**Closing data gaps and paving the way for pan-European Fire Safety Efforts - Part I: overview of current practices for fire statistics**

Martina Manes1,2, Mohamad El Houssami3, Richard Campbell4, Ana Sauca5, David Rush2, Anja Hofmann6,Petra Andersson7,Peter Wagner8, Sergei Sokolov8, Johanna Veeneklaas9, Margrethe Kobes9, Dirk Oberhagemann10, Nicola Rupp10, Grunde Jomaas2,11, Friedrich Grone5, Patrick van Hees7, Eric Guillaume3

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 Efectis

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

4 National Fire Protection Association (NFPA)

1 Batterymarch Park, Quincy, Massachusetts 02169-7471 (USA)

5 Danish Institute of Fire and Security Technology (DBI)

Jernholmen 12, 2650, Hvidovre (DK)

6 Bundesanstalt für Materialforschung und – prüfung (BAM)

Unter den Eichen 87, 12205 Berlin (DE)

7 Lund University

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

8 Centre for Fire Statistics of CTIF (CFS-CTIF)

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

9 European Fire Safety Alliance (EuroFSA)

PO Box 1015, 1940 EA Beverwijk (NL)

10 Vereinigung zur Förderung des Deutschen Brandschutzes (VFDB)

e.v. Wolbeckerstr. 237 D-48155 Münster (DE)

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

Dimičeva ulica 12, 1000 Ljubljana (SI)

**ORCID:**

Martina Manes: 0000-0003-2302-1720

Mohamad El Houssami: 0000-0002-2458-6910

Richard Campbell: 0000-0003-3145-4753

Ana Sauca: 0000-0001-5992-998X

David Rush: 0000-0002-6439-8607

Anja Hofmann: 0000-0002-1168-6701

Petra Andersson: 0000-0003-3690-387X

Peter Wagner: 0000-0002-9485-8766

Sergei Sokolov: 0000-0002-2992-8510

Johanna Veeneklaas

Margrethe Kobes

Dirk Oberhagemann

Nicola Rupp: 0000-0002-1213-7093

Grunde Jomaas: 0000-0003-4067-1610

Friedrich Grone: 0000-0002-6486-6909

Patrick van Hees: 0000-0002-7405-607X

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 with the tender and enabling the development of this research.

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

* Efectis: Mohamad El Houssami, Eric Guillaume, Dominique Parisse
* 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, Richard Campbell, Ana Sauca, Mohamad El Houssami: Conceptualization, Writing original draft

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

Patrick van Hees, Peter Wagner, Sergei Sokolov, Friedrich Grone, Johanna Veeneklaas, 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 in this paper.