

BLESSING AND A CURSE

Designing Buildings to a Target EUI

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ENGINEER PUSHING FOR ENERGY EFFICIENCY...



INCLUDING TARGET EUI IN CONTRACTS...

Drives innovation and conversation

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Challenges – and adds risk to – the process

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Shows integration of energy decisions

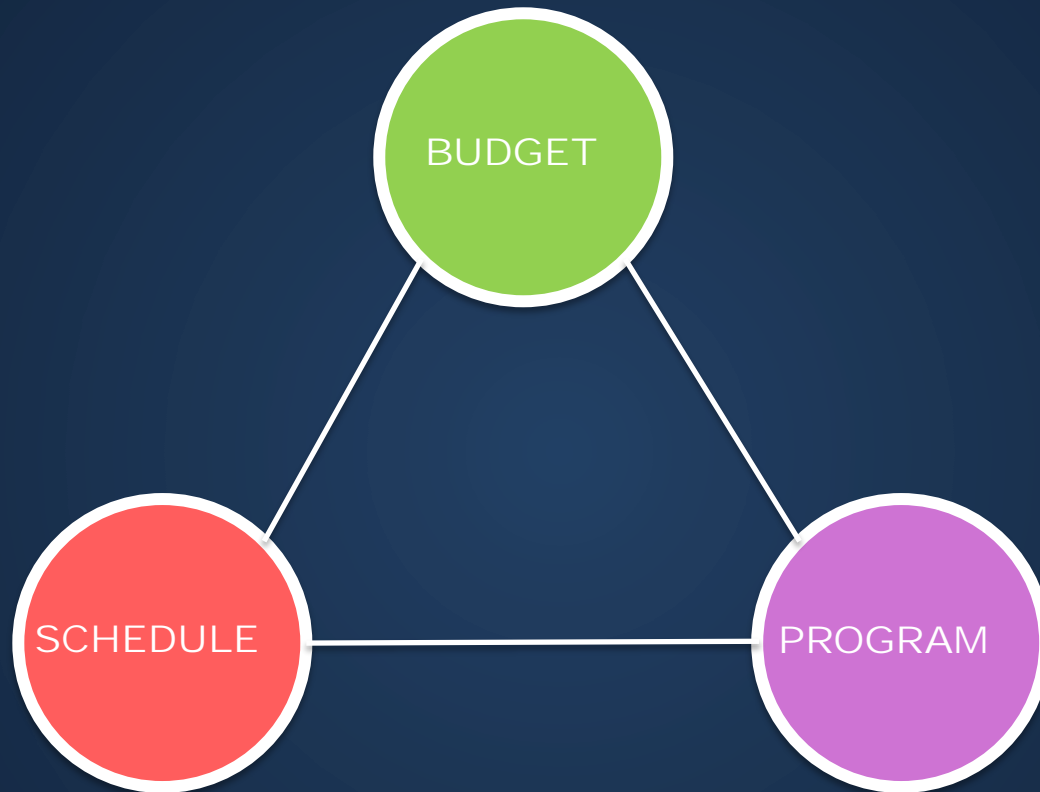
INCLUDING TARGET EUI IN CONTRACTS...

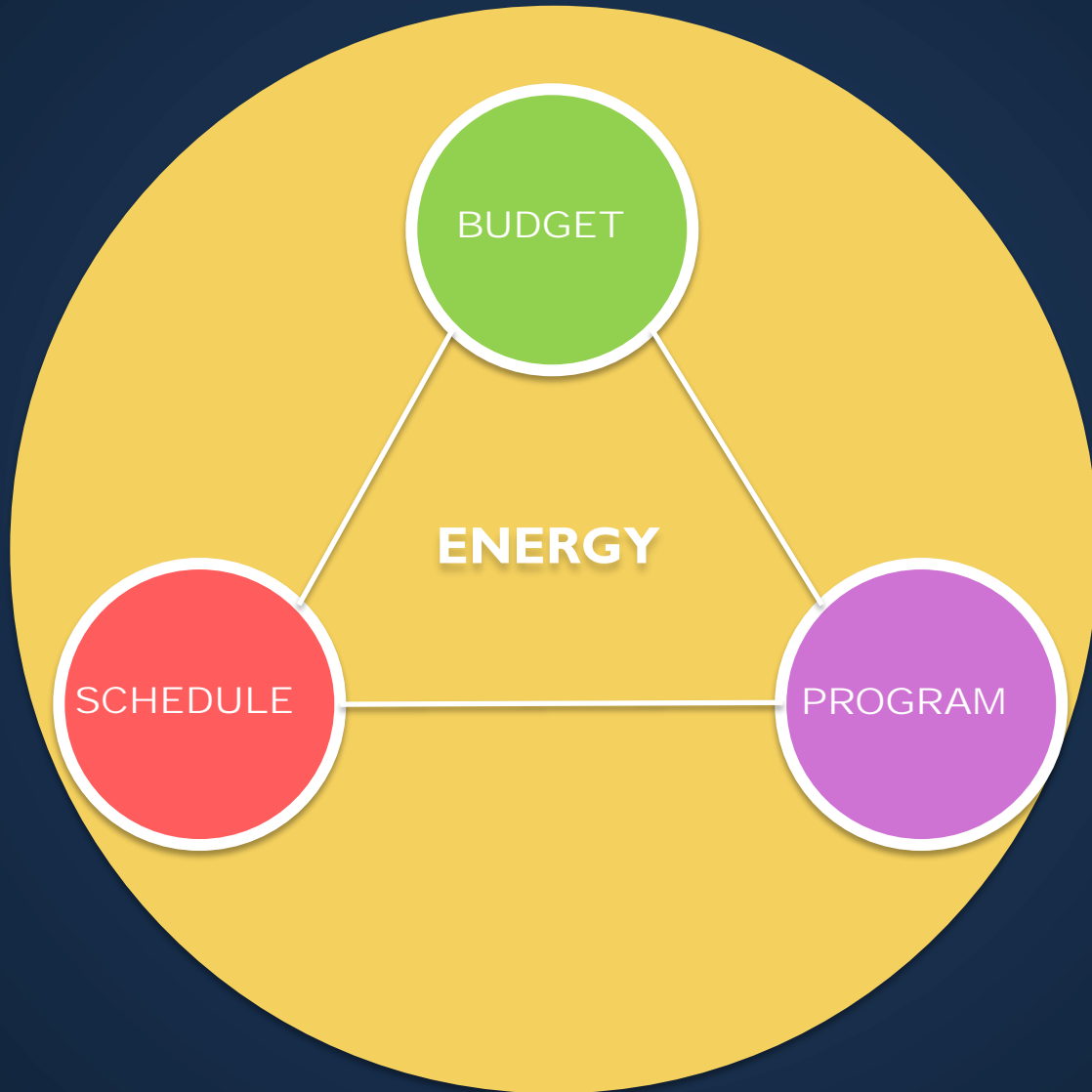
Creates conflict

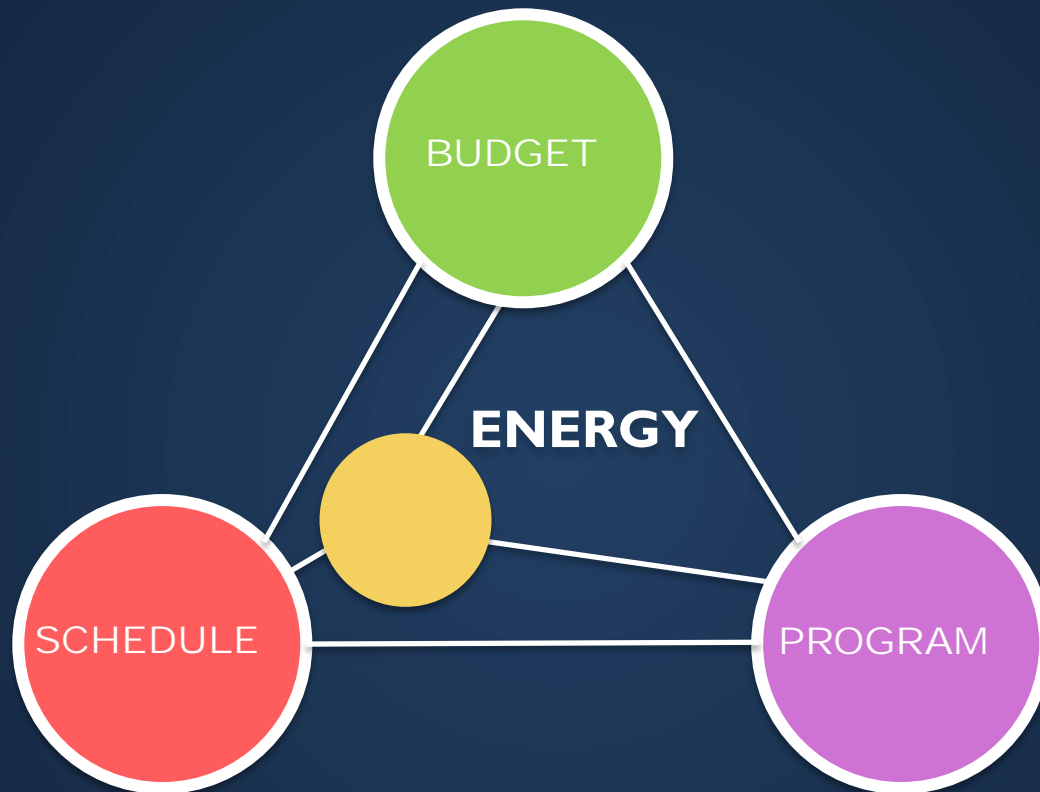
Does not work well with the “way we usually do things”

Highlights that most people do not care about energy

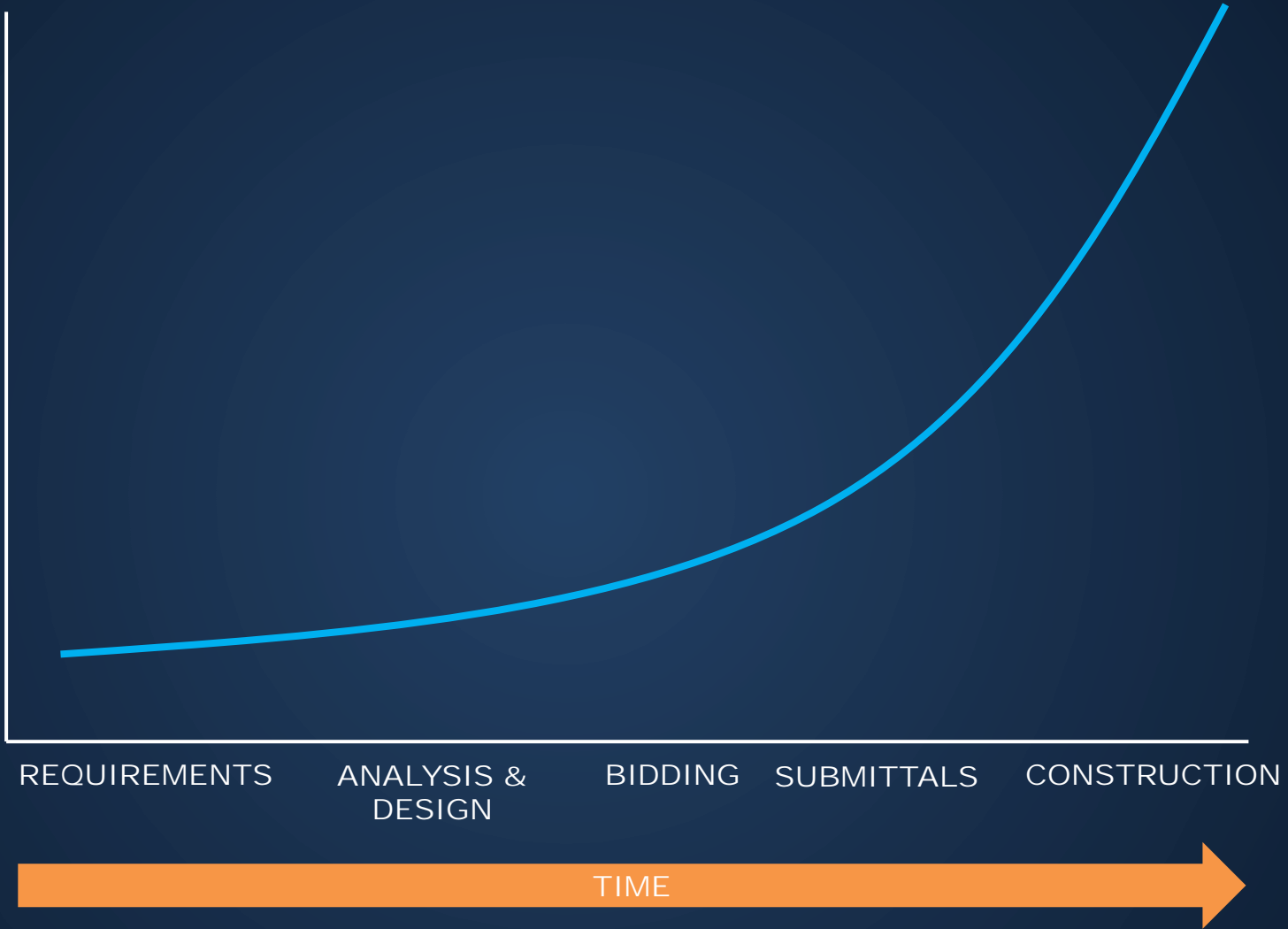
ADDED CONFLICT

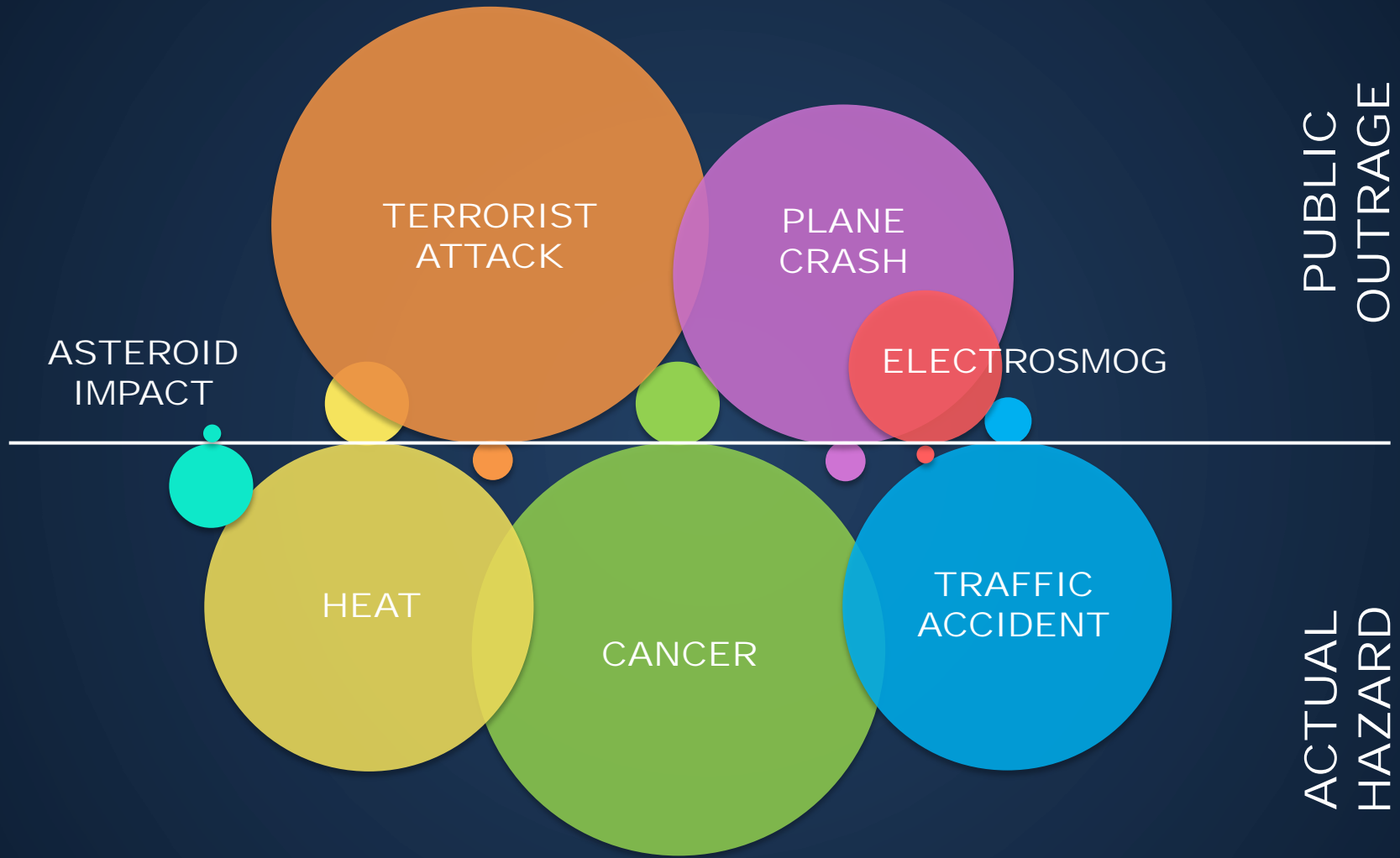




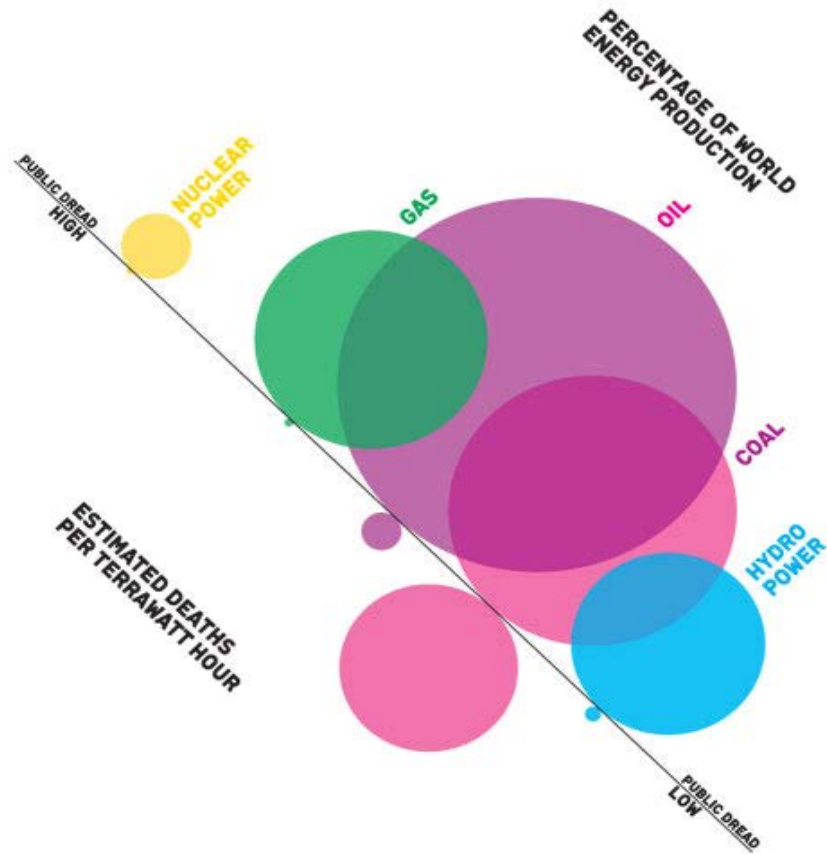


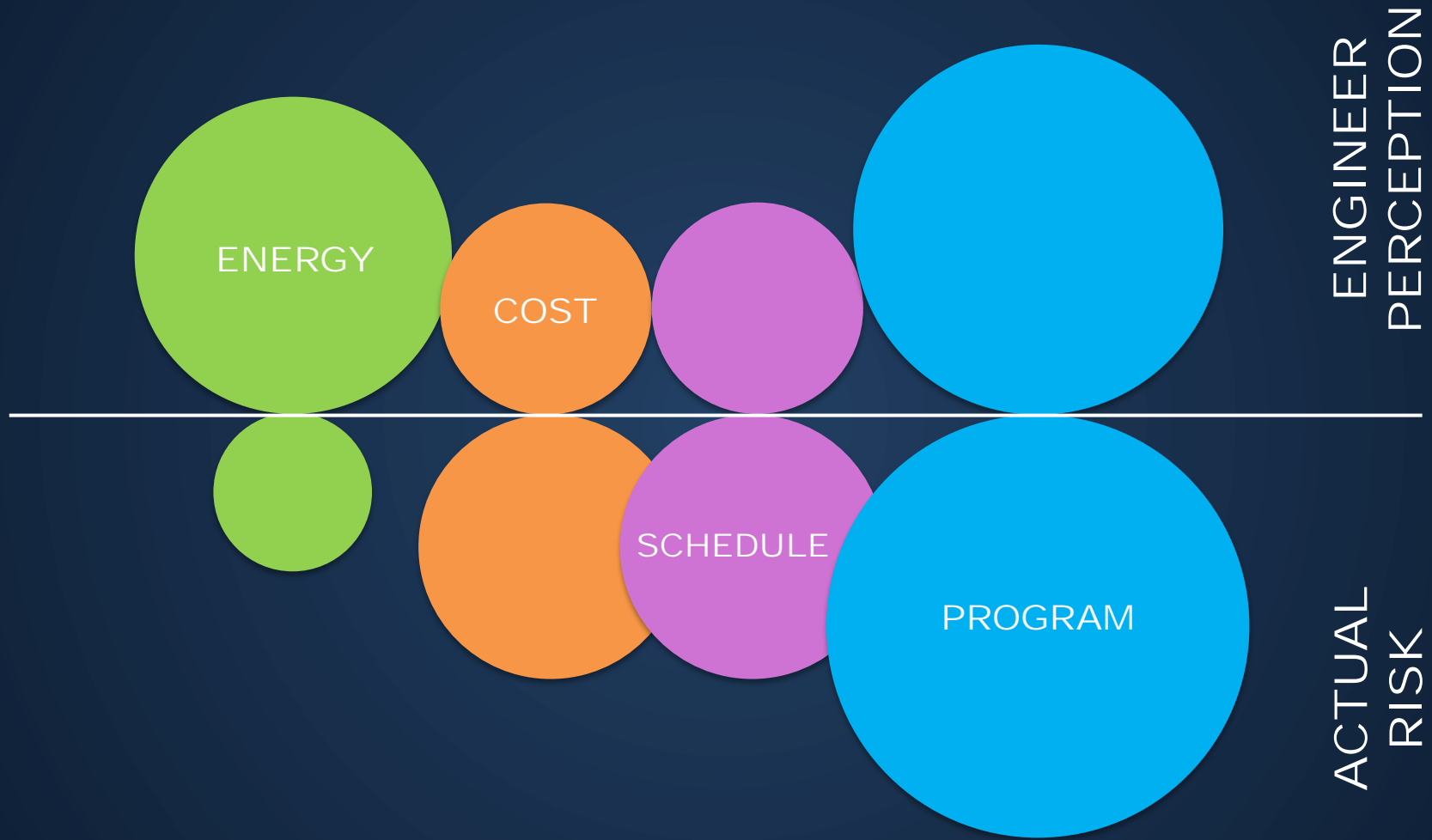
COST OF
CHANGE



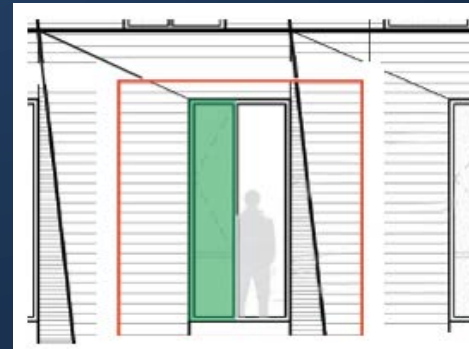
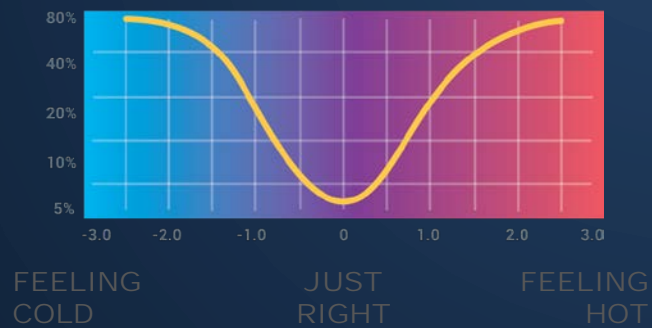


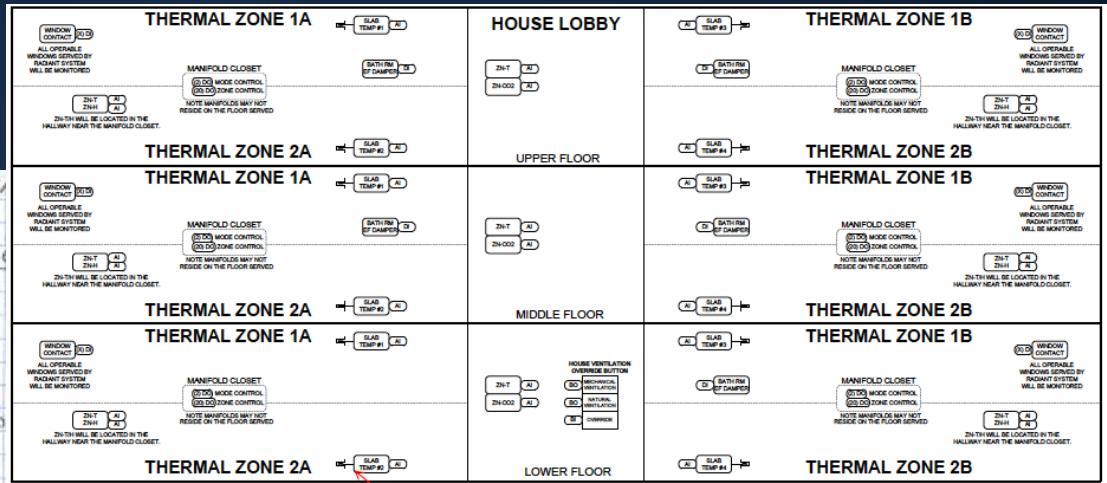
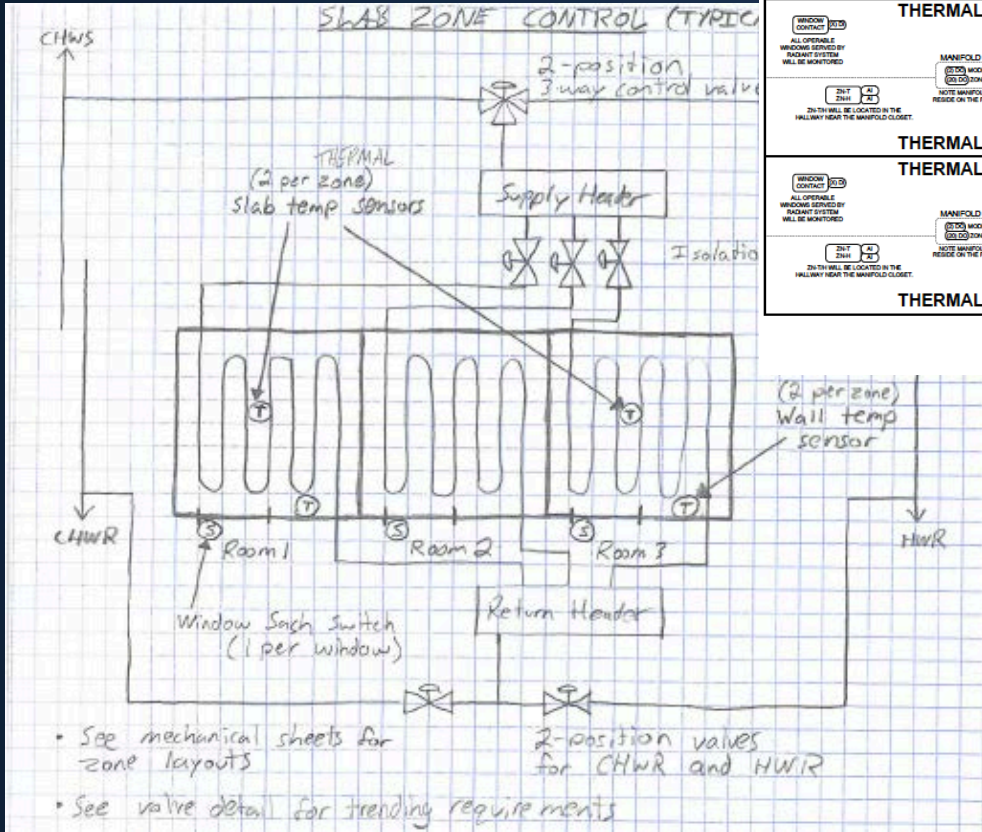
PUBLIC DREAD AND ACTUAL DEATHS IN RELATION TO WORLD ENERGY PRODUCTION



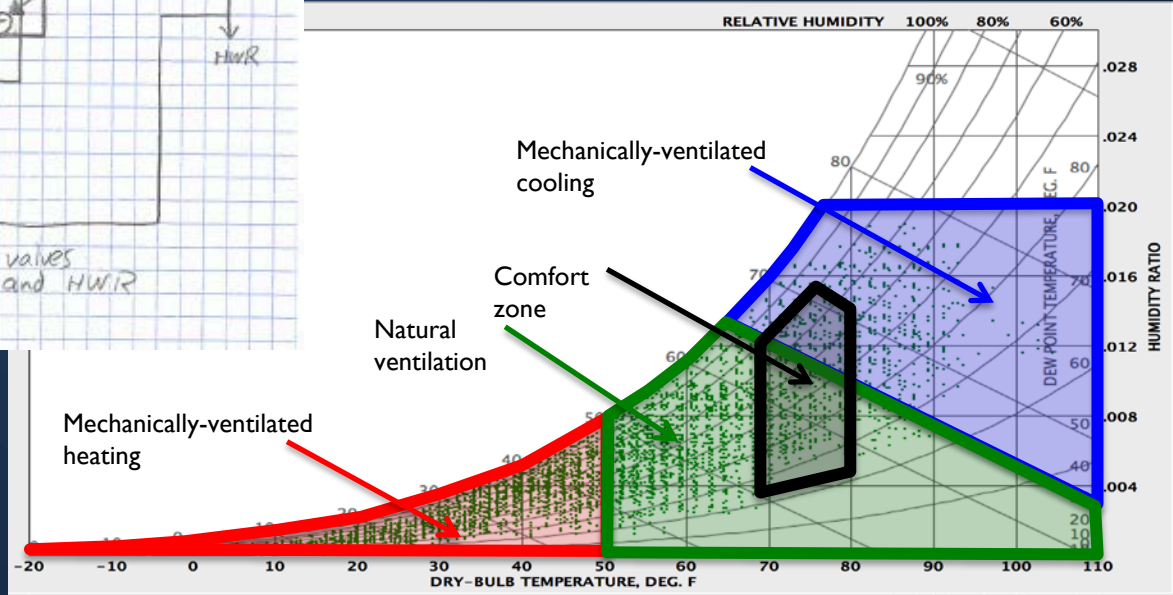


WAY WE DO THINGS





TWO SLAB SENSORS PROVIDED PER ZONE





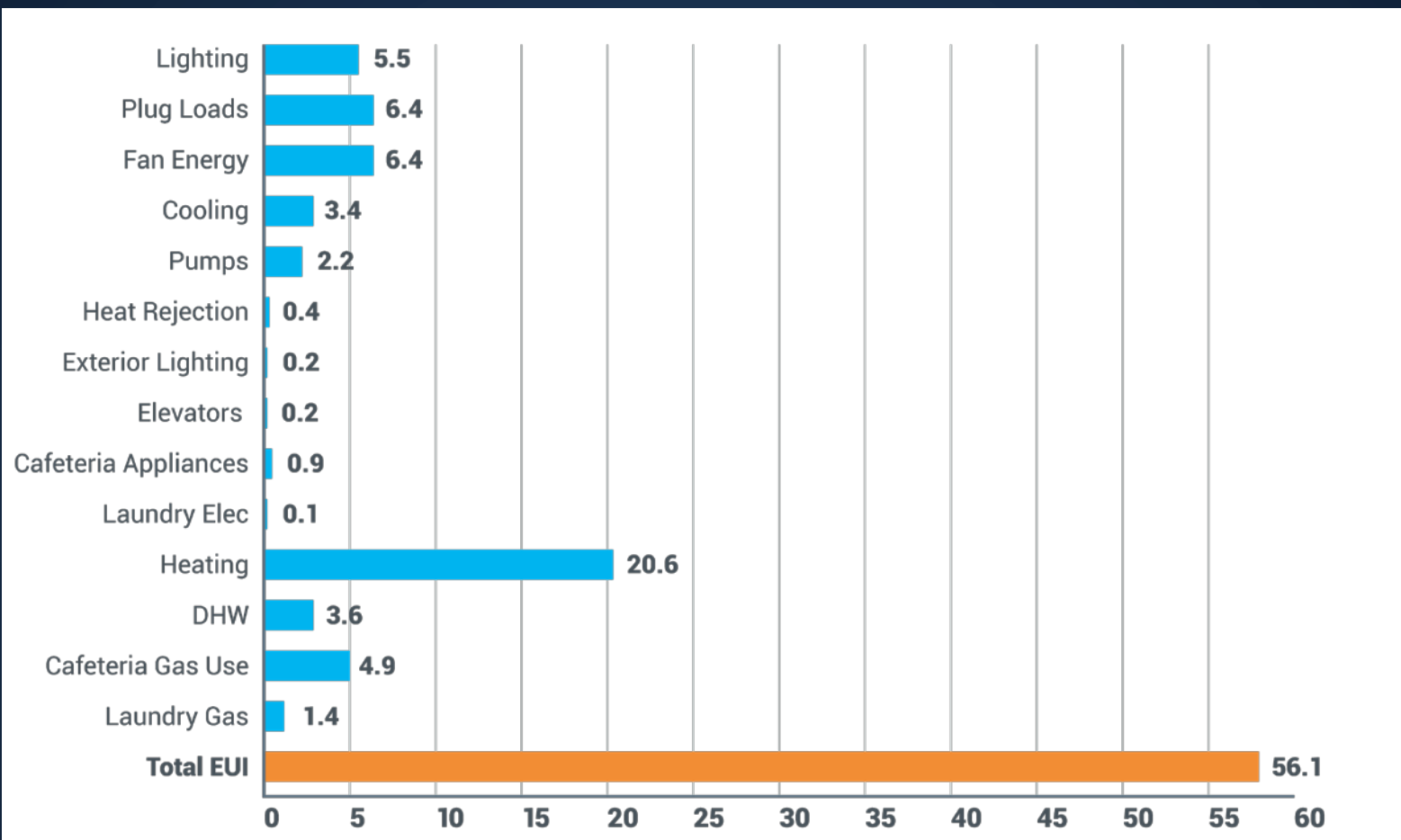
Building Systems Commissioning



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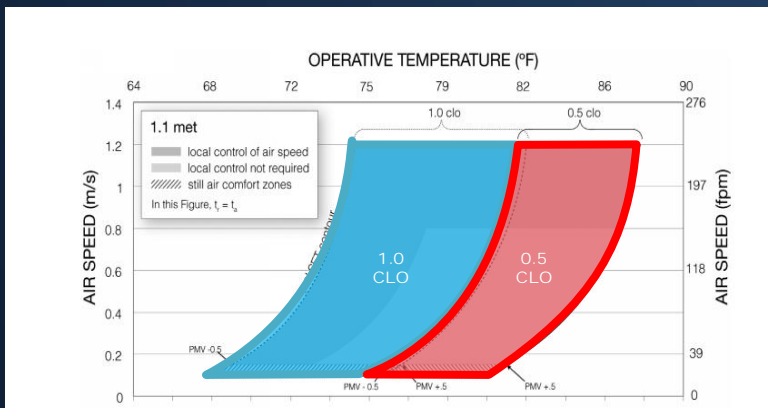
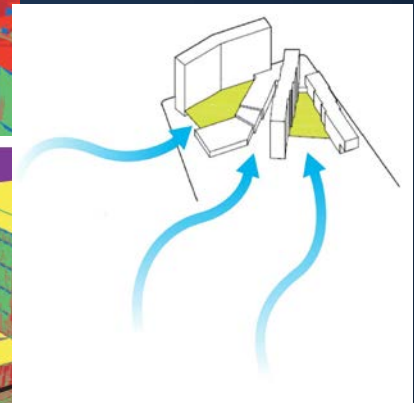
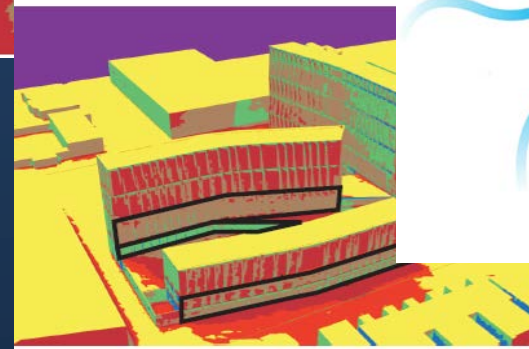
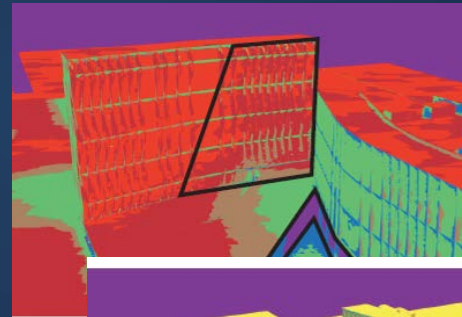
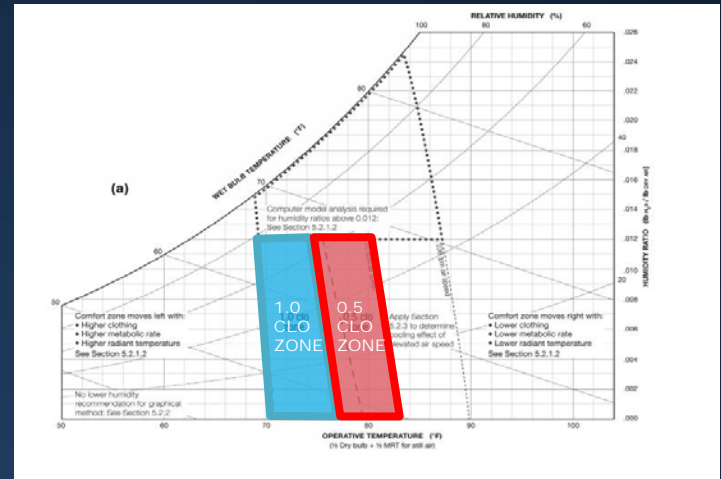
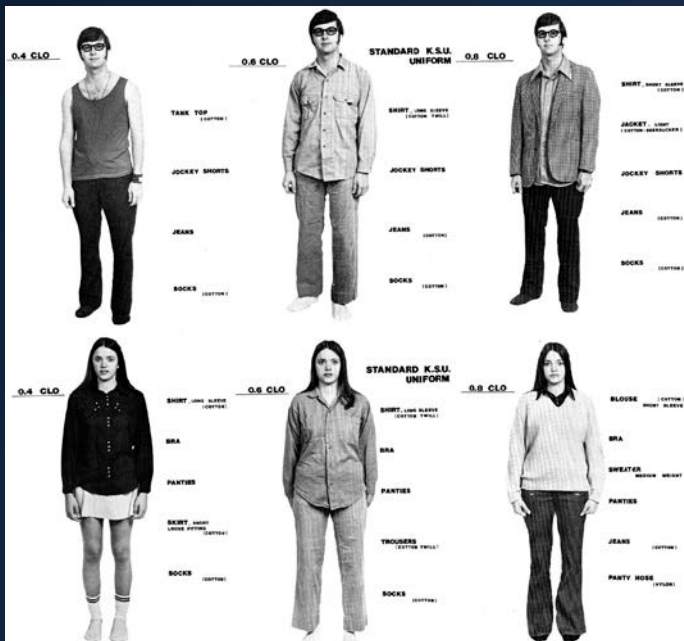
Building Envelope Commissioning



ENERGY KNOWLEDGE

SETTING EUI
TARGET

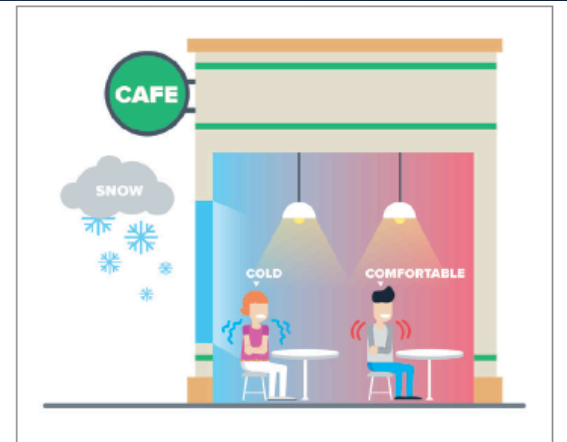
PLANNING FOR
EUI TARGET



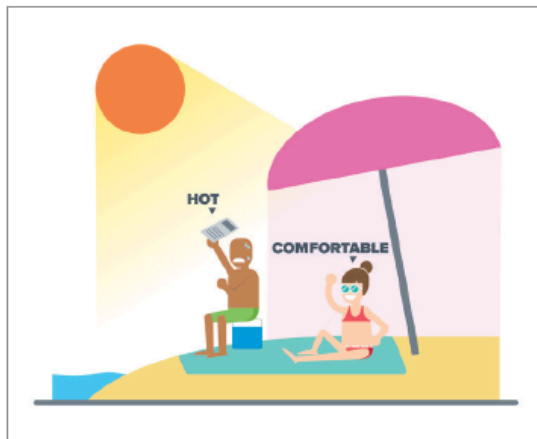
SO, HOW DOES IT WORK?

Whether or not a space is "comfortable" depends on more than just **air temperature** - even though that's the only thing that typical heating and cooling systems can affect. The **surface temperatures** of walls, ceilings, windows and floors also has a big impact on perceived "comfort" - even at the same air temperature!

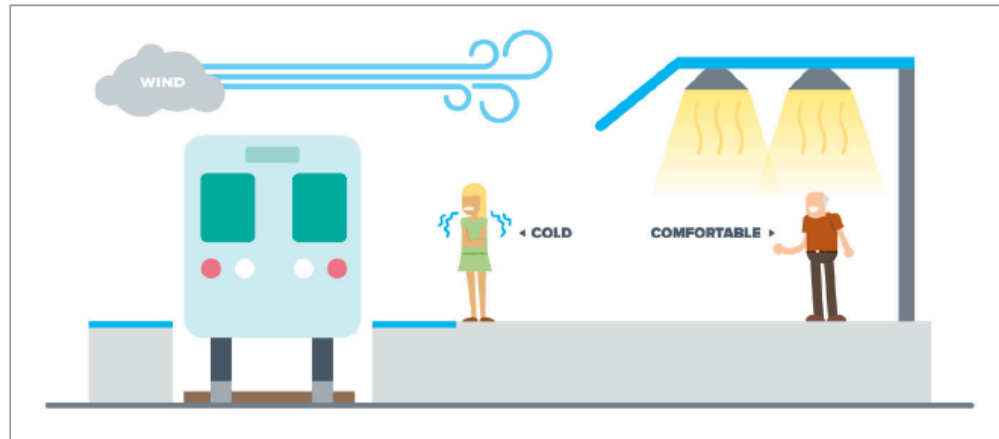
This is the reason that you might feel more comfortable sitting **away** from a large window inside a café on a cold winter night, **under** the shade of an umbrella on a hot and sunny summer afternoon at the beach, or **beneath** the heating lamps while waiting for the train on an L platform on a chilly and windy autumn evening. In all of these cases, the air temperature is identical regardless of where you sit... but you can increase your comfort by changing your proximity to hot and cold surfaces!



AWAY



UNDER



BENEATH

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DESIGNING WITH TARGET EUI...

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Analyze the process changes early and get buy in.

Educate everyone and perform sensitivity early.

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