Regression\_logistic:

% forcasted\_total\_ratio = 0.1;

at month 3:

result\_PAI = 0.012156, result\_PEI = 0.001502, overlap\_cell\_number = 40.000000, overlap\_cell\_number\_ratio = 0.158103

at month 4:

result\_PAI = 0.020562, result\_PEI = 0.002550, overlap\_cell\_number = 41.000000, overlap\_cell\_number\_ratio = 0.162055

at month 5:

result\_PAI = 0.009898, result\_PEI = 0.001235, overlap\_cell\_number = 40.000000, overlap\_cell\_number\_ratio = 0.158103

at month 6:

result\_PAI = 0.009476, result\_PEI = 0.001211, overlap\_cell\_number = 42.000000, overlap\_cell\_number\_ratio = 0.166008

at month 7:

result\_PAI = 0.008907, result\_PEI = 0.001156, overlap\_cell\_number = 40.000000, overlap\_cell\_number\_ratio = 0.158103

at month 8:

result\_PAI = 0.005986, result\_PEI = 0.000766, overlap\_cell\_number = 40.000000, overlap\_cell\_number\_ratio = 0.158103

at month 9:

result\_PAI = 0.009849, result\_PEI = 0.001241, overlap\_cell\_number = 41.000000, overlap\_cell\_number\_ratio = 0.162055

at month 10:

result\_PAI = 0.007488, result\_PEI = 0.000940, overlap\_cell\_number = 41.000000, overlap\_cell\_number\_ratio = 0.162055

at month 11:

result\_PAI = 0.011628, result\_PEI = 0.001470, overlap\_cell\_number = 41.000000, overlap\_cell\_number\_ratio = 0.162055

at month 12:

result\_PAI = 0.012976, result\_PEI = 0.001622, overlap\_cell\_number = 43.000000, overlap\_cell\_number\_ratio = 0.169960

Gaussian Process:

% forcasted\_total\_ratio = 0.005;

at month 3:

result\_PAI = 29.649670, result\_PEI = 0.843049, overlap\_cell\_number = 8.000000, overlap\_cell\_number\_ratio = 0.615385

at month 4:

result\_PAI = 29.945959, result\_PEI = 0.823853, overlap\_cell\_number = 8.000000, overlap\_cell\_number\_ratio = 0.615385

at month 5:

result\_PAI = 27.288531, result\_PEI = 0.809524, overlap\_cell\_number = 9.000000, overlap\_cell\_number\_ratio = 0.692308

at month 6:

result\_PAI = 29.198455, result\_PEI = 0.891182, overlap\_cell\_number = 9.000000, overlap\_cell\_number\_ratio = 0.692308

at month 7:

result\_PAI = 29.296318, result\_PEI = 0.833882, overlap\_cell\_number = 8.000000, overlap\_cell\_number\_ratio = 0.615385

at month 8:

result\_PAI = 26.853545, result\_PEI = 0.805944, overlap\_cell\_number = 8.000000, overlap\_cell\_number\_ratio = 0.615385

at month 9:

result\_PAI = 30.796000, result\_PEI = 0.847100, overlap\_cell\_number = 8.000000, overlap\_cell\_number\_ratio = 0.615385

at month 10:

result\_PAI = 29.436397, result\_PEI = 0.819473, overlap\_cell\_number = 8.000000, overlap\_cell\_number\_ratio = 0.615385

at month 11:

result\_PAI = 26.401312, result\_PEI = 0.784753, overlap\_cell\_number = 9.000000, overlap\_cell\_number\_ratio = 0.692308

at month 12:

result\_PAI = 25.842095, result\_PEI = 0.769424, overlap\_cell\_number = 9.000000, overlap\_cell\_number\_ratio = 0.692308

Predict by Mean:

% forcasted\_total\_ratio = 0.005;

at month 3:

result\_PAI = 33.198167, result\_PEI = 0.943946, overlap\_cell\_number = 11.000000, overlap\_cell\_number\_ratio = 0.846154

at month 4:

result\_PAI = 32.613750, result\_PEI = 0.897248, overlap\_cell\_number = 10.000000, overlap\_cell\_number\_ratio = 0.769231

at month 5:

result\_PAI = 32.425196, result\_PEI = 0.961905, overlap\_cell\_number = 12.000000, overlap\_cell\_number\_ratio = 0.923077

at month 6:

result\_PAI = 30.366393, result\_PEI = 0.926829, overlap\_cell\_number = 10.000000, overlap\_cell\_number\_ratio = 0.769231

at month 7:

result\_PAI = 32.589987, result\_PEI = 0.927632, overlap\_cell\_number = 11.000000, overlap\_cell\_number\_ratio = 0.846154

at month 8:

result\_PAI = 31.804849, result\_PEI = 0.954545, overlap\_cell\_number = 11.000000, overlap\_cell\_number\_ratio = 0.846154

at month 9:

result\_PAI = 34.821203, result\_PEI = 0.957821, overlap\_cell\_number = 10.000000, overlap\_cell\_number\_ratio = 0.769231

at month 10:

result\_PAI = 33.370964, result\_PEI = 0.929006, overlap\_cell\_number = 10.000000, overlap\_cell\_number\_ratio = 0.769231

at month 11:

result\_PAI = 30.776386, result\_PEI = 0.914798, overlap\_cell\_number = 10.000000, overlap\_cell\_number\_ratio = 0.769231

at month 12:

result\_PAI = 31.902781, result\_PEI = 0.949875, overlap\_cell\_number = 11.000000, overlap\_cell\_number\_ratio = 0.846154