Healthy Homes Barometer 2016

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Overall findings

The Healthy Homes Barometer research is led by Prof. Dr. Dr. h. c. Bernd Wegener and Moritz Fedkenheuer, M.A. Social Science, Humboldt University Berlin

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Company facts

The VELUX Group is owned by VKR Holding A/S, a limited company wholly owned by the foundations and family.

The VELUX Group's financial results are incorporated into VKR Holding's consolidated accounts.

40 sales companies around the world

17 production sites in nine countries

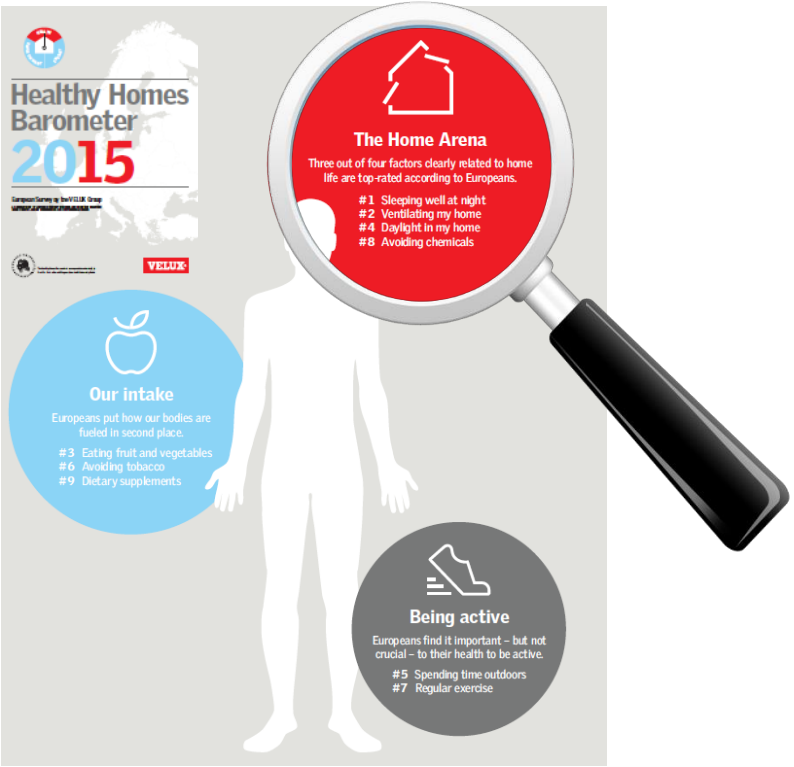
9,500 employees globally

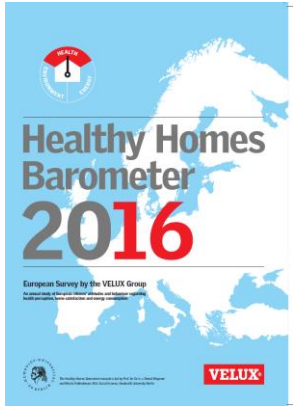
2015 numbers (EUR)

2.4bn VKR Holding revenue

268.7m VKR Holding net profit

A healthy life starts at home
In 2016 we take a closer look





14,000 Europeans

14 markets

October 2015

Online study

What is a healthy home to Europeans?
What drives Europeans' behaviuor?
How does the home impact health?

This presentation

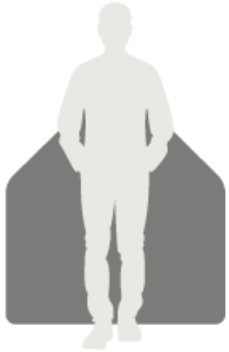
Eastern Europe: Czech Rep, Poland, Hungary

Europe: All 14 countries

Point of departure

80m

of Europeans currently live in damp or mouldy dwellings



90%

of our time is spent indoors

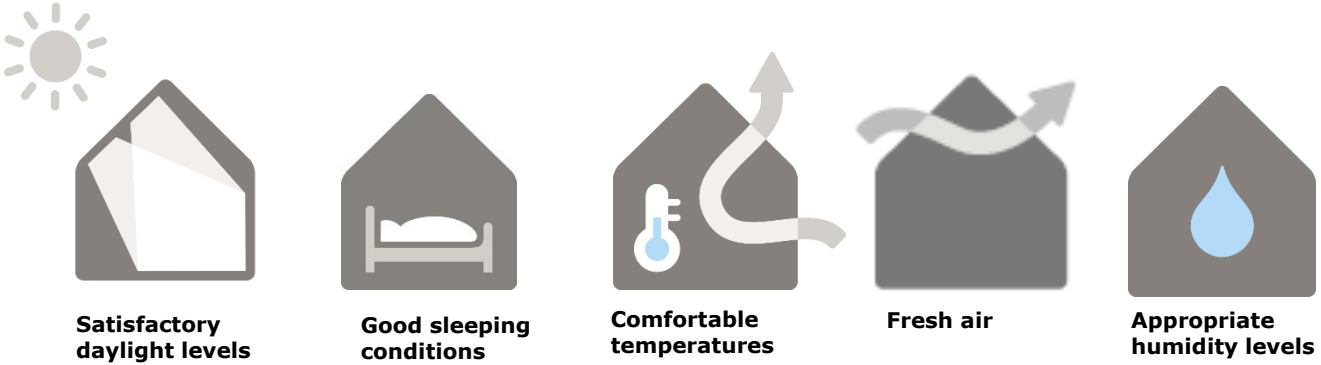
75%

of the European building stock today is not energy efficient

15%

productivity at work can rise if the indoor climate is healthy

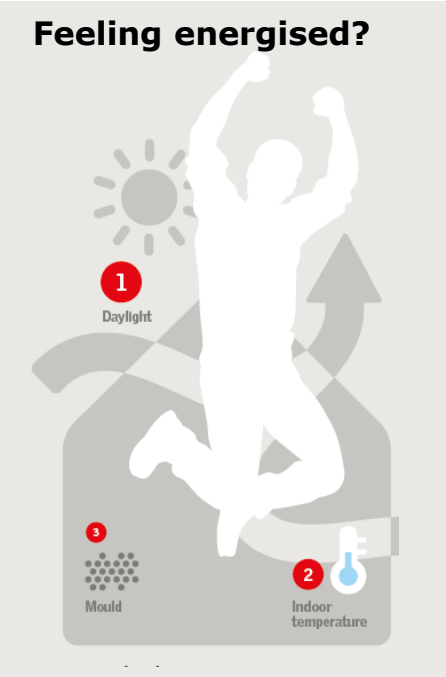
Overall **five home characteristics** that make for a **healthy home**

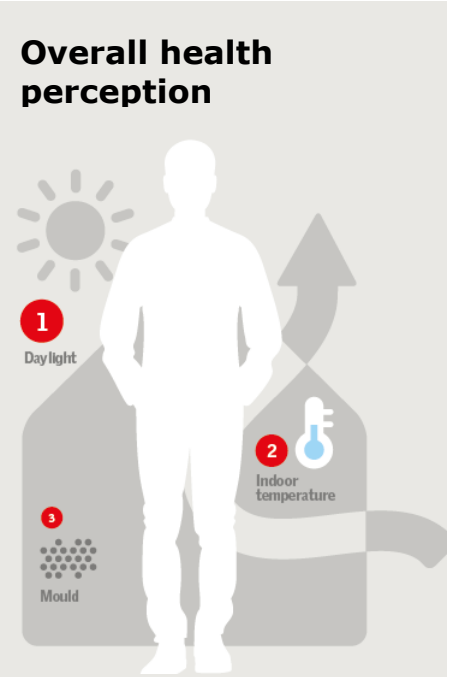


We have learned that those five impact how healthy we feel

They impact end-users health in different ways…

In Eastern Europe three home characteristics impact health the most: Daylight, Mould, indoor temperature

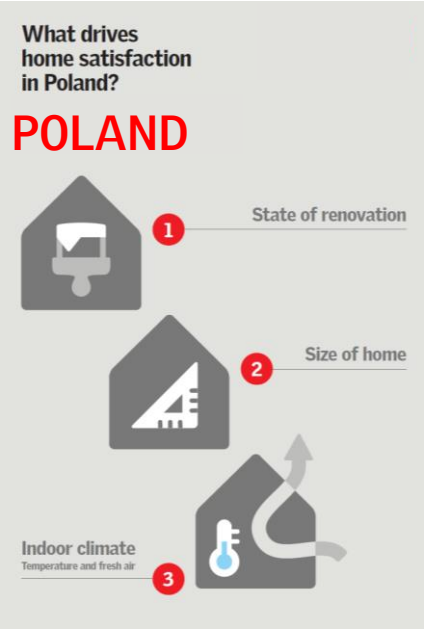


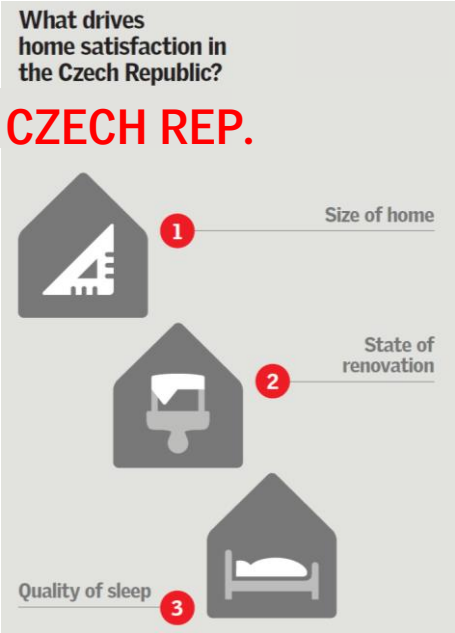


We surveyed Europeans health perceptions over a four week period (October 2015)

Energised: During the last four weeks how much of the time did you have lots of energy?
Overall health: During the last four weeks how would you rate your own health in general?
Respiratory problems: Within the past four weeks have you been bothered by: 1. congested or runny nose 2. dryness/irritation of throat 3. headache or feeling heaviness in the head?

What drives home satisfaction in Eastern Europe?





Lower home satisfaction in Eastern Europe stronger need for renovation

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How many are very or extremely satisfied with their homes?

	43% Eastern Europeans	52% All Europe (incl. east)
Why?		
Too small	29%	22%
Need for renovation	40%	31%
Too dependent on artificial light	30%	19%
Problem with damp	39%	32%

Unlocking private investment is key to renovate buildings

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70%

of the building stock is owned by private homeowners

Comfort and energy efficiency drive renovation

Two key factors drive Eastern Europe to renovate:

Improve wellbeing and save energy costs

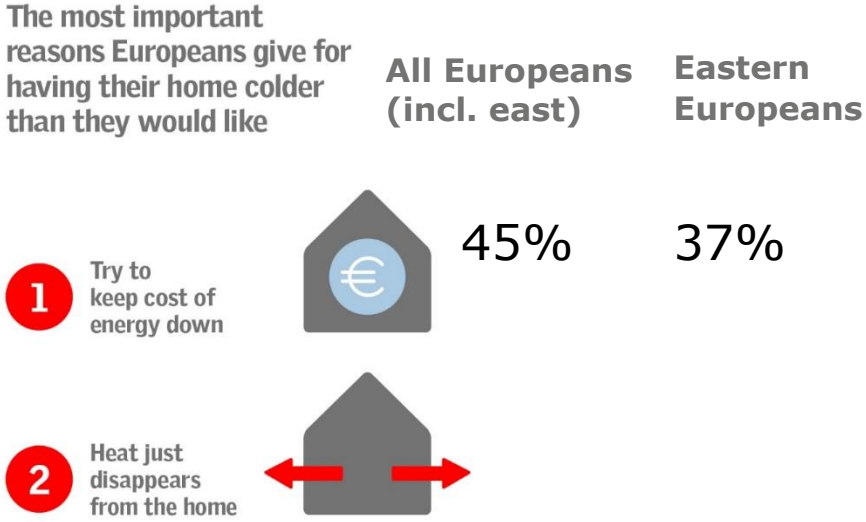
	All Europeans (incl. east)	Eastern Europeans	
	75%	74%	wish to reduce energy costs
	73%	73%	wish to improve overall welbeing

If you where to renovate your home, how important are these factors:
Increase the amount of daylight , Improve the indoor air quality, Save energy costs, Increase the value of my property, Reduce my negative impact on the environment, Use environmentally friendly materials, Improve my overall wellbeing at home

Energy poverty is fatal for Europeans

- An estimated 54m Europeans are affected by energy poverty, according to EC
- The Healthy Homes Barometer shows that 37% of Eastern Europeans keep temperatures too low for comfort in order to save money.
- Research in 11 European countries has estimated that almost 13 out of every 100,000 inhabitants die every year due to indoor cold; the so-called energy poverty*.

*Braubach, Matthias. et al., WHO 2011



Call for action in rev. of EPBD and EED & implementation of EPBD in national building regulation

A dual view on buildings and health will be beneficial for all Europeans

- **We suggest that:**
  - European renovation rate is stimulated by acknowledging the importance of non-energy aspects as drivers for renovation.
  - Requirements to indoor climate and daylight are reflected and well-defined in the directives, so implementation in Members States will vary less.
  - These requirements should be implemented in national renovation strategies and buildings codes.
  - Make sure the same mistakes made in the past in the Western Europe are not repeated in Eastern Europe.
  - EPCs should be digital and include comfort aspects.
  - Public buildings like schools and offices should take the lead in ensuring healthy buildings in order to increase the learning abilities, productivity and well-being of the Europeans.