## 6/04/2023

## Mean Response Time and Slowdown

Copyright © Vittoria de Nitto Personè, 2021 https://creativecommons.org/licenses/by-nc-nd/4.0/

1

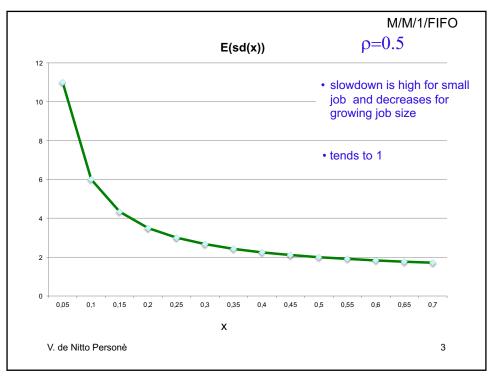
## job-size "conditioned" performance

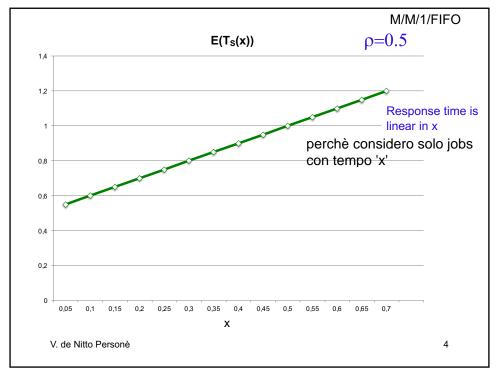
M/M/1/FIFO

$$E(T_S(x))^{FIFO} = x + \frac{\rho E(s)}{1 - \rho}$$
 Mean response time for job of size x

$$E(sd(x))^{FIFO} = 1 + \frac{\rho E(s)}{x(1-\rho)}$$
 Mean slowdown for job of size x

V. de Nitto Personè 2





5

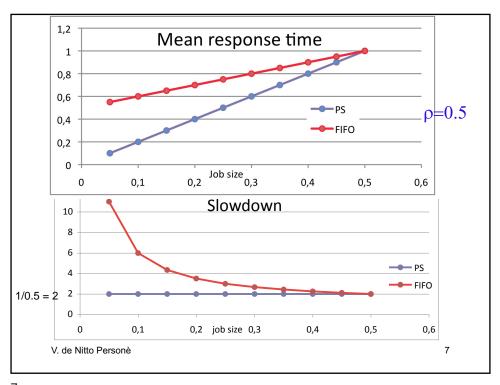
## job-size "conditioned" performance

M/G/1/PS per qualsiasi distribuzione

$$E(T_S(x))^{PS} = \frac{x}{1-\rho}$$
 Mean response time for job of size x

$$E(sd(x))^{PS} = \frac{1}{1-\rho}$$
 Mean slowdown medio for job of size x

V. de Nitto Personè 6



/

