

SCHOOLOFDESIGN George Brown College

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System patterns in housing. --World House Project Institute without Boundaries 2006 -2007

Why this

How did '

by an understanding of how we have created outline innovations in history, but rather to our past. We chose to explore the history of identify trends in housing and to explore how housing in this first year of the World House the home was influenced by the mindset and Project in order to understand how the human culture of the times. The narrative of each conception of home has influenced the design system we have explored is not necessarily of the home through time.

The capacity to design our future is informed The timeline is not meant to comprehensively linear or meant to demonstrate a progressivist viewpoint. Transformations, whether positive or negative, pepper history. They demonstrate instances where the philosophy of a culture calls out for change.

> Moreover, it is interesting to note that some housing types, pioneered by some of the earliest cultures, such as hunter-gatherer or nomadic societies, have persisted to this day and have remained largely unchanged. In particular, these housing types are model examples of sustainable, well-strategized solutions applicable to their environment and indicative of their culture. Our research has helped us understand how much we have to learn from all periods of history and all cultures.

We have identified 12 systems that make up In this timeline, we looked at how different history.

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home, and have researched and analysed systems, ranging from construction to identity, how these systems have changed throughout have been shaping our houses. This timeline aims to identify significant trends in each system to tell a story of how dwelling has changed from the dawn of man to the present. Our capacity for design has always shaped how we live. From the first clay pipes that carried water into our homes, to the wood frame walls and roofs that sheltered us, to the way we communicate our identity through the shape of our home, we are constantly immersed in design and are influenced by design in our environment and daily lives.

> We approached the home as a system of systems, striving for a holistic view of design in housing. In this way, we investigated the home as an entity influenced by the ebb and flow of the time, location, purpose, form and ideas, manifesting themselves as systems innovations within the home.

The timeline can be read both vertically and horizontally.

Horizontal Evolution

Each system has a narrative that can be read Systems interrelate and are incorporated into across the horizontal span of the timeline, as the home as a whole set. identified by each system's colour.

narrative for each system that emphasizes to demonstrate how the systems were significant developments or trends. Systems integrated in the development of a specific are heavily influenced by political and philosophical developments at specific points in history, then innovations respond accordingly. The timeline reflects this depth and complexity through its layers and hierarchy of text and graphics. Each transformations within the development of the instantly recognizable. These integrated examples ascertained from the research we of and identity for the home. gathered.

Vertical Integration

Following a horizontal axis, we visualized a Additionally, the timeline can be read vertically housing type at a point in history. We looked at how systems interrelated vertically at prominent eras in history and built further on this vertical integration by clustering the tipping points around iconic houses. When systems within the house are viewed as a whole, they narrative identifies important transitions or have characteristic patterns that are almost system. These are supported by facts and patterns of systems create the characteristics

After setting up this historical skeleton of How does my home deal with its terrain? horizontal evolution and vertical integration, we observed a changing hierarchy of systems We saw that the earliest settlements were within specific housing types. Four clusters of mostly concerned about pursuing a sufficient three systems were understood to be closely food and water supply, resulting in lightweight influencing each other over this historical structures that could easily be transported to perspective. These observations allowed us the nearest water source or fertile grounds. to synthesize the design process of dwelling Water, food and waste systems were primary into four questions that summarized our observations about the home and dwelling:

factors influencing these housing designs.

How does my home deal with its climate?

Once a water and food surplus could be sustained, the attention shifted towards building more durable and comfortable dwellings where construction, air handling and energy became dominant factors.

How does my home deal with its economy?

Small groups of houses started to form villages and eventually towns. Trade between these different settlements emerged, and systems of exchange, like finance, communication and mobility started to shape housing types.

How does my home deal with its culture?

Throughout history cultures have been continuously adapting to settings while influencing them, as well. Culture binds and galvanizes the systems in the home and the philosophy of the times to create a unique social atmosphere, spatial perception and identity for the home.

What

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sensitivity.

Towards

We found that developments in one system Though much of the timeline focuses on often initiated developments or alterations housing types found in the Western World, in another. The interplay between systems from a Western perspective, we felt that this creates unique 'push and pulls' of influence, was indicative of a continuing, ever-mounting so that developments in one system trigger, trend to adopt a set of Western industrialized restrain and symbiose with others, creating culture and ideals. Due to widespread tightly intermingling clusters of systems. communication and mobility we are amidst an Observing this, we determined that the unprecedented level of action-reaction, a part design of the home should recognize these of and witness to the copy/paste phenomenon interactions and interdependencies, working where knowledge and ideas are spread with towards system integration that will capitalize uncensored fervor. With that in mind, there on and make apparent these relationships. is much to be learned and readopted from In this way systems integration will at once homes of the past and present. We look at be definitive of the time, as well as timeless. the future of innovative housing design as This is what the iconic 'green home' will being a synthesis of age-old wisdom with embody – adaptability, scalability, usability and an appropriate use of today's advancing technology.

This timeline is the culmination of one year of student and faculty research during the inaugural year of the World House Project. We view this timeline as an initial proposition and the first expression of an ongoing evolutionary set of iterations. There is still much to be elaborated on and discovered. We hope to learn from and incorporate your knowledge and ideas into our timeline, and so we encourage you to send us comments, suggestions and feedback about our work.

Ultimately, we envision this timeline expanding past us and our year here at the Institute by making it available on the web as a collaborative and integrative knowledge system to be enriched by the expertise and experiences of the world. People are encouraged to add, edit and contribute their knowledge to the timeline. As an online tool, this timeline can become a hub for people from anywhere, at anytime to share, discuss and co-create a new system patterns in housing.

Please visit us at www.worldhouse.ca/timeline