hackaTUM 2024

Connected Mobility Challenge

24.11.2024

What did we optimize for?

$$loss := \sum_{customer} value(customer) \times waiting\_time(customer)$$
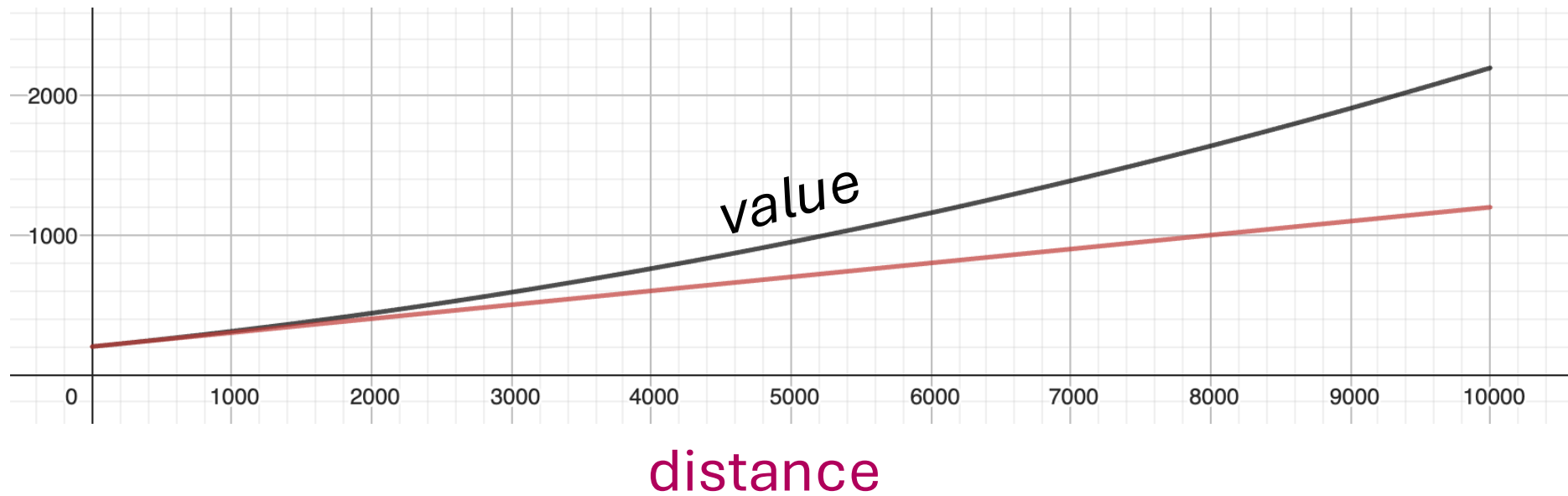
Prioritize Profitable Customers
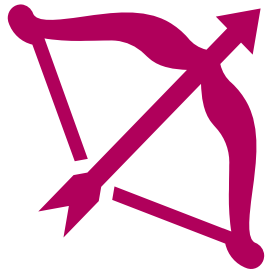
Reduced wait time based on their trip length.

HiGHS
Open Source **Solver**
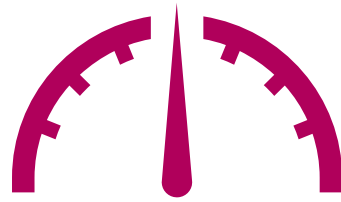
How?
Mixed-Integer
Programming

Google **OR-Tools**

Our Loss Function

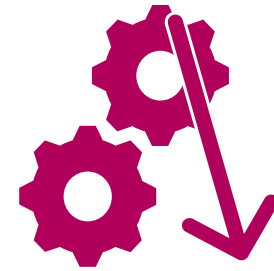$$loss := \sum_{customer} value(customer) \times waiting\_time(customer)$$

value

distance

Our Algorithm

Single-Shot Policy

Assuming Static Speeds
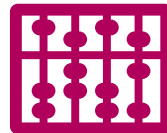
Optimizing Loss Function

Performance Comparison
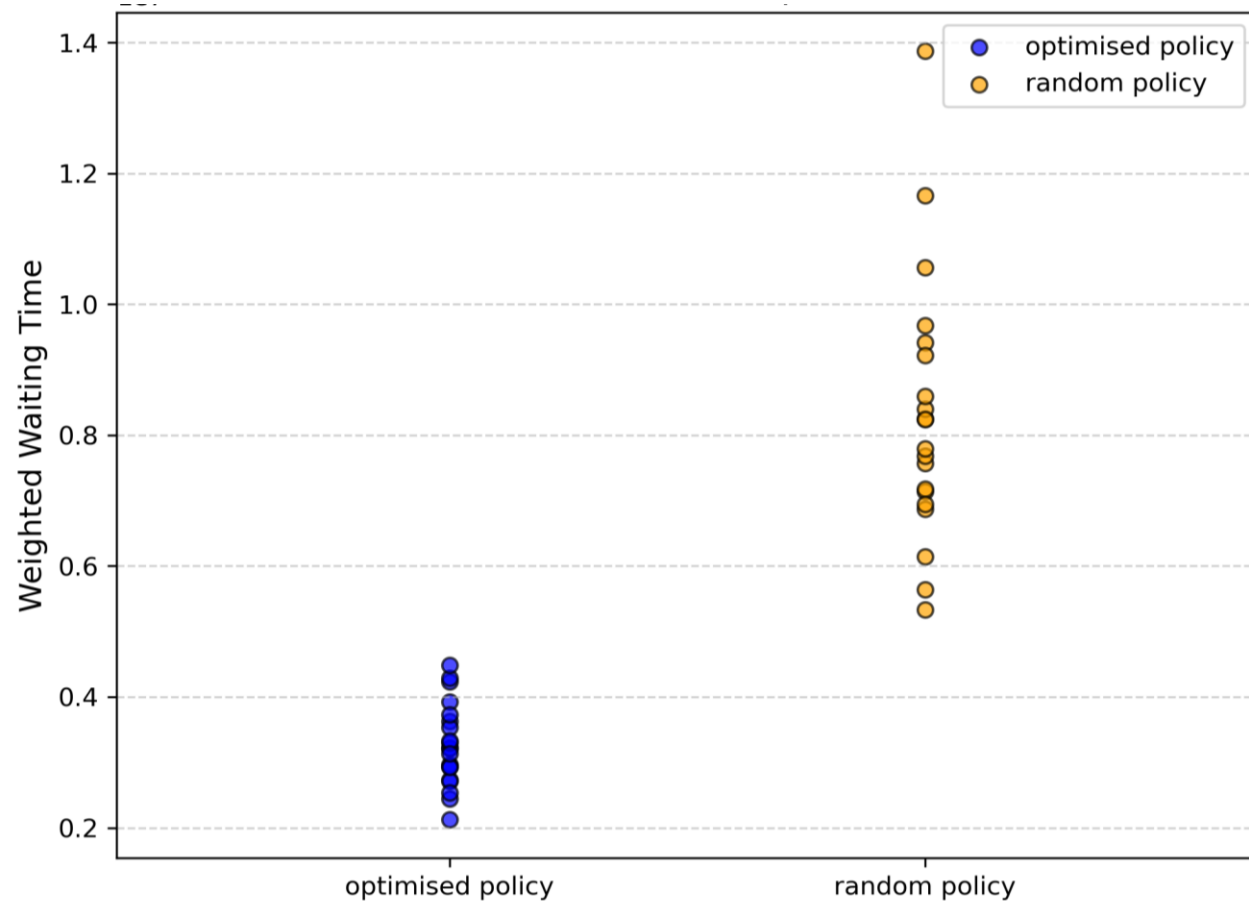
Outlook

Visualize impact
of **varying vehicle
amounts**...

More **Analytics**...

More **Heuristics**...