

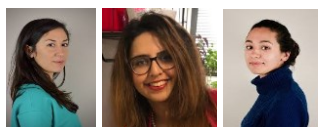
# Annex 70: meaning for NL

Prof. Dr. Laure Itard  
Chair Building Energy Epidemiology  
14-6-2021

1

## Participation

- 3 PhDs: Faidra Filippidou, Paula van den Brom, Shima Ebrahimiagharehbaghi



- Chair Building Energy Epidemiology (BEE)

2

# Why was it good for NL to participate ?

## 1. International Network



- Langevin, J., Reyna, J.L., Ebrahimigharebaghi, S., Sandberg, N., Fennell, P., Nägeli, C., Laverge, J., Delghust, M., Mata, É., Van Hove, M. and Webster, J., 2020. Developing a common approach for classifying building stock energy models. *Renewable and Sustainable Energy Reviews*, 133, p.110276.
- Fennell, P., Ebrahimigharebaghi, S., Mata, É., Kokogiannakis G., Amrith, S., Ignatiadou, S., 2021. A review of the status of uncertainty and sensitivity analysis in building-stock energy models. Submitted to the Journal of Renewable and Sustainable Energy Reviews.

# Why was it good for NL to participate?

## 2. Top Knowledge

- Types and Scales of Building Stock Energy Models
- Advanced data-driven Calibration methods
- Advances methods for Uncertainty and Sensitivity Analysis (e.g. due to data scarcity for representative buildings or occupant-related)

## 3. Awareness

- NL is a small country with typical ways of registering data (e.g. energy use is registered at address level)
- Other countries may use less privacy-sensitive methods, where models are calibrated at neighbourhood or regional level and use disaggregation models to infer properties of buildings
- Coupling with GIS

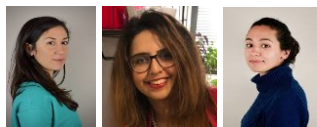
## Why was it good for NL to participate

### 4. Netherlands Enterprise

- Essential knowledge for energy transition policy-making in Built Environment
- Embedding in international developments
- Knowledge used to contribute to national programs:
  - BTIC-IEBB (Integral Energy Transition in the Built Environment, TKI)
  - Guidance in validation core Dutch Building Stock Energy software (e.g. NTA8802, Vesta-Mais)
  - Analyses of national databases SHAERE for calibration software
- Knowledge useful to contribute to setting up future programs

## Thanks from NL!

- 3 PhDs: Faidra Filippidou, Paula van den Brom, Shima Ebrahimigharehbaghi



- Chair Building Energy Epidemiology (BEE)