This project has received funding from the **European Union's Horizon 2020 Research** and **Innovation programme** under Grant Agreement No **885395**

SUSTAINABLE PLACES 2021

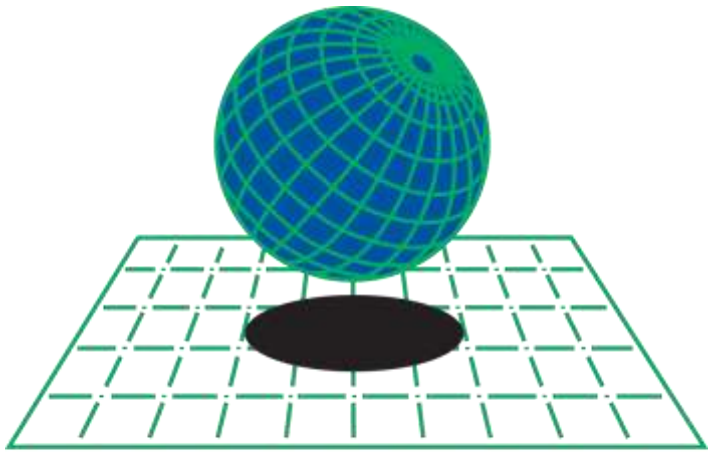
The EN-TRACK energy efficiency performance tracking platform for benchmarking savings and investments in buildings.
Data model development.

Sep. 28 - Oct. 1, 2021 | Rome, Italy

Edgar Martínez S.

CIMNE Beegroup

SUSTAINABLE PLACES 2021
Sep. 28 - Oct. 1, 2021 | Rome, Italy



CIMNE

beegroup
building energy and environment

CIMNE

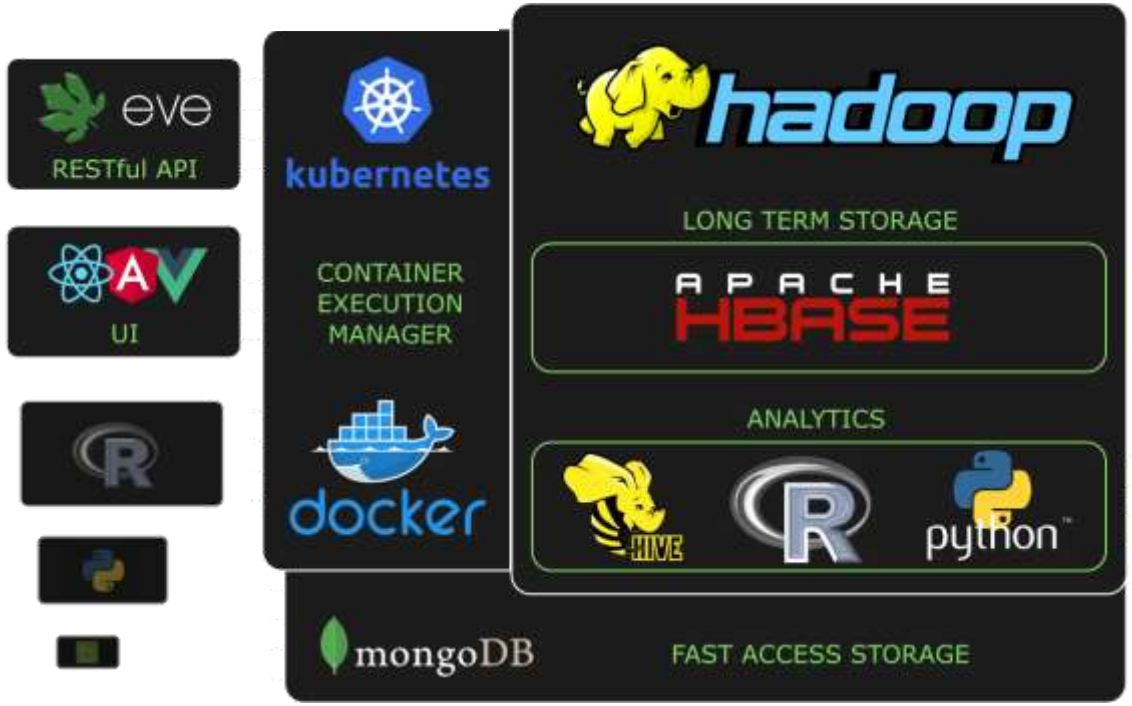
beegroup

European Commission | Horizon 2020 European Union funding for Research & Innovation

TRACK

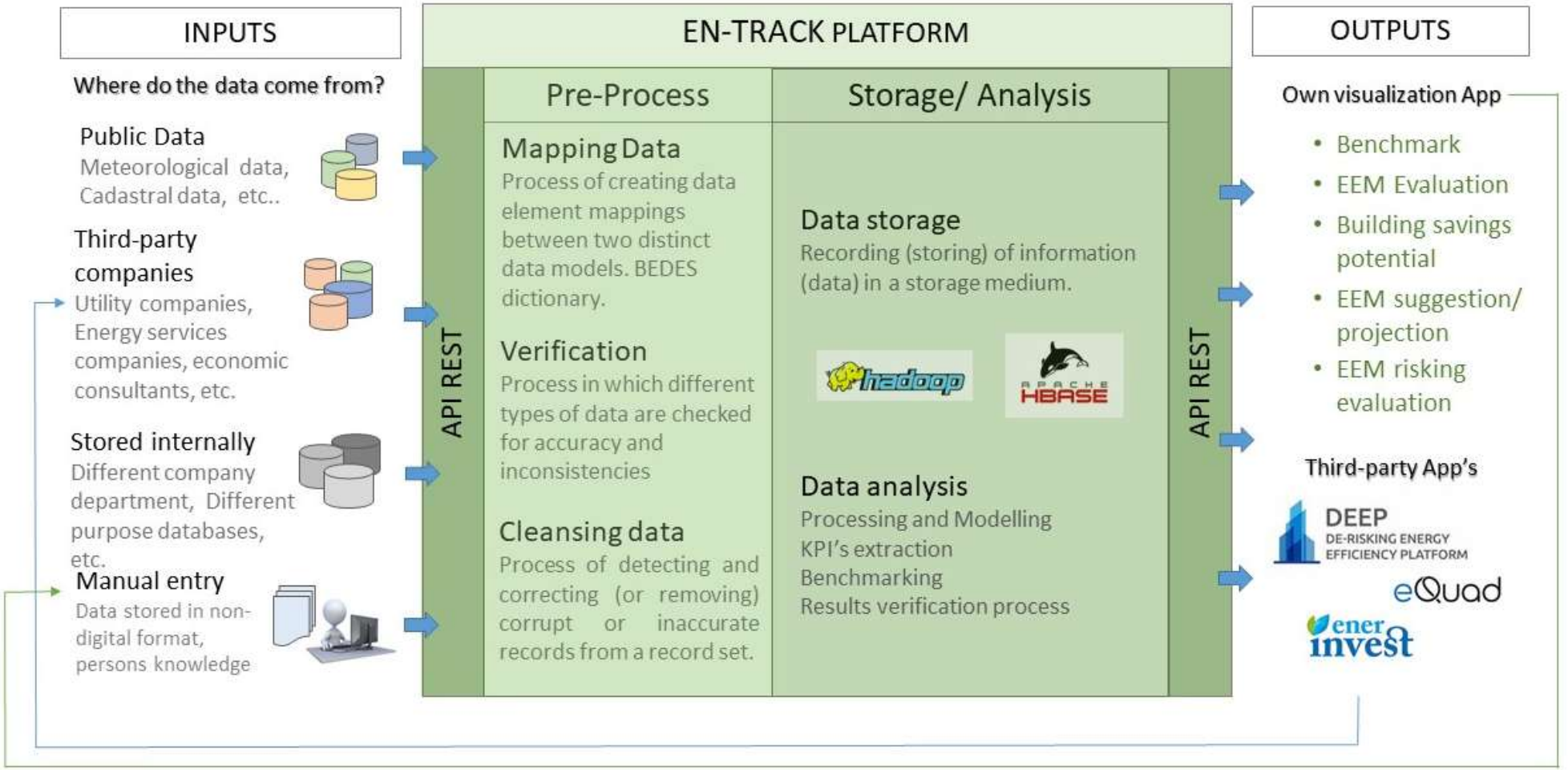
CIMNE BEE group
Big data architecture

- Big data framework
- Container execution manager (CEM)
- Representational state transfer (REST)



SUSTAINABLE PLACES 2021
Sep. 28 - Oct. 1, 2021 | Rome, Italy

EN-TRACK data process

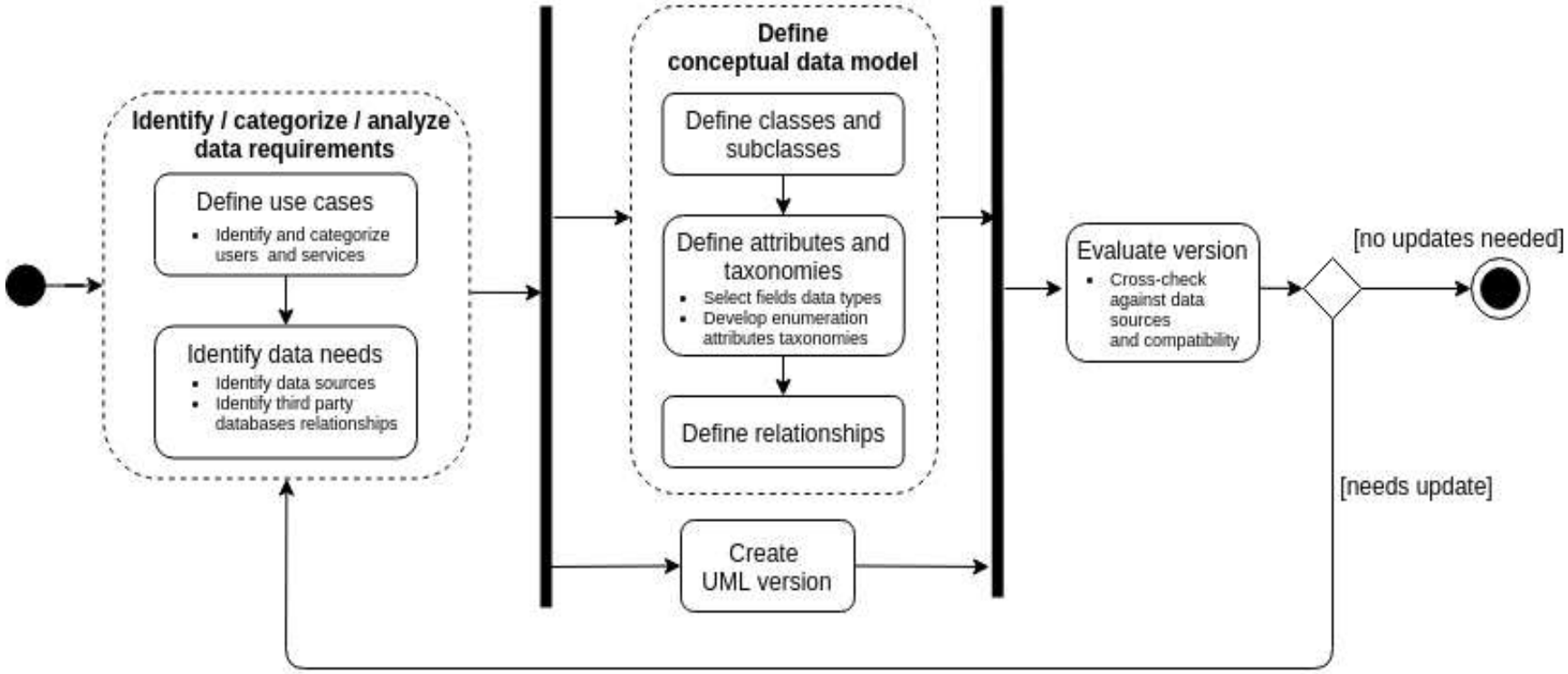


CIMNE
beegroup

European Commission | Horizon 2020 European Union funding for Research & Innovation

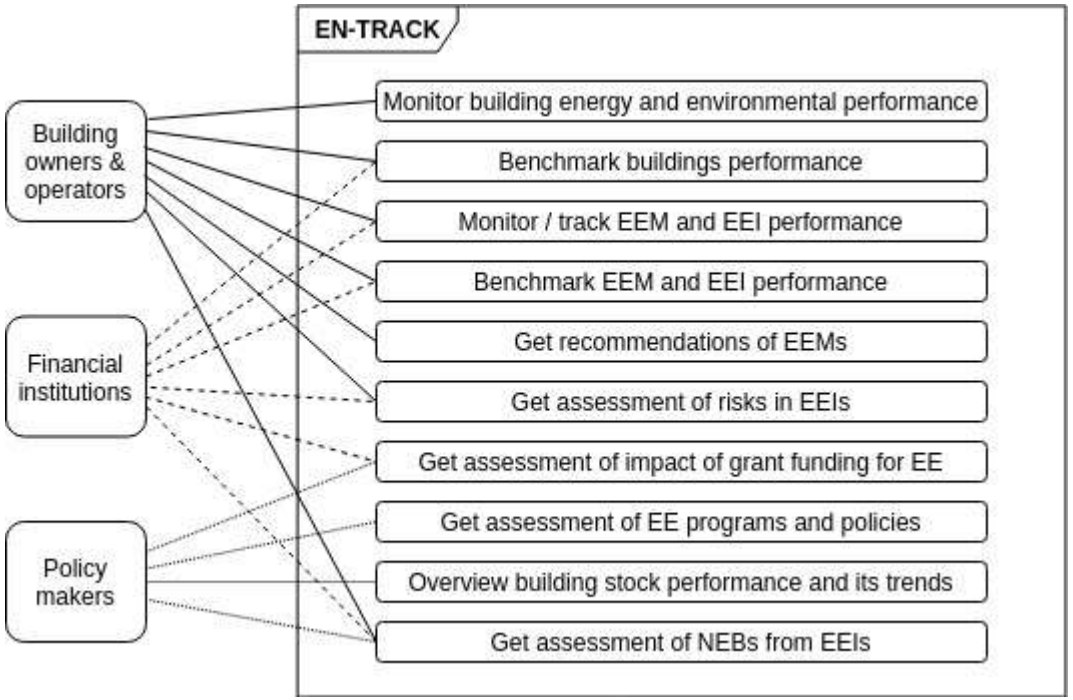
EN TRACK

Data model development process.



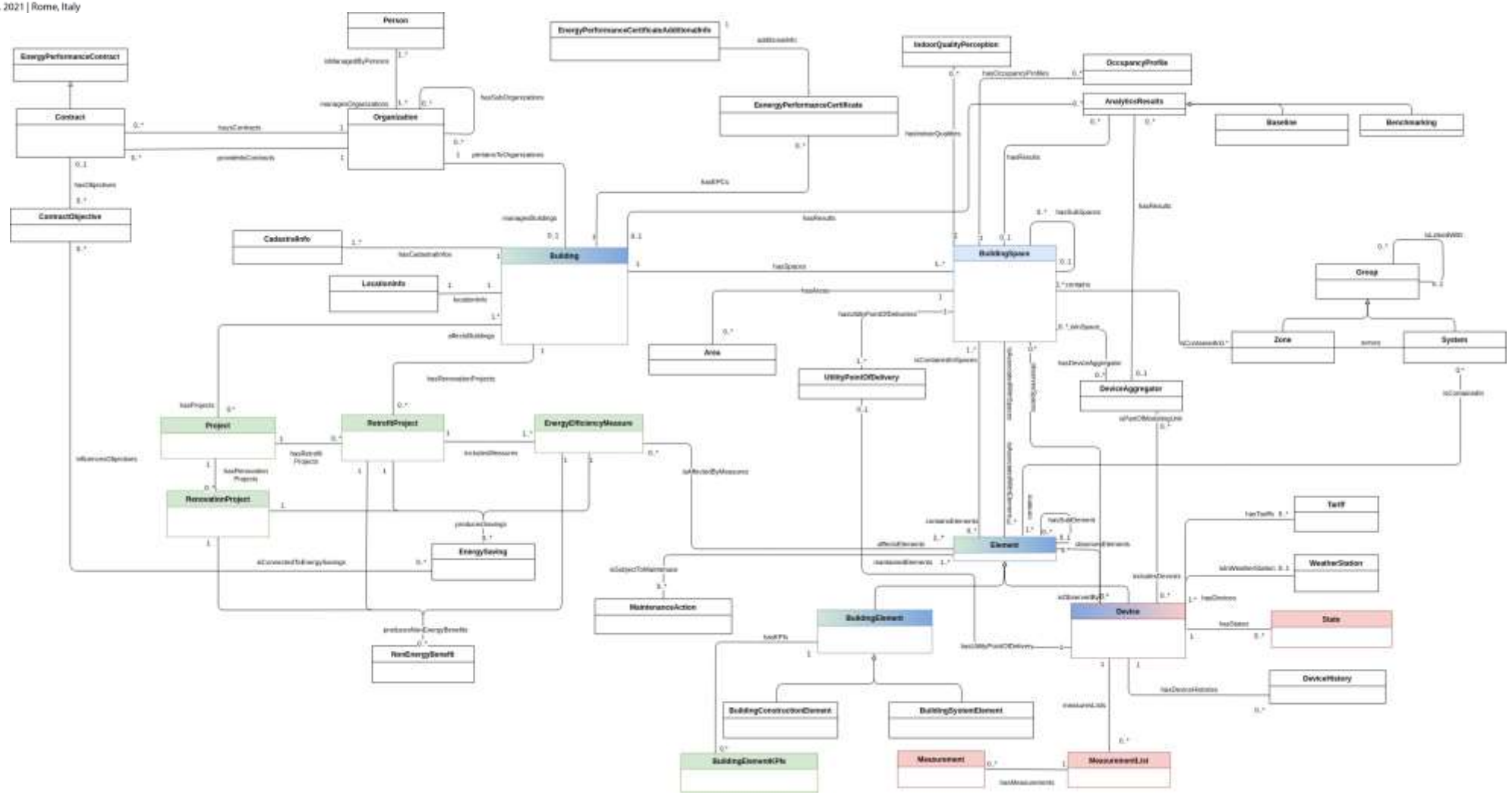
Horizon 2020 European Union funding for Research & Innovation

EN-TRACK use cases



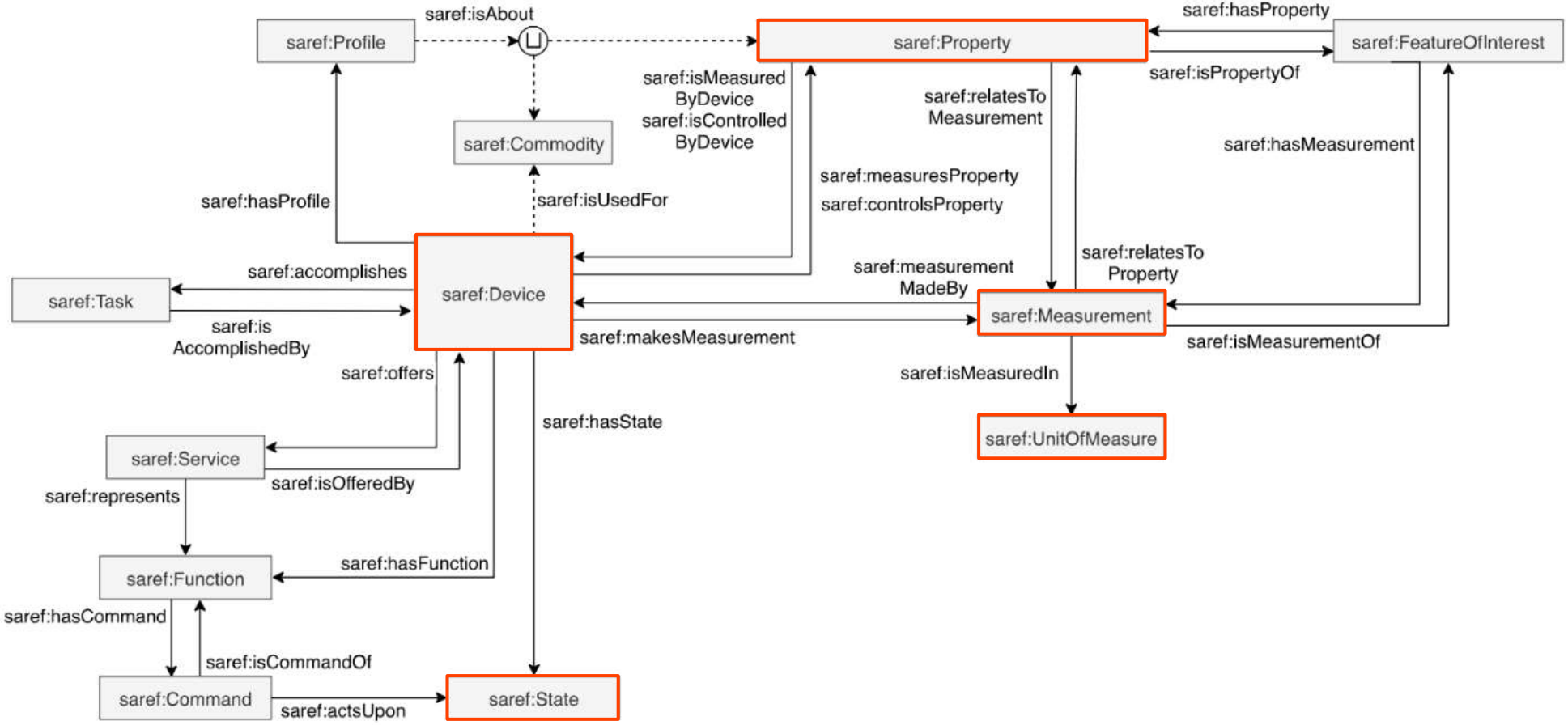
SUSTAINABLE PLACES 2021
Sep. 28 - Oct. 1, 2021 | Rome, Italy

Data model



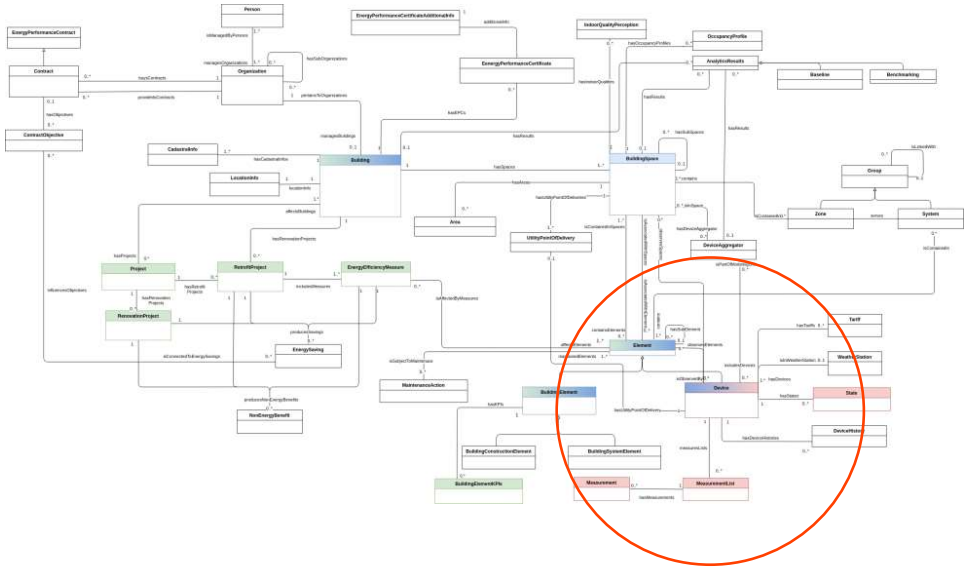
CIMNE
beegroup
European Commission | Horizon 2020 European Union funding for Research & Innovation
EN TRACK

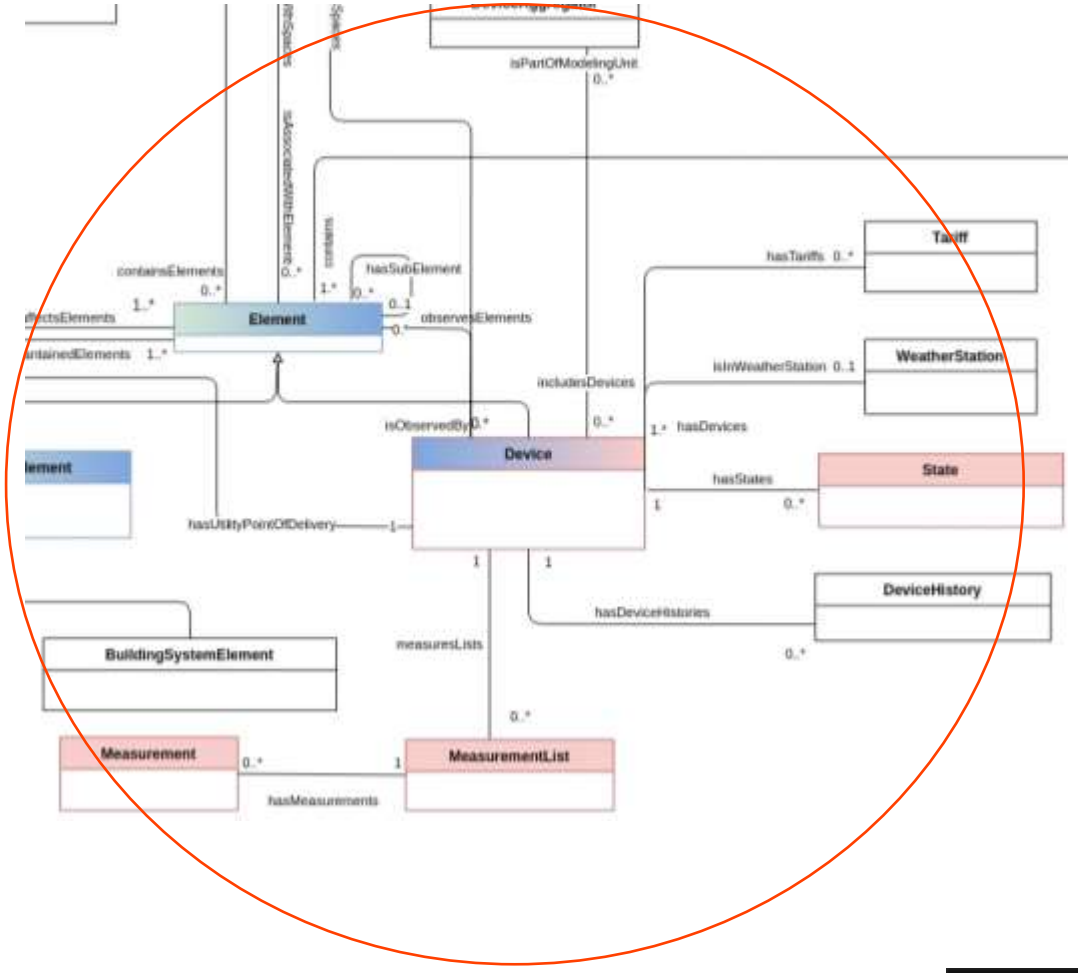
SAREF ontology



SUSTAINABLE PLACES 2021
Sep. 28 - Oct. 1, 2021 | Rome, Italy

SAREF classes

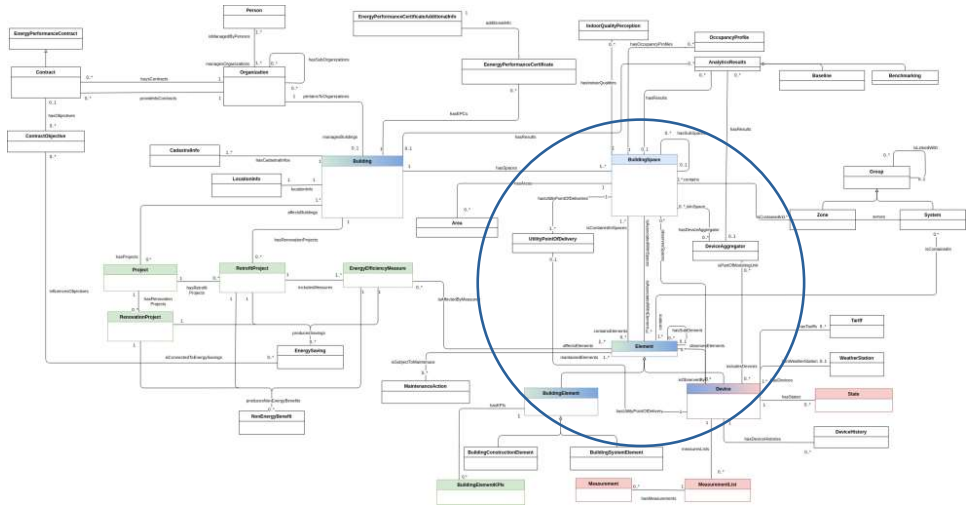


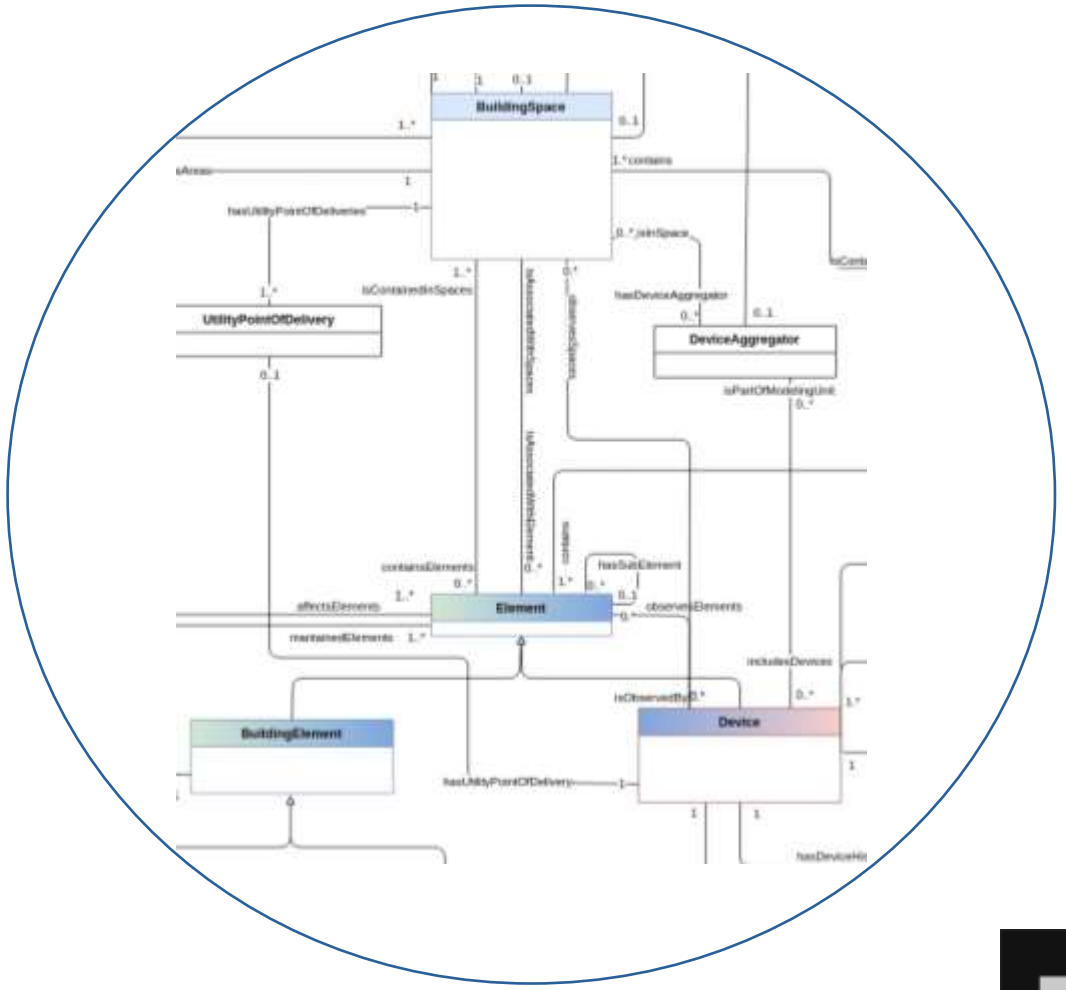


CIMNE
beegroup
European Commission | Horizon 2020 European Union funding for Research & Innovation
EN TRACK

SUSTAINABLE PLACES 2021
Sep. 28 - Oct. 1, 2021 | Rome, Italy

SAREF4BLDG classes

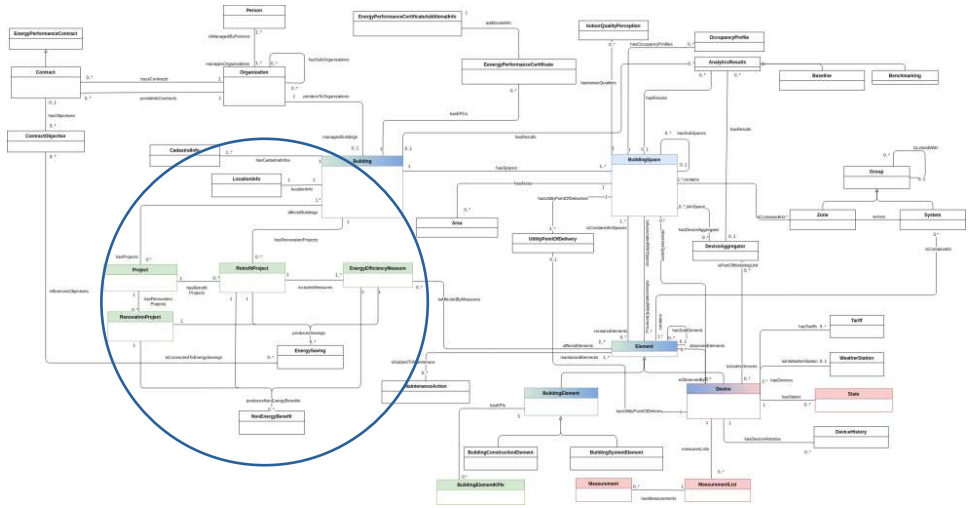


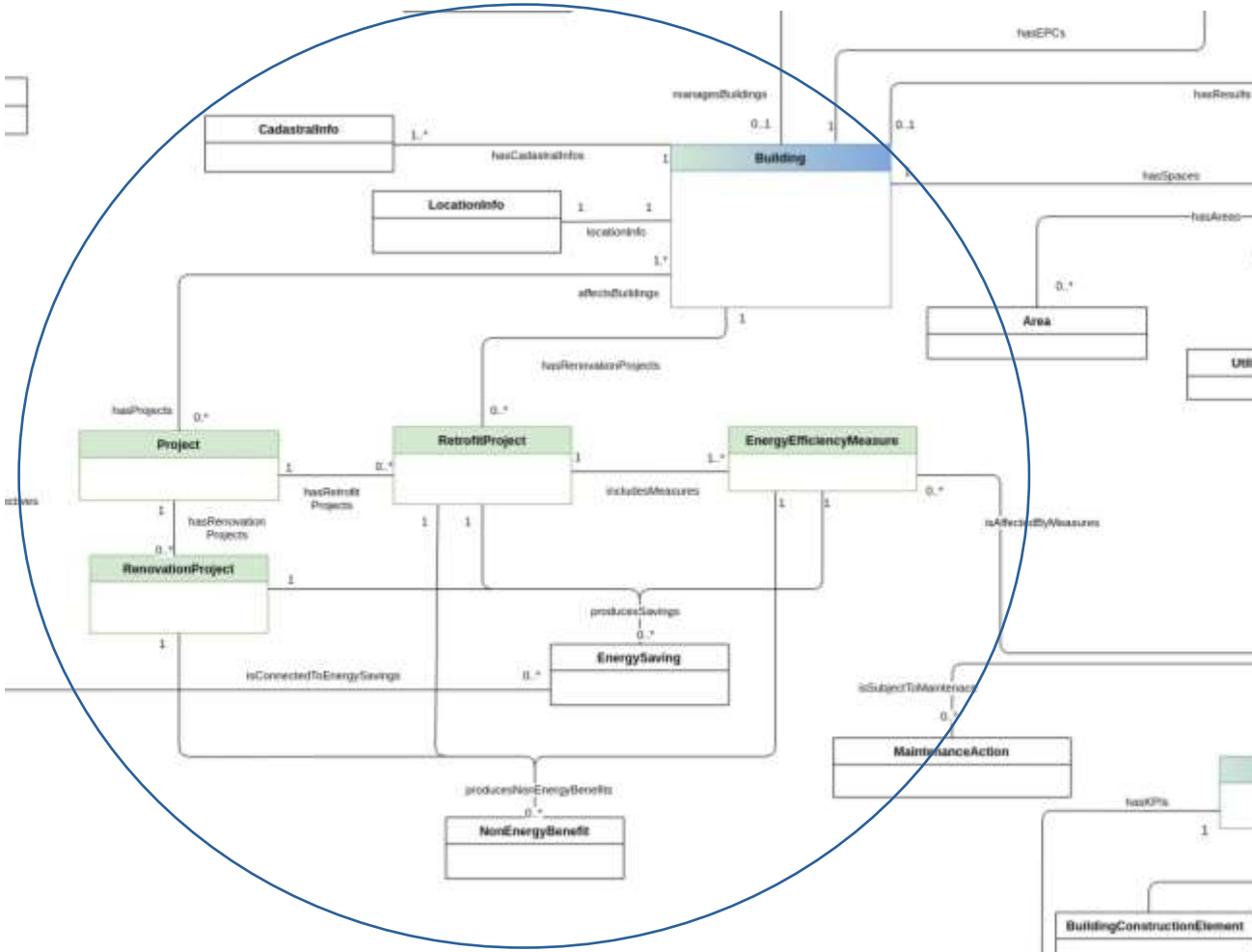


CIMNE
beegroup
European Commission | Horizon 2020 European Union funding for Research & Innovation
EN TRACK

SUSTAINABLE PLACES 2021
Sep. 28 - Oct. 1, 2021 | Rome, Italy

BIMERR classes

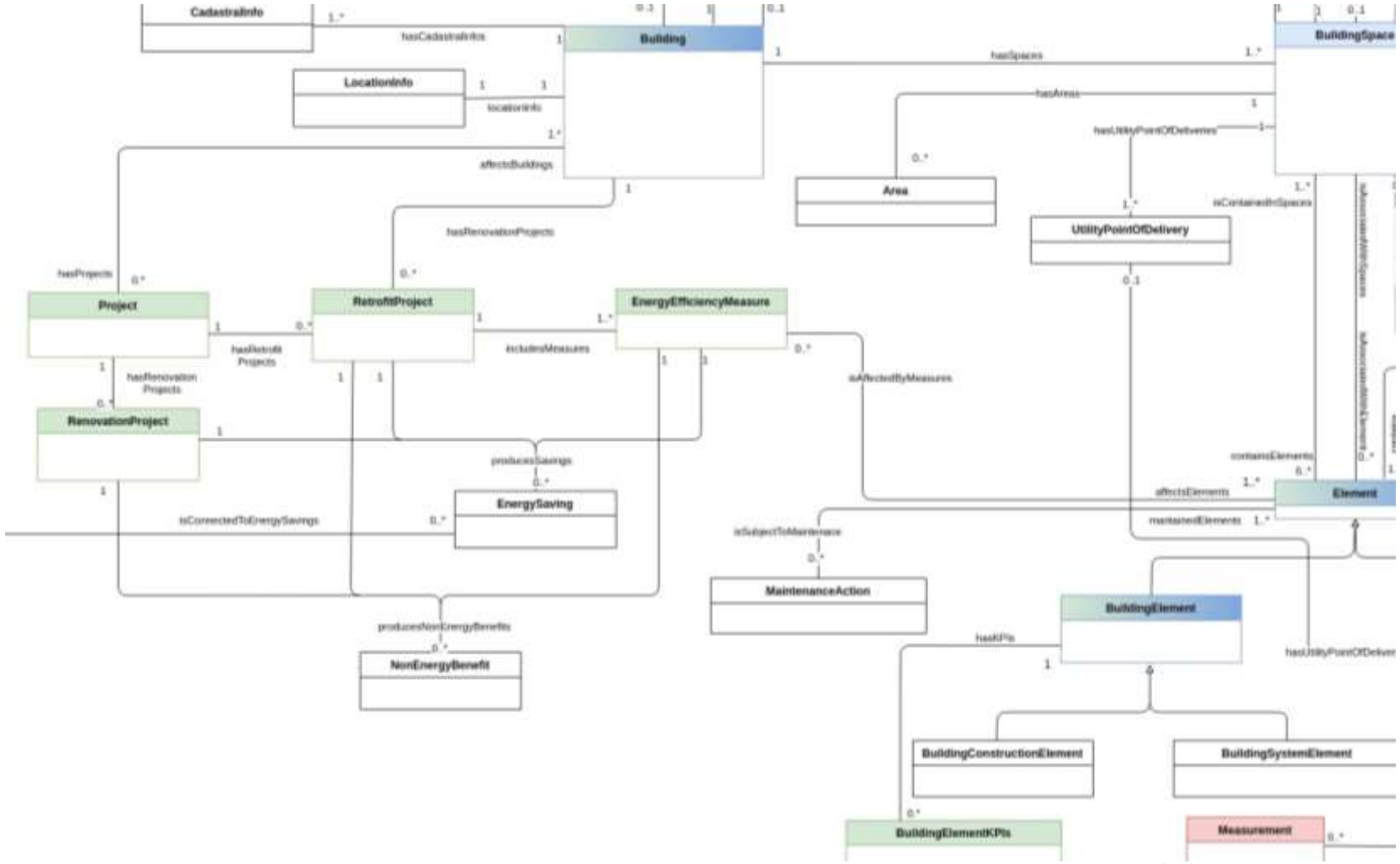




CIMNE
beegroup
European Commission | Horizon 2020 European Union funding for Research & Innovation
TRACK

SUSTAINABLE PLACES 2021
Sep. 28 - Oct. 1, 2021 | Rome, Italy

BIMERR classes



CIMNE
beegroup
European Commission
Horizon 2020
European Union funding
for Research & Innovation
EN TRACK

CIMNE

beegroup

European
Commission
Horizon 2020
European Union funding
for Research & Innovation

TRACK

CIMNE

beegroup

European
Commission
Horizon 2020
European Union funding
for Research & Innovation

TRACK

CIMNE

beegroup

European
Commission
Horizon 2020
European Union funding
for Research & Innovation

TRACK

CIMNE
beegroup
European Commission
Horizon 2020
European Union funding
for Research & Innovation
TRACK

CIMNE

beegroup

European
Commission
Horizon 2020
European Union funding
for Research & Innovation

TRACK

CIMNE
beegroup
European Commission
Horizon 2020
European Union funding
for Research & Innovation
TRACK

CIMNE

beegroup

European Commission

Horizon 2020
European Union funding
for Research & Innovation

TRACK

Thank you

www.en-track.eu

@en_trackh2020

@

en-trackh2020

The information and views set out in this presentation are those of the author(s) and do not necessarily reflect the official opinion of the European Union. Neither the European Union institutions and bodies nor any person acting on their behalf may be held responsible for the use which may be made of the information contained therein.

This project has received funding from the **European Union's Horizon 2020 Research** and **Innovation programme** under Grant Agreement No **885395**