Development of the Principles

The development of regenerative design principles for building retrofits is primarily enabled through exploring the key interactions between physical, human and natural systems. Integrating emerging technologies which address these key interactions will ensure these principles are innovative as well as feasible. The following are examples of regenerative design principles for building retrofits (currently under development):

- Retrofit to support human & natural co-habitation
- Building envelope to improve indoor environment & restore local ecosystems
- Positive energy exchange with surrounding built environment
- Retrofit for resilient buildings

Future Work

This research will continue to develop a set of regenerative design principles for building retrofits. Ultimately, these principles will provide high-level guidance to designers in order to expand rather than prescribe potential retrofit solutions. However, before these principles can be applied to a specific building, a deeper understanding of its ‘place’ as well as the people and technologies already present needs to be considered.

Contact

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