



## **BIM/GIS and Modelica Framework for building and community energy system design and operation**

### **TASK 3: Application and Dissemination** **ST 3.1 District Energy DESTEST**

Dirk Saelens (task leader)  
Ina De Jaeger (presentation)  
Tohid Jafarinejad (chat moderator)

Online expert meeting – status presentation – 2020.10.13

# Agenda for WP3 break-out sessions

Session 1 (Day 1)		50 min
Building modelling	Current status	Ina
	Documentation of Building CE1,2,3	Ina
	Comparison of simulation results?	Hicham
Session 2 (Day 1)		55 min
Literally break-out → Participants choose session of interest		
Session 3 (Day 2)		45 min
Network modelling	New subgroup leader	Michael
	Network Test enhancements by Clemens: documentation, data availability, KPIs	Clemens
	Ground effects with low temperature network: pipe parameters, ground implementation, pipe interaction?	
Session 4 (Day 2)		45 min
Future plans	Buildings: plans + commitments	Ina
	Network: plans + commitments	Michael

# Plan for next 6 months: Network

- New subgroup leader: Hicham Johra!
  - Thanks Michael for all of your work and enthousiasm!
- Practical organisation
  - Update documentation based on the experience of Clemens
  - Upload results to GitHub repository
  - Use Python tool for KPI calculation
  - Create document: Tips & tricks for network modelling
- Next common exercise:
  - Step-by-step: single question applications
    - Thermal insulation of pipes? Effect of ground heat exchange?

# Plan for next 6 months: Buildings

- New subgroup leader: Tohid Jafarinejad!
- Practical organisation
  - Create documentation for Buildings CE2, CE3, CE4
- Next common exercise:
  - Office model contributions

# Plan for next 6 months: General

- Have a first working version of the DESTEST repository - Tohid
- Write out our view on the aim of DESTEST - ALL

# You want to contribute?

→ Great! What do you want to do?

- ◆ You want to model

- A single-family dwelling
  - We suggest to start with common exercise (CE) 1, as CE 2 and CE 3 build further on this
- An office building
  - We suggest to start with CE 4
- A district heating network
  - We suggest to start with CE 1

- ◆ All required data, you can find in the resources of the CE you want to do

→ Once you are ready, please provide your simulation results in the specified format

- ◆ See next slide

# You want to contribute?

- Make sure you are subscribed to our [WP3 Google Group](#)
  - ◆ That way, you do not miss anything
  - ◆ Meeting invites and minutes are sent here
- All information is collected in a [Google presentation](#)
  - More details: on the Project 1 [GitHub page](#) + in the e-mails sent in the [Google Group](#)