Toward An Architecture NAPHC 2018



Graham Irwin

Principal, Essential Habitat Architecture www.essentialhabitat.com



What's In a Name?

Passivhaus Architecture
Passive House Architecture
Passive Building Architecture
Passive Architecture



EH Architecture: Work



2008-2017 Completed PH Projects

PH for ALL of California



Elemental Geometry (Conditioned Space)



R House, Syracuse NY
Bernheimer Architecture & Architecture Research Office

Elemental Geometry (Conditioned Space)



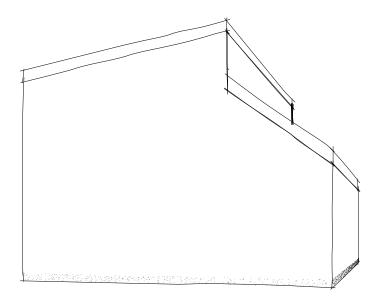
Infill Design for Coffey Park Reconstruction

Elemental Geometry (Conditioned Space)



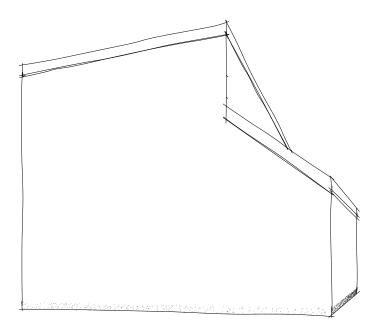
Condominium One, Sea Ranch CA
Moore Lyndon Turnbull Whitaker (MLTW)

Elemental Geometry (Conditioned Space)



"The Mendocino"

Elemental Geometry (Conditioned Space)



"The Mendocino"

Elemental Geometry (Conditioned Space)



Elemental Geometry (Conditioned Space)



"The Mendocino"

Site Responsive



"The Healdsburg"

Site Responsive



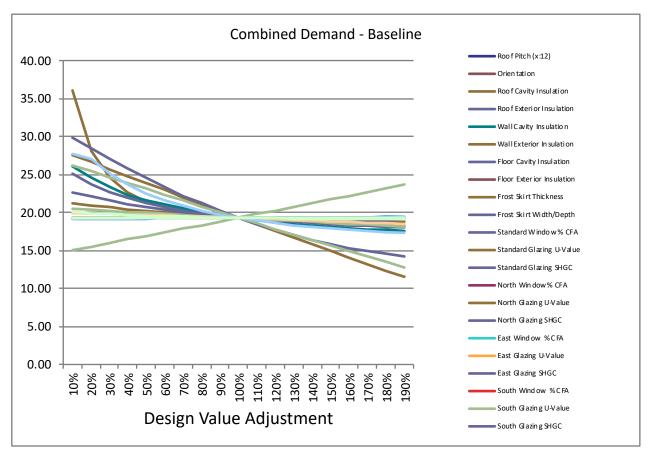






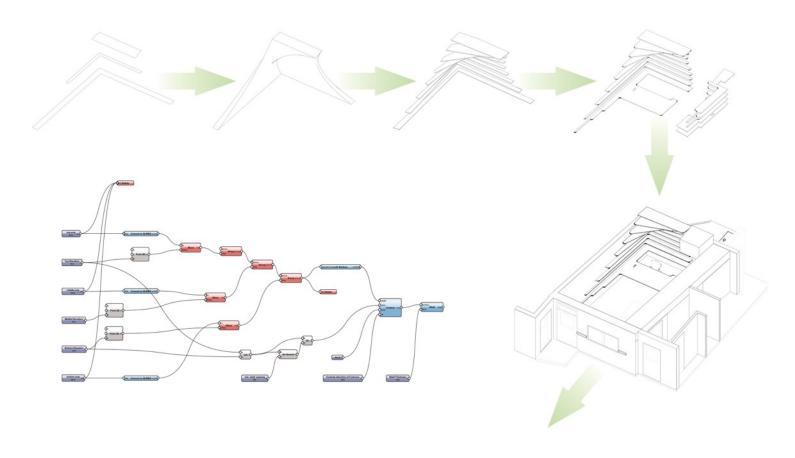
"The Healdsburg"

"Purposeful" Design (Parametrics)



Sensitivity Analysis of PH Project

"Purposeful" Design (Parametrics)



Design Studio, San Anselmo CA

"Purposeful" Design (Parametrics)



Design Studio, San Anselmo CA

"Purposeful" Design (Parametrics)



Design Studio, San Anselmo CA

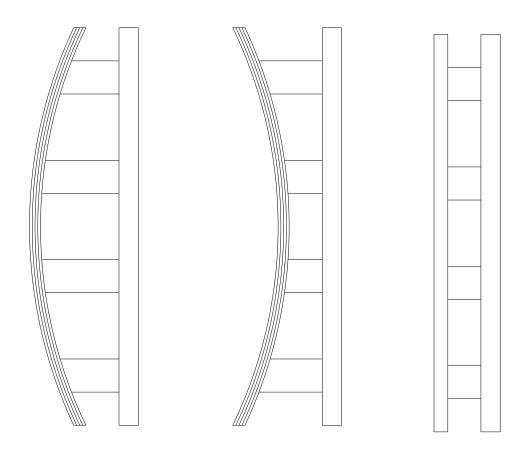
Non-Structural Exoskeleton



VOLKsHouse One, Santa Fe NM

MoSA Architects

Non-Structural Exoskeleton



Larsen Truss Opportunities

Consolidated Glazing



Anchor Bay House, Gualala CA

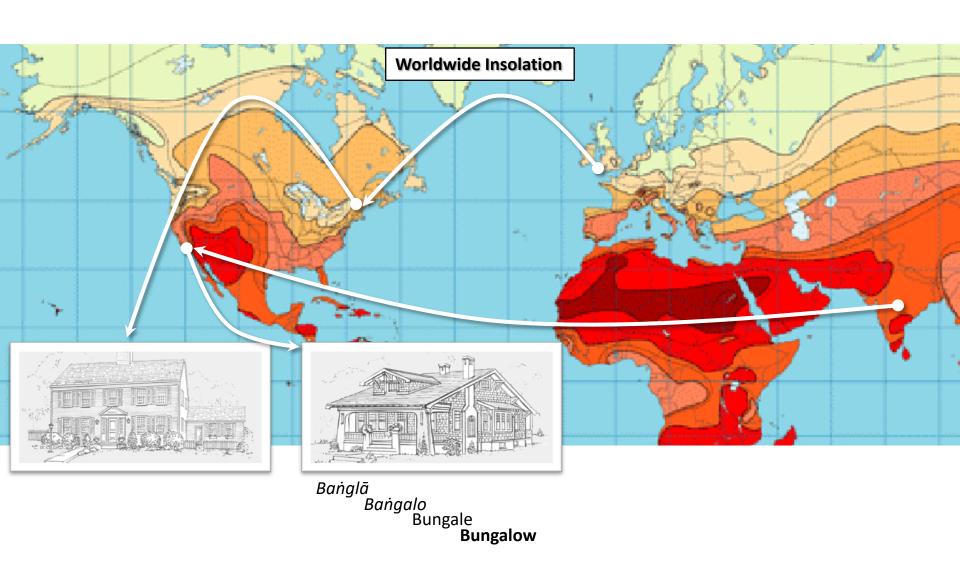
Matthias Oppliger, Architect

"Informed" Vernacular

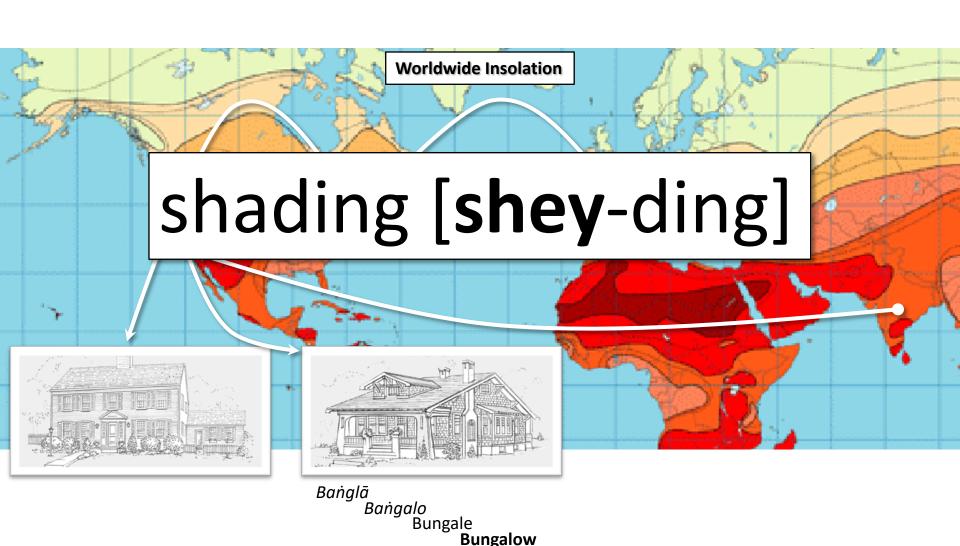


GO Home Passive House, Belfast MEGO Logic

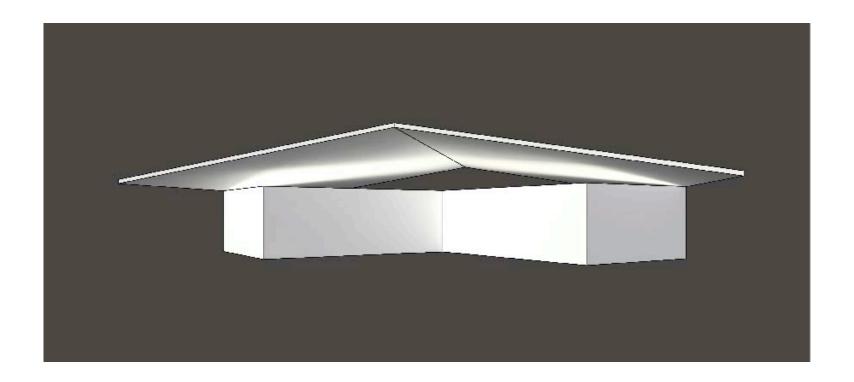
"Informed" Vernacular



"Informed" Vernacular

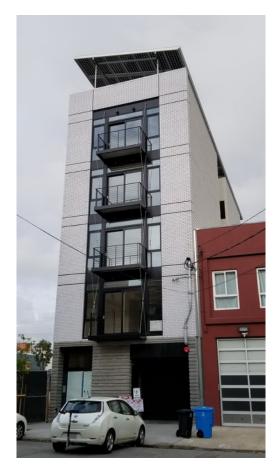


Discrete Shading Elements



"The Mojave"
Essential Habitat Architecture

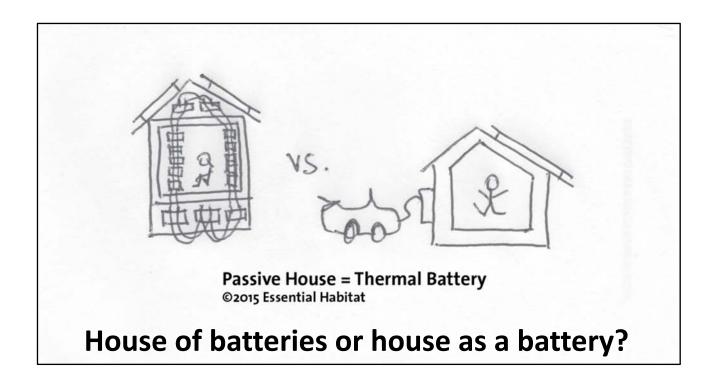
Competent Renewable Grid Transactor



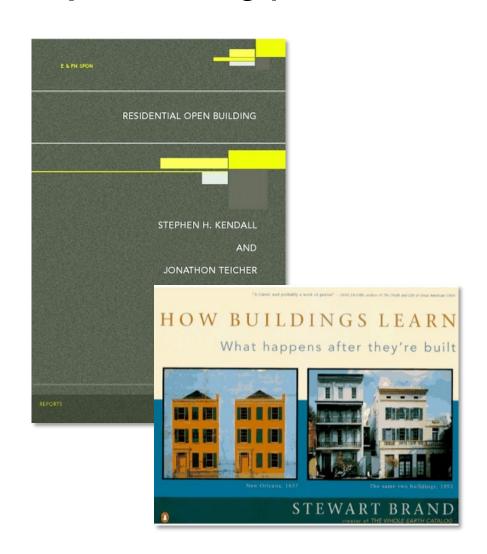
Sol-Lux Alpha, San Francisco CA

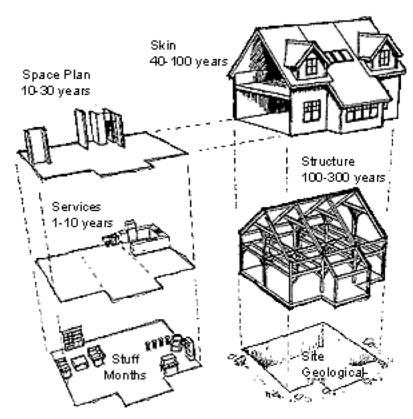
Off the Grid Design & rg-architecture

Competent Renewable Grid Transactor



Open Building ("Forever Home")



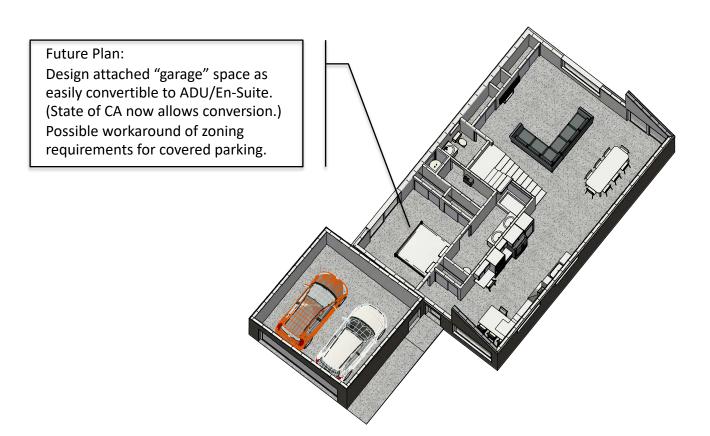


Source: OPEN Prototype Home - Building the Future www.MadeForOne.com

Open Building ("Forever Home") Accessible Ground Floor En-Suite: • Rental unit (w/ optional kitchenette) • Multi-generational housing • "Aging-in-place"

"The Healdsburg" (1st Floor)

The End of Single-Family Housing



"The Mendocino" (1st Floor)