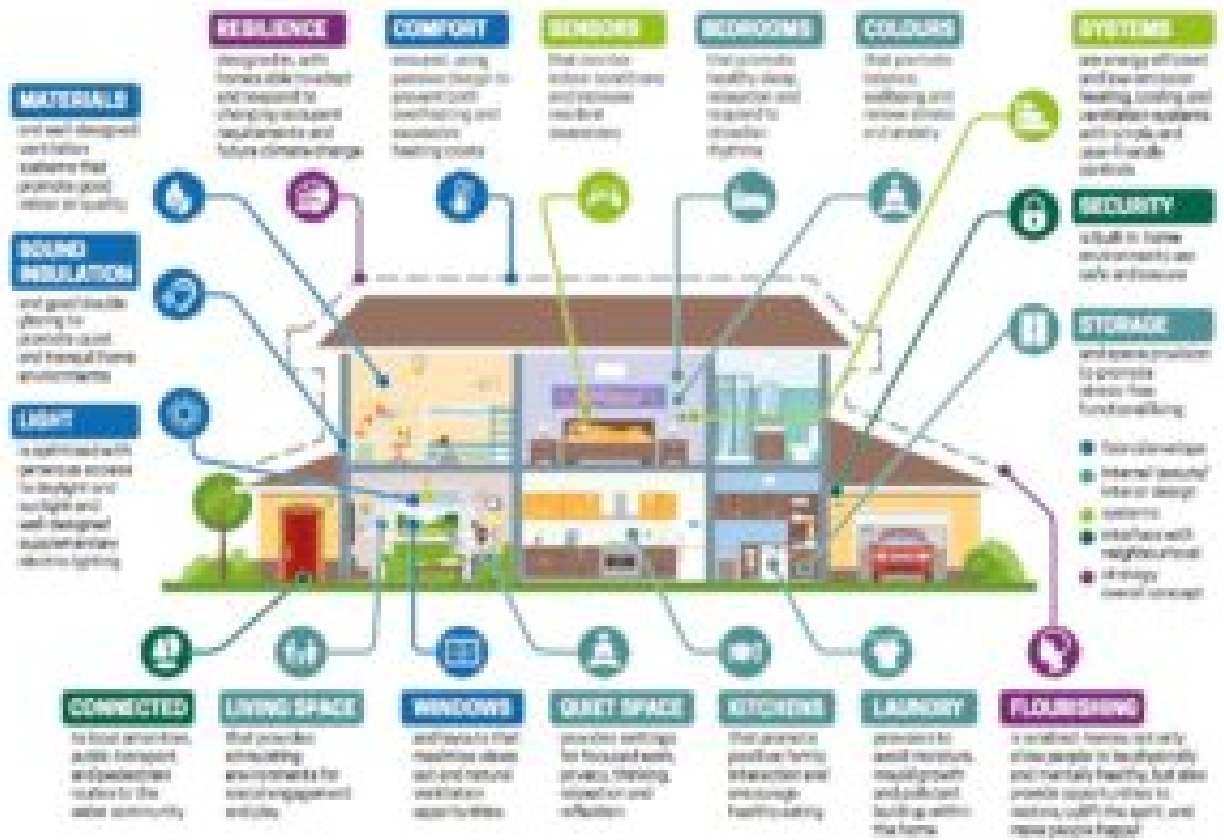


Blog – Building the Business Case for Healthy Residential Buildings

Building the Business Case for Healthy Residential Buildings by *Elspeth Holland and Colin Powell* Posted July 26, 2016

With the recent release of the [UKGBC report entitled Health and Wellbeing in Homes](#), we saw a much needed examination of the different aspects that make up healthy homes and communities.



What is a healthy home? Photo from: UKGBC Report on Health and Wellbeing in Homes.

In developed countries, we spend upwards of 60% of our day at home and one-third of our lifetime sleeping, so it makes sense that, as part of the report, a survey of over 3,000 homeowners in the UK showed that 90% would like a home that does not compromise health and wellbeing. That same survey showed that *30% of people were willing to pay more for a home that had a positive effect on their health and wellbeing*. The report looked at a

whole host of factors in the home and built the business case for healthy homes by using strong research examples, like:

- **Indoor and outdoor air quality:** if pollution levels were to rise from lower to higher ranges, people have a [13% higher risk of sleep-disordered breathing](#).
- **CO₂ levels:** [sleep quality improves](#) with lower CO₂ levels in the bedroom, along with reported sleepiness and concentration the next day.
- **Noise:** Excess noise has also been linked to poor concentration and [cognitive development in children](#), especially if it is disturbing to sleep.
- **Green space:** Children living near nature have been shown to [inhibit impulses better](#) than those living in buildings surrounded by concrete.

As part of the WorldGBC's Better Places for People campaign, we will expand on that research by examining the global body of research on healthy homes. So far, we have encountered some excellent examples, like:

- **Indoor air quality:** Houses that are [13 years or older are shown](#) to have a lesser concentration of indoor air pollutants
- **Energy efficiency impacts:** [New occupants of energy efficient homes](#) report improvement over 1 year in symptoms of throat irritation, cough, fatigue
- **Indoor environmental quality:** Approximately [40 % of doctor-diagnosed asthma](#) among children is attributable to exposures to indoor environmental factors at home
- **Thermal comfort:** After retrofits for weatherproofing were made to low-income housing units in the US, adults reported [a 0.29 – 1 point improvement](#) in their mean general health scores
- **Green buildings:** Adults living in green certified buildings reported [35 times the odds of experiencing fewer sick building symptoms](#) than those living in conventional units

The research is there, is growing, and is helping us build the case that our homes affect our health. And we're now starting to see this research change the way homes are built too.

A recent article in the Boston Globe showed that [people were willing to pay up to \\$225 more per month to have a healthier and smarter home](#). Owners in newly-built apartments in Cambridge, Massachusetts, were given the option to purchase a “wellness” package with technologies that include lighting that considers your circadian rhythm, a vitamin C-infused showered, and custom blackout shades, among others.



Lighting in your home that responds to your movements at night can get you a better sleep. Photo from: KEITH BEDFORD, BOSTON GLOBE STAFF

The technologies were integrated by [Delos™](#) to introduce wellness features into multifamily housing. Delos has also collaborated with Mayo Clinic to form the Well Living Lab™, a research lab used to simulate different building environments and test the effect on health of various technologies and building components. This research will leverage and expand upon the WELL Building Standard™ (WELL). WELL is a building certification program focused exclusively on human health and wellness and is administered by the [International WELL Building Institute™ \(IWBI™\)](#), a sponsor of the Better Places for People campaign.

Better buildings and technologies that help produce better health outcomes for people are already here, in [offices](#), in [retail](#), and with growing frequency, [residential buildings](#). While considerations of health and wellbeing in buildings often come at a premium, the business case for Better Places for People is only getting stronger.

