

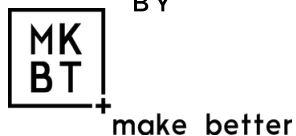
# DISASTER RELIEF ECOSYSTEM

STR. DIMITRIE BOLINTINEANU 5 (1936)

## SEISMIC-ALERT PLATFORM



DEVELOPED  
BY

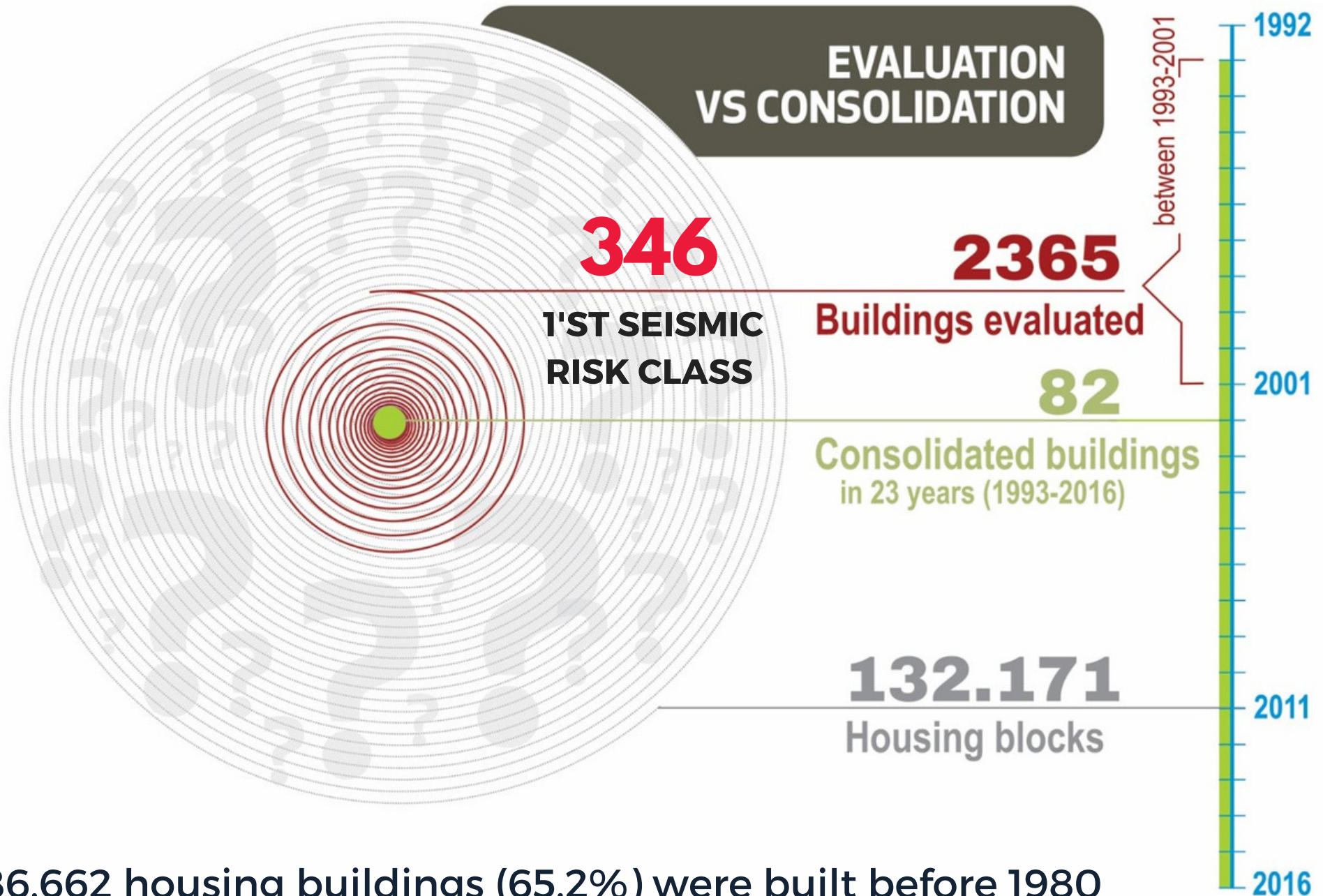


TO BE UPGRADED  
BY





Total evaluated buildings (includes Risk Categories Classes according to P100-3/2008, Emergency categories according to P100/92 but also those that have been evaluated but not classified)



86,662 housing buildings (65.2%) were built before 1980  
31,511 housing buildings (23.7%) were built before 1945



# How vulnerable is Bucharest?

## How sustainable is Bucharest?



STR. DOAMNEI 5 (1934)  
HISTORICAL MONUMENT BUILDING



STR. DIMITRIE BOLINTINEANU 5 (1936)



SOSEAUA ȘTEFAN CEL MARE 31 (1963)



SPLAIUL INDEPENDENȚEI 2K (1915)  
HISTORICAL MONUMENT BUILDING



# What do we have?

- Seismic Design and Codes
- Theoretical and field researches
- Methodologies
- Analysis
- .....



**We forget something?**

**over 8 000  
people are  
living inside of  
295 seismic  
risk class 1  
building**

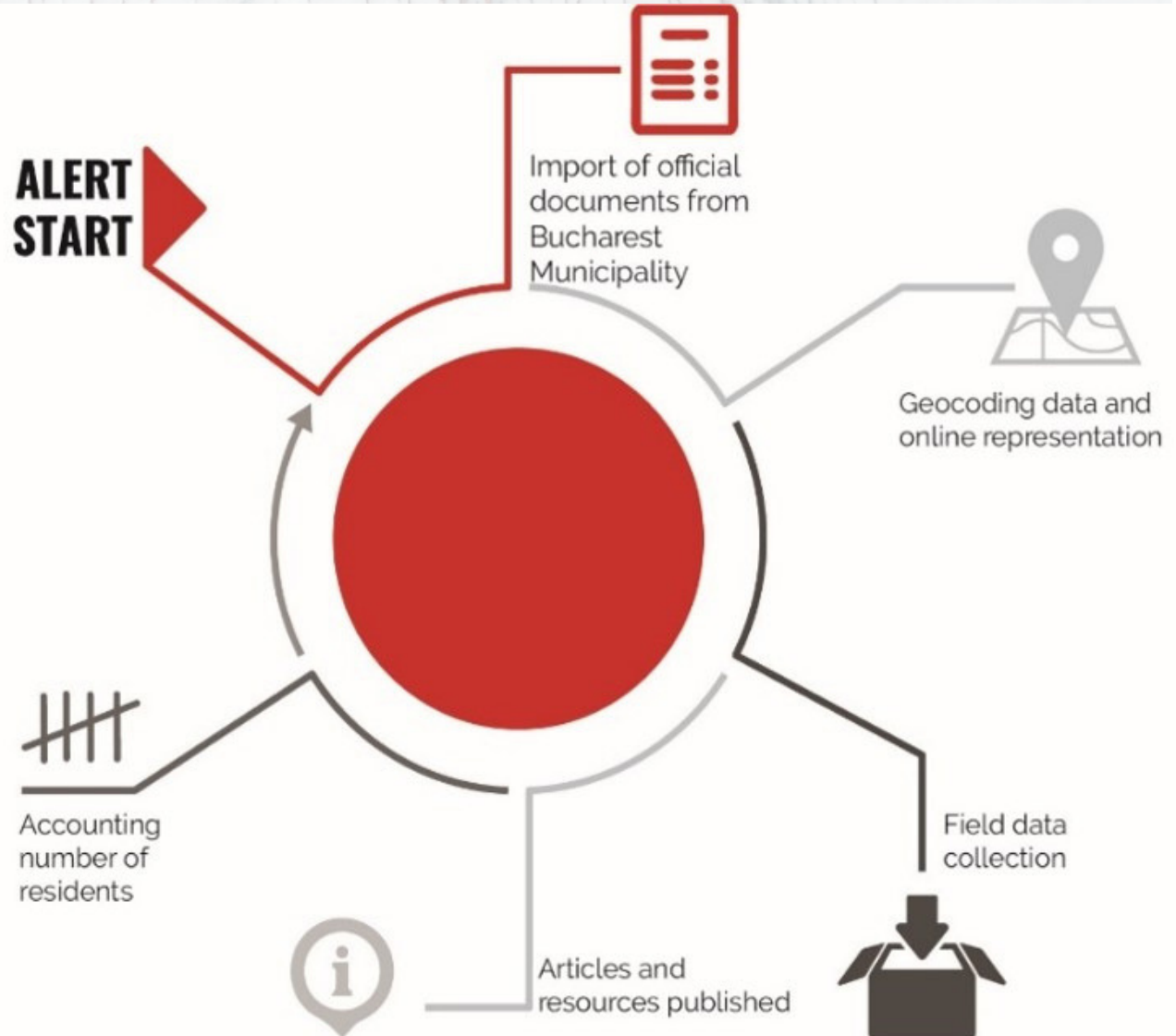





# ALERT methodology

**Clădiri expertizate tehnic  
incadrate  
în clasa I risc seismic**

• • • •





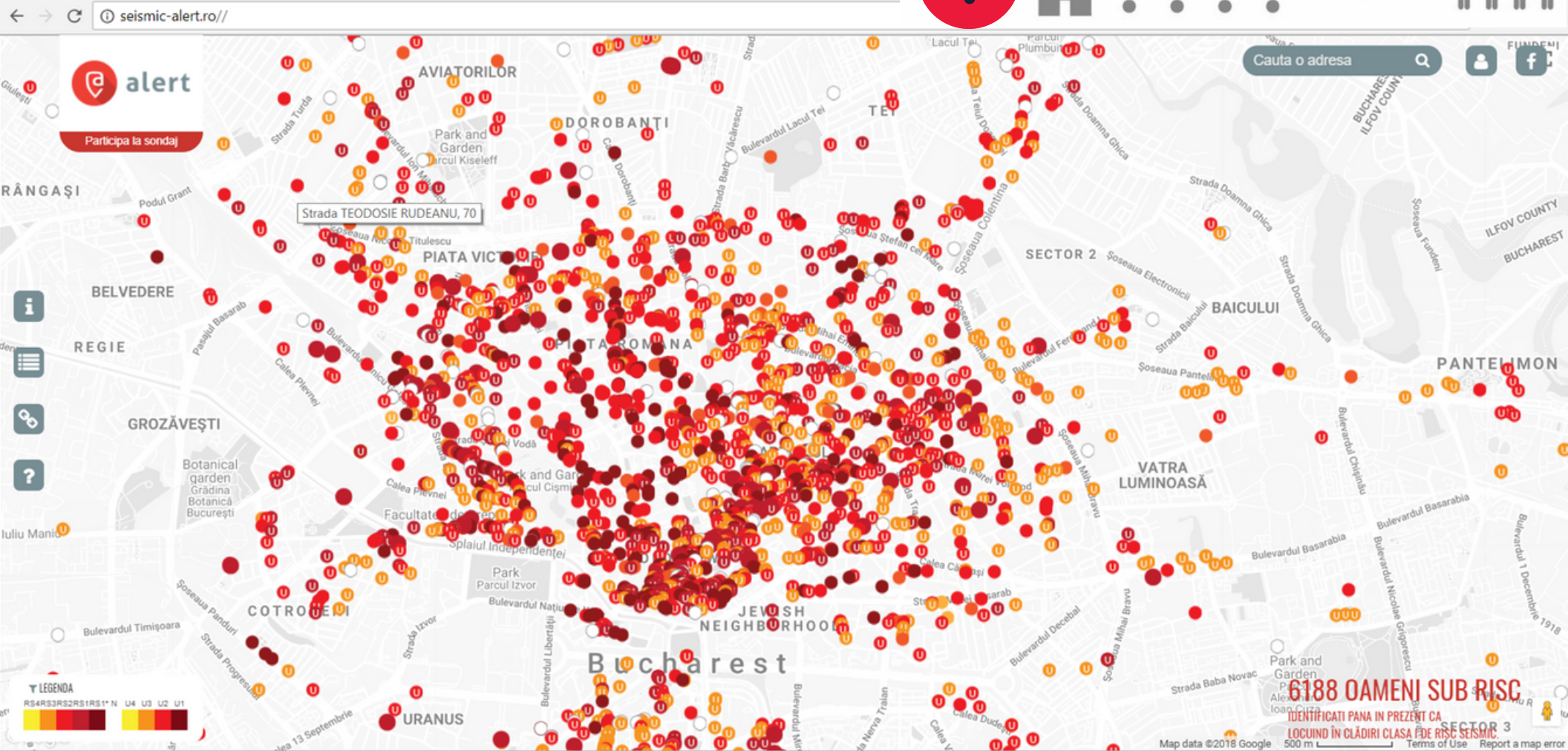


**Proactive persons,  
interested in the issue of  
building management  
and consolidation  
solution through the  
Government Program or  
other financial sources;**

**Uninformed, distrustful,  
or disinterested in  
finding solutions for the  
structural consolidation  
and disaster risk  
management.**



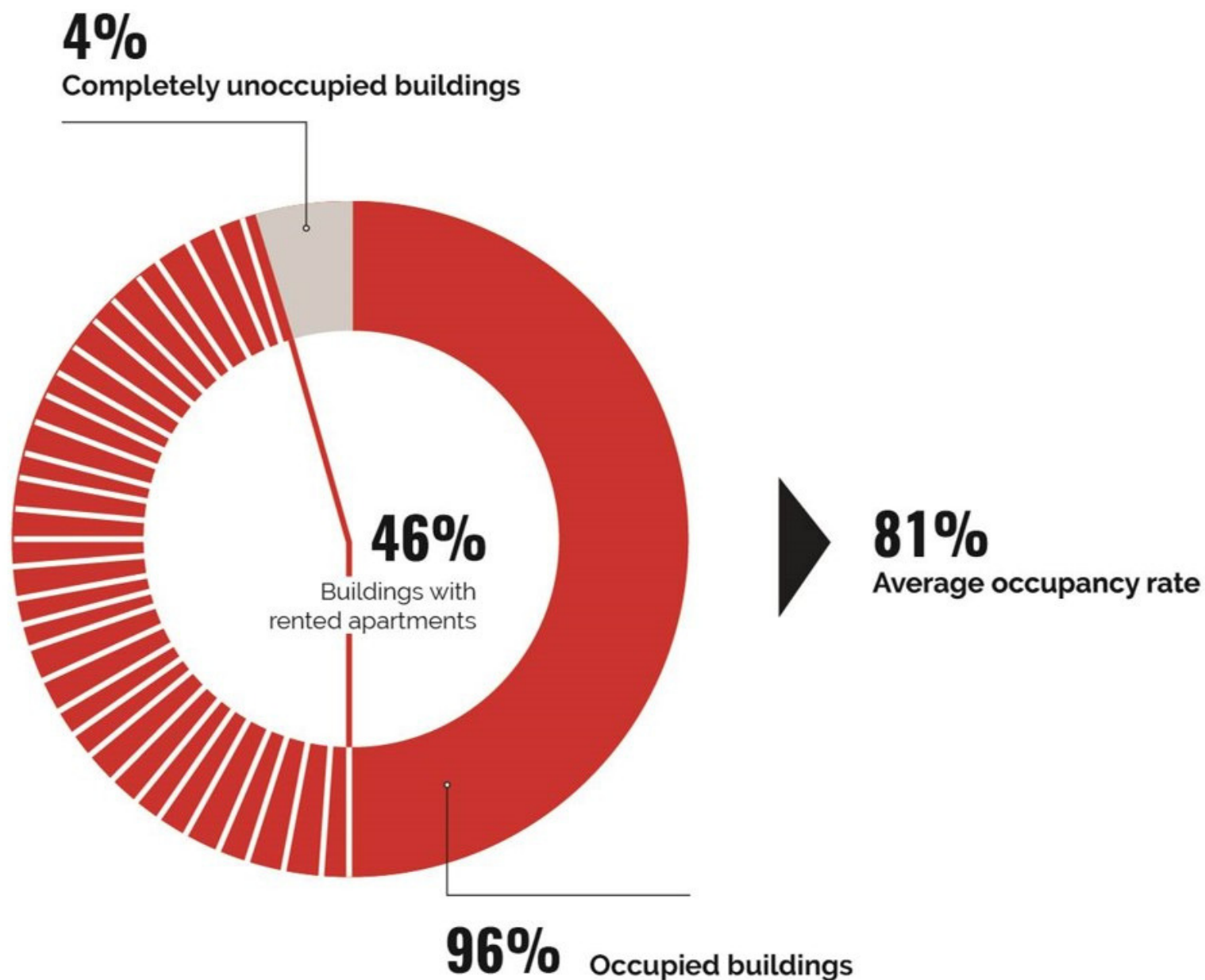
# voluntary crowdsourcing data platform



seismic-alert.ro



# IN SEISMIC CLASS 1 BUILDINGS:





**Classified in 1993 as  
Emergency Category  
(Re)Evaluated at the request of  
owners Seismic risk Class I**



SOSEAUA ȘTEFAN CEL MARE 31 (1963)



**2018  
Still Seismic risk Class I  
+ insulation**



# GETTING PREPARED BEFORE IT HAPPENS



DISASTER  
RELIEF  
TOOLKIT

DEVELOPED BY





# **HARNESSING TECH TO KEEP ROMANIA SAFE**

IMMEDIATE SUPPORT FOR  
THOSE IN NEED AND  
THE RECOVERY TEAMS

EDUCATING CHILDREN ON  
WHAT TO DO IN CASE OF  
EARTHQUAKE

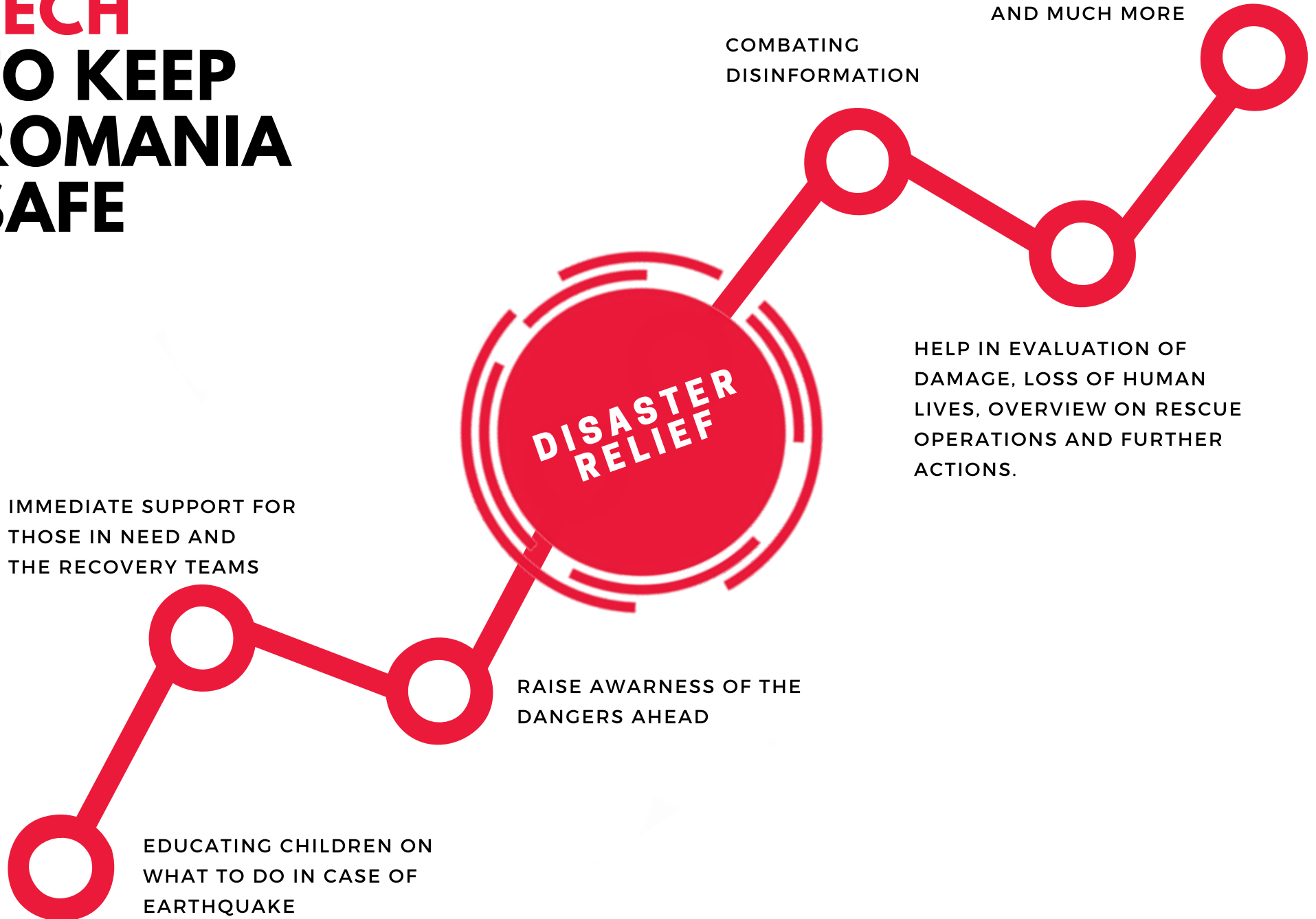
RAISE AWARENESS OF THE  
DANGERS AHEAD

**DISASTER  
RELIEF**

COMBATING  
DISINFORMATION

HELP IN EVALUATION OF  
DAMAGE, LOSS OF HUMAN  
LIVES, OVERVIEW ON RESCUE  
OPERATIONS AND FURTHER  
ACTIONS.

REAL TIME DATA ON FOOD  
BANKS, HOSPITALS, MISSING  
PERSONS, HELP CENTERS  
AND MUCH MORE





# KNOWLEDGE TRANSFER AND PAYING IT FORWARD

Our colleagues at Codeando Mexico and Code for America developed dozens of apps in the wake of the earthquakes and hurricanes that hit their countries in 2017.

We are in a position to be better prepared for the next major earthquake by adapting and importing these solutions and developing new ones to add to a global disaster relief toolkit.



IMMEDIATE SUPPORT FOR  
THOSE IN NEED AND  
THE RECOVERY TEAMS



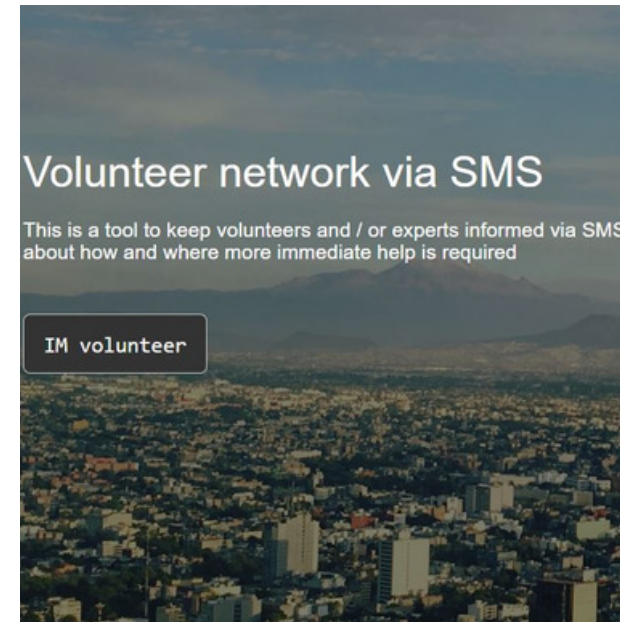
# TECHNOLOGY EMPOWERING CITIZENS



## Cómo Ayudar MX

### Donations

This project serves as an information repository to help gather and display information about associations, entities, organizations, collection centers or any type of help in case of natural disasters.





# KNOWLEDGE TRANSFER AND PAYING IT FORWARD

## CHALLENGES

- LANGUAGE BARRIERS
- DIFFERENT TOOLING
- AUTOMATION LEVEL
- VOLUNTEER WORK

## ADVANTAGES

- IMMEDIATE SOLUTIONS
- A LARGE NETWORK
- SUPPORT AND COMMUNICATION
- ACCESSIBILITY





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