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However, global imperatives such as climate mitigation, a call for more equitable models of food distribution, and dietary health concerns, triggered a need for more innovative system of development to be implemented to counteract the aforementioned adversities.

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**ABSTRACT**

In the Post World War II (WWII) period, there were two major adversities which arose regarding achieving a sustainable American society as the country began its quest for modernity. Firstly, as the US transitioned into a consumerist society and the low-density suburban development, heavy dependence on the automobile arose. Secondly, agricultural production lost its connection to settlements, with food no longer being produced locally or regionally. Thus it became the industrialized agribusiness model we know today.

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**SUSTAINABILITY**

Social systems: This project addresses: 1) Equitable food distribution ensuring the continued health and wellness of all people. 2) Direct interaction of people with the production of the food they eat, thus educating people about food.

Natural systems: The current agribusiness food production system is polluting our environment. Growing food locally will:
1) Greatly reduce the distance travelled by food thus reducing toxic emissions 2) Local, organic food production practices will reduce the chemical emission from farming.

Built systems: 1) Densification of the area will reduce urban sprawl, and with mixed-use development, increase walkability. 2) The increase of agricultural soft-scape, and the reduction of hard-scape, will reduce the heat island effect 3) The soft-scape will allow storm-water run-off attenuation, and filtering, as opposed to the impermeable asphalt surface that is usually used.

**PLAN FUNDAMENTALS**

For 2030 urban-agriculture plan Wedington will be subdivided into four zones, with each zone having particular agricultural infrastructure. In total 2600 acres of agriculture will be incorporated into the area. The four zones will be:

1. **Urban core zone**: The area along Wedington Drive will be densified with mixed use development. 2) Parking will be condensed, and former lots will be used for food production. 3) Wedington Drive will be converted to a productive boulevard for the growth of pecans.

**General urban zone**: 1) 1100 blocks of new residential development, at a density of 15units per acre, will be placed in this zone to accommodate population growth. 2) Each block will consist of a mixture of house typologies, sharing a communal space for the growth of dynamic garden crops. 3) Apartment buildings will have rooftop gardens and balconies for growing. 4) Community gardens will be distributed throughout the neighborhoods. 5) The streets will be shared streets.

**Suburban zone**: 1) The right-of-ways will be used for nut production. 2) Suburban development will be retrofitted for rainwater harvesting. 3) Front and backyards will be used for the cultivation of garden crops.

**Rural zone**: 1) This zone will contain farms for large scale agriculture production. There will be apple and berry orchards, farms for vegetable production, chicken farms etc. 2) The urban/rural ecotone will be populated with greenhouse gardens that will provide areas for both community and commercial farming.

**SOCIAL STRUCTURE**

Each member of the urban agriculture, Wedington society will have to play a role in the food production for a successful model:

1) Each neighborhood will have a property owner’s association, that ensures the upkeep of food production by the owner, or private property.
2) Members of the Wedington area will have to pay an ecological utility bill to the city. This fee will be used to sustain the production and harvesting of food in public right-of-ways and medians.
3) Pots in the community garden will be leased by the city on a ‘first-come’ application basis. 50% of the plots will be open to middle and upper income families, and the other 50% will be open to low-income families.
4) Every school yard will have a greenhouse and/or garden.
5) A percentage of the space available in medians and right-of-ways will be given to the University’s agricultural department, for experimentation, of crop cultivation in environments sensitive to contamination.
6) The land in the green belt will be leased to commercial farmers and the acquisition of labor will be the responsibility of the farmer. The produce will first be sold on the local market with the excess exported to be sold regionally. After the harvest on commercial farms, the public will be allowed to glean.

**LITERATURE CITED**