## How Can a Statistical Agency Predict Tightness?

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Statistical agency announces a tightness & Households take as as given - Household i will buy y'(x5) = 6(x5) [f(x5)ki+vi] -> Household i will visit o (x5) = yi (x5) \_, Realized hightness will be!  $x = \underbrace{z' \, \forall i \, (\pi^s)}_{z_i \, k_i} = \underbrace{\Sigma_i \, y_i \, (\pi^s)}_{q(\pi^s), \mathbb{R}}$  $m = 6(n^5)(f(n^5)le + N/p)$ q(n5) le ys(n5)  $\frac{\gamma}{z} = \frac{6(x^5)}{x^5} \left[ \frac{\beta(x^5)}{k} + \frac{\mu}{\rho} \right]$ must be 1 ( g(x5) WS (25) Statistical agency aims to make a correct frecas: They wim to announce x such 2 = 02

They an nounce or south that  $\gamma^{5(x^{5})} = 6(x^{5}) \left[ \gamma^{5} (x^{5}) + \mu/\rho \right]$ [1-6(x5)] y5(x5) = 6(x5) (p/p)  $M^{5}(x^{5}) = \frac{\sigma(x^{5})}{n-6(x^{5})} \frac{p}{p}$ nd ( 2 5) Statistical agency announces of such that y 5 ( 25 ) = y d ( 25) & (realized) - 215 (forecast) Since then  $y^{\delta}(x) = y^{\delta}(x)$