ABSTRACT—Bicycles have become a phenomenon in urban. The reasons of traffic jam, pollution and unhealthy lifestyles behind the high demand for bicycles in major cities. Plus the busy lifestyle of urban residents are making time to exercise and get together with family become less and less. so they need an effective time to exercise and hanging out with their family. Tandem bicycle can be the answer to these problems. Tandem bicycle is a bicycle designed to be ridden more than one person. So that the burden should be borne by one person while cycling can be shared with the partner of cycling. In addition it by using the tandem bike communication between the rider will become increasingly tight. Thus the time to exercise and get together with family can be combined into one time so as to accommodate the lifestyle of busy city residents lively.

Tandem bike has some unresolved issues, among others, its dimensions are large enough to be stored and distributed, can not be used alone as there are at least 2 seats and 2 sets of pedals, And the shape of a monotonous because the bike seemed to be only a repetition of the form of bicycles in general, rather than a whole unified bicycle.

Based on the above problems, then the proposed solution is the knock down concept or a bike that can be broken down into modules that can be used by one person or more. In addition, by using the knock down concept, then the tandem bicycle storage and distribution will be more efficient. Expected with this study, bicycle enthusiasts in cities become larger so as to reduce the number of vehicles in major cities and reduce air pollution.

Keywords — Efficiency, Knock Down, Dinamic Image