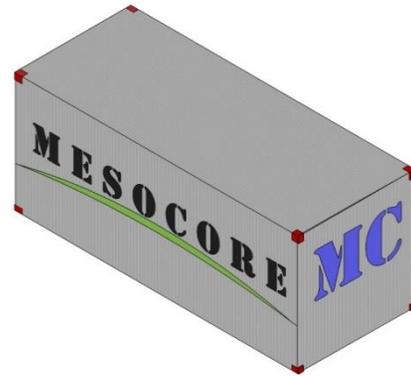


Mesocore Community Development for remote locations

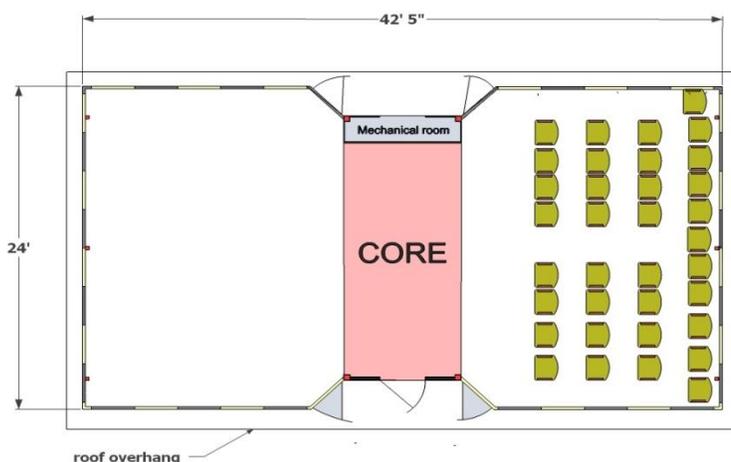
Mesocore units are ideal for forming a community center in remote areas, which can then grow into full communities. As an approved shipping container it can be shipped anywhere and can be equipped to operate with no utility hook-up, harvesting water and electric from renewable resources. It is mostly completed in the factory leaving only the simple lift and place operations to be accomplished on site—allowing un-experienced labor to successfully accomplish the full deployment of a single 1000 square foot structure in a few short weeks.

Multiple unit arrangements can be designed in any configuration to create a larger facility, yet still have the advantage of using individual autonomous units with independent mechanical systems. Such multiple arrangements can create enclosed outdoor courtyard spaces or secure streets which can also be covered with wire suspended tent construction. This is made possible by the steel frame into which each unit is built and its exceptional strength.



A Mesocore container is a complete self-contained 1000 SF structure and can be outfitted to satisfy various needs and functions, such as medical clinics, schoolrooms and of course housing accommodations of various comfort levels.

Establishing a Community Center



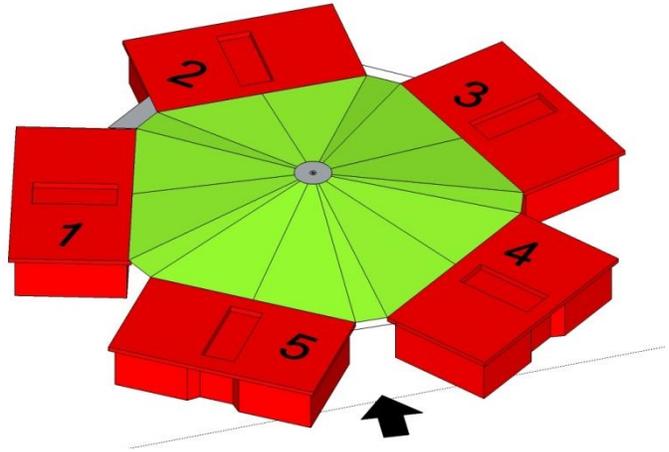
Mesocore footprint shown with classroom on right side. The core can be designed with m/w toilets as needed. Entrance doors can also be selected from any of 5 positions as shown into the core or into the expanded space, right or left side, front or back.

Think of a Mesocore unit as a multi-functioning building block, capable of supporting essential human needs, which can be grouped together to satisfy your program needs. The footprint of each of the expanded Mesocore units is 24 feet by 42.5 feet with the “core”, the factory completed mechanical section of the structure, centered in this foot print. All specific requirements, such as dormitory facilities, private living facilities, classrooms, kitchen and dining, communications and office spaces as well as a health center can be designed into these foot prints. The core of these special use units would be adapted at the factory

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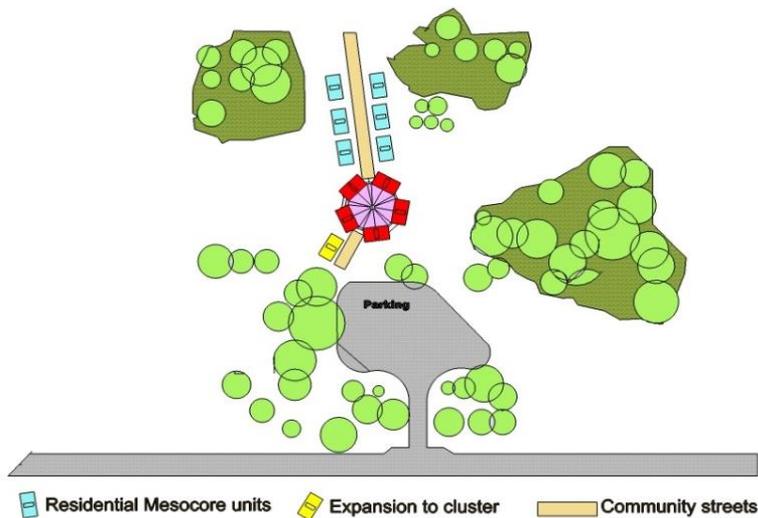
and be appropriately designed and equipped for its special use. These larger courtyard spaces can be serviced by the adjoining Mesocore units thusly supporting larger groups for meetings, lunches and learning as needed.

The sketch at the right shows five Mesocore units clustered into a pentagon shape with a fabric tent enclosure shown in green. Many other shapes and configurations are possible.



Cluster of five Mesocore units, enclosing a pentagonal space, which can be covered by a fabric tent. Entrance to the courtyard space is between each of the Mesocore units, which, in turn, can be entered from outside or inside the courtyard. The diameter of the courtyard is approximately 90 feet, creating about 6000 square feet.

In this example, unit 1 can house two classrooms; unit 2--a kitchen, dining facility; unit 3—two more classrooms; unit 4—a communication office and manager office; unit 5—health clinic with or without a nurse's residence. The tent is supported by a central column which can be shipped in an additional Mesocore unit, which would be located in the center of the courtyard, and could be used for storage or other appropriate functions.



of the development as well as future expansion.

A fully developed community center with residential units as needed and a method to expand in the future is an asset and an important goal in all parts of the developing world.

operates independently, harvesting, storing and purifying rainwater and collecting solar energy and storing electricity in their separate battery banks. Also, since the Mesocore units are weatherproof, designed to withstand the rigors of overseas marine transport, they can be positioned as per the plan, but can remain unopened until they are ready/needed to be deployed. And once they are opened all the other

Residential units, with varying levels of privacy and comforts can be accommodated by individual Mesocore units located near the cluster, but outside of it. The grid upon which these initial residential units are located would form the beginning of the community residential layout.

A distinct advantage of using individual Mesocore units is that no one unit is so large that any delay in its completion can severely affect the project. Each of the units

Mesocore Community Development for remote locations

materials and components required are safely and separately contained in their respective container, assuring that all the parts will be present when needed.

It is important to select an appropriate site to locate the center and future development. Although the Mesocore units are self-sufficient collecting water (as subject to local rainfall amounts) and electricity (also subject to equipment capacity and available sunlight) some thought has to be given to road access, water runoff during rainy season, and sanitary systems, which most simply could be individual septic systems. In addition amenities such as phone service, internet, security systems and back-up generation could easily be incorporated.



Mesocore units begin to expand into a viable community incorporating expanded residential areas as well as alternative construction methods for other regional functions. Jobs for local labor become available as population becomes more educated and begin to see hope for the future.

vehicle of hope to improve their quality of life. The ability of Mesocore units to be located in remote areas and be off-grid is truly unique. But what is really significant is that organic growth of properly conceived communities can establish future urban centers in these remote areas. This type of development is so desirable and necessary, providing benefits of meaningful work, educational opportunities, social interaction and a walk to school and market quality of life. With new technologies, it is now practical to take advantage of modern communication, social media, efficient travel and most importantly decentralized educational opportunities provided by the World Wide Web. In spite of the romance with electronic technological advances, people will always need a home and a community to live in.

Further Community Development

A goal of Mesocore is to promote the development of sustainable communities. Initially the need is to service the local population but successful communities can quickly attract population from other areas. Safety, education, health, family values and economics are among the values which are hopefully advanced especially in remote new communities. The construction of Mesocore homes allows those who want to help themselves, become successful and provides a