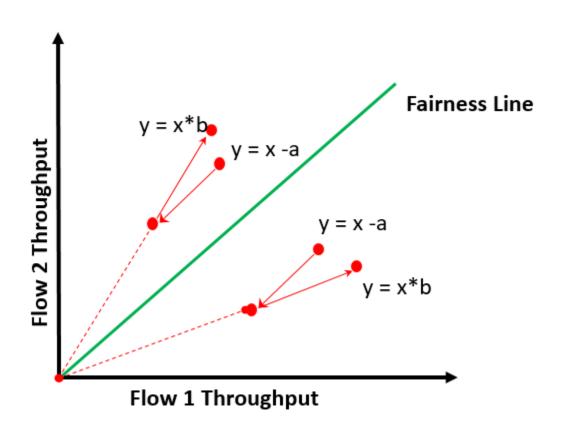
## Multiplicative Increase Additive Decrease

● Increase: x\*b<sub>1</sub>

Decrease: x - a<sub>D</sub>

- Does not converge to fairness
- This approach is not fair since at any point the points move away from the fairness line of any value of x and hence they will not converge on the fairness line making them biased towards one flow or the other.

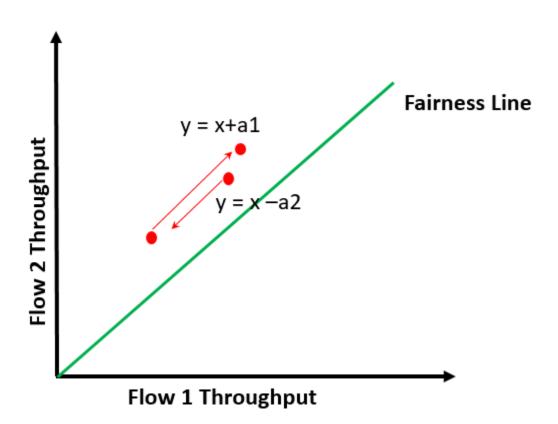


## Additive Increase Additive Decrease

Increase: x + a<sub>1</sub>

Decrease: x - a<sub>D</sub>

- Does not converge to fairness
- This approach is not fair as the lines always remain parallel to fairness line of y = mx and hence they will never converge on to the fairness line.



## Multiplicative Increase Multiplicative Decrease

Increase: x\*b1

Decrease: x\*b2

- Does not converge to fairness
- This approach shows that the multiplicative increase and multiplicative decrease always
  makes the flow move away from the fairness line making it biased towards the flow on
  whose side it starts.

