

"Pure" Abstract Theory (structure of a well defined world)

"Applied" Theory (build and analyze a model with a particular problem)

Overview of a "complete" model of an economy or an equilibrium model

- General Formulation
- Specific Formulation (competitive or Walrasian model of pure exchange, i.e., distribution of privately owned commodities through competitive markets)

General Formulation

Specific Formulation

• agents  $i \in \{1, \dots, m\}$   
 $m < +\infty$   
 (finite) / alternative:  
 infinite  $\begin{cases} i \in \mathbb{N} & \text{(countable)} \\ i \in [0, 1] & \text{(continuum)} \end{cases}$

• consumers/households  $i \in \{1, \dots, m\}$   
 $m < +\infty$

• actions  $x_i \in X_i \subseteq \mathbb{R}^{m_i}$   
 (or  $x_i \in S_i$  abstract space)  
 $X := \prod_{i=1}^m X_i$

• consumptions of goods  
 $x_i \in X_i = \mathbb{R}_{++}^L$   
 $(\mathbb{R}_+^L)$   
 ↑  
 consumption set  
 $L < +\infty$



