

## JOST draft for calculation of speed reduction on HD vehicles when specified values are exceeded

$$V_{red} = V_{spec} * \underbrace{\left(\frac{X_{1cert}}{X_{1req}}\right)^2}_{a)} * \underbrace{\left(\frac{X_{2cert}}{X_{2req}}\right)^2}_{b)} * \underbrace{\left(\frac{1}{D_y}\right)}_{c)}$$

- Formula applies with only a) in cases where only one of the specified parameters (D, U, etc) is exceeded
- Formula applies with a) and b) in cases where 2 specific parameters are exceeded
- Formula applies only in cases where the exceedance of none of the single factors a) or b) is over 20% of its certified value ( $X_{req} / X_{spec} \geq 1,2$ )
- Factor  $D_y$  considers dynamic factors from the severity of operation and road conditions

$D_y = 1$  standard road

$D_y = 1,1$  if also partly offroad or similar in more than 3% of the applications