



Can we make houses and schools safer and cheaper against earthquakes? Yes, with your help we can!



WHY? How to earthquake proof a simple traditional house? What is the best foundation for a rubble stone building? How to make a safe roof on this school? What reinforcements do we need in these hospital walls...? It is 2017 and we still don't know much about this important basic knowledge. Expensive and in-depth scientific research is seldom undertaken for these 'non-engineered' techniques, and therefore the existing information is often confusing, contradicting and incomplete. Meanwhile millions of people live in traditionally built houses and go to school in dangerous buildings. Natural disasters like earthquakes occur frequently and the impact and destruction increases with the years. Simply said: Due to lack of reliable knowledge and tested data, structures are not safe, the building quality is poor, money is wasted and people are being put at risk every day. SMARTnet is going to change all that!



SMARTnet is our latest groundbreaking project that goes back to the basics. We research what is needed to make simple and safe earthquake resistant buildings, and we develop practical solutions. But we cannot do this alone and your contribution, big or small, can make a huge difference in how fast we can find these solutions!



WHO ARE WE? SMARTnet is the most challenging project so far of the Dutch non-profit Smart Shelter Foundation. In the past 10 years we have built earthquake resistant buildings and did research in Nepal, India and Indonesia. Our projects have survived the recent 2015 earthquakes in Nepal without any significant damage. Unfortunately this was not the case for more than 1.000.000 houses and schools that were damaged or have collapsed. We need to know **WHY?**



HOW? We have started innovative collaborations with universities, experts and earthquake institutes worldwide, in order to tackle all basic issues. We will test and validate existing knowledge, we will optimize existing techniques, and we will complement missing data. Our approach is unique as we include variables on which only limited research has been done. Such as local ground conditions, local material properties, and the influence of local workmanship on the building quality. Such methodology does not exist anywhere in the world today! With this data and aided by sophisticated computer programs, we can better calculate and test the techniques.



IMPACT. All scientific and technical data will be translated to practical and directly applicable solutions with simple examples and videos, to make the information understandable and useful for everyone: from the architects and aid organizations, to the local masons and carpenters. All validated knowledge can be found at the online SMARTnet platform, free of cost, and we make sure that it will reach those areas where it is needed the most. This will lead to a strong improvement of the quality, and will save time, money and material.



With your help we can find these answers quickly, and together we can provide safe and affordable housing for millions of people worldwide!



YOUR SUPPORT. SMARTnet needs 15.000 Euro for the period 2017- 2018. With this amount we can develop the online platform, and we can research, test, improve and optimize the technique with mountain stones for Nepal. If you want to support sustainable and long-term solutions please make a donation via IBAN **NL 80 ABNA 04 36 02 54 69** and swift code **ABNANL2A**.



For more information, for questions and to see our research assignments and progress you can visit our website. We look forward to hear from you! Martijn Schildkamp and Tessa van Weelie

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Thank you in advance and we wish you a great time at the Torino – Nice rally!