PhD Dissertation, Ingegneria Matematica e Simulazione "Scienze e Tecnologie per l'Ingegneria" School

Lorenzo Cioni^{1,2,3}

¹DIME (ex DIPTEM), University of Genova ²Department of Computer Science, University of Pisa ³Scuola Normale Superiore, Pisa

DIME, University of Genova, April 12 2013

- INTRODUCTION
 - The Thesis
 - Main topics (Thesis) & main themes (Presentation)

The main body

- - Motivations and aims
 - Background concepts
 - Public policies
- - Top-down & Bottom-up

 - Some models
 - The micro-macro conflict



- INTRODUCTION
 - The Thesis
 - Main topics (Thesis) & main themes (Presentation)

The main body

- THE PRELIMINARIES
 - Motivations and aims
 - Background concepts
 - Public policies
- - Top-down & Bottom-up

 - Some models
 - The micro-macro conflict



Introduction

- INTRODUCTION
 - The Thesis
 - Main topics (Thesis) & main themes (Presentation)
- THE PRELIMINARIES
 - Motivations and aims
 - Background concepts
 - Public policies
- THE MAIN BODY
 - Top-down & Bottom-up
 - The mesolevel and other complexities
 - Some models
 - The micro-macro conflict

- INTRODUCTION
 - The Thesis
 - Main topics (Thesis) & main themes (Presentation)

The main body

- THE PRELIMINARIES
 - Motivations and aims
 - Background concepts
 - Public policies
- THE MAIN BODY
 - Top-down & Bottom-up
 - The mesolevel and other complexities
 - Some models
 - The micro-macro conflict
- CONCLUSIONS



- Introduction
 - The Thesis
 - Main topics (Thesis) & main themes (Presentation)
- **2** THE PRELIMINARIES
 - Motivations and aims
 - Background concepts
 - Public policies
- 3 THE MAIN BODY
 - Top-down & Bottom-up
 - The mesolevel and other complexities
 - Some models
 - The micro-macro conflict
- 4 Conclusions





- ⇒ Title: "Top-down and bottom-up interactions between individual and collective behaviors"
- ⇒ Tutor: Professor Agostino Bruzzone
- ⇒ Central topics: interactions between formal norms and social norms, micro-macro conflict



- ⇒ Title: "Top-down and bottom-up interactions between individual and collective behaviors"
- ⇒ Tutor: Professor Agostino Bruzzone
- ⇒ Central topics: interactions between formal norms and social norms, micro-macro conflict



- ⇒ Title: "Top-down and bottom-up interactions between individual and collective behaviors"
- ⇒ Tutor: Professor Agostino Bruzzone
- ⇒ Central topics: interactions between formal norms and social norms, micro-macro conflict



- ⇒ Title: "Top-down and bottom-up interactions between individual and collective behaviors"
- ⇒ Tutor: Professor Agostino Bruzzone
- ⇒ Central topics: interactions between formal norms and social norms, micro-macro conflict



- ⇒ Title: "Top-down and bottom-up interactions between individual and collective behaviors"
- ⇒ Tutor: Professor Agostino Bruzzone
- ⇒ Central topics: interactions between formal norms and social norms, micro-macro conflict



- Introduction
 - The Thesis
 - Main topics (Thesis) & main themes (Presentation)
- **2** THE PRELIMINARIES
 - Motivations and aims
 - Background concepts
 - Public policies
- THE MAIN BODY
 - Top-down & Bottom-up
 - The mesolevel and other complexities
 - Some models
 - The micro-macro conflict
- 4 Conclusions



THE MAIN TOPICS OF THE THESIS

Conclusions

THE MAIN TOPICS OF THE THESIS





- defines and characterizes interactions among social planners and stakeholders;
- ⇒ from different perspectives;
- ⇒ at different levels of abstraction, granularity and complexity;
- ⇒ by using different (abstract) simulation models;
- ⇒ by using different (high level) mechanisms
- ⇒ within a unifying perspective (the micro-macro conflict).



- ⇒ defines and characterizes interactions among social planners and stakeholders;
- from different perspectives;
- ⇒ at different levels of abstraction, granularity and complexity;
- ⇒ by using different (abstract) simulation models;
- ⇒ by using different (high level) mechanisms
- ⇒ within a unifying perspective (the micro-macro conflict).



- ⇒ defines and characterizes interactions among social planners and stakeholders;
- ⇒ from different perspectives;
- ⇒ at different levels of abstraction, granularity and complexity;
- ⇒ by using different (abstract) simulation models;
- ⇒ by using different (high level) mechanisms
- ⇒ within a unifying perspective (the micro-macro conflict).



- ⇒ defines and characterizes interactions among social planners and stakeholders;
- ⇒ from different perspectives;
- ⇒ at different levels of abstraction, granularity and complexity;
- ⇒ by using different (abstract) simulation models;
- ⇒ by using different (high level) mechanisms
- ⇒ within a unifying perspective (the micro-macro conflict).



- ⇒ defines and characterizes interactions among social planners and stakeholders;
- ⇒ from different perspectives;
- ⇒ at different levels of abstraction, granularity and complexity;
- ⇒ by using different (abstract) simulation models;
- ⇒ by using different (high level) mechanisms:
- ⇒ within a unifying perspective (the micro-macro conflict).



- ⇒ defines and characterizes interactions among social planners and stakeholders;
- ⇒ from different perspectives;
- ⇒ at different levels of abstraction, granularity and complexity;
- ⇒ by using different (abstract) simulation models;
- ⇒ by using different (high level) mechanisms;
- ⇒ within a unifying perspective (the micro-macro conflict).

THE MAIN TOPICS OF THE THESIS



- defines and characterizes interactions among social planners and stakeholders;
- ⇒ from different perspectives;
- ⇒ at different levels of abstraction, granularity and complexity;
- ⇒ by using different (abstract) simulation models;
- ⇒ by using different (high level) mechanisms;
- ⇒ within a unifying perspective (the micro-macro conflict).

THE MAIN TOPICS OF THE THESIS



The main body

- ⇒ defines and characterizes interactions among social planners and stakeholders;
- ⇒ from different perspectives;
- ⇒ at different levels of abstraction, granularity and complexity;
- ⇒ by using different (abstract) simulation models;
- ⇒ by using different (high level) mechanisms;
- ⇒ within a unifying perspective (the micro-macro conflict).





THE MAIN THEMES OF THIS PRESENTATION





- ⇒ present the motivations and the aims of the thesis;
- ⇒ list some background concepts;
- ⇒ discuss of public policies, formal norms and social norms;
- ⇒ present the top-down approach
- ⇒ present the bottom-up approach
- ⇒ illustrate some simulation models
- ⇒ analyze the micro-macro conflict.



- ⇒ present the motivations and the aims of the thesis;
- ⇒ list some background concepts;
- ⇒ discuss of public policies, formal norms and social norms;
- ⇒ present the top-down approach
- ⇒ present the bottom-up approach
- ⇒ illustrate some simulation models
- ⇒ analyze the micro-macro conflict.



- ⇒ present the motivations and the aims of the thesis;
- ⇒ list some background concepts;
- ⇒ discuss of public policies, formal norms and social norms;
- ⇒ present the top-down approach
- ⇒ present the bottom-up approach;
- ⇒ illustrate some simulation models
- ⇒ analyze the micro-macro conflict.



- ⇒ present the motivations and the aims of the thesis;
- ⇒ list some background concepts;
- ⇒ discuss of public policies, formal norms and social norms;
- ⇒ present the top-down approach
- ⇒ present the bottom-up approach;
- ⇒ illustrate some simulation models:
- ⇒ analyze the micro-macro conflict.



- ⇒ present the motivations and the aims of the thesis;
- ⇒ list some background concepts;
- ⇒ discuss of public policies, formal norms and social norms;
- ⇒ present the top-down approach;
- ⇒ present the bottom-up approach;
- ⇒ illustrate some simulation models
- ⇒ analyze the micro-macro conflict.



- ⇒ present the motivations and the aims of the thesis;
- ⇒ list some background concepts;
- ⇒ discuss of public policies, formal norms and social norms;
- ⇒ present the top-down approach;
- ⇒ present the bottom-up approach;
- ⇒ illustrate some simulation models
- analyze the micro-macro conflict.

THE MAIN THEMES OF THIS PRESENTATION



The main body

In this presentation we:

Introduction

- ⇒ present the motivations and the aims of the thesis;
- ⇒ list some background concepts;
- ⇒ discuss of public policies, formal norms and social norms;
- ⇒ present the top-down approach;
- present the bottom-up approach;
- ⇒ illustrate some simulation models:



- ⇒ present the motivations and the aims of the thesis;
- ⇒ list some background concepts;
- ⇒ discuss of public policies, formal norms and social norms;
- ⇒ present the top-down approach;
- ⇒ present the bottom-up approach;
- ⇒ illustrate some simulation models;
- ⇒ analyze the micro-macro conflict.

THE MAIN THEMES OF THIS PRESENTATION



The main body

In this presentation we:

Introduction

- ⇒ present the motivations and the aims of the thesis;
- ⇒ list some background concepts;
- ⇒ discuss of public policies, formal norms and social norms;
- ⇒ present the top-down approach;
- present the bottom-up approach;
- ⇒ illustrate some simulation models:
- analyze the micro-macro conflict.



Introduction

- - The Thesis
 - Main topics (Thesis) & main themes (Presentation)

The main body

- THE PRELIMINARIES
 - Motivations and aims
 - Background concepts
 - Public policies
- - Top-down & Bottom-up

 - Some models
 - The micro-macro conflict





Introduction



The main body



The main body

- (1) to try to understand the interactions between individual and collective behaviors;



The main body

- (1) to try to understand the interactions between individual and collective behaviors:
- (2) to try to attune formal norms (social planners) with the social norms (stakeholders);

Introduction



The main body

- (1) to try to understand the interactions between individual and collective behaviors:
- (2) to try to attune formal norms (social planners) with the social norms (stakeholders);
- (3) to try to minimize the need of coercive and punitive tools.

Introduction



The main body

- (1) to try to understand the interactions between individual and collective behaviors:
- (2) to try to attune formal norms (social planners) with the social norms (stakeholders);
- (3) to try to minimize the need of coercive and punitive tools.







The main body



The main body

- (1) to characterize a descriptive approach;

Introduction



The main body

- (1) to characterize a descriptive approach;
- (2) to provide normative suggestions for a proper design of formal norms:

Introduction



The main body

- (1) to characterize a descriptive approach;
- (2) to provide normative suggestions for a proper design of formal norms:
- (3) to make clear the feedback relations between the various levels.

Introduction



The main body

- (1) to characterize a descriptive approach;
- (2) to provide normative suggestions for a proper design of formal norms:
- (3) to make clear the feedback relations between the various levels.



Introduction

Introduction

- - The Thesis
 - Main topics (Thesis) & main themes (Presentation)

The main body

- THE PRELIMINARIES
 - Motivations and aims
 - Background concepts
 - Public policies
- - Top-down & Bottom-up
 - The mesolevel and other complexities
 - Some models
 - The micro-macro conflict



The main body

THE APPROACHES



Introduction



The main body

Introduction



The main body

- ⇒ descriptive, as a cognitive tool;

Introduction



The main body

- ⇒ descriptive, as a cognitive tool;
- ⇒ normative, as a framing tool;



The main body

- ⇒ descriptive, as a cognitive tool;
- ⇒ normative, as a framing tool;
- ⇒ prescriptive, as a more binding framing tool.

Introduction



The main body

We adopted the following approaches:

- ⇒ descriptive, as a cognitive tool;
- ⇒ normative, as a framing tool;
- ⇒ prescriptive, as a more binding framing tool.

From the social planners (as designers of formal norms) point of view (more centralized, focused).



The main body

We adopted the following approaches:

- ⇒ descriptive, as a cognitive tool;
- ⇒ normative, as a framing tool;
- ⇒ prescriptive, as a more binding framing tool.

From the social planners (as designers of formal norms) point of view (more centralized, focused).

From the stakeholders (as organizers of social norms) perspective (more diffuse, distributed, fuzzy).



The main body

We adopted the following approaches:

- ⇒ descriptive, as a cognitive tool;
- ⇒ normative, as a framing tool;
- ⇒ prescriptive, as a more binding framing tool.

From the social planners (as designers of formal norms) point of view (more centralized, focused).

From the stakeholders (as organizers of social norms) perspective (more diffuse, distributed, fuzzy).





Introduction



The main body

Introduction



The main body

- ⇒ microlevel where we have interacting individuals as singletons;

Introduction



The main body

- ⇒ microlevel where we have interacting individuals as singletons;
- ⇒ mesolevel where we consider the presence of groups and coalitions:

Introduction



The main body

- ⇒ microlevel where we have interacting individuals as singletons;
- ⇒ mesolevel where we consider the presence of groups and coalitions:
- ⇒ macrolevel where we consider a society as a whole.

Introduction



The main body

We moved at the following levels:

- ⇒ microlevel where we have interacting individuals as singletons;
- ⇒ mesolevel where we consider the presence of groups and coalitions:
- ⇒ macrolevel where we consider a society as a whole.

Feedback links between the levels. Three feedback loops.

Introduction



The main body

We moved at the following levels:

- ⇒ microlevel where we have interacting individuals as singletons;
- ⇒ mesolevel where we consider the presence of groups and coalitions:
- ⇒ macrolevel where we consider a society as a whole.

Feedback links between the levels. Three feedback loops.

The **levels** are **abstraction tools** and do not belong to the fabric of the reality.



The main body

We moved at the following levels:

- ⇒ microlevel where we have interacting individuals as singletons;
- ⇒ mesolevel where we consider the presence of groups and coalitions:
- ⇒ macrolevel where we consider a society as a whole.

Feedback links between the levels. Three feedback loops. The **levels** are **abstraction tools** and do not belong to the fabric of the reality.







SIMULATIONS

Introduction



The main body

We used simulations

SIMULATIONS

Introduction



The main body

We used simulations

- ⇒ at the microlevel (extensively);

Introduction



The main body

We used simulations

- ⇒ at the microlevel (extensively);
- ⇒ at the mesolevel (only planned, indirectly);

Introduction



The main body

We used simulations

- ⇒ at the microlevel (extensively);
- ⇒ at the mesolevel (only planned, indirectly);
- ⇒ at the macrolevel (extensively).

Introduction



The main body

We used simulations

- ⇒ at the microlevel (extensively);
- ⇒ at the mesolevel (only planned, indirectly);
- ⇒ at the macrolevel (extensively).
- ⇒ "Correspondences" between models (indirectly between levels).

Introduction



The main body

We used simulations

- ⇒ at the microlevel (extensively);
- ⇒ at the mesolevel (only planned, indirectly);
- ⇒ at the macrolevel (extensively).
- ⇒ "Correspondences" between models (indirectly between levels).

Simulation as a **descriptive** or **cognitive** tool with normative and prescriptive hints.

Introduction



The main body

We used simulations

- ⇒ at the microlevel (extensively);
- ⇒ at the mesolevel (only planned, indirectly);
- ⇒ at the macrolevel (extensively).
- ⇒ "Correspondences" between models (indirectly between levels).

Simulation as a **descriptive** or **cognitive** tool with normative and prescriptive hints.



Introduction

Introduction

- - The Thesis
 - Main topics (Thesis) & main themes (Presentation)

- THE PRELIMINARIES
 - Motivations and aims
 - Background concepts
 - Public policies
- - Top-down & Bottom-up

 - Some models
 - The micro-macro conflict

The main body

THE PUBLIC POLICIES



Introduction



The main body

Introduction



The main body

- ⇒ is designed by the social planners;

Introduction



The main body

- ⇒ is designed by the social planners;
- ⇒ defines formal norms;

Introduction



The main body

- ⇒ is designed by the social planners;
- ⇒ defines formal norms;
- ⇒ may contrast with social norms;

Introduction



The main body

- ⇒ is designed by the social planners;
- ⇒ defines formal norms;
- ⇒ may contrast with social norms;
- ⇒ may give rise to reactive social norms.

Introduction



The main body

A public policy:

- ⇒ is designed by the social planners;
- ⇒ defines formal norms;
- ⇒ may contrast with social norms;
- ⇒ may give rise to reactive social norms.

Public policies may either succeed (accepted, no refusals nor boycotting) or fail (reacted, rejected, boycotted). Degrees of success/failure.



The main body

A public policy:

- ⇒ is designed by the social planners;
- ⇒ defines formal norms;
- ⇒ may contrast with social norms;
- ⇒ may give rise to reactive social norms.

Public policies may either succeed (accepted, no refusals nor boycotting) or fail (reacted, rejected, boycotted). Degrees of success/failure.



The main body

A SUCCESSFUL PUBLIC POLICY

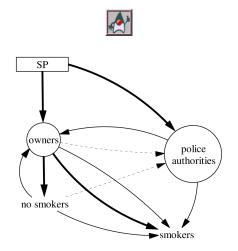
A SUCCESSFUL PUBLIC POLICY

Introduction



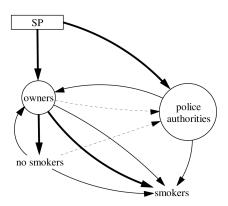
A SUCCESSFUL PUBLIC POLICY

Introduction



A SUCCESSFUL PUBLIC POLICY









The main body

AN UNSUCCESSFUL PUBLIC POLICY

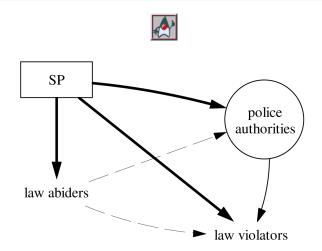
AN UNSUCCESSFUL PUBLIC POLICY

Introduction

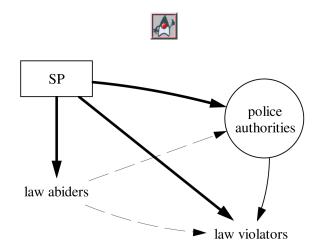


AN UNSUCCESSFUL PUBLIC POLICY

Introduction



AN UNSUCCESSFUL PUBLIC POLICY







- 1 Introduction
 - The Thesis
 - Main topics (Thesis) & main themes (Presentation)
- 2 THE PRELIMINARIES
 - Motivations and aims
 - Background concepts
 - Public policies
- 3 THE MAIN BODY
 - Top-down & Bottom-up
 - The mesolevel and other complexities
 - Some models
 - The micro-macro conflict
- 4 Conclusions





The main body



The main body

⇒ Analysis/description tool.



The main body

⇒ Analysis/description tool.

- ⇒ Planning activities of the social planners:



The main body

⇒ Analysis/description tool.

- ⇒ Planning activities of the social planners:
- end product formal norms within a normative context;



The main body

⇒ Analysis/description tool.

- ⇒ Planning activities of the social planners:
- → end product formal norms within a normative context;
- → it requires a descriptive preliminary step;



The main body

⇒ Analysis/description tool.

- ⇒ Planning activities of the social planners:
- → end product formal norms within a normative context;
- → it requires a descriptive preliminary step;
- → "global" normative/prescriptive/proscriptive aims;



The main body

⇒ Analysis/description tool.

- ⇒ Planning activities of the social planners:
- → end product formal norms within a normative context;
- → it requires a descriptive preliminary step;
- → "global" normative/prescriptive/proscriptive aims;
- → hints for success: flexibility, distributed control, economical/ethical incentives.

Introduction

TOP-DOWN DESIGN (FROM THE FEW TO THE MANY)



- ⇒ Analysis/description tool.
- ⇒ Planning activities of the social planners:
- → end product formal norms within a normative context;
- → it requires a descriptive preliminary step;
- → "global" normative/prescriptive/proscriptive aims;
- → hints for success: flexibility, distributed control, economical/ethical incentives.



BOTTOM-UP (FROM THE MANY TO THE FEW)



BOTTOM-UP (FROM THE MANY TO THE FEW)



The main body 00000000000000

⇒ Analysis/description tool.



- ⇒ Analysis/description tool.
- ⇒ Reactive/proactive activities of the stakeholders:
 - → social norms as reactions (reactivity) or as local initiatives (proactivity);
 - → "locally" normative/prescriptive purposes;
 - → based on simple actions, no global plan
 - → give rise to complex emergent behaviors.



- ⇒ Analysis/description tool.
- ⇒ Reactive/proactive activities of the stakeholders:
 - → social norms as reactions (reactivity) or as local initiatives (proactivity);
 - → "locally" normative/prescriptive purposes;
 - → based on simple actions, no global plan;
 - → give rise to complex emergent behaviors.



- ⇒ Analysis/description tool.
- ⇒ Reactive/proactive activities of the stakeholders:
 - → social norms as reactions (reactivity) or as local initiatives (proactivity);
 - → "locally" normative/prescriptive purposes;
 - → based on simple actions, no global plan;
 - → give rise to complex emergent behaviors.



- ⇒ Analysis/description tool.
- ⇒ Reactive/proactive activities of the stakeholders:
 - → social norms as reactions (reactivity) or as local initiatives (proactivity);
 - → "locally" normative/prescriptive purposes;
 - → based on simple actions, no global plan;
 - → give rise to complex emergent behaviors.



- ⇒ Analysis/description tool.
- ⇒ Reactive/proactive activities of the stakeholders:
 - → social norms as reactions (reactivity) or as local initiatives (proactivity);
 - → "locally" normative/prescriptive purposes;
 - → based on simple actions, no global plan;
 - → give rise to complex emergent behaviors.



The main body

⇒ Analysis/description tool.

- ⇒ Reactive/proactive activities of the stakeholders:
 - → social norms as reactions (reactivity) or as local initiatives (proactivity);
 - → "locally" normative/prescriptive purposes;
 - → based on simple actions, no global plan;
 - → give rise to complex emergent behaviors.



- 1 Introduction
 - The Thesis
 - Main topics (Thesis) & main themes (Presentation)
- 2 THE PRELIMINARIES
 - Motivations and aims
 - Background concepts
 - Public policies
- 3 THE MAIN BODY
 - Top-down & Bottom-up
 - The mesolevel and other complexities
 - Some models
 - The micro-macro conflict
- 4 Conclusions



Conclusions



Introduction



The main body

Introduction



The main body

- ⇒ abstraction and analysis tool, two-ways action;

THE PRESENCE OF THE MESOLEVEL



The main body

- ⇒ abstraction and analysis tool, two-ways action;
- ⇒ filter, mediation (Top-down);

Introduction



The main body

- ⇒ abstraction and analysis tool, two-ways action;
- ⇒ filter, mediation (Top-down);
- ⇒ organization, contrast (Bottom-up).

THE PRESENCE OF THE MESOLEVEL



The main body

- ⇒ abstraction and analysis tool, two-ways action;
- ⇒ filter, mediation (Top-down);
- ⇒ organization, contrast (Bottom-up).
- ⇒ It contains either groups (covering) or coalitions (partitioning).

THE PRESENCE OF THE MESOLEVEL



The main body

- ⇒ abstraction and analysis tool, two-ways action;
- ⇒ filter, mediation (Top-down);
- ⇒ organization, contrast (Bottom-up).
- ⇒ It contains either groups (covering) or coalitions (partitioning).
- \Rightarrow Individuals \Rightarrow roles \Rightarrow clones. Coalitions of clones as an unifying approach.

THE PRESENCE OF THE MESOLEVEL



The main body

- ⇒ abstraction and analysis tool, two-ways action;
- ⇒ filter, mediation (Top-down);
- ⇒ organization, contrast (Bottom-up).
- ⇒ It contains either groups (covering) or coalitions (partitioning).
- \Rightarrow Individuals \Rightarrow roles \Rightarrow clones. Coalitions of clones as an unifying approach.



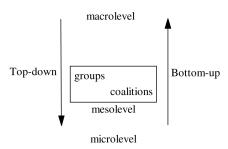
SUMMING UP

SUMMING UP



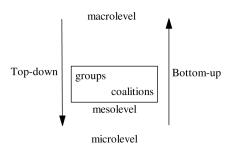
SUMMING UP





Conclusions











Introduction



The main body

Introduction



The main body

- → types of social planners;

Introduction



The main body

- → types of social planners;
- → hierarchies of social planners.

Introduction



The main body

- → types of social planners;
- → hierarchies of social planners.
- ⇒ Interactions among types, hierarchies and both.

Introduction



The main body

- → types of social planners;
- → hierarchies of social planners.
- ⇒ Interactions among types, hierarchies and both.
- ⇒ Interactions with the stakeholders "mediated" by/through the presence of types and hierarchies.

Introduction



The main body

- → types of social planners;
- → hierarchies of social planners.
- ⇒ Interactions among types, hierarchies and both.
- ⇒ Interactions with the stakeholders "mediated" by/through the presence of types and hierarchies.



- 1 Introduction
 - The Thesis
 - Main topics (Thesis) & main themes (Presentation)
- 2 THE PRELIMINARIES
 - Motivations and aims
 - Background concepts
 - Public policies
- 3 THE MAIN BODY
 - Top-down & Bottom-up
 - The mesolevel and other complexities
 - Some models
 - The micro-macro conflict
- 4 Conclusions

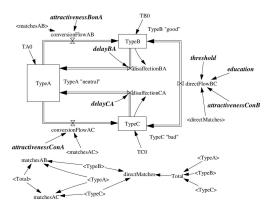


A MODEL AT THE MACROLEVEL



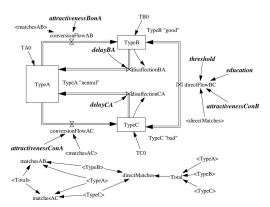
A MODEL AT THE MACROLEVEL





A MODEL AT THE MACROLEVEL









A CORRESPONDING MODEL AT THE MICROLEVEL (1)

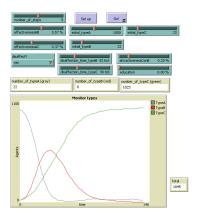


The main body

000000000000000

A CORRESPONDING MODEL AT THE MICROLEVEL (1)

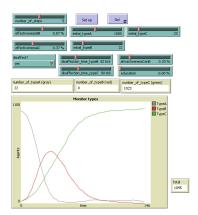




A CORRESPONDING MODEL AT THE MICROLEVEL (1)



The main body 000000000000000







A CORRESPONDING MODEL AT THE MICROLEVEL (2)

A CORRESPONDING MODEL AT THE MICROLEVEL (2)



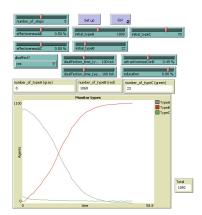
The main body

000000000000000

A CORRESPONDING MODEL AT THE MICROLEVEL (2)



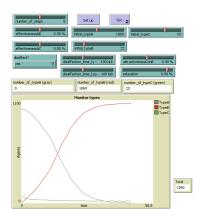
The main body 000000000000000



A CORRESPONDING MODEL AT THE MICROLEVEL (2)



The main body 0000000000000000







- 1 Introduction
 - The Thesis
 - Main topics (Thesis) & main themes (Presentation)
- 2 THE PRELIMINARIES
 - Motivations and aims
 - Background concepts
 - Public policies
- 3 THE MAIN BODY
 - Top-down & Bottom-up
 - The mesolevel and other complexities
 - Some models
 - The micro-macro conflict
- 4 Conclusions



Introduction



The main body

0000000000000000

Introduction



The main body

Introduction



The main body

- ⇒ formal norms as the outcome of a [global] planning process (social planners);

Introduction



The main body

- ⇒ formal norms as the outcome of a [global] planning process (social planners);
- ⇒ social norms as the outcome of local interactions (stakeholders);

Introduction



The main body

- ⇒ formal norms as the outcome of a [global] planning process (social planners);
- ⇒ social norms as the outcome of local interactions (stakeholders);
- ⇒ normative/prescriptive/proscriptive context (social planners);

Introduction



The main body

- ⇒ formal norms as the outcome of a [global] planning process (social planners);
- ⇒ social norms as the outcome of local interactions (stakeholders):
- ⇒ normative/prescriptive/proscriptive context (social planners);
- ⇒ emergent, self organized behaviors (stakeholders).

Introduction



The main body

- ⇒ formal norms as the outcome of a [global] planning process (social planners);
- social norms as the outcome of local interactions (stakeholders):
- ⇒ normative/prescriptive/proscriptive context (social planners);
- ⇒ emergent, self organized behaviors (stakeholders).



The main body

000000000000000

THE MICRO-MACRO CONFLICT (2)

Introduction



The main body

000000000000000



The main body

The micro-macro conflict features:



The main body

The micro-macro conflict features:

- ⇒ globally normative/prescriptive/proscriptive intentions (social planners);



The main body

The micro-macro conflict features:

- ⇒ globally normative/prescriptive/proscriptive intentions (social planners);
- ⇒ locally self-normative/self-prescriptive intentions (stakeholders);



The main body

The micro-macro conflict features:

- ⇒ globally normative/prescriptive/proscriptive intentions (social planners);
- ⇒ locally self-normative/self-prescriptive intentions (stakeholders);
- ⇒ clash of wills:



The main body

The micro-macro conflict features:

- ⇒ globally normative/prescriptive/proscriptive intentions (social planners);
- ⇒ locally self-normative/self-prescriptive intentions (stakeholders);
- ⇒ clash of wills:

- ⇒ clash of perspectives, values, interests;



The main body

The micro-macro conflict features:

- ⇒ globally normative/prescriptive/proscriptive intentions (social planners);
- ⇒ locally self-normative/self-prescriptive intentions (stakeholders);
- ⇒ clash of wills:

- ⇒ clash of perspectives, values, interests;
- ⇒ local versus global, individual versus collective.



The main body

The micro-macro conflict features:

- ⇒ globally normative/prescriptive/proscriptive intentions (social planners);
- ⇒ locally self-normative/self-prescriptive intentions (stakeholders);
- ⇒ clash of wills:

- ⇒ clash of perspectives, values, interests;
- ⇒ local versus global, individual versus collective.





The main body

000000000000000

THE MICRO-MACRO CONFLICT (3)

Introduction



The main body

000000000000000

Introduction



The main body

Introduction



The main body

- ⇒ We do not provide solutions, no general solution exists.

Introduction



The main body

- ⇒ We do not provide solutions, no general solution exists.
- ⇒ We tried to give some hints, soft suggestions.

Introduction



The main body

- ⇒ We do not provide solutions, no general solution exists.
- ⇒ We tried to give some hints, soft suggestions.
- ⇒ Hints: correctly identify the policy variables and exert the right educational pressures.

Introduction



The main body

- ⇒ We do not provide solutions, no general solution exists.
- ⇒ We tried to give some hints, soft suggestions.
- ⇒ Hints: correctly identify the policy variables and exert the right educational pressures.
- ⇒ Hints: ethics as a structuring tool of the interactions at all levels.

Introduction



The main body

- ⇒ We do not provide solutions, no general solution exists.
- ⇒ We tried to give some hints, soft suggestions.
- ⇒ Hints: correctly identify the policy variables and exert the right educational pressures.
- ⇒ Hints: ethics as a structuring tool of the interactions at all levels.
- ⇒ Hints: minimize coercive and punitive tools, use properly the right (material/immaterial) incentives.

Introduction



The main body

- ⇒ We do not provide solutions, no general solution exists.
- ⇒ We tried to give some hints, soft suggestions.
- ⇒ Hints: correctly identify the policy variables and exert the right educational pressures.
- ⇒ Hints: ethics as a structuring tool of the interactions at all levels.
- ⇒ Hints: minimize coercive and punitive tools, use properly the right (material/immaterial) incentives.



CONCLUSIONS: THE BRIGHT SIDE



CONCLUSIONS: THE BRIGHT SIDE



What this thesis is:

- ⇒ it represents an attempt to structure the micro-macro conflict (a central topic of sociological research);
- ⇒ it provides an hopefully new perspective in which to frame the micro-macro conflict;
- ⇒ it suggests the crucial reasons of the conflict
- ⇒ it gives some hints on how to face and possibly solve them

Conclusions



What this thesis is:

- ⇒ it represents an attempt to structure the micro-macro conflict (a central topic of sociological research);
- ⇒ it provides an hopefully new perspective in which to frame the micro-macro conflict;
- ⇒ it suggests the crucial reasons of the conflict
- ⇒ it gives some hints on how to face and possibly solve them



What this thesis is:

- ⇒ it represents an attempt to structure the micro-macro conflict (a central topic of sociological research);
- ⇒ it provides an hopefully new perspective in which to frame the micro-macro conflict;
- ⇒ it suggests the crucial reasons of the conflict
- ⇒ it gives some hints on how to face and possibly solve them

Conclusions



What this thesis is:

- ⇒ it represents an attempt to structure the micro-macro conflict (a central topic of sociological research);
- ⇒ it provides an hopefully new perspective in which to frame the micro-macro conflict:
- ⇒ it suggests the crucial reasons of the conflict;



What this thesis is:

- ⇒ it represents an attempt to structure the micro-macro conflict (a central topic of sociological research);
- ⇒ it provides an hopefully new perspective in which to frame the micro-macro conflict;
- ⇒ it suggests the crucial reasons of the conflict;
- ⇒ it gives some hints on how to face and possibly solve them.



What this thesis is:

- ⇒ it represents an attempt to structure the micro-macro conflict (a central topic of sociological research);
- ⇒ it provides an hopefully new perspective in which to frame the micro-macro conflict;
- ⇒ it suggests the crucial reasons of the conflict;
- ⇒ it gives some hints on how to face and possibly solve them.







- ⇒ no general solution to the micro-macro conflict (but nobody has ever proved either the existence or the unicity of a solution);
- ⇒ no general approach;
- ⇒ many open paths and dead ends;
- ⇒ many dangling references and false starts



- ⇒ no general solution to the micro-macro conflict (but nobody has ever proved either the existence or the unicity of a solution);
- ⇒ no general approach;
- ⇒ many open paths and dead ends;
- ⇒ many dangling references and false starts.



- ⇒ no general solution to the micro-macro conflict (but nobody has ever proved either the existence or the unicity of a solution);
- ⇒ no general approach;
- ⇒ many open paths and dead ends:
- many dangling references and false starts.



- ⇒ no general solution to the micro-macro conflict (but nobody has ever proved either the existence or the unicity of a solution);
- ⇒ no general approach;
- ⇒ many open paths and dead ends;
- ⇒ many dangling references and false starts



- ⇒ no general solution to the micro-macro conflict (but nobody has ever proved either the existence or the unicity of a solution);
- ⇒ no general approach;
- ⇒ many open paths and dead ends;
- ⇒ many dangling references and false starts.



- ⇒ no general solution to the micro-macro conflict (but nobody has ever proved either the existence or the unicity of a solution);
- ⇒ no general approach;
- ⇒ many open paths and dead ends;
- ⇒ many dangling references and false starts.



AT THE END WE WERE BACK TO SEE AGAIN THE STARS...

AT THE END WE WERE BACK TO SEE AGAIN THE STARS...

