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Transition Rules

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## **Transition Rules**

### **I. Nature**

This category includes all the nature landscapes, vacant spaces and lands with no purposes. Should be at least 25% of the total land

#### **1 Stay the Same:**

1. Surrounded by 5 or more human land use
2. Within a nature neighbourhood (meaning 7 or more nature)
3. If change meaning reduce to less than 25% of land is nature (Too complicated, maybe later)

#### **2 Turn to Other Land Use:**

1. Next to at least three commercials:

- (1) Nature: 0.2
- (2) Residential: 0.3
- (3) Commercial: 0.4
- (4) Industrial: 0.1

2. Next to at least five industrial:

- (1) Nature: 0.1
- (2) Residential: 0
- (3) Commercial: 0.3
- (4) Industrial: 0.6

#### **3 General Probabilities**

- (1) Nature: 0.7
- (2) Residential: 0.1
- (3) Commercial: 0.1
- (4) Industrial: 0.1

## **II. Residential**

This majorly contains all the housing area of the city. Should be around 25%  $\sim$  43% of the total land

### **1 Stay the Same:**

1. Adjacent to at most 1 factory
2. Adjacent to at least 5 commercial or nature
3. Change meaning less than 25% of the land is residential (Still too complicated, maybe later)

### **2 Turn to Other Land Use:**

1. Next to at least three commercials:

- (1) Nature: 0.1
- (2) Residential: 0.5
- (3) Commercial: 0.3
- (4) Industrial: 0.1

2. Next to at least five residential:

- (1) Nature: 0.6
- (2) Residential: 0.2
- (3) Commercial: 0.2
- (4) Industrial: 0

3. Next to two or more factories:

- (1) Nature: 0.2
- (2) Residential: 0
- (3) Commercial: 0.1
- (4) Industrial: 0.7

### **3 General Probability**

- (1) Nature: 0.3

- (2) Residential: 0.4
- (3) Commercial: 0.3
- (4) Industrial: 0

### **III. Commercial**

#### **1 Stay the Same:**

- 1. Next to at least 2 residential

#### **2 Turn to Other Land Use:**

- 1. Next to at least 1 residential, 1 nature:

- (1) Nature: 0.15
- (2) Residential: 0.35
- (3) Commercial: 0.45
- (4) Industrial: 0.05

- 2. Next to at least three industrials:

- (1) Nature: 0.1
- (2) Residential: 0
- (3) Commercial: 0.6
- (4) Industrial: 0.3

- 3. Next to at three residential:

- (1) Nature: 0.3
- (2) Residential: 0.4
- (3) Commercial: 0.3
- (4) Industrial: 0

#### **3 General Probability**

- (1) Nature: 0.2
- (2) Residential: 0.4
- (3) Commercial: 0.3
- (4) Industrial: 0.1

## **IV. Factory**

### **1 Stay the Same:**

1. Next to at most 4 factory
2. Next to at most 3 residential

### **2 Turn to Other Land Use:**

1. Next to at least 4 nature and adjacent to at most 3 residential

- (1) Nature: 0.3
- (2) Residential: 0
- (3) Commercial: 0.2
- (4) Industrial: 0.5

### **3 General Probability**

- (1) Nature: 0.2
- (2) Residential: 0.1
- (3) Commercial: 0.3
- (4) Industrial: 0.4