



S.D.I.S 13



Citizens and cities facing new hazards and threats

30th November to 4th December 2020

Session 10 : Value for money: economic view on emergency services, how protection produces value – Housing building case

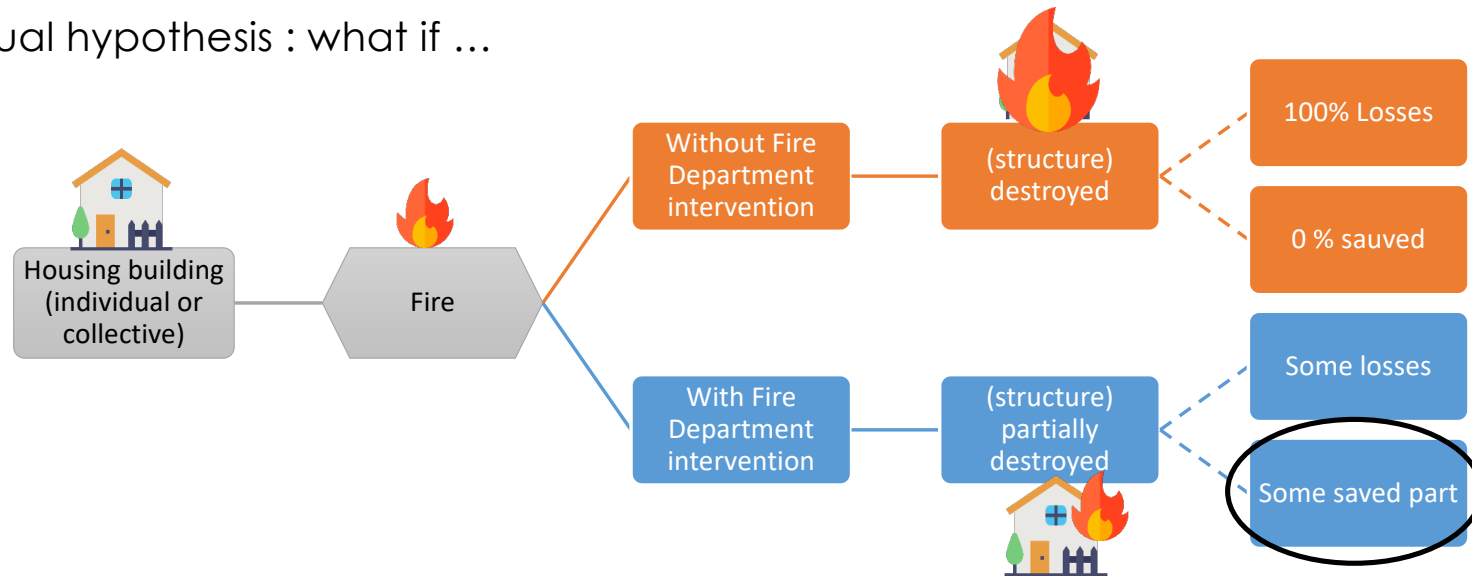
Hanane CHADLI

Context, problematic

- Fire prevention and fight is an exclusive mission of French Fire service
- Fire activity → only 6% of missions
- The focus is on housing (individual and collective)
- We try to answer to : **How much do the Fire department usually save during housing fire fighting ?**

Methodology

Counterfactual hypothesis : what if ...



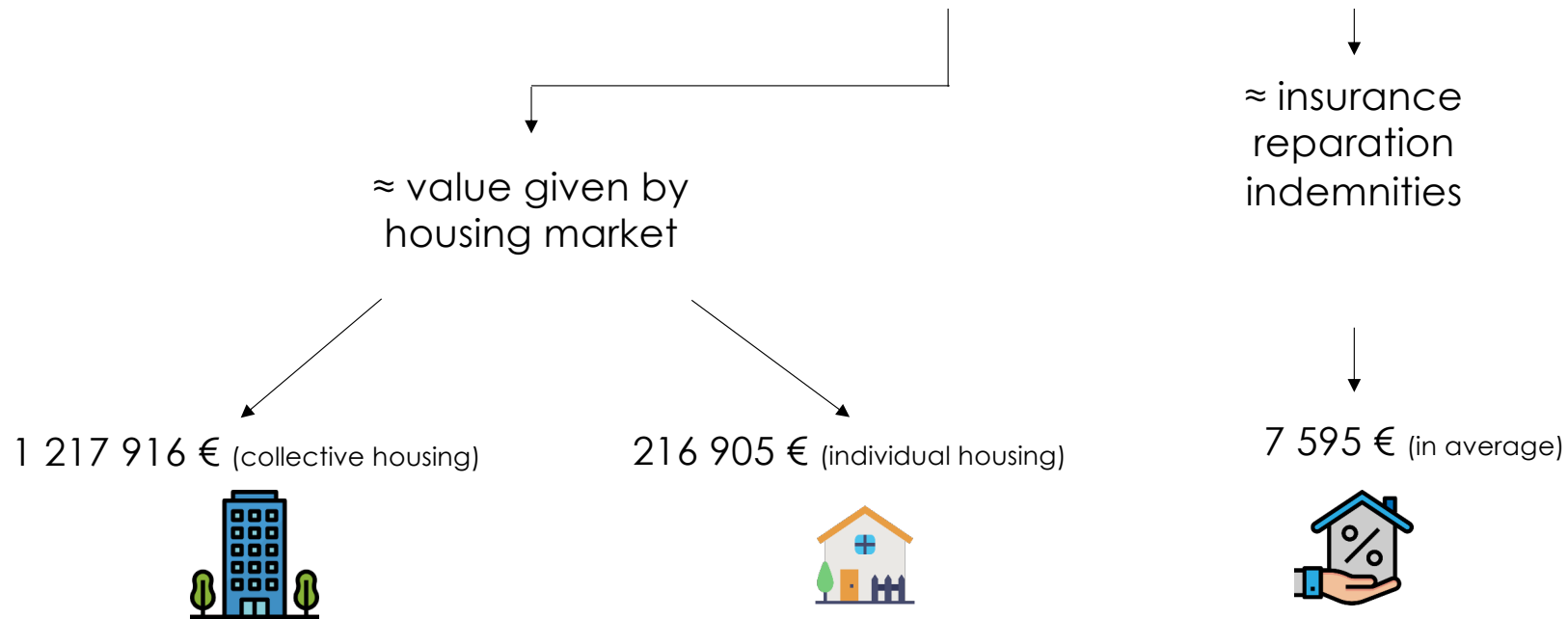
Assumption:

$$\text{Saved value} = \text{initial structure value} - \text{losses value}$$

Methodology

Using national averages:

$$\text{Saved value} = \text{initial structure value} - \text{losses value}$$



Methodology

Saved value = initial structure value – losses value

- **Individual housing :**

Saved value = 216 905 – 7 595

Saved value = **209 310 €**

- **Collective housing :**

Saved value = 1 217 916 – 7 595

Saved value = **1 210 321 €**

Department of BDRFD

- 336 interventions on individual housing fire in 2019

336 x 209 310 € = **70 328 160 €**

- 178 interventions on collective housing fire in 2019

178 x 1 210 321 € = **215 437 138 €**

Conclusion

- High added value
- Some indirect costs not taken in account
- Can be updated by increasment of operationnal reporting
- Has to be consolidated by further studies

