



FAAST forward your skills

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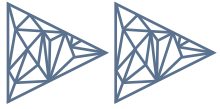
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What's all the  
fuss about?**

Find out for yourself [www.mtvswitch.org](http://www.mtvswitch.org)

**all you need  
to know  
not to drown**



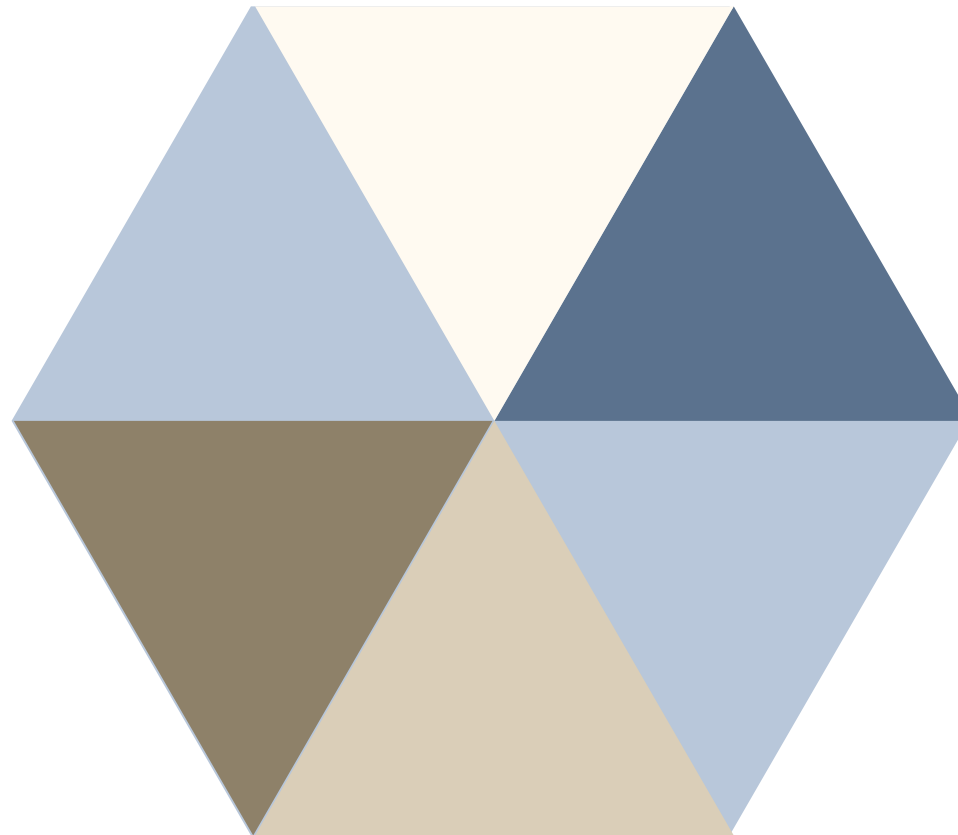
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## learning for all tastes

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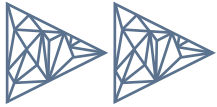
In the USA, MMA, a jointventure of A2M architects and FNA-architects, is providing the learnings.



## Faast

Following a lot of co-operation on projects ever-seeking innovation and sustainability, Faast Think Tank is the association of an architect (A2M), a contractor (Democo) and a developer (Nelson Canal). One of Faast thinktank mission is to provide knowledge and support.

Faast is a private Think Tank focuses on sustainable innovation in the construction sector. The long term experience and collaboration , later sharing them via publications, events or training, thus leading the company towards a more sustainable path.



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**experienced,  
dynamic  
and  
committed  
trainers**

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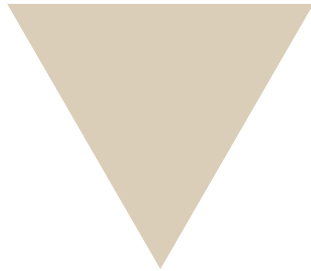
## quality

For over 10 years now, members of Faast have offered regular training to renowned organisations such as Brussels Environnement, Plateforme Maison Passive Belgium, training centers in Belgium, Luxembourg, France, Spain, etc., and have taught at universities (UMons, ULB Belgium, East London University, etc.).

In parallel with the training cycles, Faast also attends many conferences and presentations on ongoing research.

All content is adapted for concise presentations that encourage clear communication of complex information.



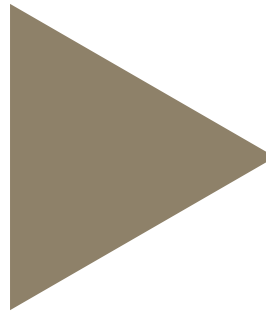


## conferences

inspire yourself

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Faast has in-depth experience in attending conferences on a range of subjects pertaining to what it does. Dynamic, instructive and different, like orators or moderators, Faastshares information in a way that inspires community spirit. Faast also organizes its own sessions.

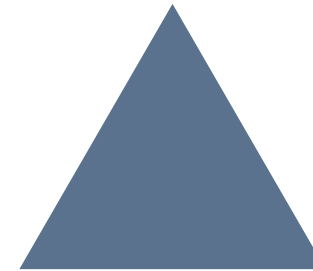


## training

teach yourself

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Aimed at construction professionals, the training provided by Faast is always adapted to its audience, both in terms for content, and provides expert trainers. Integrated into an on-demand customized program, our dynamic, interactive training meets the clients' needs, and can be quickly adapted to address new material and challenges.



## workshops

test yourself

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Far from *ex cathedra* presentations (where audience is passive), participant testing and practice are the best ways to master newly-acquired knowledge. Our trainers will guide participants, by advising and guiding them through different exercises.



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## relevant and varied themes related to passivehouse

5h

### practice

From design to execution, the strategies developed for high energy performance buildings, explained and illustrated through many practical cases (details, PHPP, TRISCO and WUFI calculations, site photos, blower door tests, thermography, ...). Workshops are used to put concepts covered into practice.

4h

### comfort

Placing the user and their comfort at the centre of design concerns is one aim sometimes put to one side in favour of a regulatory calculation inducing the wrong choices for the intended purpose. This theme encompasses the definition, in its widest sense, of comfort and different areas for attention when it comes to making a building efficient, of course, but above all, comfortable.

6h

### renew

Refurbishment is a fundamental challenge for the future. How do we ensure that we make the right choices, yet maintain aesthetic quality and the existing construction at the same time? Look more closely at aspects of this type of work. From vapour migration of vapour to drying potential, we will take a closer look at interior insulation using specific examples.

2h

### cost

Tracking of financial impact throughout the project, details of economic aspects of high performance buildings. Following experience and feedback from several design/ construction projects, we have uncovered several determining factors which will make or break project cost control.

2h

### reality check

Buildings passive to testing of facts, success/failure factors... Experience from many projects means that we can highlight recurrent problems, but also simple solutions and areas for attention when it comes to high environmental performance projects.

4h

### zero

What is zero energy? What are its definitions? From the ecodistrict in Harenberg, an exemplary European project, to the Linné-Plantes refurbishment and pilot social housing, not to mention Zero Box. A short philosophical tour of the issue, practice and pragmatics of energy balance.





## hygro

The theoretical principles of vapour migration are explained in detail and illustrated using several specific examples. Particularly useful when it comes to expanding on themes such as refurbishment, interior insulation and timber constructions. This subject may be broadened by learning WUFI software (see workshop).



## cold

From relatively simple beginnings, production of cold, especially in the tertiary sector, seems fundamental to seeking savings in energy and costs. Different technologies are covered, from very basic ones to the most recent (phase-changing materials, free cooling, etc.). The subject is examined in greater detail by looking at a range of projects undertaken in hot climates.



## materials

Life cycle analysis, EPD, software, criteria. How do you find your way around the jungle of different materials labelling? How do you assess their impact on the environment and health? What tools will help make an objective choice and what are the right criteria to apply?



## light\*

Quality of lighting, natural and artificial, is fundamental to ensuring occupant wellbeing. The training will give you the theoretical bases and tools you need to calculate how much glazing you will need for a given project, be able to choose the right lighting specifications, and manage them efficiently.  
\*Training provided in conjunction with PMP asbl.



## climates

Is passive standard relevant to all climates? With projects in very different climates, (Brussels, New York, Lisbon, Kinshasa, Rabat, etc.), A2M has managed to broaden the subject and define the right methods for choosing technologies according to climatic peculiarities, context, project schedule, etc.



## skins

Everything which exists in terms of developing an *intelligent* façade: things which react to heat, light, wind, façades made from seaweed which produce electricity and food, materials such as aerogel, coatings which purify the air, up-and-coming materials, etc ..



## beyond

Design tools are changing constantly. Amongst them, parametric design provides an integrated approach to the environment and physical behaviour of the envelope for determining the constitution of the building. Software is not just for checking technical data, but will also feed architecture.



## what's next

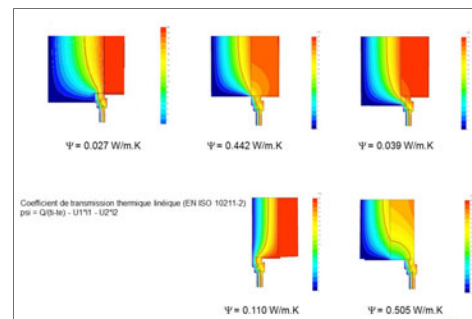
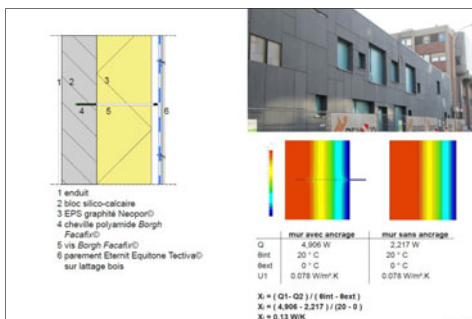
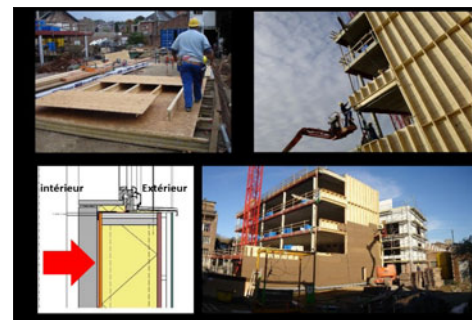
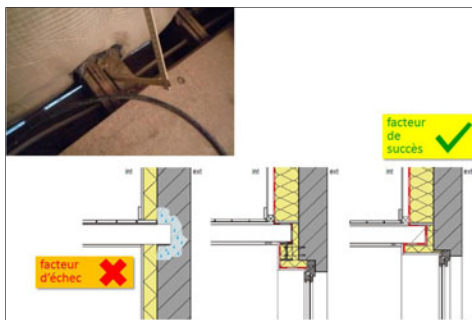
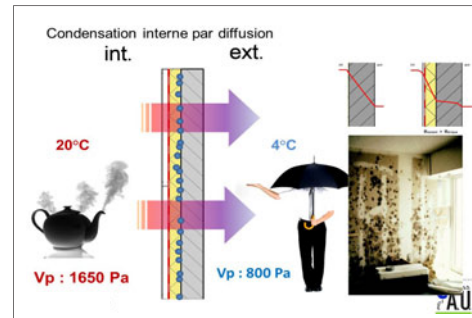
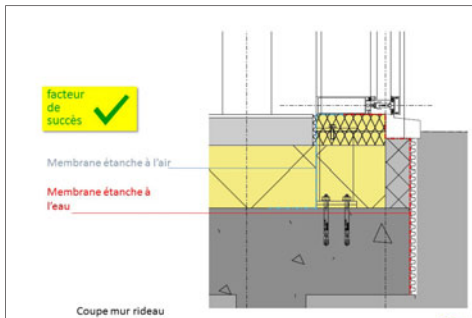
The concept of the HPE building is now fairly well known. But energy consumption is just one cursor on the sustainable design mixing table. What are the next steps? Here, Faast uses the results of its innovation inspection mission to answer the question and prepare the professionals of the future.

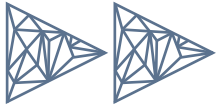


## on demand

Need something more specific? Faast will mould to your requirements and is frequently called intra-companies to answer questions on specific subjects and particular problems. Contact us now to discuss what you want.





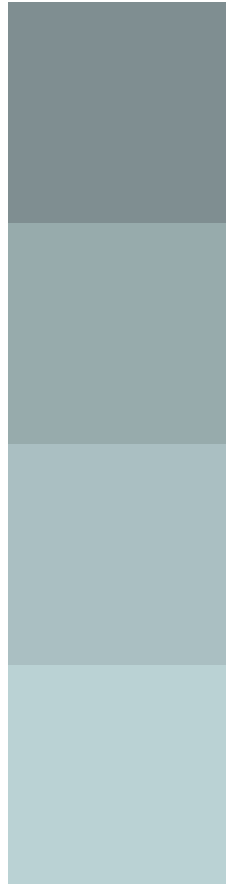


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## interactive, practical workshops

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### tools

After technical training information, participants meet in several groups. The material is presented to them: symbolising, in 2D or 3D, building materials.

### comments

The trainers present several cases of details to be resolved: specific foundations, zones to be insulated, extensions... As well as the parameters of the problem put to them: cost limits, use of special materials...

### resolution

Each group chooses a different detail and uses the material available to work out a solution. The material may be used to test several types of solution. Each team is given a deadline.

### discussion

Alternately, each group presents the solution devised to the other participants. They then have to discuss and assess the solution, comment on it and make suggestions. These moments are extremely valuable to participants.





## 2D workshop

Putting what they have learned into practice, participants reflect on details using educational tools (condetti). The interest in this workshop is to be engaged on the application of specific theoretical applications. By resolving the details which we provide for them, participants are invited to put concepts covered in the morning session into practice. The details are discussed by the groups. Then, each group presents its solution to the other participants to open up discussions and lively debates. And so on.



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## in-depth learning of software

### workshops

Workshops may be ordered after training or simply when necessary on using software, specialisation, particular questions...

Workshops are generally run by two experienced trainers, providing effective, quick support during applied exercises. Participants are dropped right into using the software, for resolving detail exercises, etc.

8h

#### phpp

From 2 hrs for an overview to 16 hours for full training. In conjunction with PMP.

4h

#### thermal bridge

With Therm-Kobra-Bisco-Trisco software. This workshop will complement practice, renew and hygro training.

6h

#### techniques

In-depth study of vapour migration in walls. This workshop will complement renew and hygro training.

16

#### Open studio

Software for free dynamic simulation, this workshop complements zero, climate and cold training.

4h

#### daysim

Specific to lighting engineering, this workshop complements light training.

4h

#### ACV

Learning from be.global and ecobat, this workshop complements materials training.





## 3D workshop

Developed with PMP, the teaching workshop invites participants to contribute. In small groups, they have the educational resources to resolve different 3-dimensionally building-related issues.

Dialogue between participants is stimulated by the trainers. Using this approach means that theoretical principles are applied directly with hands-on learning.

The scale of prototype components is actual size; participants have tools and materials for tackling specific details that directly apply to real world construction.





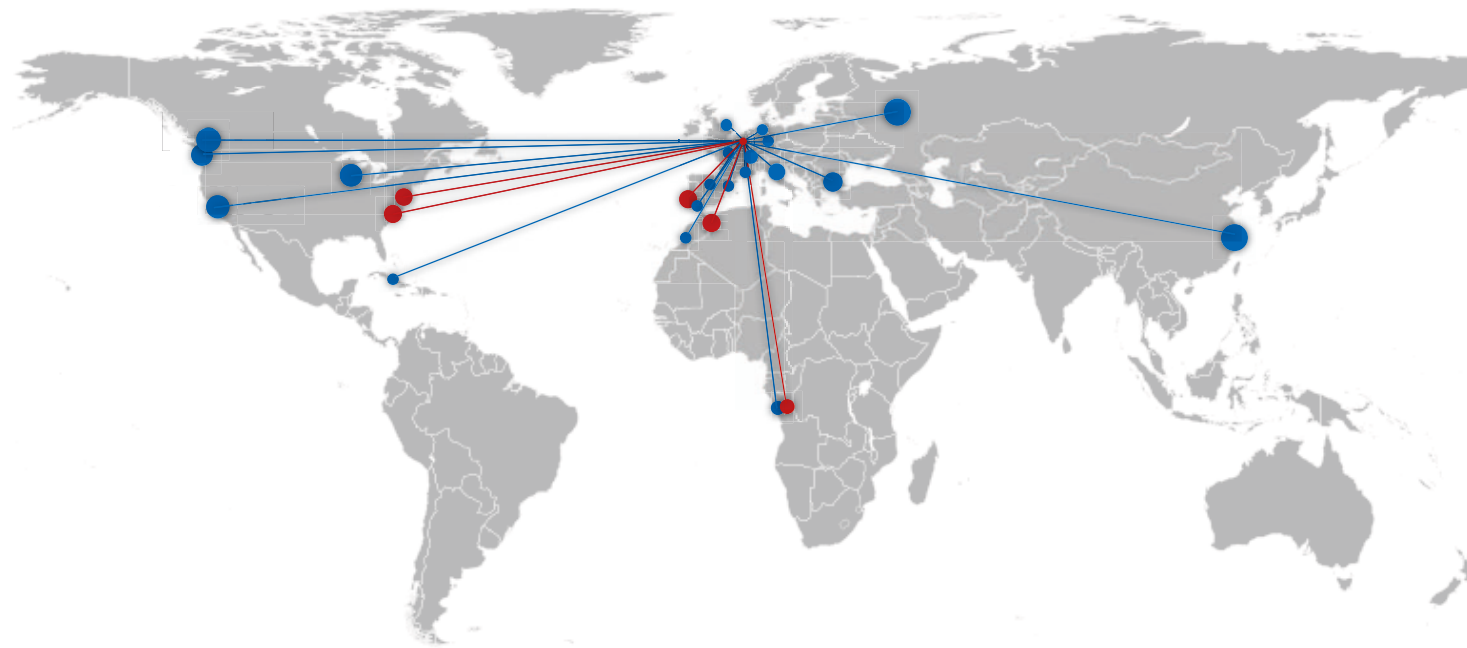
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## taking other training to an

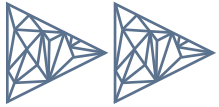
Faast uses A2M and FNA experiences to illustrate and support its studies using specific examples. A2M offers a range of different projects, in terms of scale, program, and client.

we share

we build







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**they have  
placed  
their  
trust  
in  
us**





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**experience  
to  
share**

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**12 621**  
data training hours

**844**  
data conferences

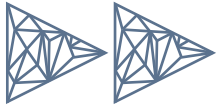
**9,683**  
people trained

**228,452**  
training slides

**17,568**  
people sensitised

**107**  
publications





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open  
source  
and  
sharing :  
our  
values

For 5 years, A2M published the quaterly magazine be.passive and begin 2015, the book "passive + architecture"



## Julie Torres Moskovitz's the greenest home



## A2M 's book architecture+passive



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**a  
team  
with  
a wealth  
of  
potential**

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**Aline Branders**  
architect

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Architect, Aline Branders specialises in sustainable building and has a wealth of experience: European Masters in Architecture and Sustainable Development, Architecture and Climate research work - UCL, etc.. Now a partner in the A2M architecture office, she manages the Research and Development section. Since 2009, she has regularly run conferences and training sessions in Belgium and abroad on many sustainable development-related subjects. She has also contributed to many publications.



**Sebastian Moreno-Vacca**  
architect

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Well known in sustainable building environments, Sebastian has for over 15 years run a whole host of seminars, symposia, conferences and workshops. An architect, he founded the A2M architecture office in 2000. Since 2006, he teaches at the ULB's Faculty of Architecture. He co-founded and published the be.passive magazine for 5 years. During his Chairmanship of Plateforme Maison Passive (7 years), he contributed greatly towards putting the passive standard in place. Nowadays, he has offices in Brussels and New York.





## Benoit Quevrin

Ir. architect

A sustainable development expert, he has run Faast since it was created. He has run Plateforme Maison Passive for several years and has specialised in many themes, including thermal bridges (he has also written a book on the subject), vapour distribution, natural and artificial lighting, etc.. Recently, he began teaching sustainable design at the University of Mons (Umons). A natural when it comes to training and seminars, he imparts relevant information effectively, always giving it a new dimension.



## Julie Willem

architect

Architect, Julie Willem is a partner at A2M. In parallel, she contributes towards several books, publications and articles. In 2009, she co-founded the be.passive association. More specifically managing the office's media section, she develops architecture and communication about it in many forms. A regular trainer for many professional networks for the last 8 years, she offers a sustained schedule of presentations, conferences, boards, workshops and training in Europe.



## Julie Torres Moskovitz

architect

- + Architectural firm specialising in projects with very high environmental value and high design.
- + All FNA projects aim to be passive, i.e. zero energy.
- + FNA published the the book, The Greenest Home
- + Principal Architect, Managing Member of FNA, PLLC
- + Visiting Professor of Design and Enviro Tech at Parsons and Pratt Institute
- + Author, The Greenest Home (PAPress 2013)
- + Director of Global Passive Building Council
- + Institute for Public Architecture Fellow 2016



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