**Closing data gaps and paving the way for pan-European Fire Safety Efforts. Part II - terminology of fire statistical variables**

Martina Manes1,2, Ana Sauca3, Mohamad El Houssami4, Petra Andersson5,Colin McIntyre6, Richard Campbell7, David Rush2, Anja Hofmann8, Peter Wagner9, Sergei Sokolov9, Mindel Leene10, Margrethe Kobes10, Dirk Oberhagemann11, Nicola Rupp11, Grunde Jomaas2,12, Friedrich Grone3,Eric Guillaume4

1 School of Engineering, University of Liverpool (corresponding author: m.manes@liverpool.ac.uk)

The Quadrangle, Brownlow Hill, L69 3GH Liverpool (UK)

2 School of Engineering, University of Edinburgh

Sanderson Building, Robert Stevenson Road, The King's Buildings, EH9 3FB Edinburgh (UK)

3 Danish Institute of Fire and Security Technology (DBI)

Jernholmen 12, 2650, Hvidovre (DK)

4 Efectis

Espace Technologique, Route de l’Orme des Merisiers 91193 Saint Aubin (FR)

5 Lund University

Faculty of engineering, John Ericssons väg 1, 22363 Lund (SE)

6 Swedish Civil Contingencies Agency (MSB)

MSB 651 81, Karlstad (SE)

7 National Fire Protection Association (NFPA)

1 Batterymarch Park, Quincy, Massachusetts USA 02169-7471

8 Bundesanstalt für Materialforschung und –prüfung (BAM)

Unter den Eichen 87, 12205 Berlin (DE)

9 Centre for Fire Statistics of CTIF (CFS-CTIFS)

CTIF Central Office, Trzaska 221, 1000 Ljubljana (SI)

10 European Fire Safety Alliance (EuroFSA)

PO Box 1015, 1940 EA Beverwijk (NL)

11 Vereinigung zur Förderung des Deutschen Brandschutzes (VFDB)

Wolbeckerstr. 237 D-48155 Münster (DE)

12 FRISSBE, Slovenian National Building and Civil Engineering Institute (ZAG)

Dimičeva ulica 12, 1000 Ljubljana (SI)

**ORCID:**

Martina Manes: 0000-0003-2302-1720

Ana Sauca: 0000-0001-5992-998X

Mohamad El Houssami: 0000-0002-2458-6910

Petra Andersson: 0000-0003-3690-387X

Colin McIntyre

Richard Campbell: 0000-0003-3145-4753

David Rush: 0000-0002-6439-8607

Anja Hofmann: 0000-0002-1168-6701

Peter Wagner: 0000-0002-9485-8766

Sergei Sokolov: 0000-0002-2992-8510

Mindel Leene

Margrethe Kobes

Dirk Oberhagemann

Nicola Rupp: 0000-0002-1213-7093

Grunde Jomaas: 0000-0003-4067-1610

Friedrich Grone: 0000-0002-6486-6909

Eric Guillaume: 0000-0002-3055-2741

# Acknowledgement

The authors would like to acknowledge the European Commission - Directorate General For Internal Market, Industry, Entrepreneurship and SMEs for awarding the EU FireStat consortium and enabling the development of this research.

The members of the consortium who contributed to the research developed in this paper are listed below according to the nine consortium partners:

* Efectis: Mohamad El Houssami, Eric Guillaume, Dominique Parisse, Rene Fe Feijter
* University of Edinburgh/University of Liverpool: Martina Manes, Grunde Jomaas, David Rush
* DBI: Ana Sauca, Friedrich Grone, Ditte R. Frostholm, Kim Hansen
* BAM: Anja Hofmann
* NFPA: Birgitte Messerschmidt, Richard Campbell, Marty Ahrens, Ben Evarts, Rita Fahy
* EuroFSA: Rene Hagen, Johanna Veeneklaas, Margrethe Kobes, Daan Heijmen, Mindel Leene, Rijk Van Den Dikkenberg
* VFDB: Dirk Oberhagemann, Nicola Rupp
* CTIF-CFS: Peter Wagner, Sergei Sokolov
* Lund University: Patrick Van Hees, Margaret McNamee, Nils Johansson, Petra Andersson, Håkan Frantzich, Marcus Runefors, Colin McIntyre

It is also important to acknowledge the precious collaboration and cooperation of the authorities, fire brigades and numerous bodies who kindly provided their support to the EU FireStat project.

# CRediT roles

Martina Manes, Ana Sauca, Mohamad El Houssami, Richard Campbell: Conceptualization, Writing original draft.

Eric Guillaume, David Rush, Grunde Jomaas, Anja Hofmann, Petra Andersson, Colin McIntyre: Conceptualization, Review

Peter Wagner, Sergei Sokolov, Friedrich Grone, Mindel Leene, Margrethe Kobes, Dirk Oberhagemann, Nicola Rupp: Conceptualization

# Funding

The research was funded by the European Commission – Directorate-General For Internal Market, Industry, Entrepreneurship and SMEs with the tender SI2.830108 Tender n°760/PP/GRO/PPA/19/11229 of 11/11/2019.

# Declaration of competing interest

The authors declare that they have no competing financial interests or personal relationships that could have influenced the work developed in this paper.