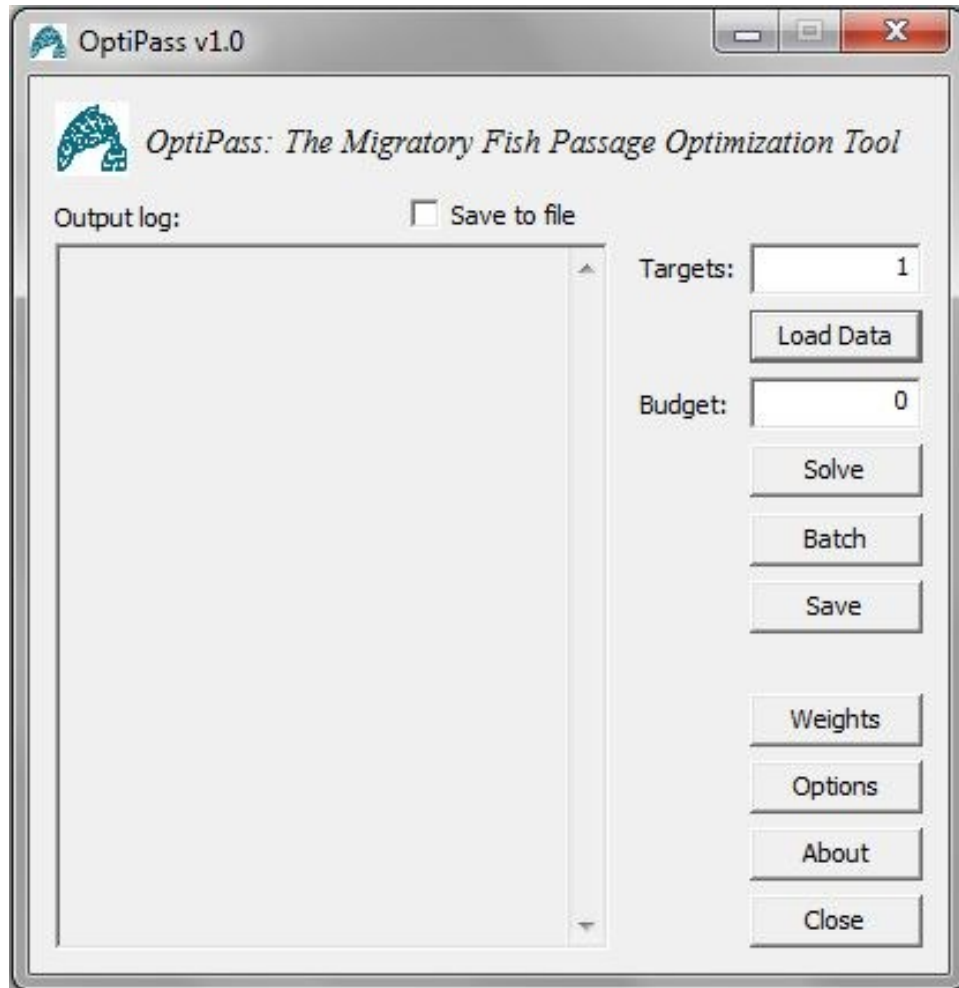
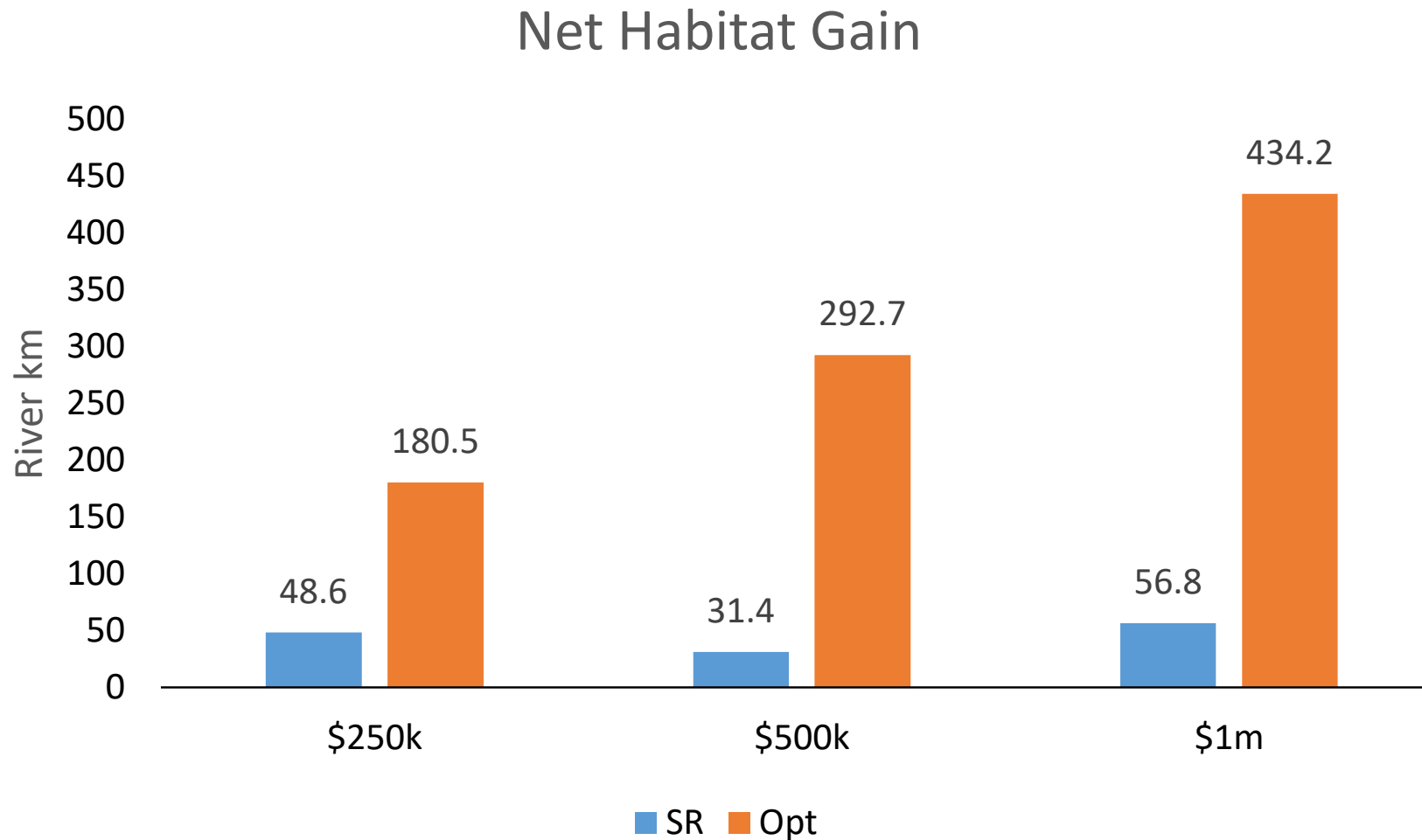


OptiPass demo

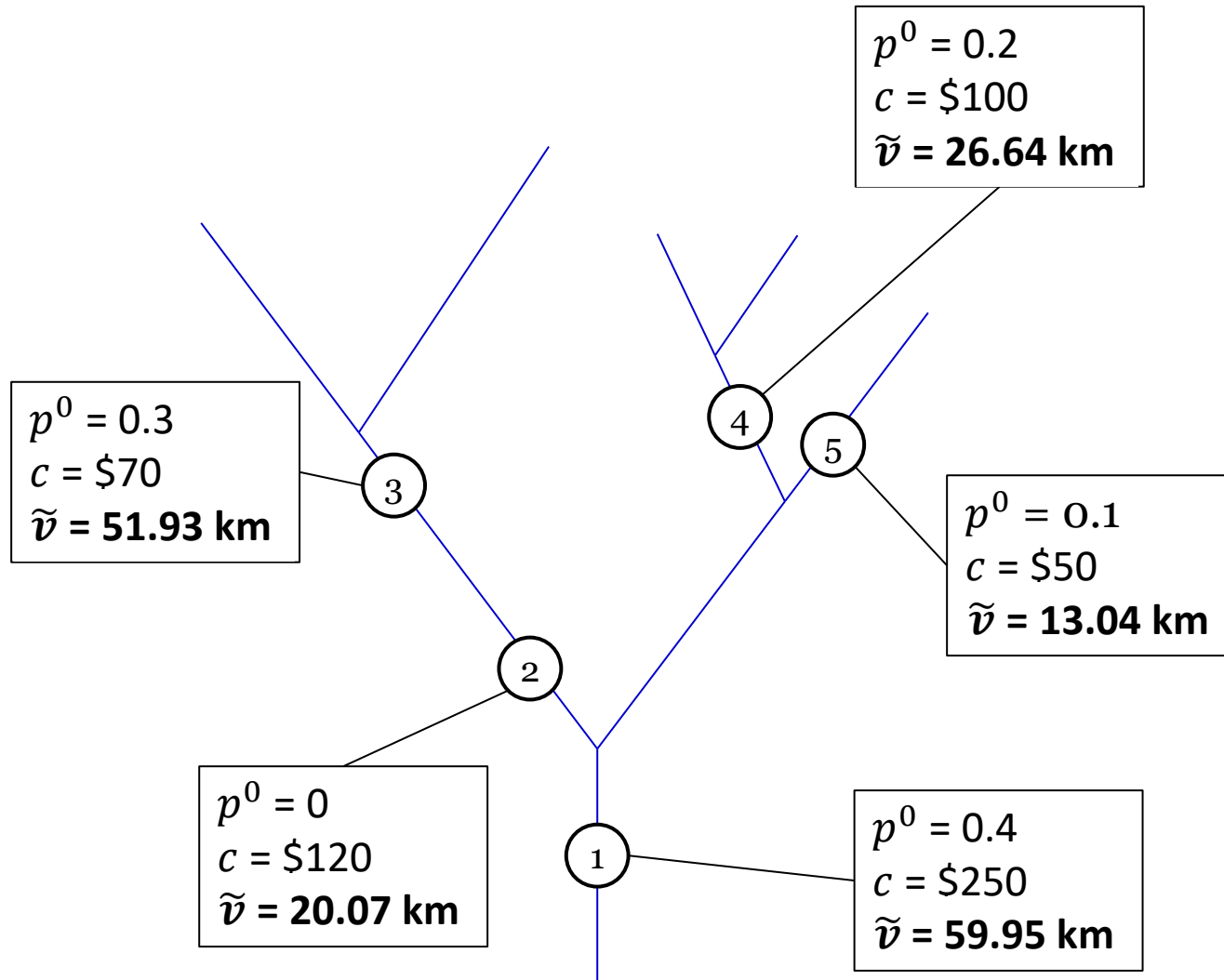


- **Purpose?** Maximize accessible river habitat for diadromous fish given available budget
- **Users?** Any – river / forest / road planners
- **Scale/geography?** Any catchment or spatial area
- **Basic mechanism?** Mathematical optimization
- **Platform?** Windows app or Excel

Optimization vs Scoring & Ranking



Unrecorded barriers



Budget = \$250 thousand

Assume 1 hidden barrier with passability 0.3

Naïve Approach

Assumption: no hidden barriers

Selected barriers: 2, 3, 5

Presumed habitat gain: 43.33 km

Actual habitat gain: 34.02 km

Informed Approach

Selected barriers: 1

Presumed/actual habitat gain: 37.57 km

Increased habitat gain: +10%

Value of an informed approach

