

Introduction to Multi-Agent Systems

Delivery #2

Group 4

Angel Astudillo

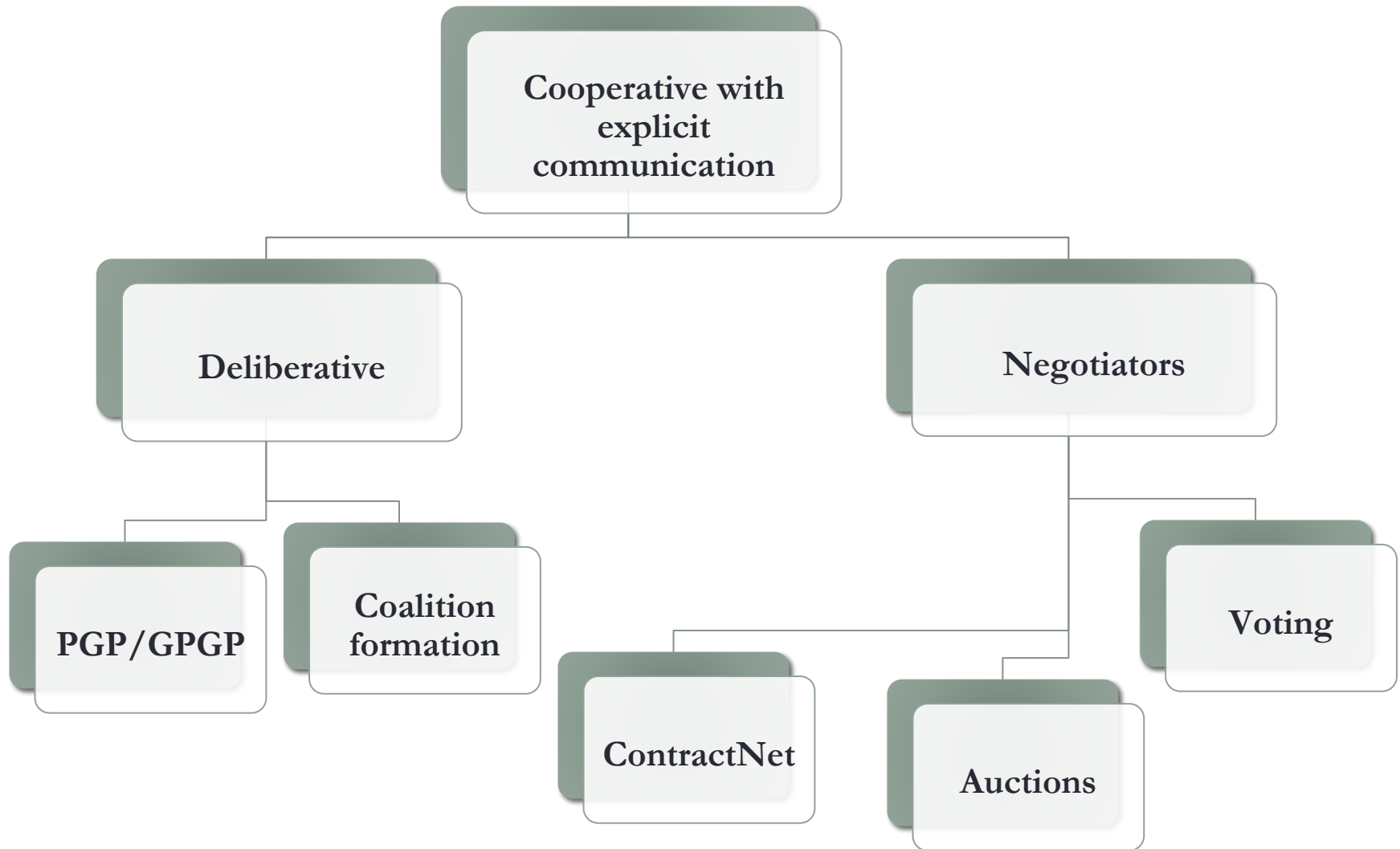
Daniel García

Pablo Reynoso

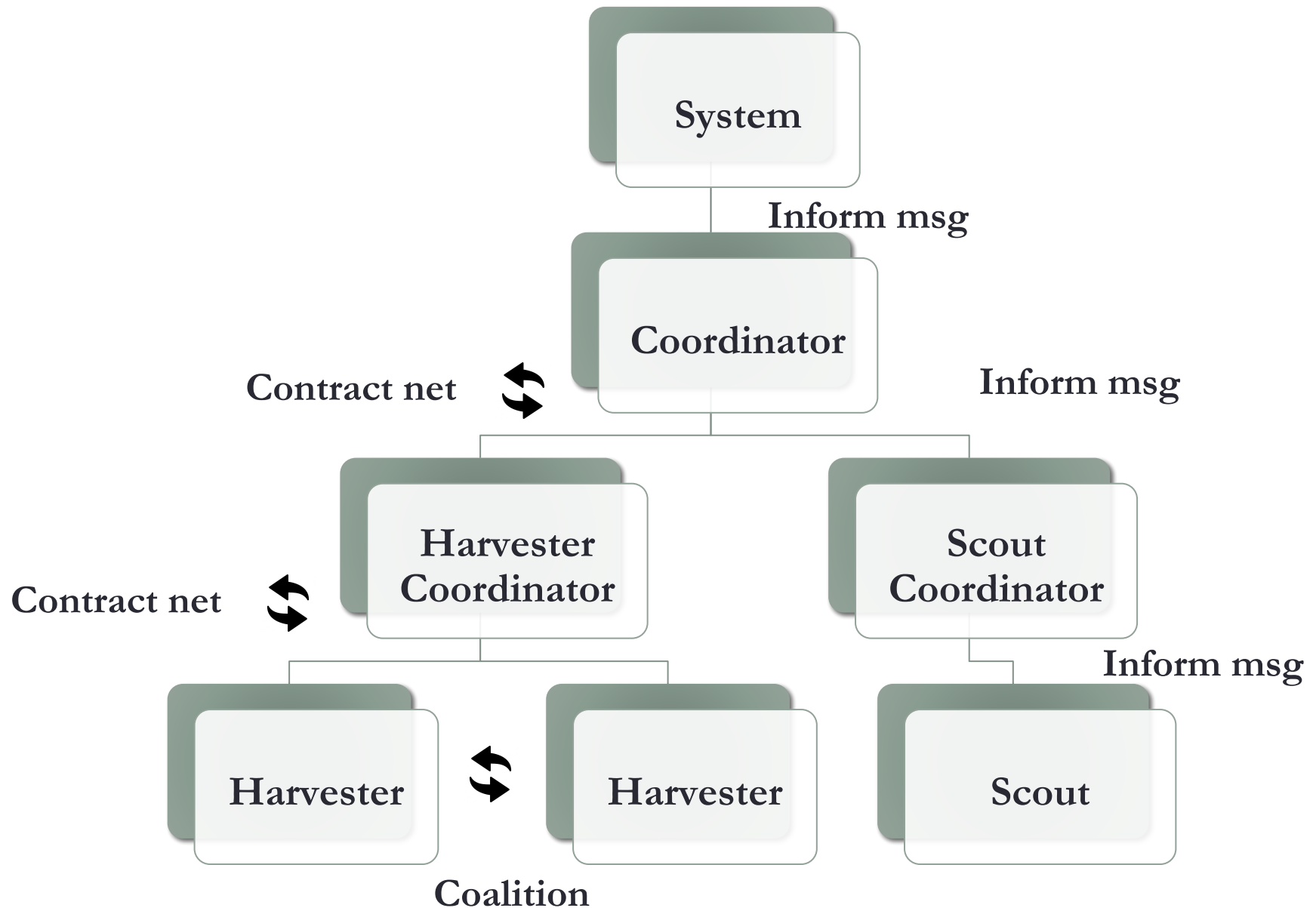
Emanuel Sánchez Aimar

Darío Pérez Principi

Cooperation Hierarchy



Communication between Agents



Implemented protocols

- Contract net
 - Harvester coordinator vs Harvester agent
 - Contracts by type of garbage
 - Awarding closest agent to the garbage

Implemented protocols

- Contract net
 - Coordinator Agent vs Harvester coordinator
 - Feedback: acknowledge when the garbaged has been collected

Implemented protocols

- Coalition
 - Harvester agents vs Harvester agents
 - After obtaining a contract, if task is too big
 - Create a coalition with nearby agents
 - Coalition ends after fulfilling the contract

More communication

- FIPA-ACL inform message
 - Simple mechanism

Communications:

- System agent vs Coordinator agent
- Coordinator agent vs Scout coordinator agent
- Scout Coordinator agent vs Scout agent

Questions ?