**專案名稱：選擇林口倉用地**

**合併計算結果**

**匯出日期：2024/6/8**

**選擇林口倉用地原始矩陣：**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **選擇林口倉用地** | **c1** | **c2** | **c3** | **c4** | **c5** | **c6** |
| **c1** | 1 | 0.267142 | 0.394241 | 0.421685 | 0.415244 | 0.525306 |
| **c2** | 3.743324 | 1 | 1 | 2.141127 | 3.68011 | 3.68011 |
| **c3** | 2.536517 | 1 | 1 | 1.718772 | 1.245731 | 2.667269 |
| **c4** | 2.371441 | 0.467044 | 0.581811 | 1 | 1 | 1.37973 |
| **c5** | 2.408225 | 0.271731 | 0.802742 | 1 | 1 | 1.551846 |
| **c6** | 1.903654 | 0.271731 | 0.374915 | 0.72478 | 0.644394 | 1 |

**一、計算行總和：**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **選擇林口倉用地** | **c1** | **c2** | **c3** | **c4** | **c5** | **c6** |
| **c1** | 1 | 0.267142 | 0.394241 | 0.421685 | 0.415244 | 0.525306 |
| **c2** | 3.743324 | 1 | 1 | 2.141127 | 3.68011 | 3.68011 |
| **c3** | 2.536517 | 1 | 1 | 1.718772 | 1.245731 | 2.667269 |
| **c4** | 2.371441 | 0.467044 | 0.581811 | 1 | 1 | 1.37973 |
| **c5** | 2.408225 | 0.271731 | 0.802742 | 1 | 1 | 1.551846 |
| **c6** | 1.903654 | 0.271731 | 0.374915 | 0.72478 | 0.644394 | 1 |
| **行總和** | **13.963161** | **3.277648** | **4.153709** | **7.006364** | **7.985478** | **10.804259** |

**二、將矩陣內數字除以行總和：**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **選擇林口倉用地** | **c1** | **c2** | **c3** | **c4** | **c5** | **c6** |
| **c1** | 0.071617 | 0.081504 | 0.094913 | 0.060186 | 0.052 | 0.04862 |
| **c2** | 0.268086 | 0.305097 | 0.240749 | 0.305598 | 0.46085 | 0.340617 |
| **c3** | 0.181658 | 0.305097 | 0.240749 | 0.245316 | 0.156 | 0.246872 |
| **c4** | 0.169836 | 0.142494 | 0.14007 | 0.142727 | 0.125227 | 0.127702 |
| **c5** | 0.17247 | 0.082904 | 0.193259 | 0.142727 | 0.125227 | 0.143633 |
| **c6** | 0.136334 | 0.082904 | 0.09026 | 0.103446 | 0.080696 | 0.092556 |

**三、計算列平均，該數值即為該層級內各因素之權重：**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **選擇林口倉用地** | **c1** | **c2** | **c3** | **c4** | **c5** | **c6** | **權重(W)** |
| **c1** | 0.071617 | 0.081504 | 0.094913 | 0.060186 | 0.052 | 0.04862 | **0.06814** |
| **c2** | 0.268086 | 0.305097 | 0.240749 | 0.305598 | 0.46085 | 0.340617 | **0.320166** |
| **c3** | 0.181658 | 0.305097 | 0.240749 | 0.245316 | 0.156 | 0.246872 | **0.229282** |
| **c4** | 0.169836 | 0.142494 | 0.14007 | 0.142727 | 0.125227 | 0.127702 | **0.141343** |
| **c5** | 0.17247 | 0.082904 | 0.193259 | 0.142727 | 0.125227 | 0.143633 | **0.14337** |
| **c6** | 0.136334 | 0.082904 | 0.09026 | 0.103446 | 0.080696 | 0.092556 | **0.097699** |

**四、計算λmax、C.I.、C.R.值：**

**λmax=**

((1x0.06814+0.267142x0.320166+0.394241x0.229282+0.421685x0.141343+0.415244x0.14337+0.525306x0.097699)/0.06814+(3.743324x0.06814+1x0.320166+1x0.229282+2.141127x0.141343+3.68011x0.14337+3.68011x0.097699)/0.320166+(2.536517x0.06814+1x0.320166+1x0.229282+1.718772x0.141343+1.245731x0.14337+2.667269x0.097699)/0.229282+(2.371441x0.06814+0.467044x0.320166+0.581811x0.229282+1x0.141343+1x0.14337+1.37973x0.097699)/0.141343+(2.408225x0.06814+0.271731x0.320166+0.802742x0.229282+1x0.141343+1x0.14337+1.551846x0.097699)/0.14337+(1.903654x0.06814+0.271731x0.320166+0.374915x0.229282+0.72478x0.141343+0.644394x0.14337+1x0.097699)/0.097699)/6=6.120226

**C.I.=(6.120226-6)/(6-1)=0.024045**

**C.R.=0.024045/1.24=0.019391**

**C.I.H=0.02405**

**R.I.H=1.24**

**C.R.H=0.01939**

**c1原始矩陣：**

|  |  |  |
| --- | --- | --- |
| **c1** | **A原來倉** | **B新建倉** |
| **A原來倉** | 1 | 0.245341 |
| **B新建倉** | 4.075966 | 1 |

**一、計算行總和：**

|  |  |  |
| --- | --- | --- |
| **c1** | **A原來倉** | **B新建倉** |
| **A原來倉** | 1 | 0.245341 |
| **B新建倉** | 4.075966 | 1 |
| **行總和** | **5.075966** | **1.245341** |

**二、將矩陣內數字除以行總和：**

|  |  |  |
| --- | --- | --- |
| **c1** | **A原來倉** | **B新建倉** |
| **A原來倉** | 0.197007 | 0.197007 |
| **B新建倉** | 0.802993 | 0.802993 |

**三、計算列平均，該數值即為該層級內各因素之權重：**

|  |  |  |  |
| --- | --- | --- | --- |
| **c1** | **A原來倉** | **B新建倉** | **權重(W)** |
| **A原來倉** | 0.197007 | 0.197007 | **0.197007** |
| **B新建倉** | 0.802993 | 0.802993 | **0.802993** |

**四、計算λmax、C.I.、C.R.值：**

**λmax=**

((1x0.197007+0.245341x0.802993)/0.197007+(4.075966x0.197007+1x0.802993)/0.802993)/2=2

**C.I.=(2-2)/(2-1)=0**

**C.R.=0**

**C.I.H=0.02405**

**R.I.H=1.24**

**C.R.H=0.01939**

**c2原始矩陣：**

|  |  |  |
| --- | --- | --- |
| **c2** | **A原來倉** | **B新建倉** |
| **A原來倉** | 1 | 1.838416 |
| **B新建倉** | 0.543946 | 1 |

**一、計算行總和：**

|  |  |  |
| --- | --- | --- |
| **c2** | **A原來倉** | **B新建倉** |
| **A原來倉** | 1 | 1.838416 |
| **B新建倉** | 0.543946 | 1 |
| **行總和** | **1.543946** | **2.838416** |

**二、將矩陣內數字除以行總和：**

|  |  |  |
| --- | --- | --- |
| **c2** | **A原來倉** | **B新建倉** |
| **A原來倉** | 0.647691 | 0.647691 |
| **B新建倉** | 0.352309 | 0.352309 |

**三、計算列平均，該數值即為該層級內各因素之權重：**

|  |  |  |  |
| --- | --- | --- | --- |
| **c2** | **A原來倉** | **B新建倉** | **權重(W)** |
| **A原來倉** | 0.647691 | 0.647691 | **0.647691** |
| **B新建倉** | 0.352309 | 0.352309 | **0.352309** |

**四、計算λmax、C.I.、C.R.值：**

**λmax=**

((1x0.647691+1.838416x0.352309)/0.647691+(0.543946x0.647691+1x0.352309)/0.352309)/2=2

**C.I.=(2-2)/(2-1)=0**

**C.R.=0**

**C.I.H=0.02405**

**R.I.H=1.24**

**C.R.H=0.01939**

**c3原始矩陣：**

|  |  |  |
| --- | --- | --- |
| **c3** | **A原來倉** | **B新建倉** |
| **A原來倉** | 1 | 1 |
| **B新建倉** | 1 | 1 |

**一、計算行總和：**

|  |  |  |
| --- | --- | --- |
| **c3** | **A原來倉** | **B新建倉** |
| **A原來倉** | 1 | 1 |
| **B新建倉** | 1 | 1 |
| **行總和** | **2** | **2** |

**二、將矩陣內數字除以行總和：**

|  |  |  |
| --- | --- | --- |
| **c3** | **A原來倉** | **B新建倉** |
| **A原來倉** | 0.5 | 0.5 |
| **B新建倉** | 0.5 | 0.5 |

**三、計算列平均，該數值即為該層級內各因素之權重：**

|  |  |  |  |
| --- | --- | --- | --- |
| **c3** | **A原來倉** | **B新建倉** | **權重(W)** |
| **A原來倉** | 0.5 | 0.5 | **0.5** |
| **B新建倉** | 0.5 | 0.5 | **0.5** |

**四、計算λmax、C.I.、C.R.值：**

**λmax=**

((1x0.5+1x0.5)/0.5+(1x0.5+1x0.5)/0.5)/2=2

**C.I.=(2-2)/(2-1)=0**

**C.R.=0**

**C.I.H=0.02405**

**R.I.H=1.24**

**C.R.H=0.01939**

**c4原始矩陣：**

|  |  |  |
| --- | --- | --- |
| **c4** | **A原來倉** | **B新建倉** |
| **A原來倉** | 1 | 3 |
| **B新建倉** | 0.333333 | 1 |

**一、計算行總和：**

|  |  |  |
| --- | --- | --- |
| **c4** | **A原來倉** | **B新建倉** |
| **A原來倉** | 1 | 3 |
| **B新建倉** | 0.333333 | 1 |
| **行總和** | **1.333333** | **4** |

**二、將矩陣內數字除以行總和：**

|  |  |  |
| --- | --- | --- |
| **c4** | **A原來倉** | **B新建倉** |
| **A原來倉** | 0.75 | 0.75 |
| **B新建倉** | 0.25 | 0.25 |

**三、計算列平均，該數值即為該層級內各因素之權重：**

|  |  |  |  |
| --- | --- | --- | --- |
| **c4** | **A原來倉** | **B新建倉** | **權重(W)** |
| **A原來倉** | 0.75 | 0.75 | **0.75** |
| **B新建倉** | 0.25 | 0.25 | **0.25** |

**四、計算λmax、C.I.、C.R.值：**

**λmax=**

((1x0.75+3x0.25)/0.75+(0.333333x0.75+1x0.25)/0.25)/2=2

**C.I.=(2-2)/(2-1)=0**

**C.R.=0**

**C.I.H=0.02405**

**R.I.H=1.24**

**C.R.H=0.01939**

**c5原始矩陣：**

|  |  |  |
| --- | --- | --- |
| **c5** | **A原來倉** | **B新建倉** |
| **A原來倉** | 1 | 1.551846 |
| **B新建倉** | 0.644394 | 1 |

**一、計算行總和：**

|  |  |  |
| --- | --- | --- |
| **c5** | **A原來倉** | **B新建倉** |
| **A原來倉** | 1 | 1.551846 |
| **B新建倉** | 0.644394 | 1 |
| **行總和** | **1.644394** | **2.551846** |

**二、將矩陣內數字除以行總和：**

|  |  |  |
| --- | --- | --- |
| **c5** | **A原來倉** | **B新建倉** |
| **A原來倉** | 0.608127 | 0.608127 |
| **B新建倉** | 0.391873 | 0.391873 |

**三、計算列平均，該數值即為該層級內各因素之權重：**

|  |  |  |  |
| --- | --- | --- | --- |
| **c5** | **A原來倉** | **B新建倉** | **權重(W)** |
| **A原來倉** | 0.608127 | 0.608127 | **0.608127** |
| **B新建倉** | 0.391873 | 0.391873 | **0.391873** |

**四、計算λmax、C.I.、C.R.值：**

**λmax=**

((1x0.608127+1.551846x0.391873)/0.608127+(0.644394x0.608127+1x0.391873)/0.391873)/2=2

**C.I.=(2-2)/(2-1)=0**

**C.R.=0**

**C.I.H=0.02405**

**R.I.H=1.24**

**C.R.H=0.01939**

**c6原始矩陣：**

|  |  |  |
| --- | --- | --- |
| **c6** | **A原來倉** | **B新建倉** |
| **A原來倉** | 1 | 1.551846 |
| **B新建倉** | 0.644394 | 1 |

**一、計算行總和：**

|  |  |  |
| --- | --- | --- |
| **c6** | **A原來倉** | **B新建倉** |
| **A原來倉** | 1 | 1.551846 |
| **B新建倉** | 0.644394 | 1 |
| **行總和** | **1.644394** | **2.551846** |

**二、將矩陣內數字除以行總和：**

|  |  |  |
| --- | --- | --- |
| **c6** | **A原來倉** | **B新建倉** |
| **A原來倉** | 0.608127 | 0.608127 |
| **B新建倉** | 0.391873 | 0.391873 |

**三、計算列平均，該數值即為該層級內各因素之權重：**

|  |  |  |  |
| --- | --- | --- | --- |
| **c6** | **A原來倉** | **B新建倉** | **權重(W)** |
| **A原來倉** | 0.608127 | 0.608127 | **0.608127** |
| **B新建倉** | 0.391873 | 0.391873 | **0.391873** |

**四、計算λmax、C.I.、C.R.值：**

**λmax=**

((1x0.608127+1.551846x0.391873)/0.608127+(0.644394x0.608127+1x0.391873)/0.391873)/2=2

**C.I.=(2-2)/(2-1)=0**

**C.R.=0**

**C.I.H=0.02405**

**R.I.H=1.24**

**C.R.H=0.01939**

**權重排名：**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **構面** | **準則** | **局部權重** | **整體權重** | **排名** |
| **選擇林口倉用地** | **c1** | **0.06814** | **0.06814** | **6** |
| **選擇林口倉用地** | **c2** | **0.320165** | **0.320165** | **1** |
| **選擇林口倉用地** | **c3** | **0.229281** | **0.229281** | **2** |
| **選擇林口倉用地** | **c4** | **0.141342** | **0.141342** | **4** |
| **選擇林口倉用地** | **c5** | **0.14337** | **0.14337** | **3** |
| **選擇林口倉用地** | **c6** | **0.097699** | **0.097699** | **5** |

c1 考慮未來可能的擴展需求

c2 符合消防法規取得建築使用執照

c3 設計合理的倉庫佈局提高存儲和運輸的效率

c4 計算購地、建設的總成本

c5 考慮長期運營成本、維護和能源消耗

c6 考慮勞動力的供給是否充裕