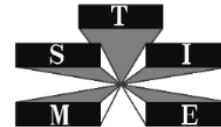


TIEMS STATUS, PRESENT ACTIVITIES and FUTURE PLANS



by

K. Harald Drager, TIEMS President



TIEMS STATUS

TIEMS 28th Annual Conference Reporting



Time of Day	Monday 6 th December	Tuesday 7 th December	Wednesday 8 th December	Thursday 9 th December	Friday 10 th December
10:00 - 11:25	Opening and Welcome	Session 4 Emergency Management Technology	Session 7 Preparedness, Response and Resilience	Session 11 Introduction to IMPETUS	Session 15 COVID19 Modelling and Opportunities
Coffee/Tea/Water Break					
11:45 - 13:00	Session 1 Fire Disaster Prevention	TIEMS 2021 AGM	Session 8 Ethics, Resilience and Awareness	Session 12 IMPETUS Presentations	Session 16 Environment, Trauma and International Crisis
Lunch Break					
14:00 - 15:15	Session 2 COVID19 Lessons Learned	Session 5 Decision Support	Session 9 Public Service and Education	Session 13 IMPETUS Presentations	Session 17 Urban and Public Safety Introduction of TIEMS 2022 Conference Conclusions
Coffee/Tea/Water Break					
15:35 - 17:00	Session 3 Public Emergency Communication	Session 6 Resilience	Session 10 Panel on International Certifications in Emergency Management	Session 14 IMPETUS Presentations	End of Conference
End of Day					

There were 786 viewers at the conference from 47 countries
Videos of all sessions are on TIEMS web-site, Proceedings are coming

TIEMS STATUS

This is TIEMS 28th Annual
Conference



TIEMS arranged its first annual conference in Fort Lauderdale, USA in 1994, and have since then moved the conference venue around the world.

Sofia Antipolis France 1995	Montreal Canada 1996	Copenhagen Denmark 1997	Washington USA 1998	Delft Netherlands 1999	Orlando USA 2000
Oslo Norway 2001	Waterloo Canada 2002	Sofia Antipolis France 2003	Melbourne Australia 2004	Thorshavn Faroe Islands 2005	Seoul Korea 2006
Trogir Croatia 2007	Prague Czech Republic 2008	Istanbul Turkey 2009	Beijing China 2010	Bucharest Romania 2011	Erbil Iraq 2012
Marseilles France 2013	Niigata Japan 2014	Rome Italy 2015	San Diego USA 2016	Kiev Ukraine 2017	Manila Philippines 2018
Seoul Korea 2019	Paris (On ZOOM) France 2020	Paris (On ZOOM) France 2021	USA 2022	South Africa 2023	India 2024
Costa Rica 2025					

TIEMS STATUS

Think Globally and Act Locally

TIEMS has 16 Chapters



<i>ROMANIA</i>	<i>BE/NE/LUX</i>	<i>CHINA</i>	<i>SOUTH KOREA</i>
<i>INDIA</i>	<i>USA</i>	<i>MENA</i>	<i>FINLAND</i>
<i>IRAQ</i>	<i>JAPAN</i>	<i>ITALY</i>	<i>NWA</i>
<i>PHILIPPINES</i>	<i>FRANCE</i>	<i>SOUTH AFRICA</i>	<i>AUSTRALIA</i>



12 Directors from 10 countries

TIEMS STATUS

TIEMS Board of Directors



TIEMS 2022 Board of Directors



K. Harald Drager
President
(Norway)



Snjezana Knezic
Acting Vice President
(Croatia)



Kyle King
Treasurer
(USA)



Jaroslav Pejcoch
*Secretary & Chair
of Advisory Board*
(Czech Republic)



Gregory Swick
*Director Membership
& Chapters*
(USA)



Snjezana Knezic
*Director of
RDT Activity*
(Croatia)

Regional Directors



Jean-Paul Monet
Europe
(France)



Thomas Robertson
North America
(USA)



Roman Tandlich
Africa
(South Africa)



Desiree Beekharry
*Australia & New
Zealand & Oceania*
(Australia)



Vinod C. Menon
Asia
(India)



Alonso Brenes Torres
*Latin America &
Caribbean (LAC)*
(Costa Rica)








TIEMS STATUS

TIEMS Advisory Board



8 Officers from 7 countries

TIEMS 2022 Officers

				
<p>Meen Chhetri <i>Chair Paper Review Committee</i> (Nepal)</p>	<p>Kelly – Anne Frith <i>Regular Newsletter Editor</i> (South Africa)</p>	<p>Alex Fullick <i>Special Edition Newsletter Editor</i> (Canada)</p>	<p>Wenlong Yang <i>TIEMS Asia Secretariat Officer</i> (China)</p>	<p>Sandro Bologna <i>Chair of International Program Committee</i> (Italy)</p>
				
	<p>Chen Ran <i>TIEMS Emergency Medicine Committee (TEMC) Director</i> (China)</p>	<p>George Markowsky <i>TIEMS 2022 Annual Conference Host</i> (USA)</p>		

TIEMS STATUS

TIEMS International Group of Experts (TIGE)



TIEMS International Group of Experts (TIGE) 2021

(104 Members from 22 Countries, comprising TIEMS Directors, TIEMS Officers, Board members of TIEMS Chapters and TQC Charter Members)

TIEMS UNIT	NO	NAME	COUNTRY	POSITION	TIEMS UNIT	FIELDS OF EXPERTISE
TIEMS Board of Directors	1.	K. Harald Drager	Norway	President	TIEMS Board of Directors	International organizational development, emergency, disaster and risk management and project management
	2.	Snjezana Knezic	Croatia	Acting Vice President Director TIEMS Research and Technical Development TIEMS Proceedings Editor in Chief	TIEMS Board of Directors	Disaster management (theory and implementation); Consequences of climate change processes; Flood management; Forest fires; Risk assessment; Critical infrastructure (NOT ICT, but transportation, water supply and similar systems); Decision support systems and Information systems design for disaster and emergency management; Some aspects of business continuity related to decision making processes
	3.	Jaroslav Pejcoch	Czech Republic	Secretary and Chair of TIEMS Advisory Board	TIEMS Board of Directors	Information systems for disaster management, Training and simulation. Risk Analysis, Information sharing and distribution. Critical Infrastructure Protection. Exercising Methods and Tools. Information @ Communications in Disasters. Information Security in Disasters.
	4.	Ji (Jack) Zhang	China	Treasurer Vice President	TIEMS Board of Directors China Chapter Board	IOT and Big-data applications in risk management and infrastructure protection; 3D simulation online emergency training systems; Risk management and early warning IT solution provider.
	5.	Gregory Swick	USA	Director TIEMS Chapters & Membership	TIEMS Board of Directors	Project planning and management. Complex hardware and software development. System engineering process / design reviews, EVMS, tech baseline, change management, acceptance.
	6.	Jean- Paul Monet	France	Regional Director Europe	TIEMS Board of Directors	Incident command CBRNe Robotics Industrial risks

TIEMS STATUS

TIEMS Membership



Total of ab. 3000 Members Including all Memberships

STANDARD MEMBER

PROFESSIONAL CERTIFIED MEMBER

STUDENT MEMBER

INSTITUTIONAL MEMBER

LOCAL CHAPTER MEMBER

HONORARY MEMBER

TIEMS 2021 Member Benefits

As a member of TIEMS, you are part of an international community of leaders and practitioners in emergency management, with diverse backgrounds in engineering, science, government, academics, military, and industry - working together to make the world a safer place. Membership affords unique opportunities to Learn, Serve, and Network.

Learn

From the multi-disciplinary, multi-national TIEMS community, and through special TIEMS programs

Serve

By helping TIEMS in its mission to reduce the impacts of disasters and emergencies worldwide, among others through research projects

Network

With local and international colleagues to develop valued personal and professional relationships, and enhanced opportunities



TIEMS ACTIVITIES

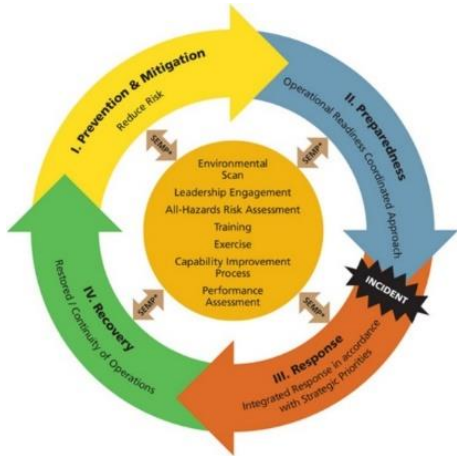
TIEMS Focus on Cultural Differences to be Understood and Included in the Society's Events, Education and Research Programs with four Main Activities



- International Conferences and Workshops
- Webinars
- RTD Projects
- International Certifications TQC & TQAC

TIEMS - CBI(*) WEBINARS

Countries and Systems Presented in 2021



TIEMS TQC/TQAC Certification, NATO, India, Czech Republic, China, COVID 19, Finland, France, Australia, United Kingdom, Bulgaria, Thailand, Kosovo, PDC, South Africa, Norway, IMPETUS Project, Medical Intelligence in Emergency Management, Future of Emergency Management¹⁾, Anticipating a Resilient Future¹⁾, Recovery and Renewal¹⁾
Last one in 2021 was about CDRI²⁾

Participation has been amazing with over with **1,837 attendees** from **74 countries** in the event series.

* CBI = Capacity Building International ¹⁾ In cooperation with Manchester University ²⁾ Coalition for Disaster Resilient Infrastructure

TIEMS Research Projects

1. [NARTUS](#) (2006 – 2009) – 4 Years – EU’s 6th Framework Program
2. [ASSET](#) (2013 – 2016) – 4 Years – EU’s 7th Framework Program
3. [HERACLES](#) (2016 – 2019) – 3 Years – Horizon 2020
4. [DG ECHO HUB of Wildfire Expertise](#) (2019 – 2020) – 1 Year - Tender
5. [World Bank Study of Civil Protection Worldwide](#) – 2017 – 2019 - Voluntary
6. [TIEMS International Certifications – TQC & TQAC](#) (TIEMS Project) – Own financed. Launched in the Market in 2020
7. [IMPETUS](#) (2020 – 2023) – 2,5 Years - EU Horizon 2020
8. [FIRELOGUE](#) (2021 – 2025) – 4 Years – EU Horizon 2020
9. [FIRE – RES](#) (2021 – 2025) – 4 Years - EU Horizon 2020



TIEMS Education, Training and Certification



With an increasing number of disasters worldwide, resulting in more international collaboration and support to disaster stricken areas, the need for more education and training in emergency and disaster management seems evident. TIEMS believes that it is important to raise the awareness of the competencies needed in emergency and disaster management, and to support those participating in these activities and operations in acquiring those competencies.



TQC™ & TQAC™ Development Process



- ❑ The idea of a TIEMS International Certification emerged during the TIEMS 2006 Annual Conference in Korea
- ❑ Around 300 experts from more than 40 countries have, over time, been consulted during the TQC development process, by answering a questionnaire and participating in three workshops in Kiev, Manila, and Seoul; discussing and concluding the TQC concept
- ❑ Eight test candidates from 7 countries; Australia, China, Jordan, Nigeria, South Africa, India and USA; have tested the on-line TQC system from A to Z, giving valuable feed-back on the quality, operational aspects, and relevance of TQC; thus, guiding TIEMS to attune TQC to the needs of the international emergency management and disaster response community
- ❑ When TQC was launched, TIEMS was soon approached by newly educated professionals, who had proper education but were lacking practical experience in emergency management. TQAC was then established as an additional TIEMS certification for those with proper education in emergency management but was lacking practical experience.
 - ❖ 7 new candidates started their TQC (4) & TQAC (3) certification in 2021
 - ❖ 15 new candidates have announced they will start their application process soon

TIEMS International Certifications - TQC™ & TQAC™

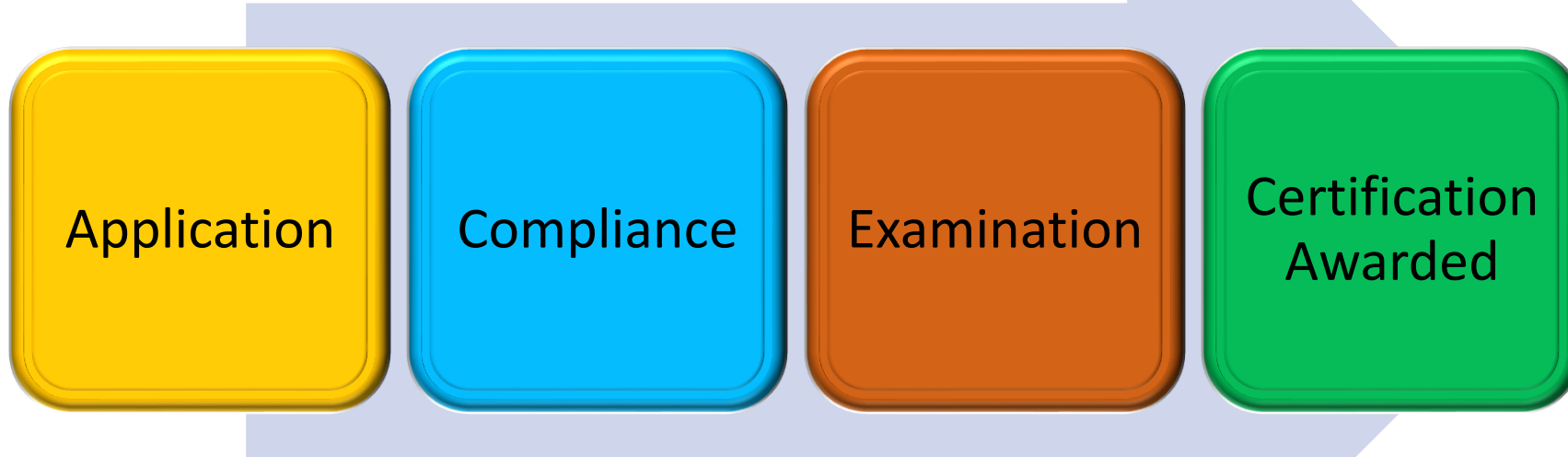
TQC & TQAC For Whom:



- ❑ TQC is a certification for individual emergency managers with a nationally recognized professional certification or other individuals with documented competence and experience, practical or academic, in international emergency and disaster management
- ❑ TQAC is a certification for individuals with proper education in emergency management but who are lacking the practical experience as required for TQC
- ❑ TQC & TQAC only certify knowledge and competences about international standards, requirements, and best practices, necessary to create “an international common understanding” among those working with emergency and disaster management internationally



TQC™ & TQAC™ Process



TQC & TQAC can act as the facilitator element in the cooperation's efforts between countries and organizations using a common language and a common knowledge and understanding of international emergency management and disaster response



TQC™ & TQAC™ Development Process



Four TQC Charter Members will tell about their Experience with TQC Certification and the Importance of an International Certification in Emergency Management and Disaster Response

Vinod Menon, India

Larry Porter, USA

Russell Dippy, Australia

Naill Momani, Dubai/Jordan



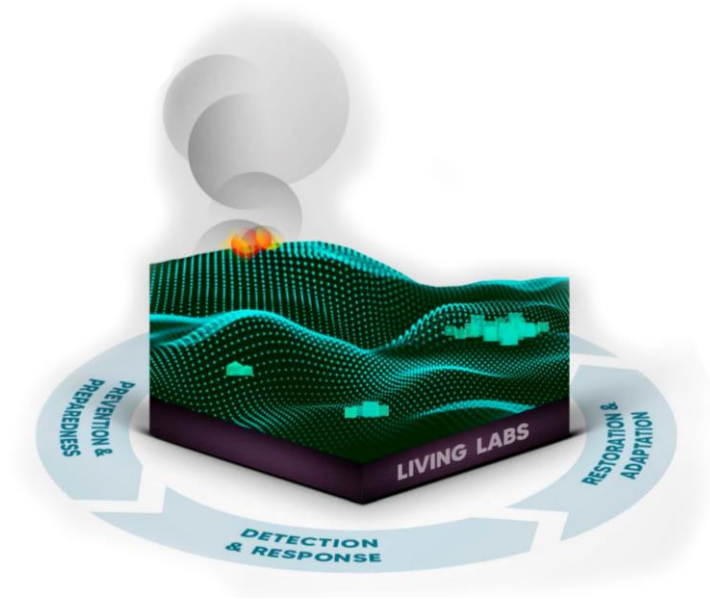


FIRE-RES

<https://fire-res.eu/>

Innovative Technologies and Socioecological-Economic Solutions for Fire Resilient Territories in Europe

<https://cordis.europa.eu/project/id/101037419>



Project Information

FIRE-RES

Grant agreement ID: 101037419

Start date
1 December 2021


End date
30 November 2025

Funded under
H2020-EU.3.5.

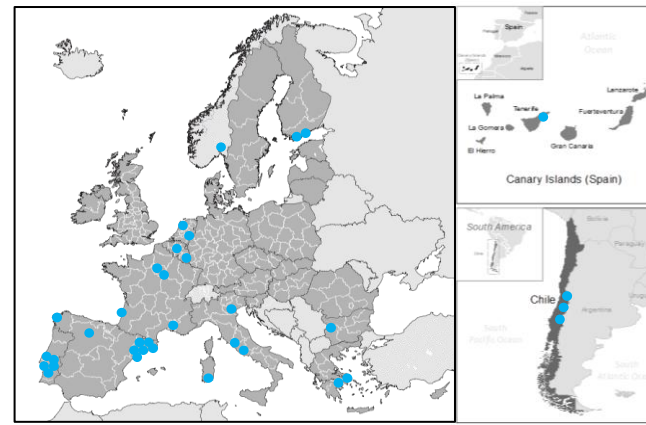
Overall budget
€ 21 543 565,37

EU contribution
€ 19 896 326,62



Coordinated by
CONSORCI CENTRE DE CIENCIA I TECNOLOGIA
FORESTAL DE CATALUNYA
 Spain

Consortium (35 Partners)



- **14 RESEARCH AND INNOVATION CENTERS**

- CTFC
- ISA
- UAEGEAN
- FORESTWISE
- INRAE
- CNRS
- ISCI
- WU
- CNR
- CSIC
- NOA
- UNIPD
- UF
- NIBIO

- **3 INTERNATIONAL NETWORKS**

- EFI
- EUROMONTANA
- OBCT

- **8 TECHNOLOGICAL ENTERPRISES**

- TECNOSYLVA
- VTT
- SPIRE
- AIRBUS
- DTN
- MITIGA
- INESC TEC
- ICGC

- **1 INDUSTRY**

- CORMA

- **6 EMERGENCY-RESPONSE BODIES**

- TIEMS
- CFRS
- ENB
- CONAF
- ANEPC
- XUNTA

- **2 REGIONAL GOVERNMENTS**

- GOBCAN
- FORESTAS

- **1 ASSOCIATION FORESTRY OWNERS**

- IEFC

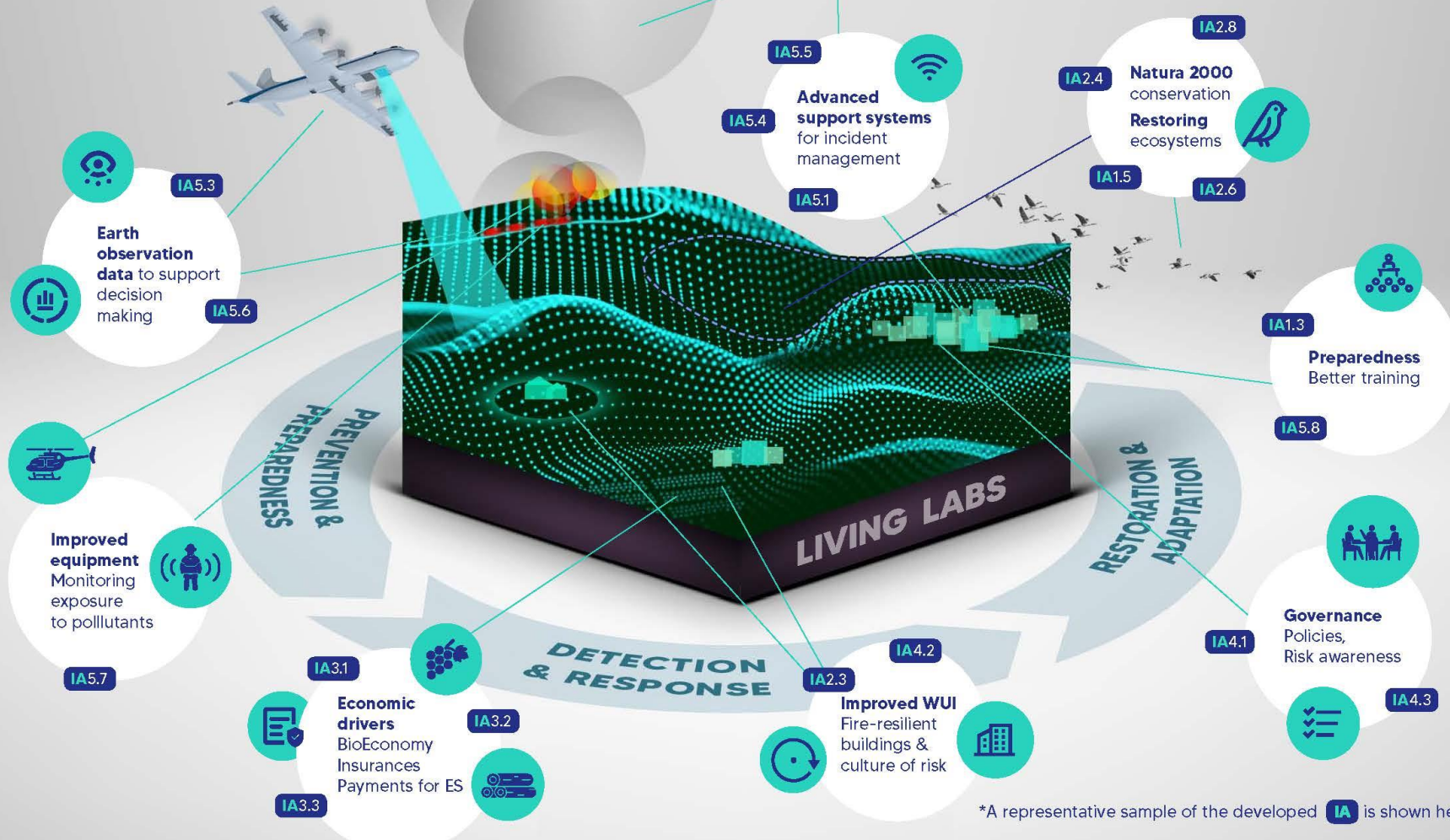
Objective/Approach

- The strategic objective of FIRE-RES is to provide the EU with the capacity to avoid collapsing in front of EWE projected to increase under a harsher climate.
- Integrating fire management and landscape management will be influential to address concerns with EWE and define the needed resistant and resilient landscapes.
- An integrated management approach to the Fire Management Cycle phases (Prevention and Preparedness; Detection & Response; Restoration and Adaptation) is followed by developing Innovation Actions (integrating environmental, climate, health & safety/security, cultural and socioeconomic aspects) deployed and demonstrated in Living Labs across Europe and beyond.

The FIRE-RES approach

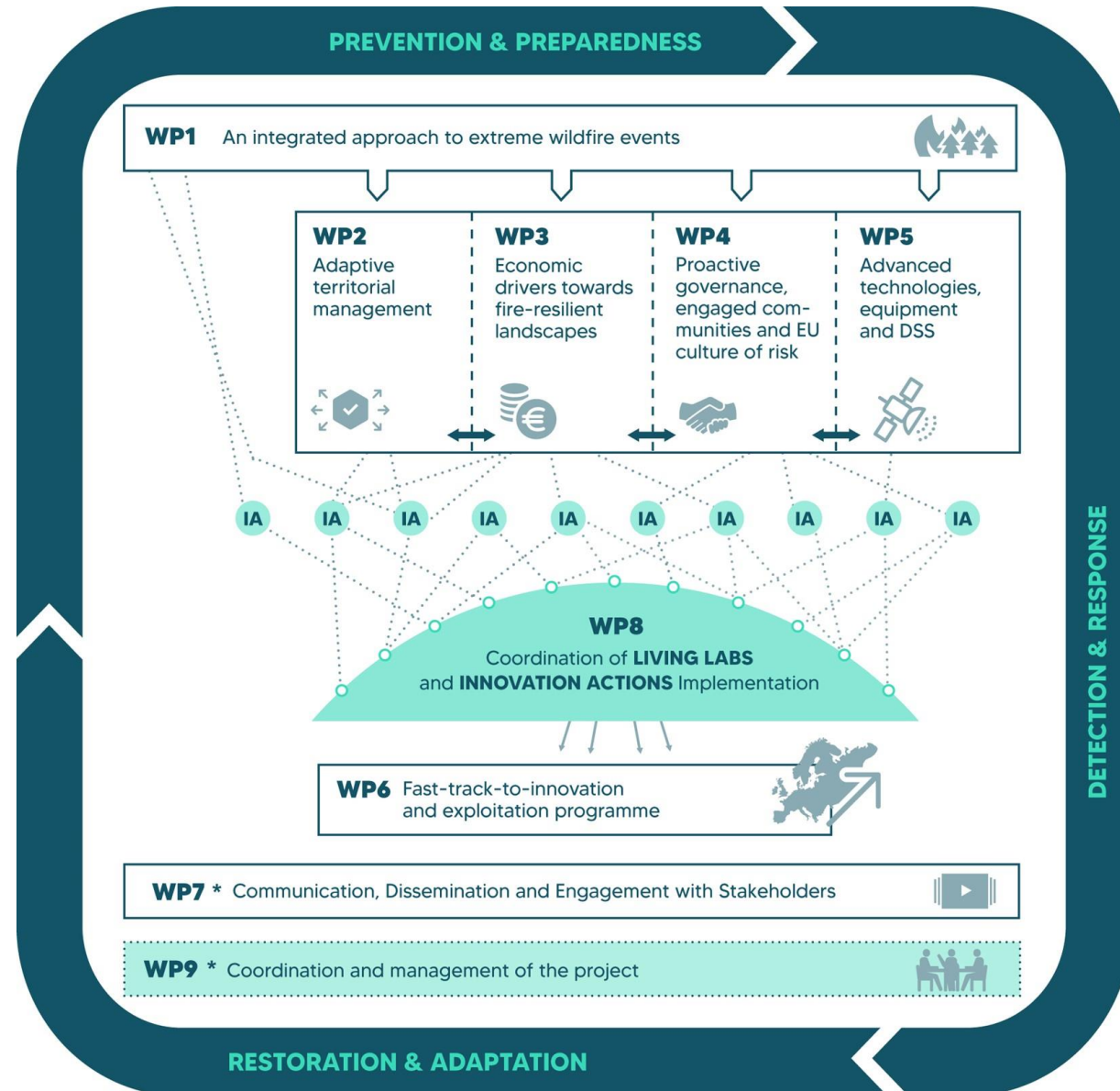
smart decisions today
for sustainable future scenarios 

Resistant and resilient **LANDSCAPES**

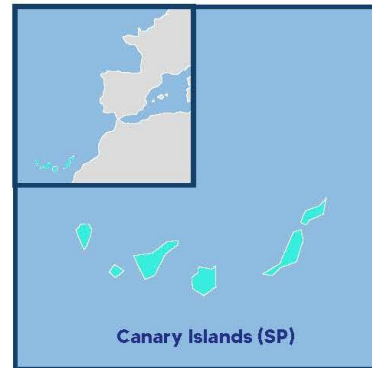


*A representative sample of the developed IA is shown here

FIRE-RES - Structure



FIRE-RES / LIVING LABS



- AQ** Aquitaine (FR)
- BUL** Bulgaria
- CAN.IS** Canary Islands (SP)
- CAT** Catalonia (SP)
- CL** Chile
- GAL** Galicia (SP)
- GER-NL** Germany - The Netherlands
- GR** Greece
- NOR-SW** Norway-Sweden
- POR** Portugal
- SAR** Sardinia (IT)



KICK
OF
MEETING

17-19
NOV
2021

FireLogue Project Overview

<https://firelogue.eu/>

Call topic

LC-GD-1-1-2020: Preventing and fighting extreme wildfires with the integration and demonstration of innovative means

Duration

48 months (November 2021 – October 2024)

Funding

3 259 370.75 €

Project type

Coordination and Support Action (CSA)

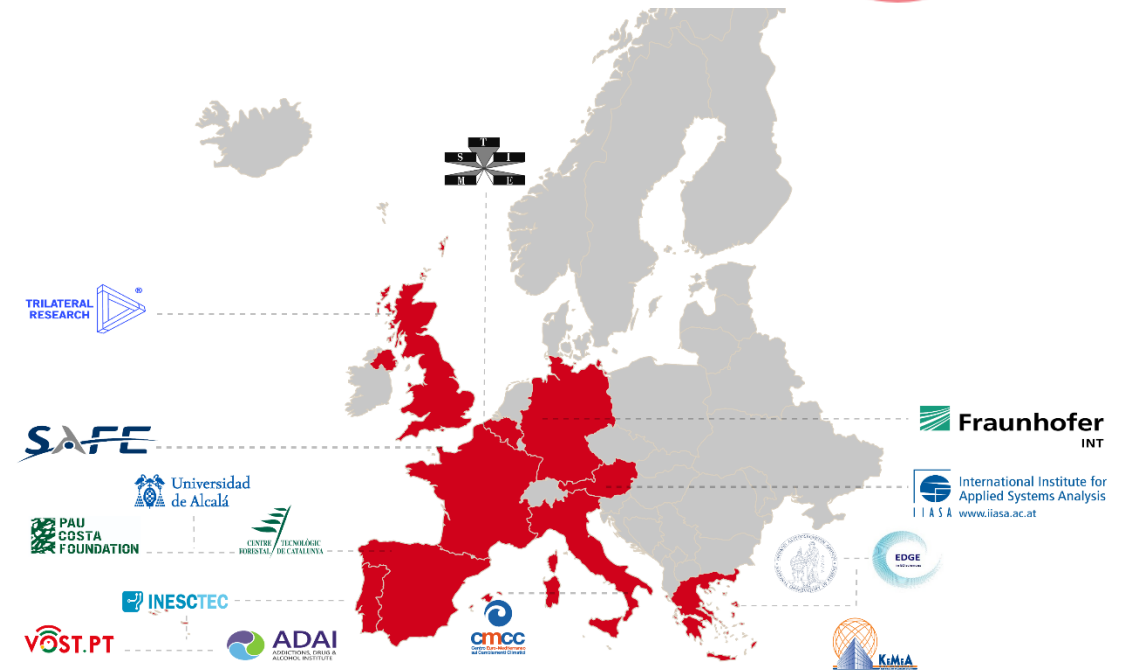


THIS PROJECT HAS RECEIVED FUNDING FROM THE EUROPEAN UNION'S HORIZON 2020 RESEARCH AND INNOVATION PROGRAMME UNDER GRANT AGREEMENT NO 101036534



The FireLogue consortium

#	Participant organisation name	Country
1	Fraunhofer Gesellschaft für Angewandte Forschung e.V. (FhG)	Germany
2	Pau Costa Foundation (PCF)	Spain
3	National Observatory of Athens (NOA)	Greece
4	SAFE Cluster	France
5	Trilateral Research (TRI)	United Kingdom
6	EDGE in Earth Observation sciences Monoprosopi IKE (EDGE)	Greece
7	International Institute of Applied System Analysis (IIASA)	Austria
8	Instituto de Engenharia de Sistemas e Computadores, Tecnologia e Ciência (INESCTEC)	Portugal
9	The International Emergency Management Society (TIEMS)	Belgium
10	Virtual Operations Support Team (VOST) Portugal	Portugal
11	Centro Euro-Mediterraneo sui Cambiamenti Climatici (CMCC)	Italy
12	Consorti Centre de Ciència i Tecnologia Forestal de Catalunya (CTFC)	Spain
13	Association for the Development of Industrial Aerodynamics (ADAI)	Portugal
14	Centre for Security Studies (KEMEA)	Greece
15	Universidad de Alcalá (UAH)	Spain



THIS PROJECT HAS RECEIVED FUNDING FROM THE EUROPEAN UNION'S HORIZON 2020 RESEARCH AND INNOVATION PROGRAMME UNDER GRANT AGREEMENT NO 101036534



Scope of the IAs:



“Actions funded under this call will speed up the pan-European adaptation process to extreme wildfires by advancing and applying research and innovation, including demonstration pilot sites, while making best use of existing data (e.g. remote sensing, in-situ or community-based data), technologies (e.g. Big Data and Artificial Intelligence) and services (as Copernicus, Galileo and EGNOS).”

Prevention and Preparedness

The **integration of environmental, climate and socio-economic conditions** (including tangible and intangible cultural heritage) with proactive governance (public and private actors), community-based risk awareness, prevention and preparedness activities [...]

Detection and Response

Anticipation and mitigation of high-impact events will benefit from research and innovation in space, aerial, ground, material and digital technologies, which should be integrated altogether with environmental, climate and social disciplines and existing EU initiatives on monitoring and suppression of wildfires. Activities should be demonstrated in a broad range of weather conditions and geographical scenarios.

Restoration and Adaptation

Proposals should aim at supporting the **socio-ecological transition** towards more resilient communities, in particular those most exposed to wildfire risk. A





Knowledge Exchange and Networking encompass the following activities:

Knowledge Exchange and Networking

Activities

Webinars



Brokering of training and exercises options



Sharing of SOPs



Networking events



Research integration



Joint Impact Assessment



Communication and dissemination encompass the following activities:

Communication and dissemination

Activities

Joint publications
(e.g. Open Access Book)



White Paper and Roadmap



Technology Market Place



Joint Knowledge Base

Review of past wildfire events



Mapping of actors,
measures, and technologies



Translation for use in
Working Groups



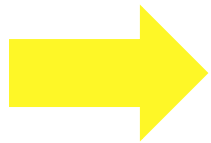


The European Green Deal aims to become the first climate neutral continent by 2050.

“Climate change and environmental degradation are an existential threat to Europe and the world. To overcome these challenges, the European Green Deal will transform the EU into a modern, resource-efficient and competitive economy, ensuring:

- no net emissions of greenhouse gases by 2050
- economic growth decoupled from resource use
- **no person and no place left behind”**

(European Commission 2021a)



Just Transition has become a core concept of the Green Deal





Just Transition (JT) has been translated into a mechanism with several measures.

Measures

Just Transition Mechanism



A new Just Transition Fund

of €19.2 billion in current prices, is expected to mobilise around EUR €25.4 billion in investments.



InvestEU "Just Transition" scheme

will provide a budgetary guarantee under the InvestEU programme across the four policy windows and an InvestEU Advisory Hub that will act as a central entry point for advisory support requests. It is expected to mobilise €10-15 billion in mostly private sector investments.



A new Public Sector Loan Facility

will combine €1.5 billion of grants financed from the EU budget with €10 billion of loans from the European Investment Bank, to mobilise €18.5 billion of public investment.

Source: EC (2021b).





But what does Just Transition actually mean?



"We must show solidarity with the most affected regions in Europe, such as coal mining regions and others, to make sure the Green Deal gets everyone's full support and has a chance to become a reality."

Frans Timmermans, Executive Vice-President of the European Commission

Source: EC (2021b).

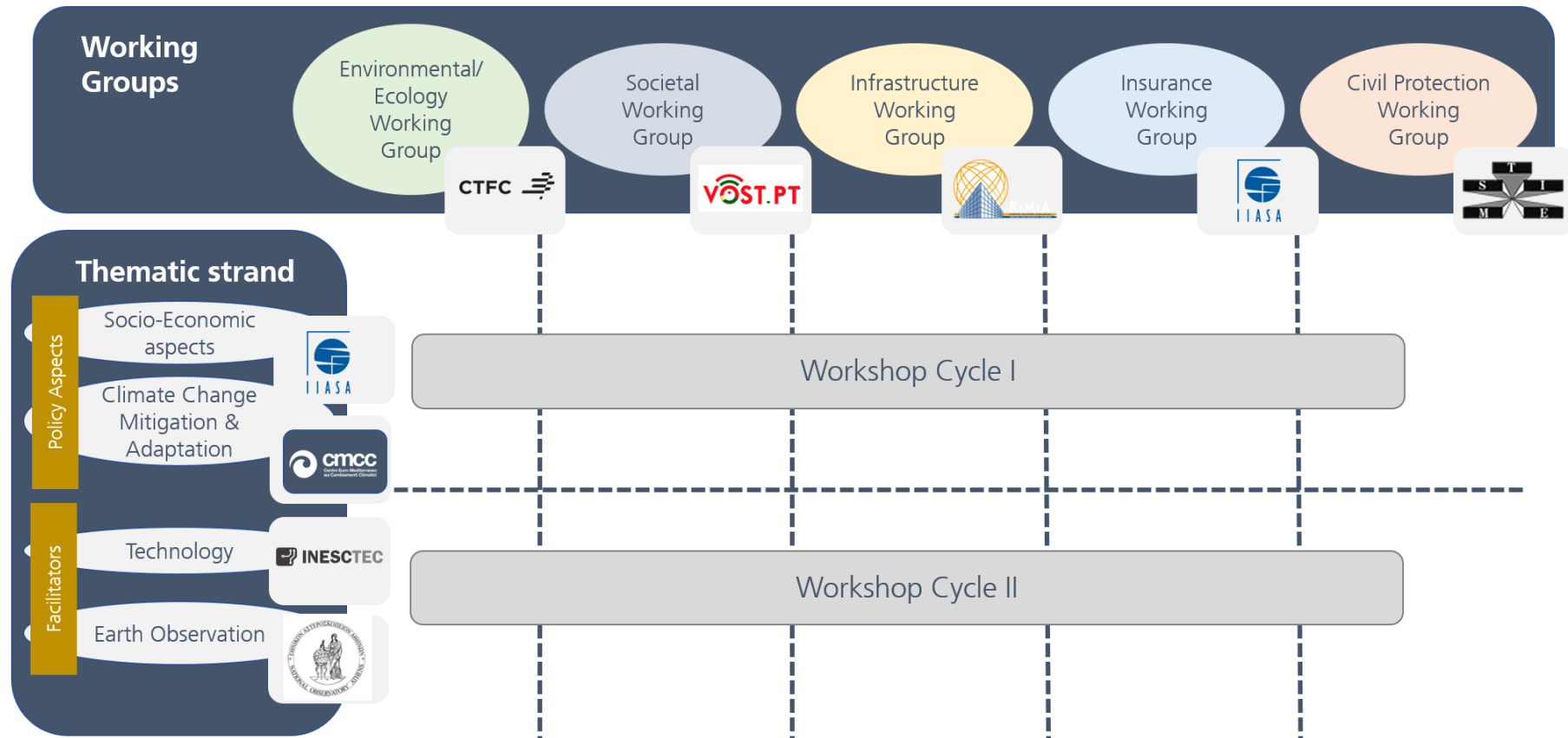
The term *Just Transition* was first coined by the trade union movement in the 1980s. Its original conception focused explicitly on job restoration from the replacement of coal mining jobs with those situated in the low carbon economy.

(Abraham 2017; Thomas 2021)





The WG implementation follows a matrix structure.



TIEMS Future Plans

TIEMS is Established and Recognized Worldwide as an Important and Serious Actor in Emergency Management and Disaster Response

TIEMS Future Focus

- More International Conferences and Workshops Worldwide
- More Webinars
- More Chapters to be Partners in TIEMS Worldwide Network
- Get TIEMS Chapters involved in TIEMS Research and Development (RTD) Activities
- Locate Financial Sources Worldwide for Support of TIEMS RTD activities
- More TIEMS Members
- More TIEMS International Education Partners
- Recruit Cooperation Partners for Further Development and National Adaption and Application of TIEMS International Certifications - TQC & TQAC
- Run Training Courses in Emergency Management and Disaster Response
- Other Activities

