

# LESSONS LEARNED

## Optimized local solutions

Partners of the BuildTog activities are excited about the result of the collaboration.

Depending on the local climatic, economic and cultural conditions the focus is either on building geometry (compactness, orientation, window sizes), building envelope quality (insulation, windows, shading) or building technology (ventilation, solar power, heat pumps).

The experience with new build of the last years shall now be transferred to retrofitting.



BuildTog - Darmstadt, Germany



BuildTog - Sénart, France

# JOIN BuildTog!

## Profit from collaboration with us

As confirmed by the participating partners especially European housing companies will profit by the know-how exchange.

From 2020 on the EU will ask for Nearly Zero Energy Buildings in all new constructions.

For all EURHONET members the main benefit of participating in BuildTog is to become skilled in applying the high performing Passive House standard for new build. The BuildTog solutions can also be transferred to retrofit.

For further information please visit our website: [www.buildtog.eu](http://www.buildtog.eu) or contact EURHONET: [eurhonet@eurhonet.eu](mailto:eurhonet@eurhonet.eu)

### Numerous housing companies have joined the EURHONET network

**France**  
FSM - Melun  
Habitat 62/59 Picardie - Calais  
Le Foyer Rémois - Reims  
Delphis - Paris

**Germany**  
bauverein AG - Darmstadt  
DOGEWO 21 - Dortmund  
GBG Mannheim - Mannheim  
GWG München - München  
BGW Bielefeld - Bielefeld  
Pro Potsdam - Potsdam  
Gewoba - Bremen  
VOLKSWOHNUNG - Karlsruhe

**Italy**  
ALER Brescia - Brescia  
ATC Torino - Torino  
IPES Bolzano - Bolzano  
IACP Bari - Bari  
A.T.E.R Treviso - Treviso

**Sweden**  
Familjebostäder - Stockholm  
Helsinborgshem - Helsinborg  
Gavlegårdarna - Gävle  
Mimer - Västerås  
Hyrebostäder - Norrköping  
Stångastaden - Linköping  
VätterHem - Jönköping  
ÖrebroBostäder - Örebro  
Bostadsbolaget - Göteborg  
UppsalaHem - Uppsala  
Botkyrkabyggen - Botkyrka

**United Kingdom**  
Bolton at home - Bolton  
Riverside - Liverpool  
Polar Harca - London  
MATRIX - Midlands



# BuildTog: BUILDING TOGETHER

## A European project



The first BuildTog in France, designed by Nicolas Michelin from A/NM/A, was opened in 2014 in Lieusaint.

EURHONET initiated the BuildTog project and developed it together with three further major actors in energy-efficient housing: A/NM/A, LUWOGÉ consult and BASF.

BuildTog's objective is to promote and spread a simple methodology throughout Europe which leads to

- best energy performance
- affordability
- high-quality architecture

in new construction and retrofitting by sharing knowledge in building together.

For further information please visit our website: [www.buildtog.eu](http://www.buildtog.eu)



EURHONET is a network of public and social housing companies from five European countries, managing over 700.000 dwellings

# ARCHITECTURAL APPROACH

## Optimized local solutions

The BuildTog project provides a platform for the exchange of experiences and know-how to create housing at best energy performance for new build as well as for retrofit.

For more than 5 years BuildTog's activities have been focused on a common designed building which was adapted locally in different European countries. In comparing various ways to achieve the same goals general insights could be generated.

BuildTog partners now aim to transfer their learnings from the first phase to any building typology in new construction and retrofitting.



BuildTog - Châlons, France



BuildTog - Arras, France

# QUALITY MANAGEMENT

## Methodological monitoring

To ensure the building performance a BuildTog quality management process is established.

It covers all stages from design and construction to final utilization and monitoring of the buildings. This also helps to optimize future conceptual and construction processes.

LUWOGÉ consult is in charge of the methodological tracking. Each project phase is furthermore associated with a training program for local architects, engineers, craftsmen, etc.

Quality management process:

- Trainings and consulting
- Improvement through 1:1 models



- Implementation of Passive House criteria
- Process optimization through monitoring



# SUSTAINABLE CONSTRUCTION

## Products and solutions

High performance materials help to achieve BuildTog's energy targets.

Best performing insulation solutions, as well as energy-efficient windows and ventilation systems are important aspects of the Passive House standard.

By spreading technological know-how from one country to another, BASF helps to implement new applications for sustainable and energy- and cost-efficient construction.

BuildTog fosters innovative building solutions for cost-efficient construction all over Europe.



ENERsign window



PU insulation



XPS insulation



EPS insulation