Assignments, Stoper bicoxametr, elp

Heterogeneity, Pareto Optimality

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School of Economics, UNSW

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Pricing state-contingent claims

• Using the atomic state prices, often called, *pricing kernel*:

$$p = q \cdot c,$$

Assignment of state prices of pricing kernel Help

• Using risk-neutral measure:

https://pediservalue-depends on a state, $\widetilde{E}(\cdot)$ - expectation taken with respect to risk-neutral measure using risk-neutral probabilities $\widetilde{\pi}$

• And that the powcoder $p = E(m_1c)$,

c - random variable, realised value depends on a state, m_1 - stochastic discount factor, $E(\cdot)$ - expectation taken with respect to physical

 $E(\cdot)$ - expectation taken with respect to physical probabilities measure using actual probabilities π

Heterogeneous agents: consumers' problem

• Each agent k maximises expected utility, U^k , given by

$$\begin{array}{c} U^k = u^k \left(c_0^k \right) + \quad \beta^k \sum_{s_1} \pi_{s_1} \cdot u^k \left(c_{s_1}^k \right) \\ \textbf{Assignment Project Exam} \quad \textbf{Help} \end{array}$$

 $\bullet\,$ subject to period-0 constraint

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• and a series of period-1 constraints for every possible state:

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• Market clearing (now makes more sense)

$$\sum_{k=1}^{K} c_0^k = \sum_{k=1}^{K} e_0^k; \qquad \sum_{k=1}^{K} c_{s_1}^k = \sum_{k=1}^{K} e_{s_1}^k, \, \forall s_1$$

Characterisation of the Equilibrium

• From the first order conditions the prices of the atomic

$$\underbrace{ \text{Assignment Project}_{q_{s_1} = \beta^k \pi_{s_1}} \text{Project}_{\underbrace{c_{s_1}^k}} \text{Exam Help}}_{q_{s_1} = \beta^k \pi_{s_1} \underbrace{u^{k'}(c_0^k)}_{u^{k'}(c_0^k)} = }$$

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for all k and $s_1 \in S$.

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$$\sum_{k=1}^{K} a_{s_1}^k = 0, \forall s_1 \in S.$$

Pareto optimality

Assignmential Projecti Euxitasmwhele p making at least one consumer worse off.

- Under the first welfare theorem (we do not prove it here)

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 equivalent to Pareto optimality.
- Some conditions: completeness existence of atomic (Arm Debrud see rities for all states whereas tear costs, no externalities (utilities are independent).