

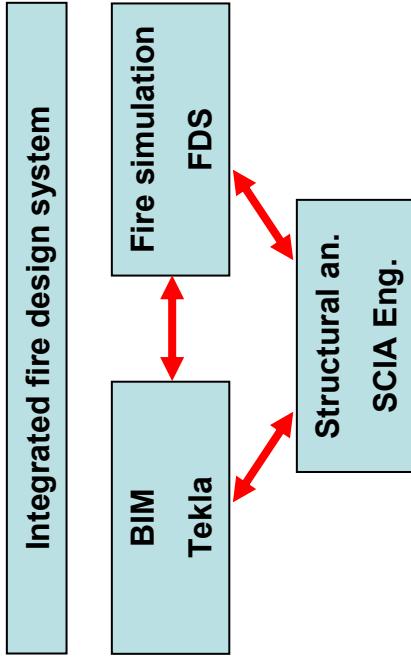
## SYSTEMATISATION OF DESIGN FIRE LOADS in an integrated fire design system

Markku Heinisuo<sup>a</sup>, Mauri Laasonen<sup>a</sup>, Jyri Outinen<sup>b</sup>, Jukka Hietaniemi<sup>c</sup>

<sup>a</sup>Tampere University of Technology, Faculty of Built Environment, Tampere, Finland

<sup>b</sup>Rautaruukki Oy, Vantaa, Finland

<sup>c</sup>Markku Kauriala Ltd, Fire Engineering and Fire Safety Design Consultants, Espoo, Finland



### Present paper:

“Standard” fire loads given in BIM

Sinklers given in BIM

Systematisation given in this paper

Authors’ desire: Systematisation in future:

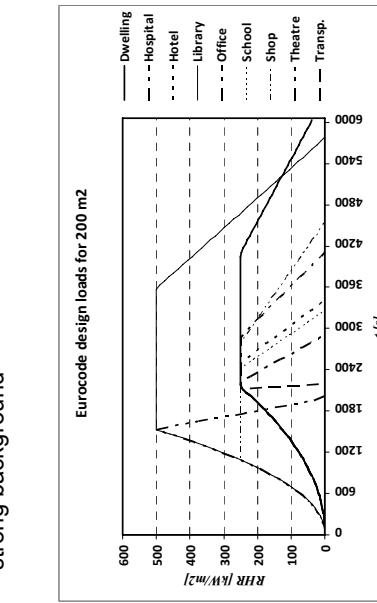
### Standardisation!

It is believed that entities in buildings

e.g. cars burn same way in every country

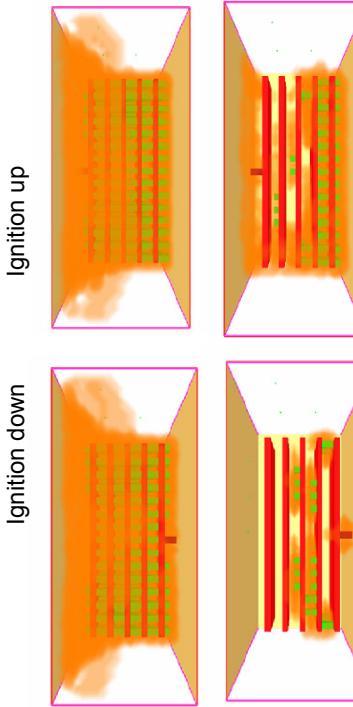
Fire loads implemented should have

strong background

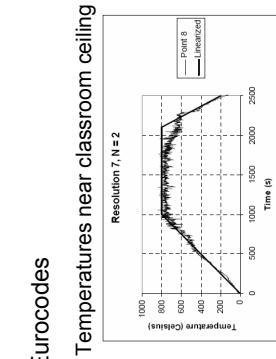
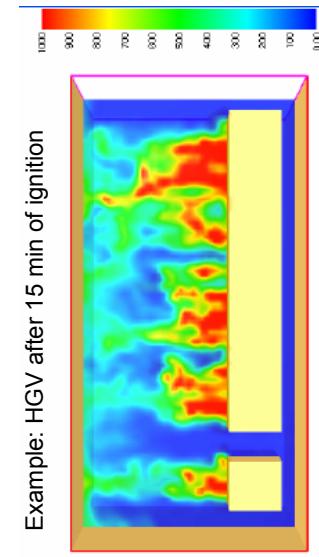


Local and global sinkler fires: see paper

Rack fires: 5 categories acc. VTT



Car fires:  
Car parks, Type 2 (Renault Megane or similar)  
proposed to Finland  
Heavy good vehicle (HGV)  
Petrol Tank based on French rules 200 M/W



Eurocode fires: Not for entire floor but  
for “chessboard” at random levels

Example: Classroom fire of Eurocodes

