Porta faios t Loj Fricientes Portagola o de いのといのこうのり Portogolio de mín. VD8. (con z activos) f(w) := w<sup>2</sup>o, <sup>2</sup>+(1-w)<sup>3</sup>oz <sup>2</sup>+7w4-w)<sub>1z</sub> <u>a</u>(w-w²) Uw  $0 \le \omega \le 1$ 1-zw f'(w) = 0 $= \frac{1}{2\omega \sigma_1^2} = \frac{1}{2\omega \sigma_2^2} + \frac{1}{2(1-2\omega)\sigma_2} = \frac{1}{2\omega \sigma_1^2}$ 2 (w(o,2+0,2-20,2)-0,2+0,2+0  $w^* = \frac{\sigma_2^2 - \sigma_{12}}{\sigma_1^2 + \sigma_2^2 - 2\sigma_{12}}$ 

 $f''(w) = 2(\sigma_1^2 + \sigma_2^2 - 2\sigma_{12}) > 0$ 

For El criterio de la  $W^* = \frac{\sigma_z^2 - \sigma_{12}}{\sigma_{12} + \sigma_{12}^2 - 2\sigma_{12}}$ es el ponto de mínimo.