



This calculation is the result of a thought. What would happen if a neighbourhood in any given inner city decided to go green. Parameters follow observations of inner city architecture and building distribution. The paper provides a grid for action.

Imagine nine buildings who make up a block. Between them tree lined or asphalt only slow traffic streets. Blocks are surrounded by wider high density, fast traffic streets. Some with public transportation such as buses or trams. For the sake of this model we leave all that happens about the nine blocks as is, even if after Corona things may change, and concentrate on the spaces between the buildings.

This calculation is based on 400 persons per building, each person occupying 20m², common spaces included. 400 persons x 20m² is 8000 m², distributed over three floors. Each building thus occupies 2666 m² of land. Its ground dimensions are 40 x 65 m. This is the calculation of total living space, m² per person, number of floors, land use and buildings dimension for one block. Multiplied by nine indicates 400 x 9 = 3.600 people live in our proposed inner city block.

Between buildings there is room for bike and pedestrian paths (two in either given direction), any number of benches (minimum 65 = every 10 meters a place to sit-down rest and/or communicate with neighbours), 3 x 12 = 36 trees lining and 3 x 8 = 24 trees boarding off the block's future outdoor space. In addition there will be room for twelve areas of land to be used for gardens or small animal coups. Plus four communal spaces at the roads' intersections.

Streets between buildings in inner cities vary. If they allow for two cars and and foot paths for pedestrians they are (2.50 x 2 + 1.00 x 2 =) 7 meters wide. They may be narrower or wider. This model is based on a width of 10 meter.

With a given width of 10 meters between buildings, and with paths of a calculated width of 3 meter for bikes, pedestrians and benches there will be in our model block

(65m x 7m x 6 and 40m x 7m x 6 =) **4410 m²** of land available for gardens.

Let's go back to the number of inhabitants. If of the 3600 inhabitants who live in this block 10% (that is 360 persons) have an interest in gardening, each of them could be responsible for 12 m² (for instance 7m x 1.7m). If indeed, with modern permaculture techniques, land produces 10 times more than traditional techniques, how much produce can be generated from the land in these gardens? Assuming gardeners rely on local manure from saw dust toilets, leaves and wood chips from trees and green waste from kitchen and gardens? If trees are fruit bearing and gardeners add bushes that bear berries. If gardeners promote use the benefit of mycelia and the benefits of charcoal?

Next...

Garden tools and equipment...

Waste in a local economies...

Bikes, baby carriages and mobiles for the elderly...

Repair shops...

Workshops...

Coffee and food places...

Shops and markets...

Schooling and kindergartens...

Bank and postal services...

Wind and solar power...

Electrical appliances and the internet...

Leadership and communal effort...

