

A description of the Prato's economic system using a bi-ethnical social accounting matrix

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Liabilities of native and immigrant entrepreneurs in globalization: The case of Prato

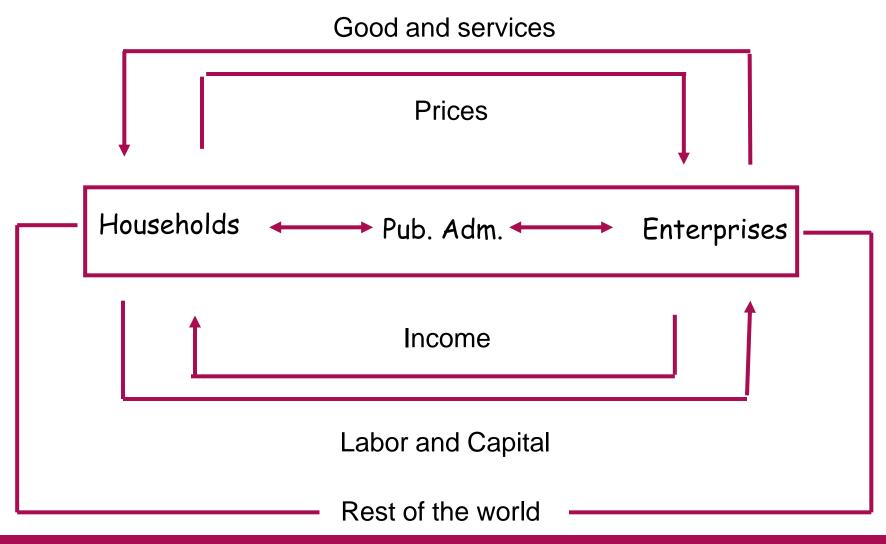
Monash University Prato Center Prato, 4 December 2015

This presentation will show the main structure of the papers and the power of a social accounting matrix as a descriptive tool of an economic system. Particularly I will show:

- 1. What are social accounting matrices (SAM)
- 2. Why they are important to describe economic systems
- 3. How are they built
- 4. How we consider the Chinese community into Prato SAM
- 5. What are Impact models based on SAM
- 6. Which is the contribute of Chinese community to the provincial economy measured by SAM-Based model
- 7. How SAM-based model can be used for cohesion policies evaluation

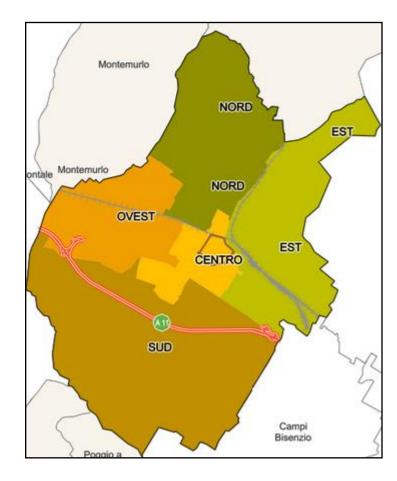
Relations between operators in an economic system

The economic accounts have the aim to estimate economic flows between operators of an economic system in one year.



Low resolution Map of Prato

High resolution Map of Prato centre





Low resolution description of provincial economic system

Value added for 7 sectors

Total	5711
Non market services	670
Market services	2993
Constructions	297
Energy and water	227
Manifactures	1320
Agricolture	25

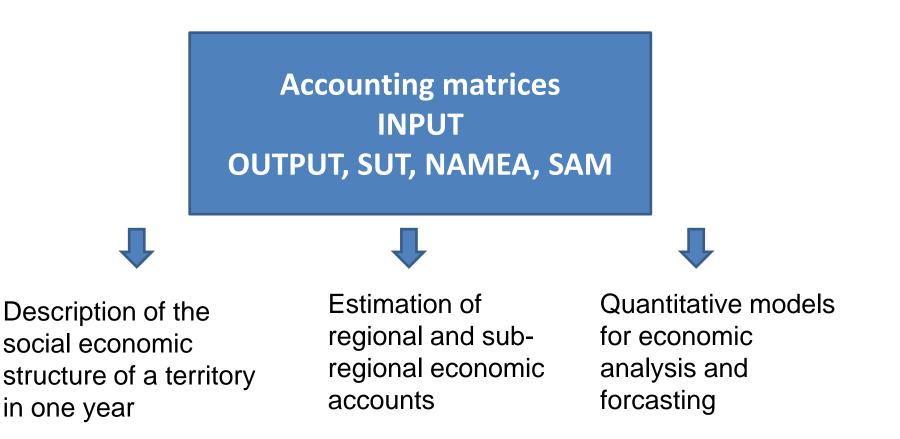
High resolution descritpion of provincial economic system

Social accounting matrices

Inter-sectoral exchanges	0.00	Domestic consumptions	0.00	0.00	Exports	0.00	Investments	0.00
Domestic VA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Incoming VA
0.00	0.00	0.00	0.00	Resident consumptions	0.00	Incoming tourism expenditure	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	Balance of sectors	0.00
0.00	Primary income	0.00	0.00	Inter-sectoral current transfers	0.00	0.00	0.00	Incoming current transfers
Imports	0.00	0.00	Balance of trade	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	Tourism balance	Outgoing tourism expenditure	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	Savings	0.00	0.00	Inter-sectoral capital transfers	Incoming capital transfers
0.00	Outgoing VA	0.00	Current account balance	Outgoing current transfers	0.00	0.00	Outgoing capital transfers	0.00

Economic accounts and Accounting matrices

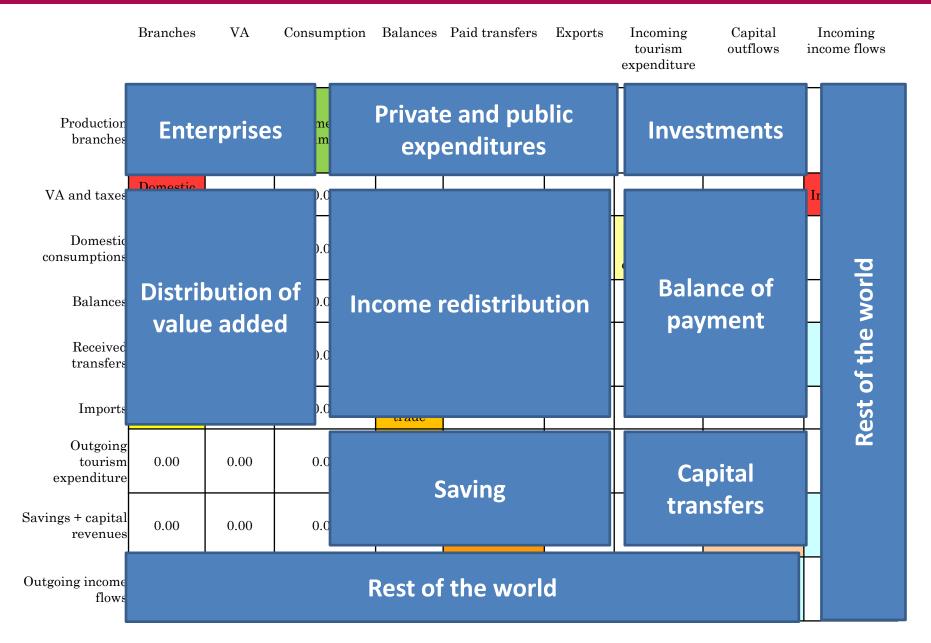
There are many types of accounting matrices, and they are useful for many targets



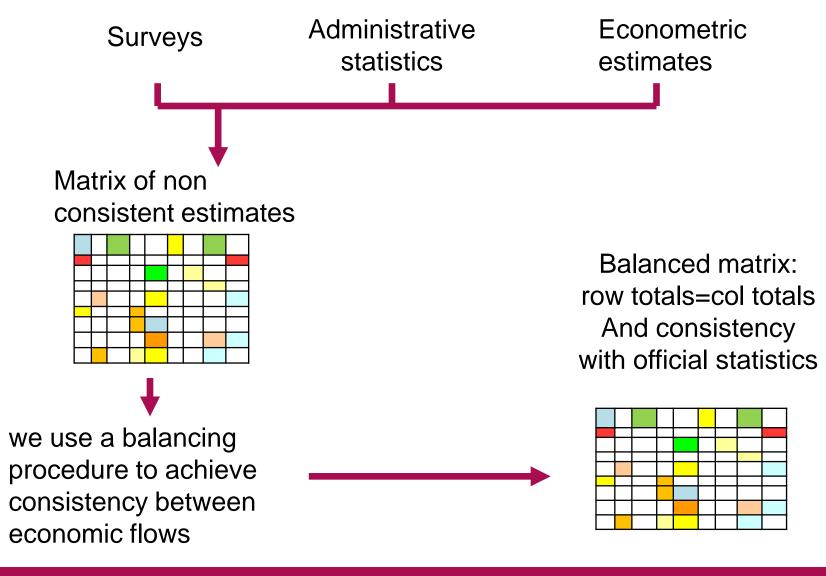
Bi-ethnical matrix

	Branches	VA	Consumption	Balances	Paid transfers	Exports	Incoming tourism expenditure	Capital outflows	Incoming income flows
Production branches	contorel	0.00	Domestic consumptions	0.00	0.00	Exports	0.00	Investments	0.00
VA and taxes	Domestic VA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Incoming VA
Domestic consumptions		0.00	0.00	0.00	Resident consumptions	0.00	Incoming tourism expenditure	0.00	0.00
Balances	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Balance of sectors	0.00
Received transfers	0.00	Primary income	0.00	0.00	Inter-sectoral current transfers	0.00	0.00	0.00	Incoming current transfers
Imports	Imports	0.00	0.00	Balance of trade	0.00	0.00	0.00	0.00	0.00
Outgoing tourism expenditure	0.00	0.00	0.00	Tourism balance	Outgoing tourism expenditure	0.00	0.00	0.00	0.00
Savings + capital revenues	0.00	0.00	0.00	0.00	Savings	0.00	0.00	Inter-sectoral capital transfers	Incoming capital transfers
Outgoing income flows		Outgoing VA	0.00	Current account balance	Outgoing current transfers	0.00	0.00	Outgoing capital transfers	0.00

Bi-ethnical matrix



The SAM Building procedure needs information from many sources



Extractions from bi-ethnical SAM

Value added subdivided in 28 sectors and ethnic groups of enterprises

Inter- sectoral exchanges	0.00	Domestic consumptions	0.00	0.00	Exports	0.00	Investments	0.00
Domestic VA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Incoming VA
0.00	0.00	0.00	0.00	Resident consumptions	0.00	Incoming tourism expenditure	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	Balance of sectors	0.00
0.00	Primary income	0.00	0.00	Inter-sectoral current transfers	0.00	0.00	0.00	Incoming current transfers
Imports	0.00	0.00	Balance of trade	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	Tourism balance	Outgoing tourism expenditure	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	Savings	0.00	0.00	Inter-sectoral capital transfers	Incoming capital transfers
0.00	Outgoing VA	0.00	Current account balance	Outgoing current transfers	0.00	0.00	Outgoing capital transfers	0.00

GDP and main

expenditure

aggregates

Disposable income and consumption by institutional sectors (Chinese and not Chinese)

Taxes and contributions by institutional sectors paid by (Chinese and not Chinese) households

Balance of payment between Prato province and the rest of the world

Final demand of goods and services

	Chinese community	Rest of economy
Household consumption	n 173	3.117
Public consumption	0	1.335
Investiments	125	1.475
Regional exports	936	2.802
Foreign exports	767	1.378

From final demand of good and services to production to income distribution.

Enterprises production

c	Chinese community	Rest of economy	
Enterprises(u)	4.850	24.547	
Units of labour(u)	17.600	80.700	-
Production	2.132	10.433	
Value added	669	5.042	

Income distribution

	hinese hmunity	Rest of economy
Primary income	422	4.362
Direct texes and contribution	s 111	1.970
Disposable income	184	3.250

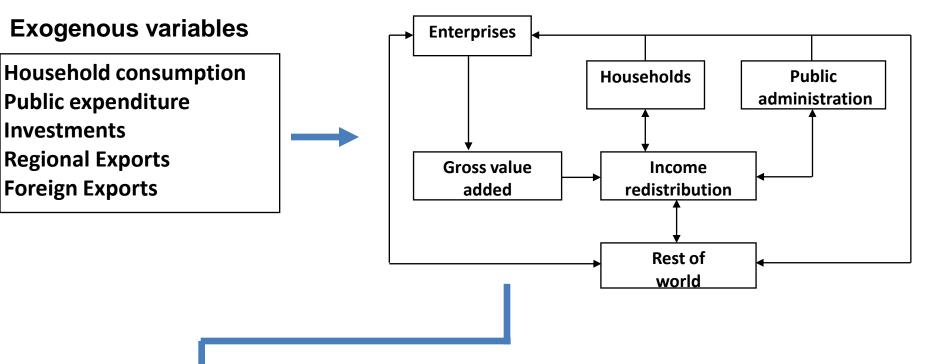
Soruces: ProvincialSAM estimates

Contribute of Chinese community to the Prato economy

Share of Chinese community contribute to the total flows of the Provincial SAM:

Gdp and main aggregates Gross domestic product Private consumption Investments Exports	Totals 6,299 3,326 1,599 5900	Chinese contribute 11.2% 5.2% 7.8% 36.1%
Sectorial value added	Totals	Chinese contribute
Agricolture	25	0.0%
Textiles, apparel and leather industries	951	50.8%
Other manifactures	597	3.7%
Constructions	297	0.7%
Trade, transportations, accomoodation	1165	9.4%
Other services	2680	2.0%
Total value added	5711	11.7%
Source: SAM estimates		

SAM Based Model



Relations of bi-ethnic SAM Based model

Outcome variables

Units of labour Gdp and import Value added by sectors Taxes and contributes Disposable income

outcome subdivided by institutional sectors with households and enterprises divided by Chinese and not Chinese From the matrix to the impact model (demand driven)

The contribute rises thanks to the relations of chinese community and the rest of the economy

Direct contribute of value added from chinese enterprises + Indirect activation due to intermediate and final demand of the chinese community (Enterprises and Households)

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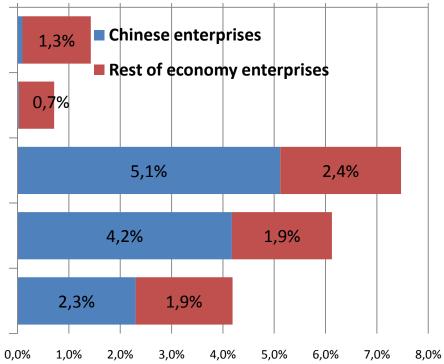
Overall direct, indirect and induced effect due

to the Chinese community to the provincial economy.

Direct and indirect contribute of the chinese community

Considering direct , indirect and induced relations the chinese community contributes to the 21.7% of the provincial GDP.

Chinese household consumption Investments of Chinese Enterprises and households Italian export of Chinese enterprises Foreign export of Chinese enterprises Rest of demand from Chinese community



Source: SAM Based Model

Evolutive scenarios based on the qualitative innovation and complete integration of chinese enterprises and households.

Technological and qualitative improvement of the entire fashion sector, entailing an increased quality (and price) of products.

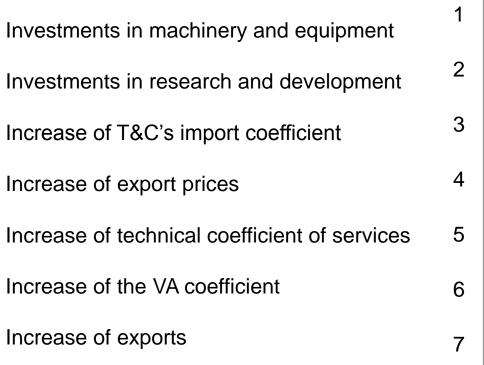
Reduction in the local production of semi-finished goods, resulting in an intensification of foreign import (especially from China).

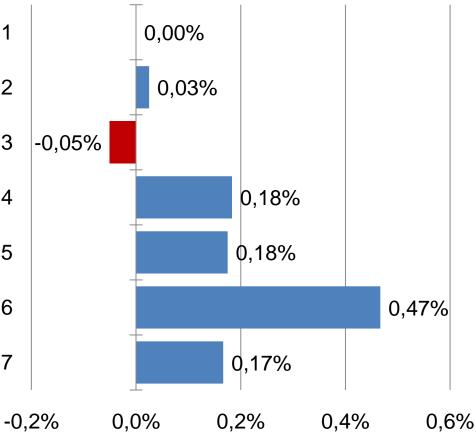
Growth in the demand for intermediate and sector-specific, ancillary services, like marketing and sales, research and development services.

Increase in the exports to the EU and USA

Upgrade of Chinese businesses to meet the quality and economic standards set by Italian firms.

% Variation of provincial GDP induced by 1% variation of scenario indicators for textile and clothes sector:





Sources: Estimates from SAM Based Model

Thanks