

International Fire Statistics

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ISO TC 92

Fire Safety



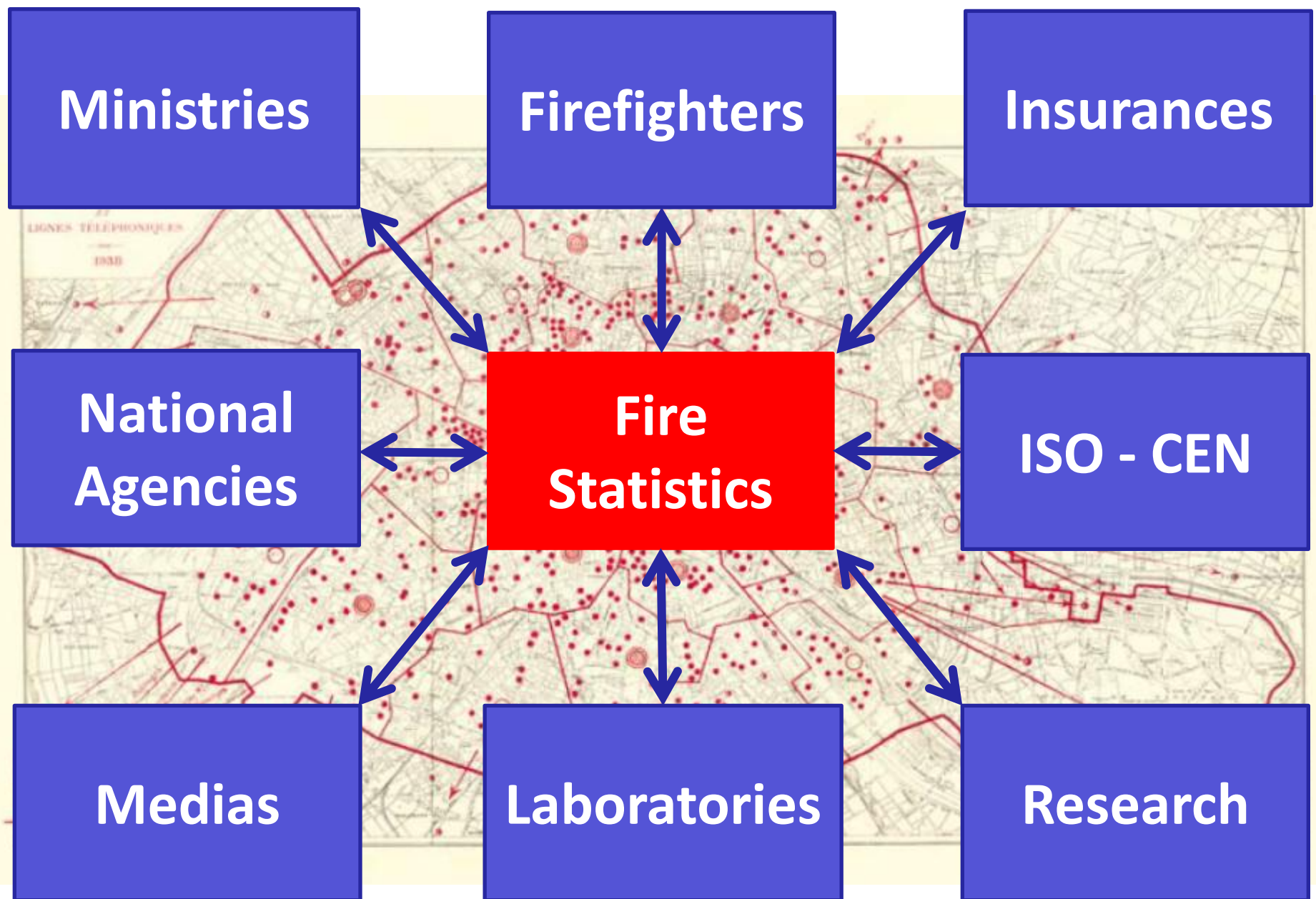
International
Organization for
Standardization



Fire statistics: what is the current situation and what can be expected?

Dominique PARISSE

**Convener of ISO TC 92 WG 13
“Fire Safety- Statistical Data Collection”**



ISO TR 17755:2004

Fire safety

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**Overview of national
fire statistics practices**



**Australia, Canada, People Republic of China, France, Japan,
Kenya, South Korea, Russia, United Kingdom, USA.**

Three main issues

- Terminology
- Methodology
- Training



The definition of a fire death

- **Russia** does not include the death occurred during a road traffic accident, air and rail disaster, and in sites enjoying the right of extraterritoriality (embassies...).
- **Canada** does not include people who die by fire resulting from vehicle accidents.
- **China** and **Kenya** do not include fatalities due to arson fires.

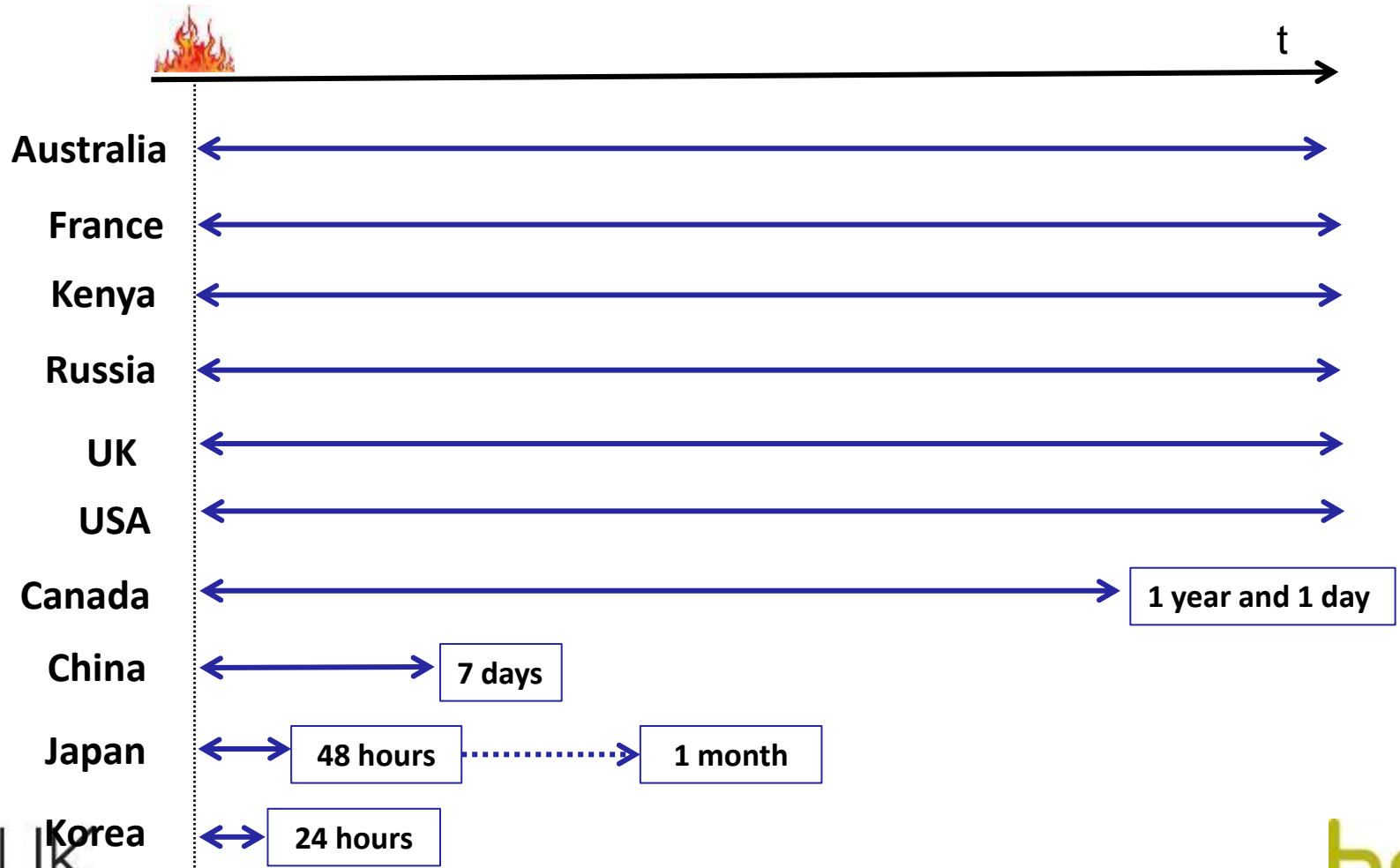
The definition of a fire death

- **France** Official Home Ministry statistics only include fatalities declared dead at the scene ...
- Does NOT include casualties who die in the hospital or Ambulance

The Definition of Time

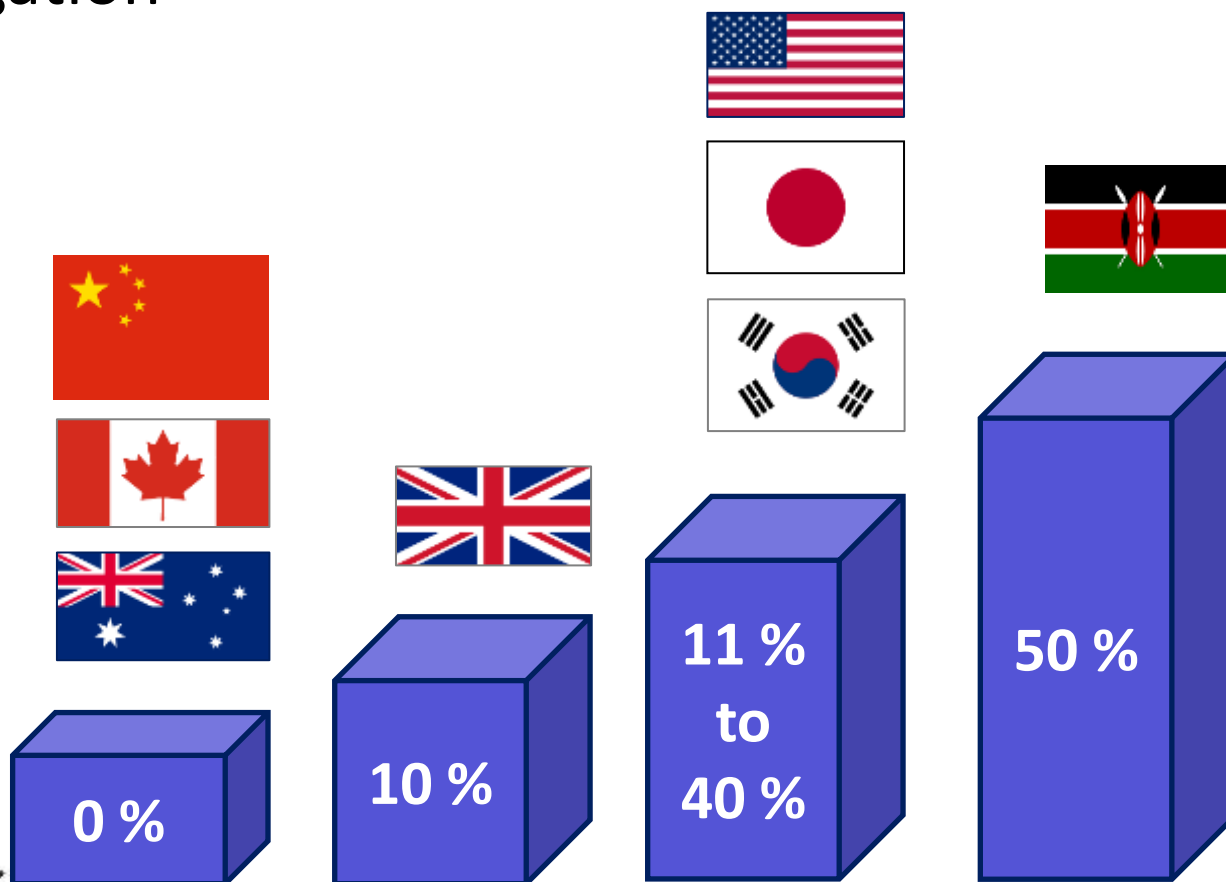
- **Paris** 'Night' begins at 18:00
- **Nord County** 'Night' begins at 22:00

Length of time given after a fire to take into account a fire death



Who is in charge of the fire incident report?

Percentage of firefighters in charge of the fire incident reports who have received a **special training** on fire investigation





Fire statistics can be compared only if they are built on the same characteristics and definitions



Trends of national fire statistics are not impacted by this issue

ISO DIS 17755 - 2

Fire safety

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Statistical data collection

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Part 2: definitions of terms



FSH/21

Who is currently involved in this committee

[\[Get involved \]](#)

A B I - Association of British Insurers

Association for Specialist Fire Protection

British Cables Association

C M F - Cast Metals Federation

British Plastics Federation

British Rigid Urethane Foam Manufacturers' Association

B R E - Building Research Establishment

Chief Fire Officers Association

European Phenolic Foam Association

Fire Brigades Union

Gypsum Products Development Association

B R E - Global Limited

Secretary - CEN/TC 127

Co opted - ISO/TC 92/SC 1/WG 11

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Standards Publishing Manager - Construction

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✓ [Standard in development: BS ISO 17755-2 Fire safety Statistical data ...](#)
[standardsdevelopment.bsigroup.com](#) › [Healthcare](#) › [FSH/21 Reaction to fire tests](#) ▾

Standard in development: BS ISO 17755-2 Fire safety Statistical data collection Part 2: Definitions of terms. Responsible committee: FSH/21 Reaction to fire tests ...

✓ [ISO/DIS 17755-2\(en\), Fire safety — Statistical data collection — Part ...](#)
<https://www.iso.org/obp/ui/#iso:std:69440:en> ▾

ISO 17755-2 was prepared by Technical Committee ISO/TC 92, Fire safety. ISO 17755 consists of the following parts, under the general title Fire safety ...

✓ [ISO 17755-2 - FIRE SAFETY - STATISTICAL DATA COLLECTION ...](#)
[standards.globalspec.com/std/10039391/iso-17755-2](#) ▾

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✓ [BSI - 16/30339974 DC - Draft BS ISO 17755-2 Fire safety Statistical ...](#)
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✓ [ISO 17755-2 : FIRE SAFETY - STATISTICAL DATA COLLECTION ...](#)
https://global.ihs.com/doc_detail.cfm?document_name=ISO%2017755-2...s... ▾

ISO 17755-2 : FIRE SAFETY - STATISTICAL DATA COLLECTION - PART 2: DEFINITION OF TERMS.

✓ [New British standards for comments - The FIA - UK.COM](#)
[www.fia.uk.com/news/new-british-standards-for-comments-.html](#) ▾

15 Aug 2016 - ... 2 Hardware; Draft for Public Comment - 16 / 30339974 DC - BS ISO 17755-2 Fire safety Statistical data collection Part 2 Definitions of terms.

✓ [New British Fire Standards for Comments - Assured Fire and Security](#)
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Dominique Parisse | LinkedIn

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Amayé-sur-Orne, Basse-Normandie, France - Conseiller technique en sécurité incendie d'un consortium de producteurs et de transformateurs de plastiques - PlasticsEurope, SFEC, SNEP, STR-PVC, EXIBA, AFIPEB, SNPU

Project leader du document ISO 17755-2 : fire safety - statistical data collection - Part 2: definition of terms" Institution of Fire Engineers Australia Branch ...

Identify synonymous

3.39

fatal fire injury

synonym of **fatal fire casualty** (3.38), **fire fatality** (3.43) and **fire death** (3.42).

3.60

home fire

synonym of **dwelling fire** (3.27) and **residential fire** (3.83).

3.67

light injury

a person who is 1 day to 3 days hospitalized or 1 day to 3 weeks off work.

Synonym of **moderate injury** (3.72).

Give a unique definition to terms for which different definitions are available and used

3.38

fatal fire casualty

a person who dies as a result of injuries sustained during a fire incident, without any limitation of time after the fire, including death from natural or accidental causes sustained while involved in the activities of fire control, attempting rescue or escaping from the dangers of the fire, including blast and defenestration, except when a death occurred in sites enjoying the right of extraterritoriality.

Fire fatalities are composed of all persons discovered or declared dead on the location of the fire, during their transportation at the hospital or after their admission at the hospital.

A person who dies by fire resulting from vehicle accidents is included in fire fatalities database if the death can be attributed to fire.

3.75

newborn

child under 28 days of age.



3.19

child

a person whose age is between 28 days (included) and 9 years (included).

3.110

youth

person whose age is between 10 years (included) and 17 years (included).

3.3

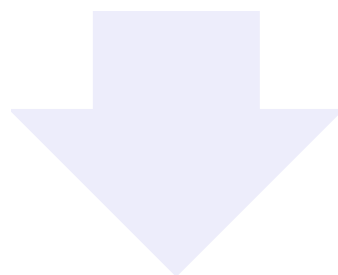
adult

a person whose age is between 18 years (included) and 64 years (included).

3.29

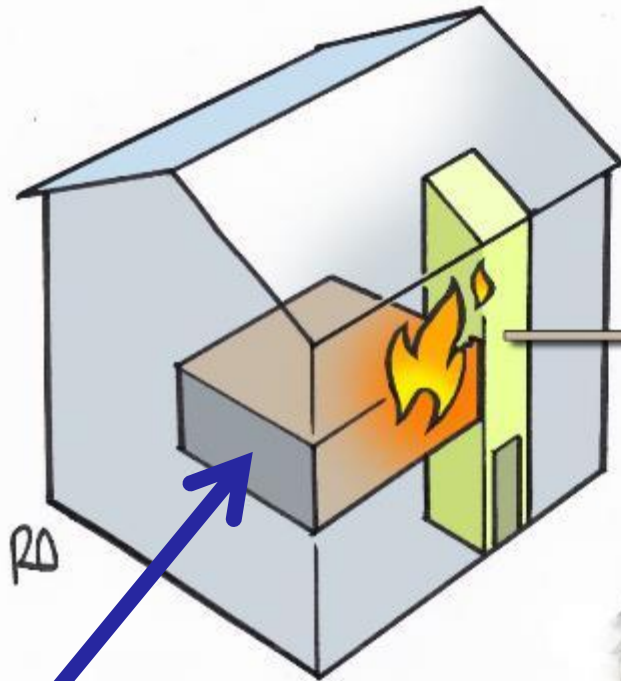
elderly

a person who is 65 or more.





Area of origin of the fire



Location of the fire



Point of origin of the fire

Give a definition to undefined terms

3.32

exterior propagation of a fire from balcony to balcony

fire started at the exterior on a balcony that propagates to a balcony above. The main part of the combustible of the fire is located on balconies. In some cases, the fire can also, at the same time, propagates inside the upper floor from the exterior of the building.

3.33

exterior propagation of a fire from one level to another

fire started inside a building that propagates inside the upper floor by the exterior. The main part of the combustible of the fire is located inside the building.

3.35

façade's fire

Fire that started inside or outside a building that mainly develops by combustion of the materials constituting the external cladding of the façade. This external cladding can be separated in external thermal insulation composite system and decoration system.



**What
Next**

ISO TR 17755:2004

Fire safety

Overview of national
fire statistics practices

1. More countries involved
2. Wildland fires

ISO 17755 - 3

Fire safety

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**Methodology for collecting
fire statistics**



ISO 17755 - 4



Fire safety

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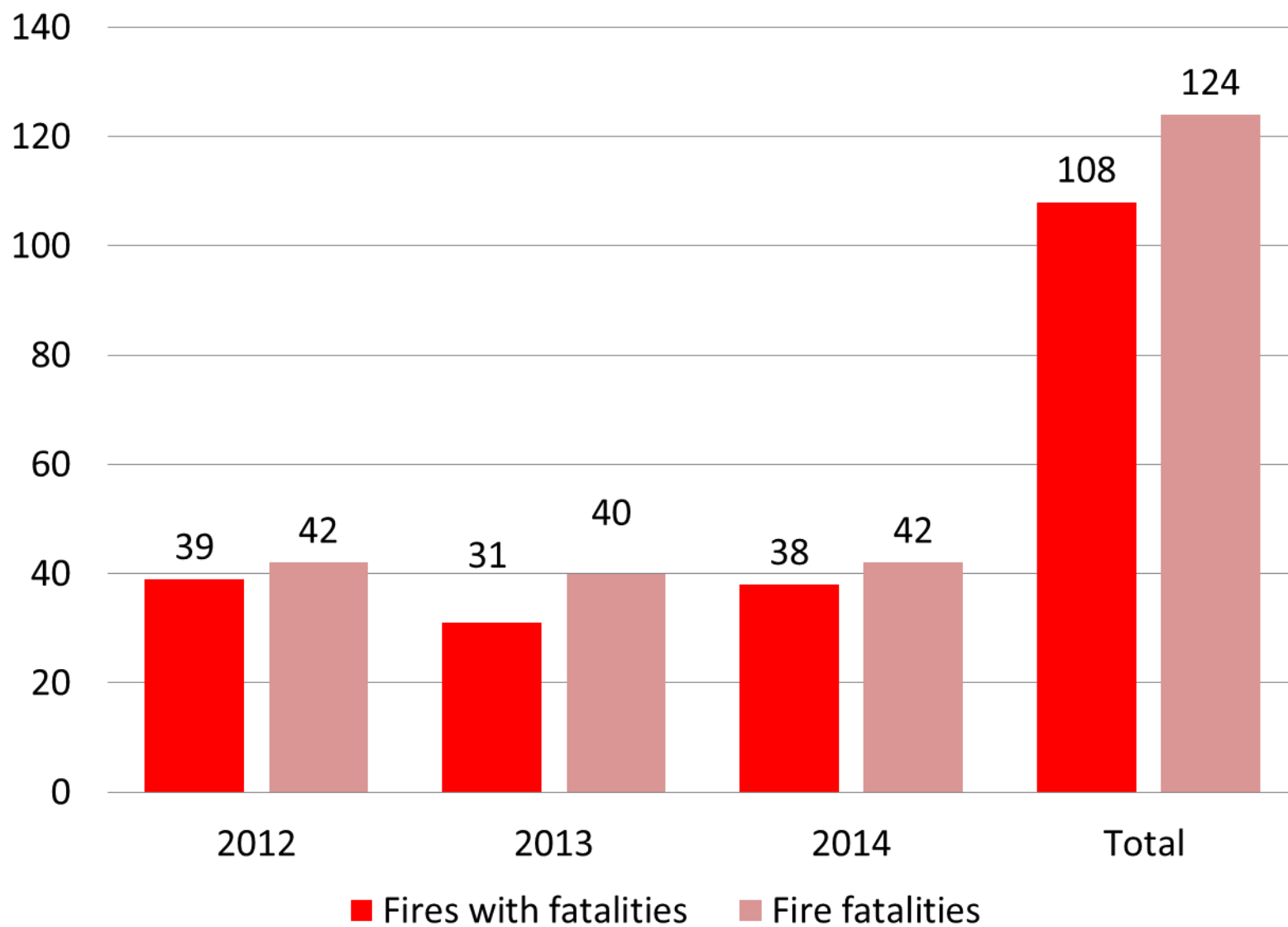
**Training and qualification
of fire investigators**

**Analyze of 3 years
(2012 – 2013 – 2014)
of fire reports
in which fire fatalities were discovered
on the location of the fires**



**Police fire scientific investigators
Paris Police Laboratory**







**15,3 % of all fire fatalities
were caused by
voluntary fires**



**86 % of all fire fatalities
in residential buildings were
the occupants of the dwellings
where the fire started**



**The cause of the fires
at the origin of 66 %
of all fire fatalities was an
inappropriate human
behavior**





½ day – **Workshop** on “fire statistics”



- Fires and firefighter casualties in the USA
- Fires and their consequences in Canada by type of buildings and constructions
- **Wildland fires in Australia**
- **Fire incidents and regulation in New Zealand**
- The impact of highly aged society in fire casualties in Japan
- The influence of the building use on fire casualties in Korea
- Fires and their consequences in Sweden
- Paris Police Laboratory: lessons of three years (2012 – 2014) of fire investigations

Conclusion

Because:

- 1. each life is important,**
- 2. the determination of the causes and circumstances of fires will be more and more important,**

all fire experts need to work with relevant information such as accurate fire statistics.

Our unique goal is to give the logical and appropriate tools in order to improve these fire statistics and thus participate in reducing the fire risk and its consequences...