

Scenarios

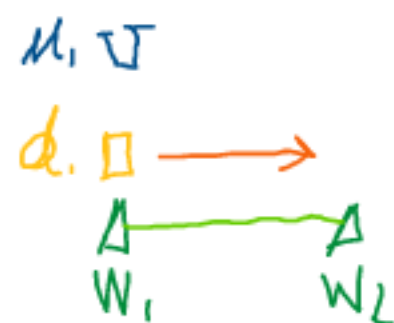
martedì 26 ottobre 2021

16:40

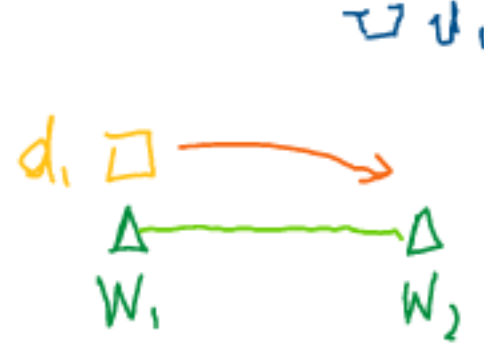
Scenario 0



Scenario 1



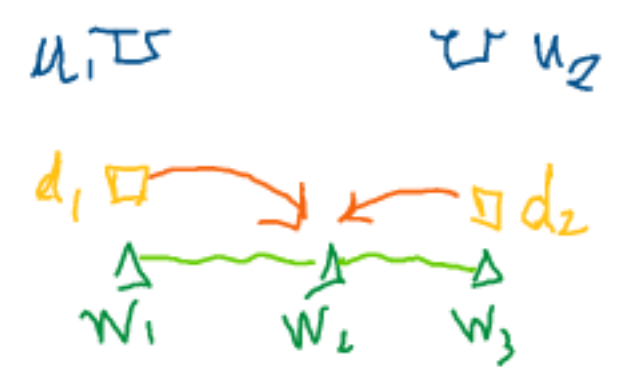
Scenario 2



Scenario 3



Scenario 4



~~Introducing parcels' weight constraint~~

~~$$\phi(1) = 1.5 = \max(\phi)$$

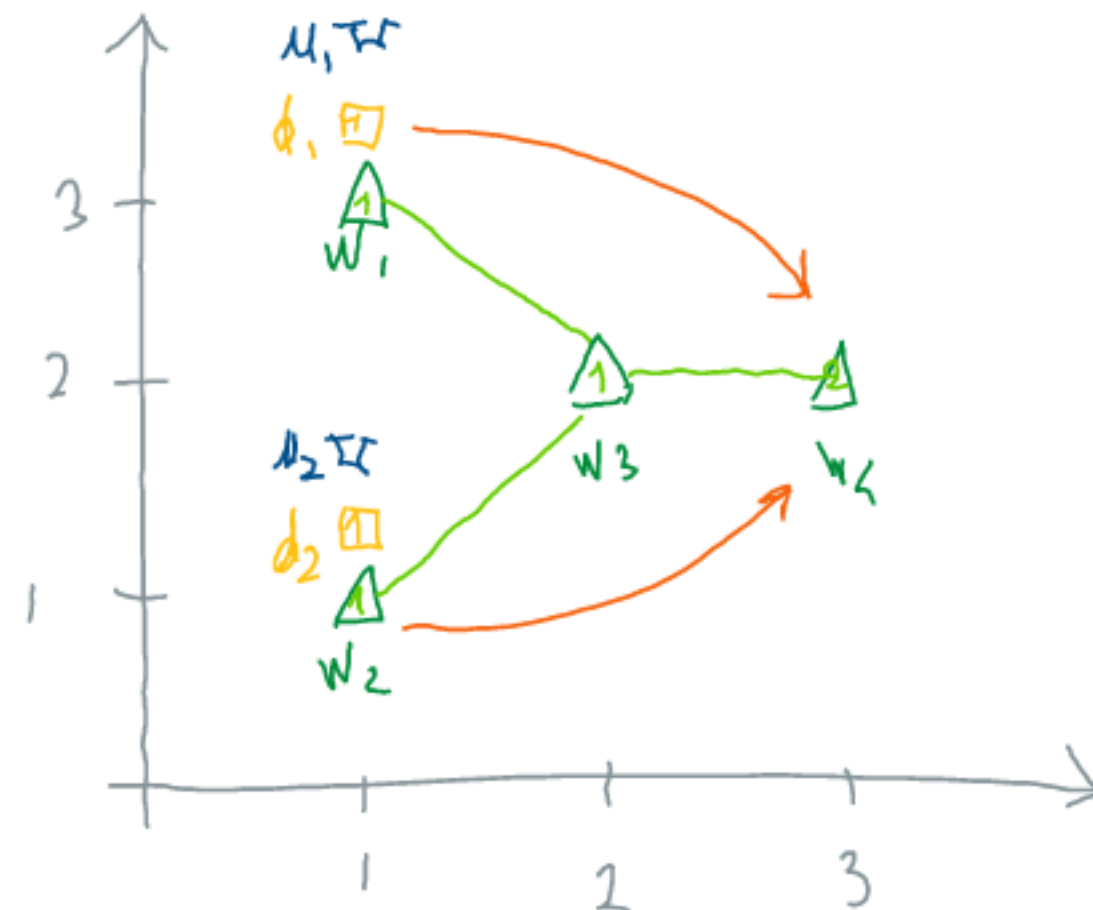
$$\phi(2) = 1$$~~

~~Introducing way-station maximum capacity constraint~~

Scenario 5

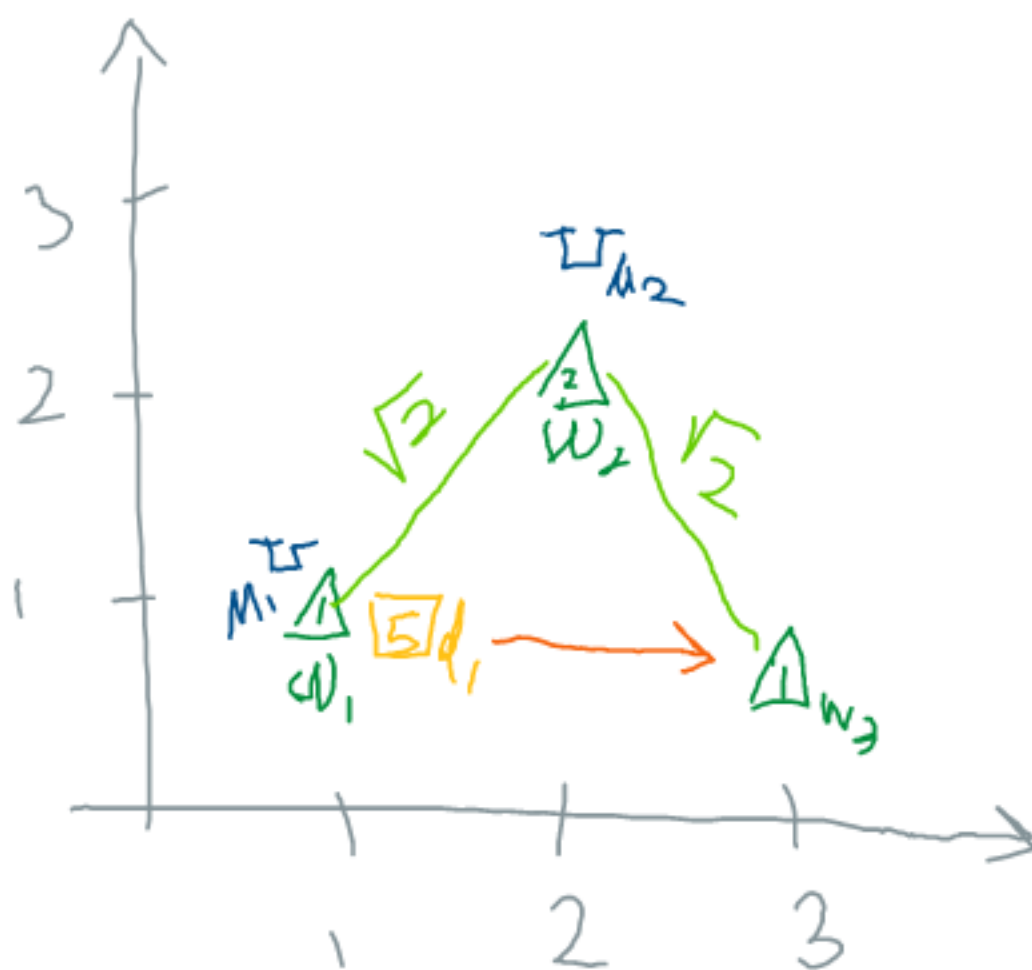


Scenario 6



Introducing battery model

Scenario 7

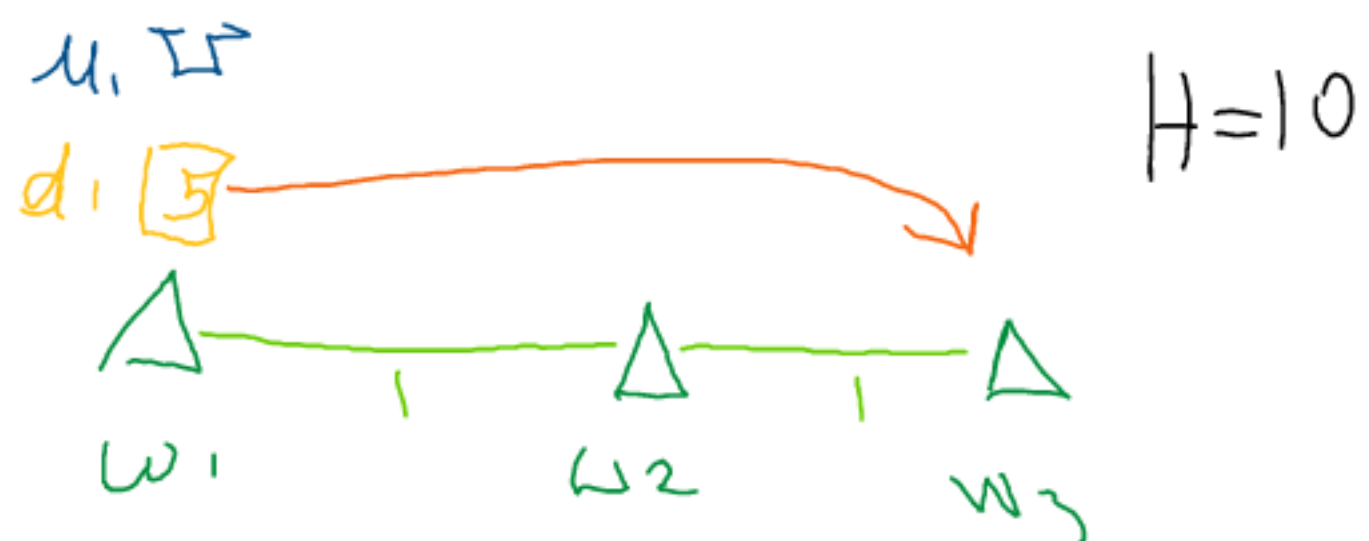


$$B_p(1,2) \approx 0.5 \Rightarrow SC(u_1, 2) \approx 0$$

$$B_w(5) = 0.5 \Rightarrow \downarrow$$

u_2 completes the delivery

Scenario 8



$$B_f(w_1, w_2) = B_f(w_2, w_3) = 0.3$$

$$B_w(5) = 0.5$$

$\Rightarrow u_1$ needs to recharge (8ts) its battery to complete the delivery