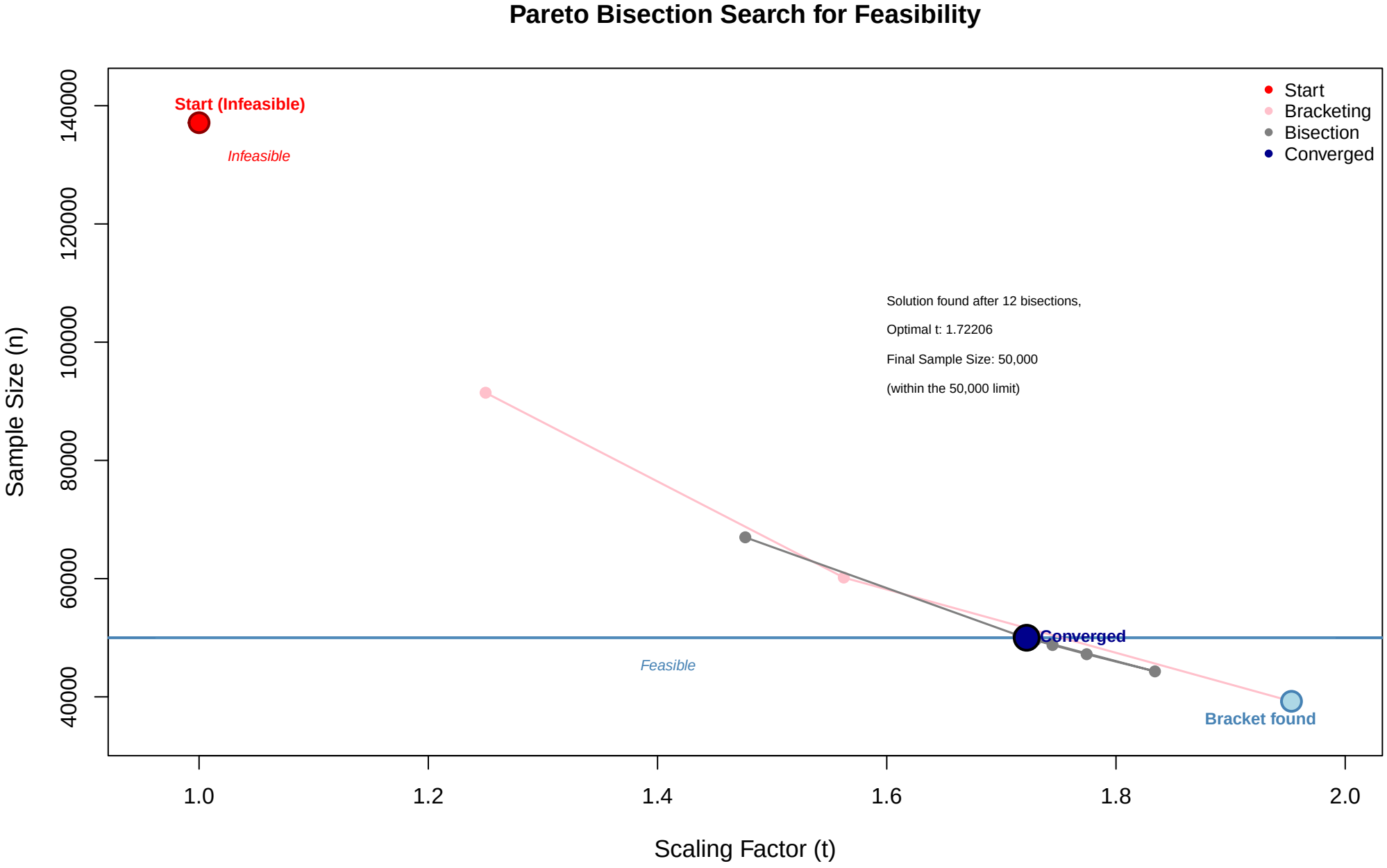
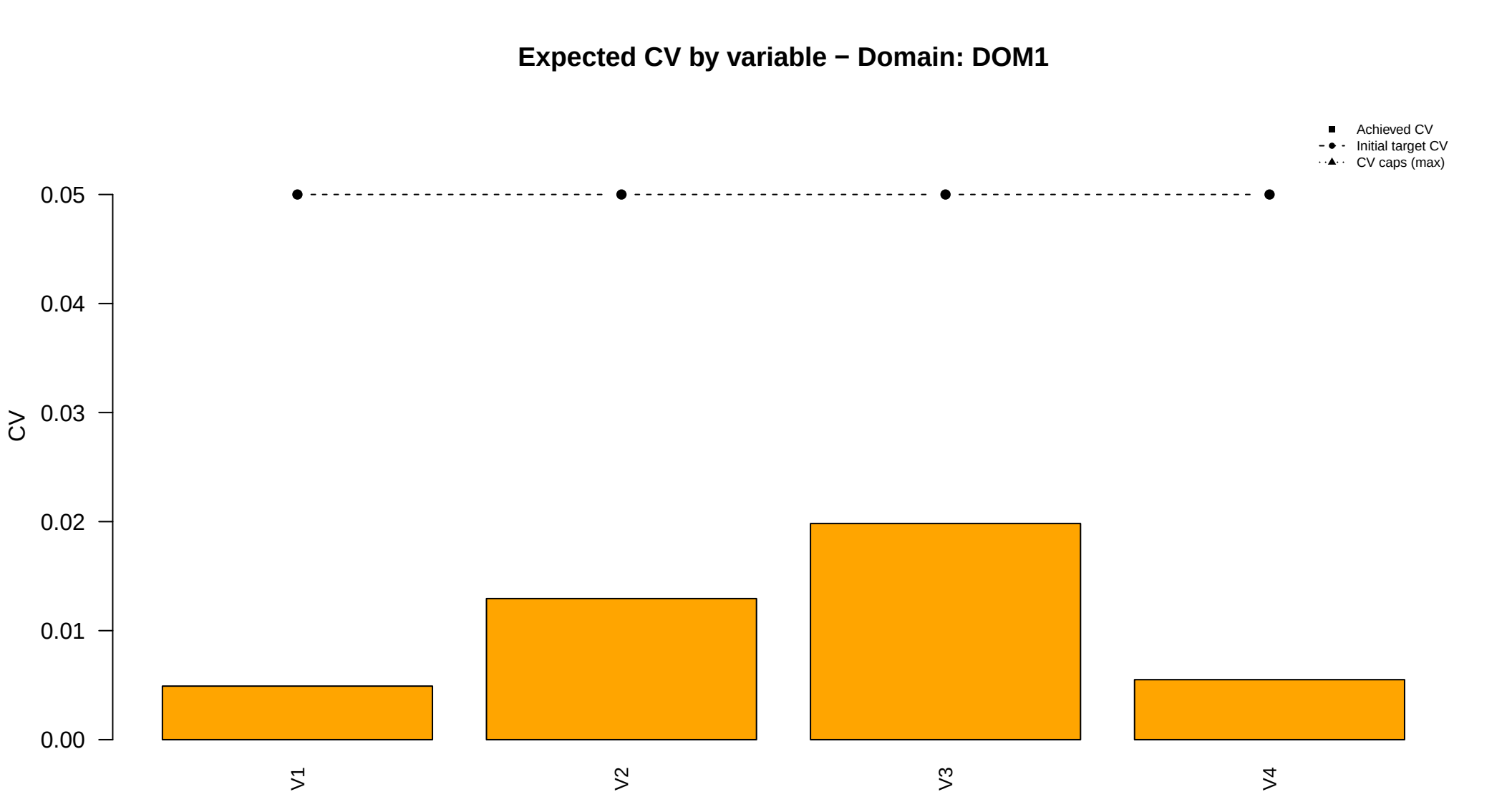
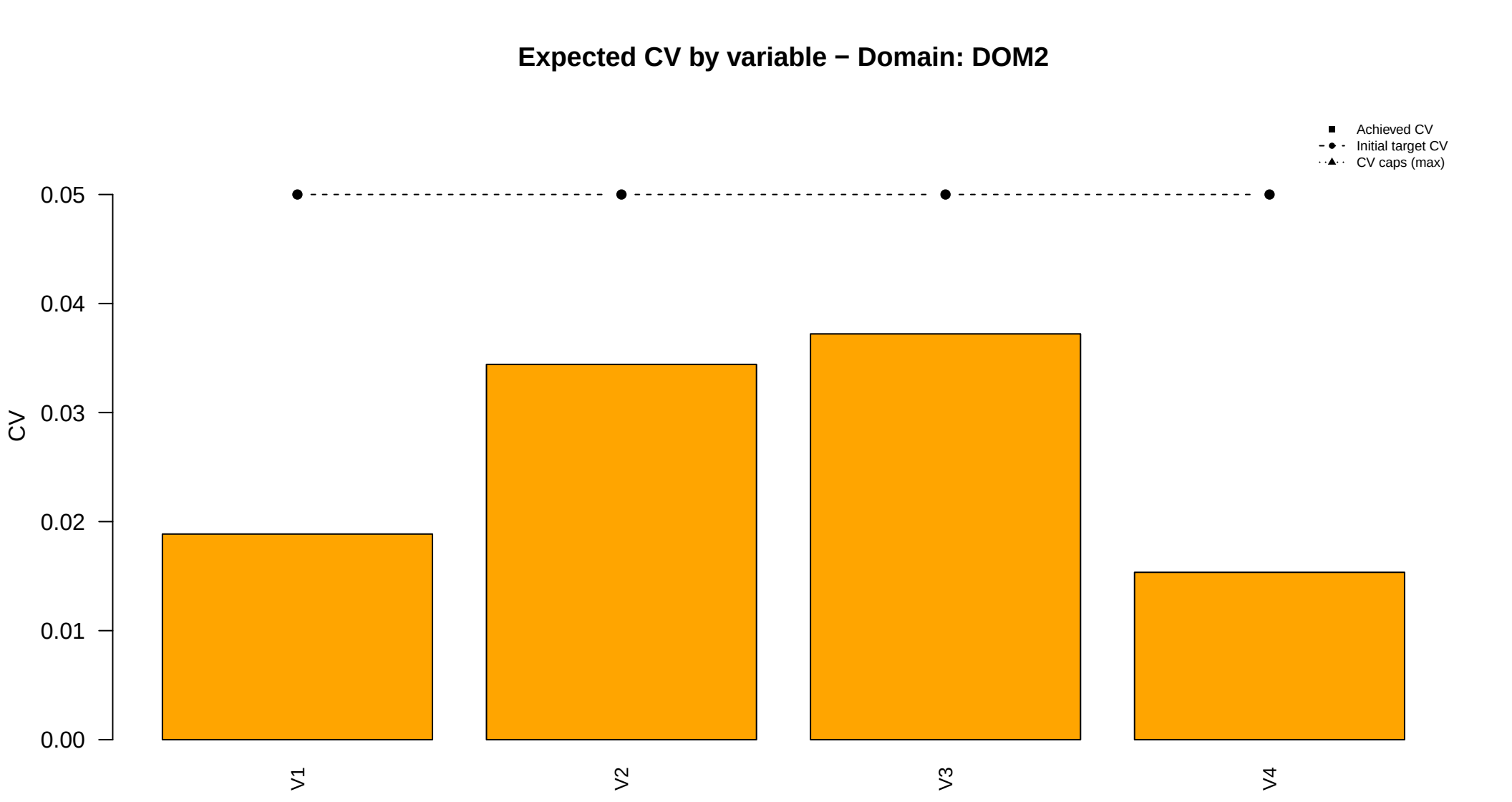
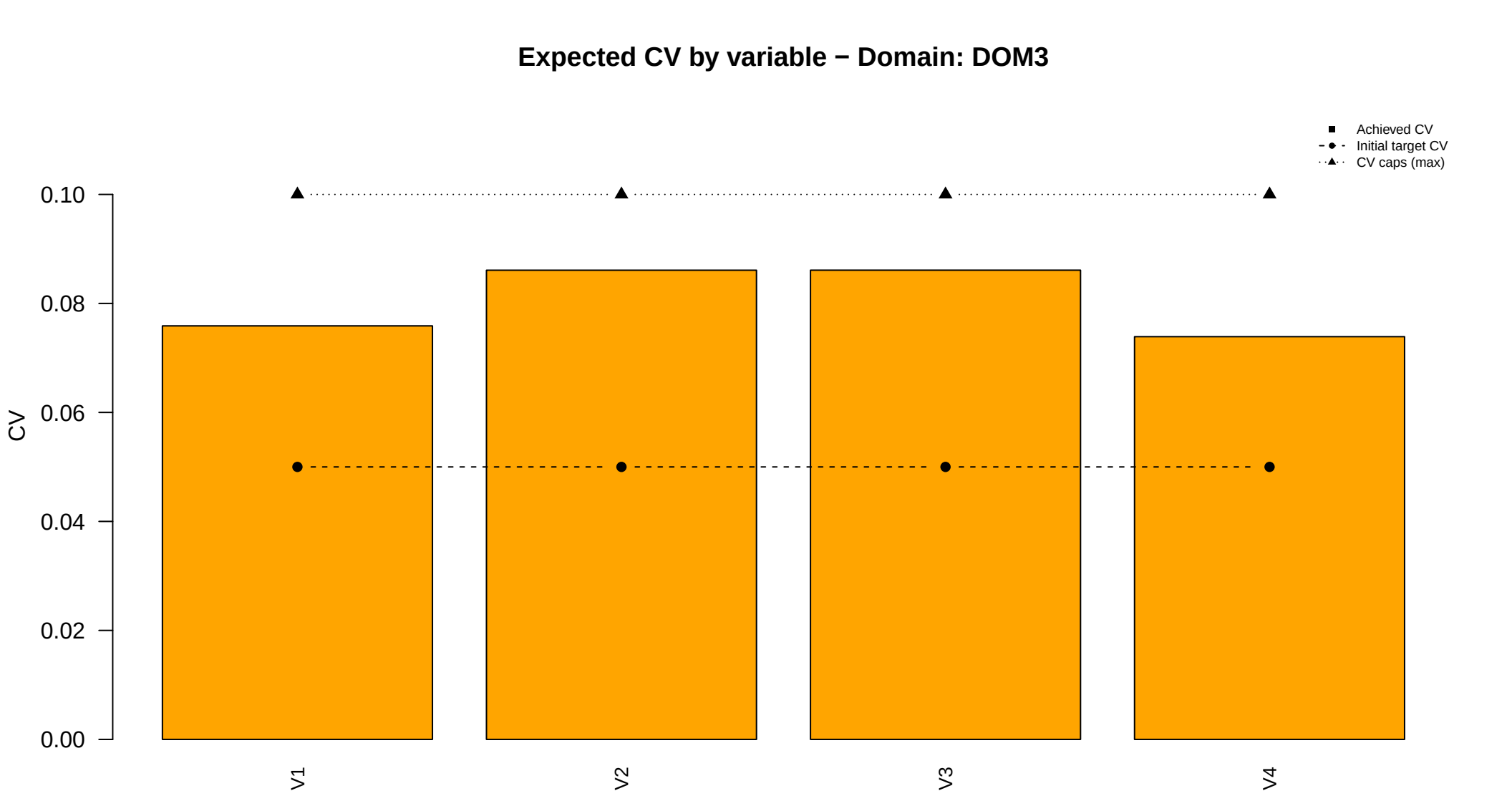
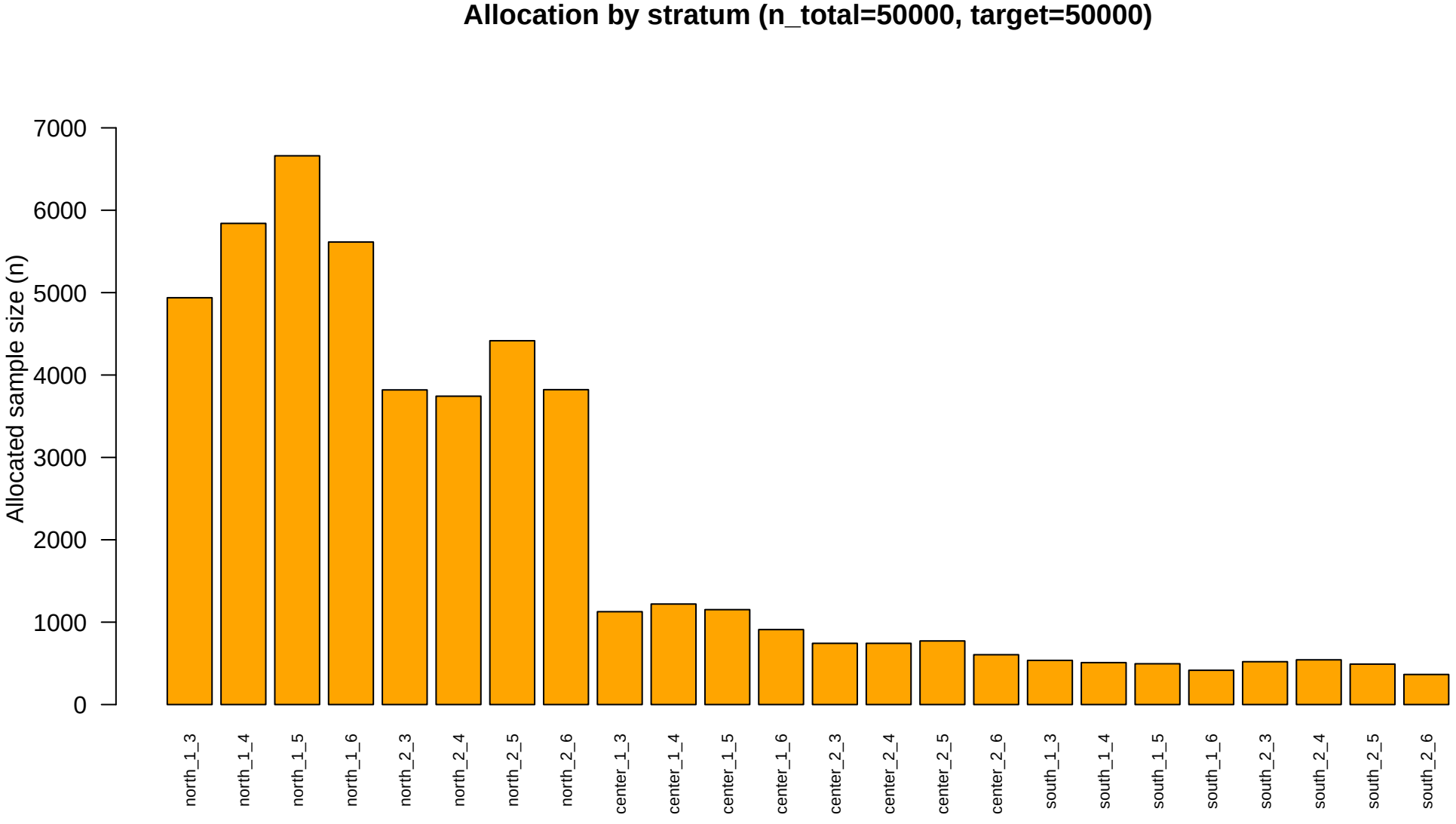

Pareto Bisection Search for Feasibility
Start (Infeasible)
Infeasible
Start
Bracketing
Bisection
Converged
Solution found after 12 bisections,
Optimal t: 1.72206
Final Sample Size: 50,000
(within the 50,000 limit)
Converged
Feasible
Bracket found
Sample Size (n)
140000
120000
100000
80000
60000
40000
1.0
1.2
1.4
1.6
1.8
2.0
Scaling Factor (t)


Expected CV by variable − Domain: DOM1
Achieved CV
Initial target CV
CV caps (max)
CV
0.05
0.04
0.03
0.02
0.01
0.00
V1
V2
V3
V4


Expected CV by variable − Domain: DOM2
Achieved CV
Initial target CV
CV caps (max)
CV
0.05
0.04
0.03
0.02
0.01
0.00
V1
V2
V3
V4


Expected CV by variable − Domain: DOM3
Achieved CV
Initial target CV
CV caps (max)
CV
0.10
0.08
0.06
0.04
0.02
0.00
V1
V2
V3
V4


Allocation by stratum (n_total=50000, target=50000)
Allocated sample size (n)
0
1000
2000
3000
4000
5000
6000
7000
north_1_3
north_1_4
north_1_5
north_1_6
north_2_3
north_2_4
north_2_5
north_2_6
center_1_3
center_1_4
center_1_5
center_1_6
center_2_3
center_2_4
center_2_5
center_2_6
south_1_3
south_1_4
south_1_5
south_1_6
south_2_3
south_2_4
south_2_5
south_2_6