Balancing Residences and Green Spaces in a Growing City: Changes in Actual Use of Allotment Gardens in Vienna after 1990s

Naomi Shimpo, Ph.D Student Vienna University of Technology, Austria / The University of Tokyo, Japan

1. Background

Metabolism of allotment gardens? Kleingarten Allotment gardens have been one of important green spaces in European cities for 100 years and changing with For improving unsanitary what urban people have needed. In the end of 19th century living condition they started using allotment gardens, known as *Kleingärten* now, for improving unsanitary living conditions after the Allotment Industrial Revolution. Then, during the World Wars, they garden in needed allotment gardens to cope with serious food Vienna shortage. After W.W.II ended, allotment gardens gradually For recreation became a place for recreation. Now they still exist and, For? uniquely in Vienna, have been becoming residences. On the other hand, new allotment gardens such as community gardens appeared. These process can be called metabolism Kleingarten Community of allotment gardens and this research tried to understand garden a part of them focusing on traditional allotment gardens.



(1) Older EKL^{*} KGV^{***} Zukunft auf der Schmelz (Block 2) 119 Plots (Ave. 211.7m²) Est. in **1921**

(2) Older EKL-W^{**}

KGV Alt-Klampfelberg-Kolonie (Gr. A) 50 Plots (Ave. 284.4m²) Est. in **1915**

(3) Newer EKL-W

KGV Hausfeld



Change of traditional allotment gardens in Vienna

Responding to growing housing demands, the Viennese allotment garden law was amended in 1992 so that gardeners can live there. Since then, some researches reviewed the new law and investigated changes in actual use of the traditional allotment gardens (*Kleingärten*). However, they were conducted ca. 10 years ago, that is, just after the amendment of the law. The following situation should be investigated to see the reaction.



Since 1992, living in allotment gardens all year round was allowed and the maximum size of a house was changed from 35m² to 50m².

Aim: to investigate current land use inside allotment gardens in Vienna and to see the changes for these 10 years.

4. Results

(m²)

500

450

400

(1) Older EKL: KGV Zukunft auf der Schmelz ... Maximum house size: Legally 35 m².

House Shed Terrace, WG Tree crown Veggie Pool, pond Others (mainly lawn)

Using orthophotos (resolution: 15cm) took in 2010 or 2011 by City

of Vienna and ArcGIS 10.1 current land uses were traced and their areas were calculated

3. Methods

Detecting changed plots

According to the above result and the interview to gardeners in August and September 2012, houses which were enlarged or rebuilt were detected.

Measuring effect on green spaces

EKL: Possible to use only in spring and summer

*** KGV (Kleingartenverein): Allotment garden association

Tracing current land uses and calculating areas

** EKL-W: Possible to live all year round

Regarding the changed plots, the loss of green spaces was measured by comparing with unchanged plots.

Most of the houses cannot be larger any more and terraces were already equipped to over half of the houses.

37 Plots (Ave. 331.6m²) Est. in **1987**

> _egend .. House (roofs were traced) 2. Terrace, Winter garden 3. Pool, pond 4. Shed 5. Tree crown 6. Veggie



(2) Older EKL-W: KGV Alt-Klampfelberg-Kolonie (Gr. A)



Half of the house sizes are around 50m² and the houses have terraces, however, the rest houses are unchanged yet. \rightarrow Most variable

(3) Newer EKL-W: KGV Hausfeld



Almost all the house sizes are already around 50m², and terraces are equipped to most of the houses.

Compare unchanged and changed plots According the interview to a gardener, houses which were 20 40

5. Conclusion

Total

(100%)

300.5 m2

(100%)

297.7 m2

(100%)

(100%)



Older EKL and newer EKL-W have already changed and older EKL-W have been changing rapidly for these 10 years. Consequently houses with a terrace are getting larger and trees are disappearing.

The results showed that changes are now going especially in older EKL-W and trees are disappearing when houses are enlarged or rebuilt.

The idea of "allotment gardens as houses" is flexible and effective way to balance residential development and green conservation utilizing green stock. However, if these rapid changes are going as they are, valuable green stock in the city will be lost and traditional allotment gardens may not be a kind of gardens any more.

6. Future plan

Community gardens which appeared recently in Vienna will be investigated. What is the difference between them and traditional allotment gardens (*Kleingärten*)?

