



Funded by the Horizon 2020 programme  
of the European Union

# H°TMAPS

[www.hotmaps-project.eu](http://www.hotmaps-project.eu)



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# Welcome!

to the

**Training** on the

**Hotmaps database and  
toolbox**

29<sup>th</sup> June – 17<sup>th</sup> July 2020, Europe



# Background

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- Climate change
- Low CO<sub>2</sub> economy and energy system is necessary
- Heating and cooling is highly relevant
- Heating and cooling needs long term planning
- Aim of Hotmaps: assist long term planning in heating and cooling



# Hotmaps – What for?

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*Hotmaps develops, demonstrates and disseminates a toolbox to support public authorities, energy agencies and planners in strategic heating and cooling planning at local, regional and national levels, and in line with EU policies.*



# Aim of the event

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## Learning & Training

After the training you should know how to use the Hotmaps database and toolbox for analysing and planning heating and cooling in a selected region

## Testing

The event will also serve as further test of the tools and the platform and most probably assist to increase stability, usability and credibility



# Hotmaps – The 3 pillars

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- User-driven: developed in close collaboration with 7 European pilot areas
- Open source: *the developed tool and all related modules will run without requiring any other commercial tool or software. Use of and access to Source Code is subject to Open Source License*
- EU-28 compatible and adaptable: *the tool will be applicable for cities in all 28 EU Member States by default and users can upload their own data*



# The experts behind the project

## Scientific partners



TECHNISCHE  
UNIVERSITÄT  
WIEN  
Vienna | Austria



Hes-SO

Haute Ecole Spécialisée  
de Suisse occidentale  
Fachhochschule Westschweiz  
University of Applied Sciences and Arts  
Western Switzerland



## Pilot areas for developing and testing the tool



Bistrita Municipality



donostiasustapena  
fomento sansebastián

DONOSTIAKO GARAPEN EKONOMIKOA



# Regional overview

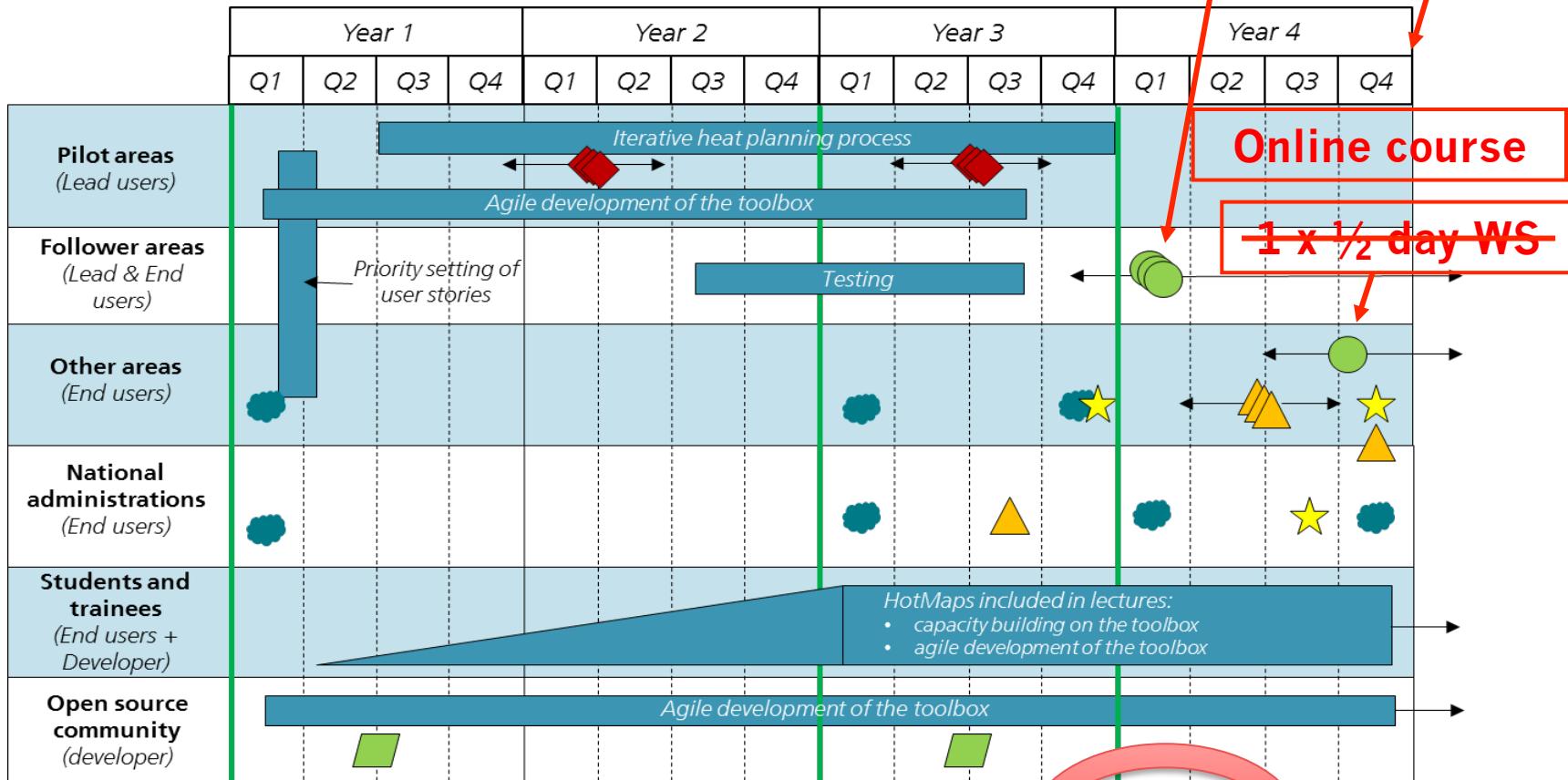




# Context & timing

**5 x 1½ days WS**

**Sept 2020**



[green square] conference / meeting

[yellow triangle] dissemination events

[red diamond] stakeholder meetings

[green circle] capacity building workshops

[yellow star] webinars



# Technology Readiness Levels

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- *TRL 7 – System prototype demonstration in operational environment*
- *TRL 8 – System complete and qualified*
- *TRL 9 – Actual system proven in operational environment (competitive manufacturing in the case of key enabling technologies; or in space)*

**Not in scope of the project  
→ not during project lifetime**



# Agile software development

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- Since the beginning of 2019 we have had a release every 3-4 months:
  - Beta release Jan. 2019
  - Release V1.0.0 Apr. 2019
  - Release V2.0.0 Aug. 2019
  - Release V3.0.0 Dec. 2019

*Further releases before the project ends*



# Status of the database and toolbox

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- Database:
  - For many data necessary for heating and cooling analysis default data are in the database; however, not all data contained and data not necessarily correct
  - In course of the Hotmaps project no further changes will be done
  - Follow-up project for further elaboration just recently started
- Toolbox:
  - Numerous automated and manual tests have been performed on stability and usability for all release versions
  - In this release it's the first time that all CMs relevant for the toolchain are included
  - Still we cannot be sure that no errors occur
  - We have 2 servers that will be used
- Wiki:
  - Still has to be improved
  - Most information should be contained and findable



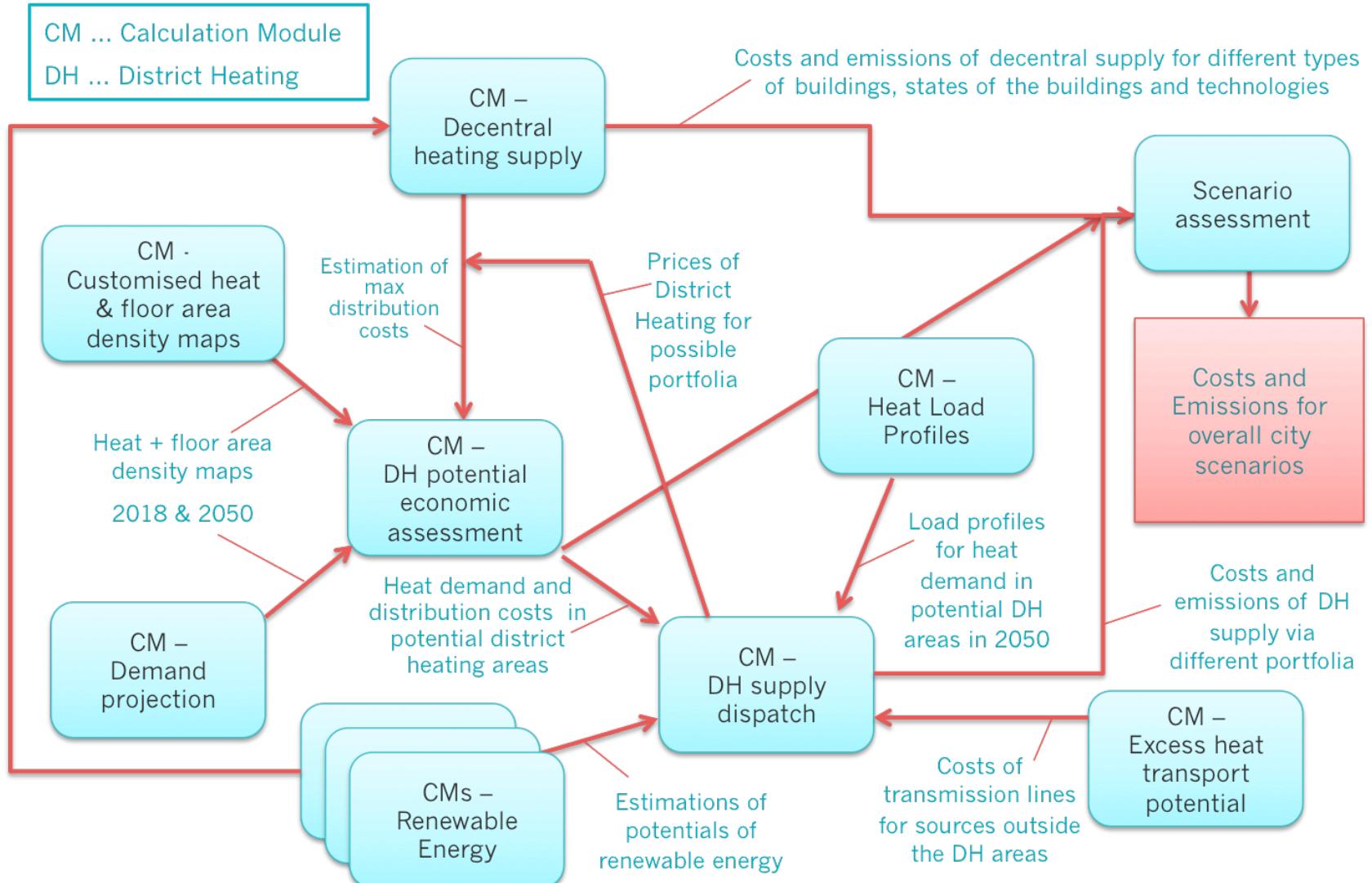
# Agenda of the training

## Hotmaps\_eLearning\_Info\_short\_EN\_2020-06.pdf

Week 1 / 3	eLearning - training agenda				
	29.06.2020	30.06.2020	01.07.2020	02.07.2020	03.07.2020
Hotmaps Training concept	Monday	Tuesday	Wednesday	Thursday	Friday
09:00-09:30					
09:30-10:00			Video and materials will be posted: E1/2		
10:00-10:30	"Preparatory" webinar: Welcome and introduction				
10:30-11:00					
11:00-11:30	Videos will be posted: Intro to planning and data			Support session	
11:30-12:00					
Lunch / break					
13:00-13:30					
13:30-14:00					
14:00-14:30					
14:30-15:00					
15:00-15:30					
15:30-16:00			Deadline 16:00: Questionnaire, data		
16:00-16:30					



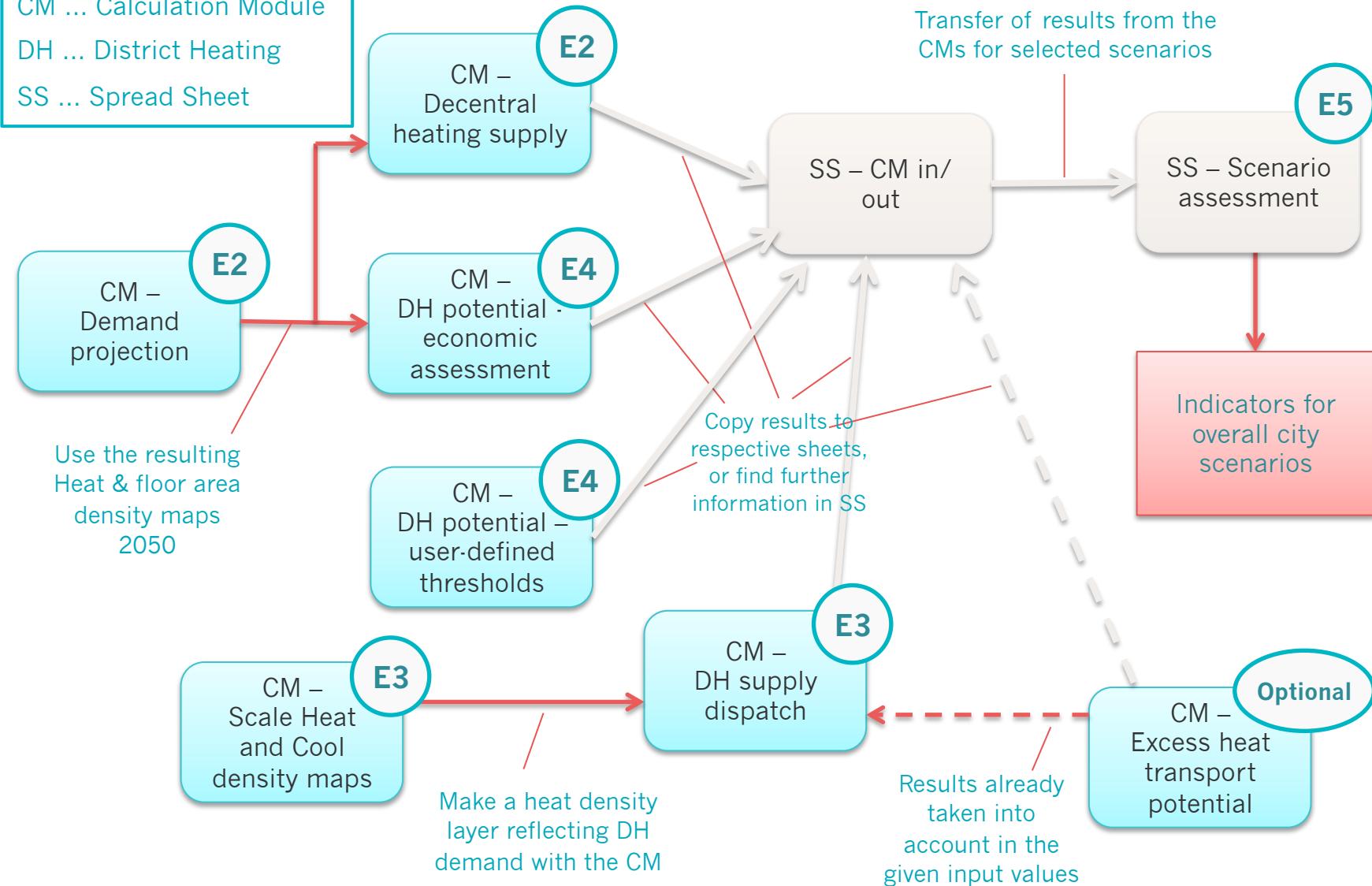
# Scenario Toolchain – Guidelines





# Scenario Toolchain – Training

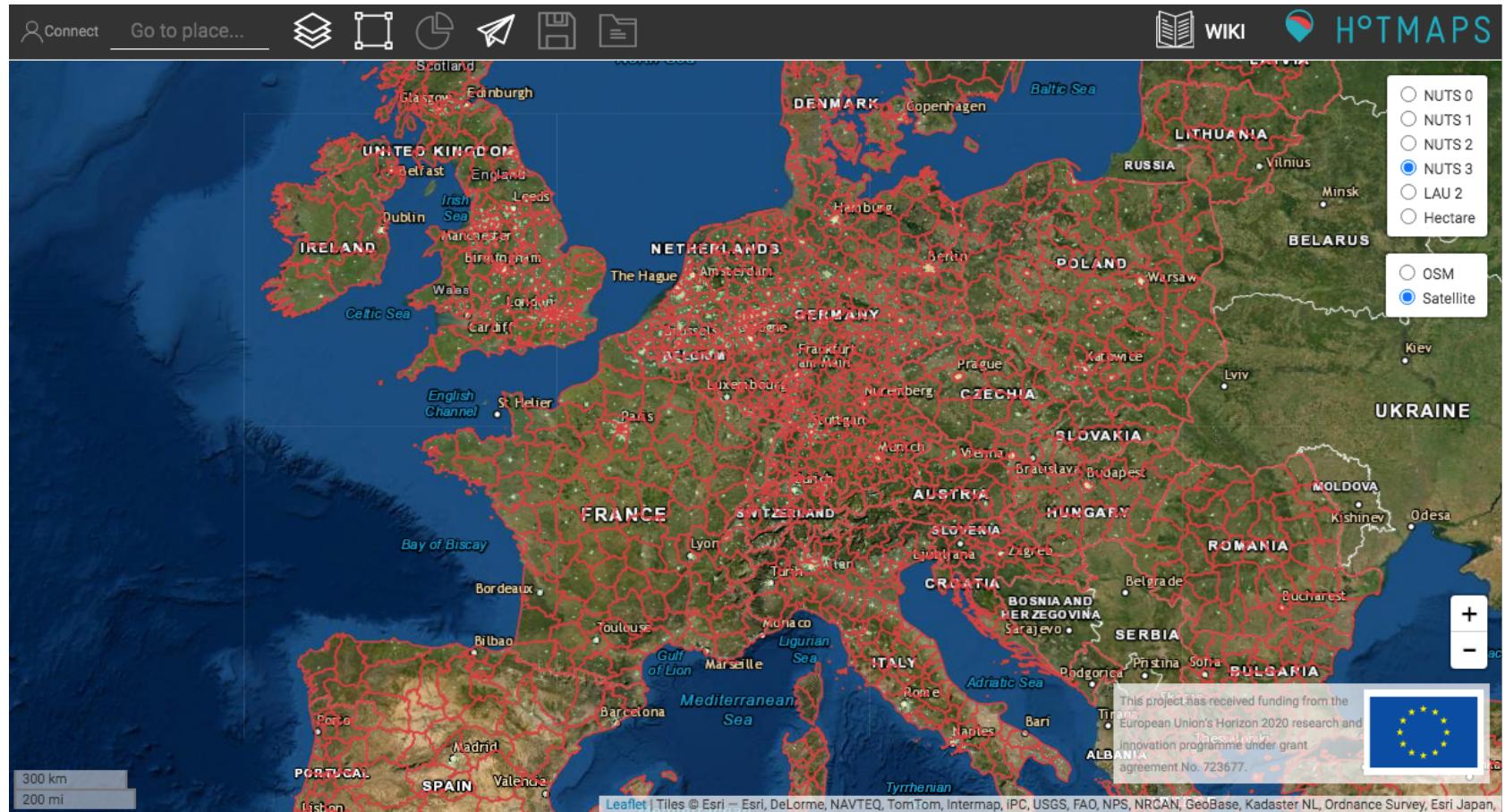
CM ... Calculation Module  
DH ... District Heating  
SS ... Spread Sheet





# Toolbox web address

[www.hotmaps.eu](http://www.hotmaps.eu)





# The training platform

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**Google Classroom** <https://classroom.google.com/>

1. Sign in to/Register your Google account,  
click Join class and provide the code: **fmkpos2**
2. OR accept the invitation received by email

In the classroom you will find:

- **STREAM**: a wall with updates
- **CLASSWORK**: all material, assignments and tests
- **PEOPLE**: your trainers and classmates



# More Hotmaps links

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- Toolbox:  
[www.hotmaps.eu](http://www.hotmaps.eu)
- Project website:  
[www.hotmaps-project.eu](http://www.hotmaps-project.eu)
- Open Source Data for download:  
<https://gitlab.com/HotMaps>
- Open Source Modules for download:  
<https://github.com/HotMaps>



# What's next

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- Access the training platform  
<https://classroom.google.com/> code: **fmkpos2**
- Watch the Tutorial and Introductory Videos and submit the quiz not later than July 1<sup>st</sup> 4 PM
- Next appointments:
  - Wednesday 1<sup>th</sup> July 9 AM: Video recording of Exercise 1 and 2 will be posted on Google Classroom
  - Thursday 2<sup>nd</sup> July 11-12 AM: Live support session
  - More info and assigned support group by email



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Have fun!

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Please ask, if you have  
any question!



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## Contact

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