris Along Apulian Coasts
Foyer	24	Sciarra	Nicola	Spoke 2 – VS2: Ground Instabilities	<u>Sciarra Nicola</u> , Mangifesta Massimo, Cencetti Corrado, Francioni Mirko, Morelli Stefano, Revellino Paola, Meisina Claudia, Focareta Mariano	Localized Hydraulic Impact and River Management Capacity: A LiDAR-Based and HEC-RAS Study on the Morino-Rendinara Debris Flow and the Obstruction of the Liri River

Agave/Perseide	43	Senatore	Alfonso	Spoke 1 – VS1: Water	Mendicino Giuseppe, <u>Senatore Alfonso</u> , Furnari Luca, Iacobellis Vito, Gioia Andrea, Malcangio Daniela, Totaro Vincenzo, Fiorentino Mauro, Telesca Vito, Dal Sasso Silvano F., Aung Htay, Pizzolla Teresa, Margiotta Maria Rosaria, Cancelliere Antonino, Campisano Alberto, Peres David J, Palazzolo Nunziarita, Bonaccorso Brunella, Aronica Giuseppe T., Chummac Adrian, Lahkim-Bennani Amine, Villani Paolo, Longobardi Antonia,	Water Management Strategies and Climate Change Adaptation in Southern Italy
Dione/Elettra	141	Sferratore	Antonio	Spoke 5 – TS1: Urban and metropolitan settlements	<u>Sferratore Antonio</u> , Miraglia Vittorio, Clemente Maria Fabrizia, D'Ambrosio Valeria, Di Martino Ferdinando, Losasso	Integrated taxonomies and Local Climate Zones for urban settlements knowledge in multi-risk scenarios
Agave/Perseide	78	Shanko	Alemayehu Dula	Spoke 7 – TS3: Communities' resilience to risks: social, economic, legal and cultural dimensions	<u>Shanko Alemayehu Dula</u> , Castelli Fabio	Scenario Analysis of Flood Resilience Using System Dynamics Modelling: The Case of Florence
Agave/Perseide	93	Struglia	Maria Vittoria	Spoke 8 – DS: Science underpinning climate services for risk mitigation and adaptation	Antonelli Marta, Calmanti Sandro, Catalano Franco, Pisacane Giovanna, Paris Lorenzo, Michetti Melania, Sannino Gianmaria, <u>Struglia Maria Vittoria</u>	Climate change information for regional impact on Italy
Dione/Elettra	115	Taccaliti	Flavio	Spoke 4 – VS4: Environmental degradation	<u>Taccaliti Flavio</u> , Mauri Luca, Atzeni Francesco, Marangon Davide, Lingua Emanuele	Compound forest disturbances and drivers of forest recovery
Agave/Perseide	62	Totaro	Federica	Spoke 3 – VS3: Earthquake and volcanoes	<u>Totaro Federica</u> , Di Donato Valentino, Petrosino Paola	Marine tephrostratigraphic insights into eruptive clustering and hazard recurrence in the Campania volcanic province (Italy)
Agave/Perseide	44	Trogu	Daniele	Spoke 1 – VS1: Water	<u>Trogu Daniele</u> , Usai Antonio, Porta Marco, Simeone Simone, Demuro Sandro	An integrated study of coastal morphodynamics and the resilience of microtidal beaches to natural and anthropogenic forces
Dione/Elettra	142	Vendemmia	Bruna	Spoke 5 – TS1: Urban and metropolitan settlements	Vingelli Federica, Bosone Martina, <u>Vendemmia Bruna</u> , Palestino Maria Federica	Non-Economic Loss and Damage in Urban Regeneration Processes in Multi-Risk Contexts: The Case of the Bagnoli-Coroglio SIN Area
Dione/Elettra	143	Verde	Sara	Spoke 5 – TS1: Urban and metropolitan settlements	<u>Verde Sara</u> , D'Ambrosio Valeria, Losasso Mario	Mapping Urban Hotspot for Climate Adaptation Design: a Workflow for Heatwave and Pluvial Flooding Impacts Assessment

Dione/Elettra	166	Vianello	Chiara	Spoke 6 – TS2: Multi-Risk Resilience of Critical Infrastructures	<u>Vianello Chiara</u> , Barresi Antonello, Demichela Micaela, Castro Rodriguez David Javier, Da Porto Francesca, Dona Marco, Saler Elisa, Di Benedetto Almerinda, Ricci Federica, Busini Valentina	An Integrated Multidisciplinary Framework for NaTech Multi-Risk Assessment in Energy and Process Infrastructures
Agave/Perseide	94	Viganò	Allyson	Spoke 8 – DS: Science underpinning climate services for risk mitigation and adaptation	<u>Viganò Allyson</u> , Agnini Claudia	Laser microdissection protocol for high-precision isolation of monospecific calcareous nannofossils
Dione/Elettra	144	Visconti	Cristina	Spoke 5 – TS1: Urban and metropolitan settlements	<u>Visconti Cristina</u> , Bosone Martina, Verde Sara, Galasso Pasquale, De Toro Pasquale, Losasso Mario	Urban Systemic Vulnerability framework: Integrating Indicator-based Assessment and GIS-Spatial Analysis
Dione/Elettra	122	Vitulano	Valeria	Spoke 5 – TS1: Urban and metropolitan settlements	Ilaria Cazzola, Benedetta Giudice, <u>Valeria Vitulano</u> , Angioletta Voghera	Spatial Indicators for Urban Resilience Evaluation
Agave/Perseide	95	Zampieri	Carlo	Spoke 8 – DS: Science underpinning climate services for risk mitigation and adaptation	<u>Zampieri Carlo</u> , Barausse Alberto	Modelling the dynamics of the invasive blue crab (<i>Callinectes sapidus</i>) in a Mediterranean coastal area to evaluate management actions for reducing impacts on local economy
Dione/Elettra	150	Zingali	Lorenzo	Spoke 6 – TS2: Multi-Risk Resilience of Critical Infrastructures	<u>Zingali Lorenzo</u> Carmelo, Lombardini Alessandro, Bragalli Cristiana	Proof of Concept of Parma: deterioration modeling and vulnerability assessment of water distribution infrastructures
Dione/Elettra	145	Zoppi	Corrado	Spoke 5 – TS1: Urban and metropolitan settlements	Lai Sabrina, Leone Federica, <u>Zoppi Corrado</u>	Strategic environmental assessment and climate change adaptation
Dione/Elettra	168	Zorzi	Stefano	Spoke 6 – TS2: Multi-Risk Resilience of Critical Infrastructures	<u>Zonta Daniele</u> , Zorzi Stefano, Broccardo Marco	Monitoring Thresholds based on Expected Utility Theory