



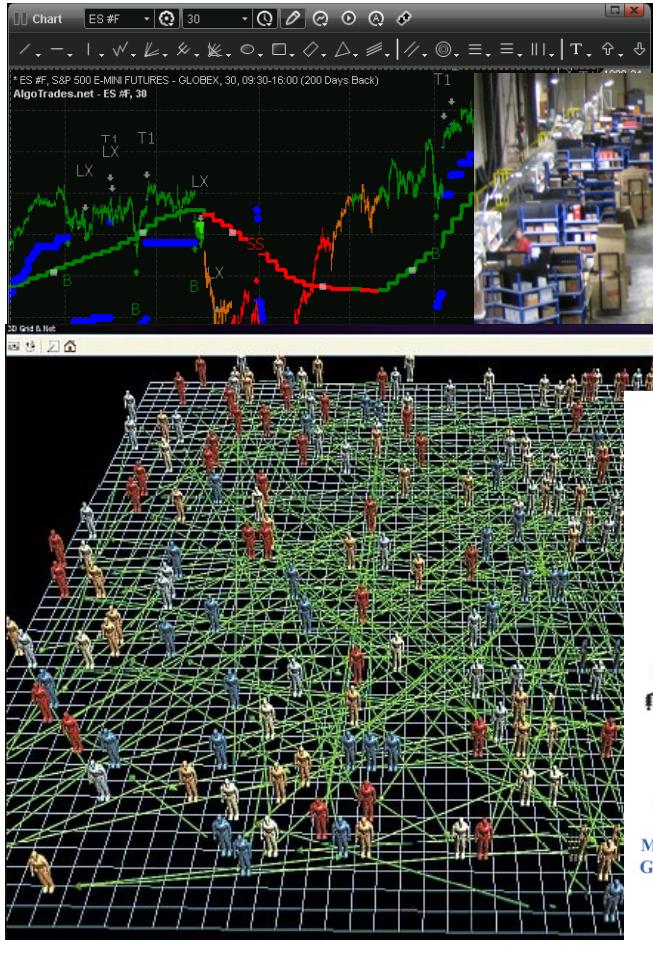
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# Autonomous Agents and Multiagent Systems

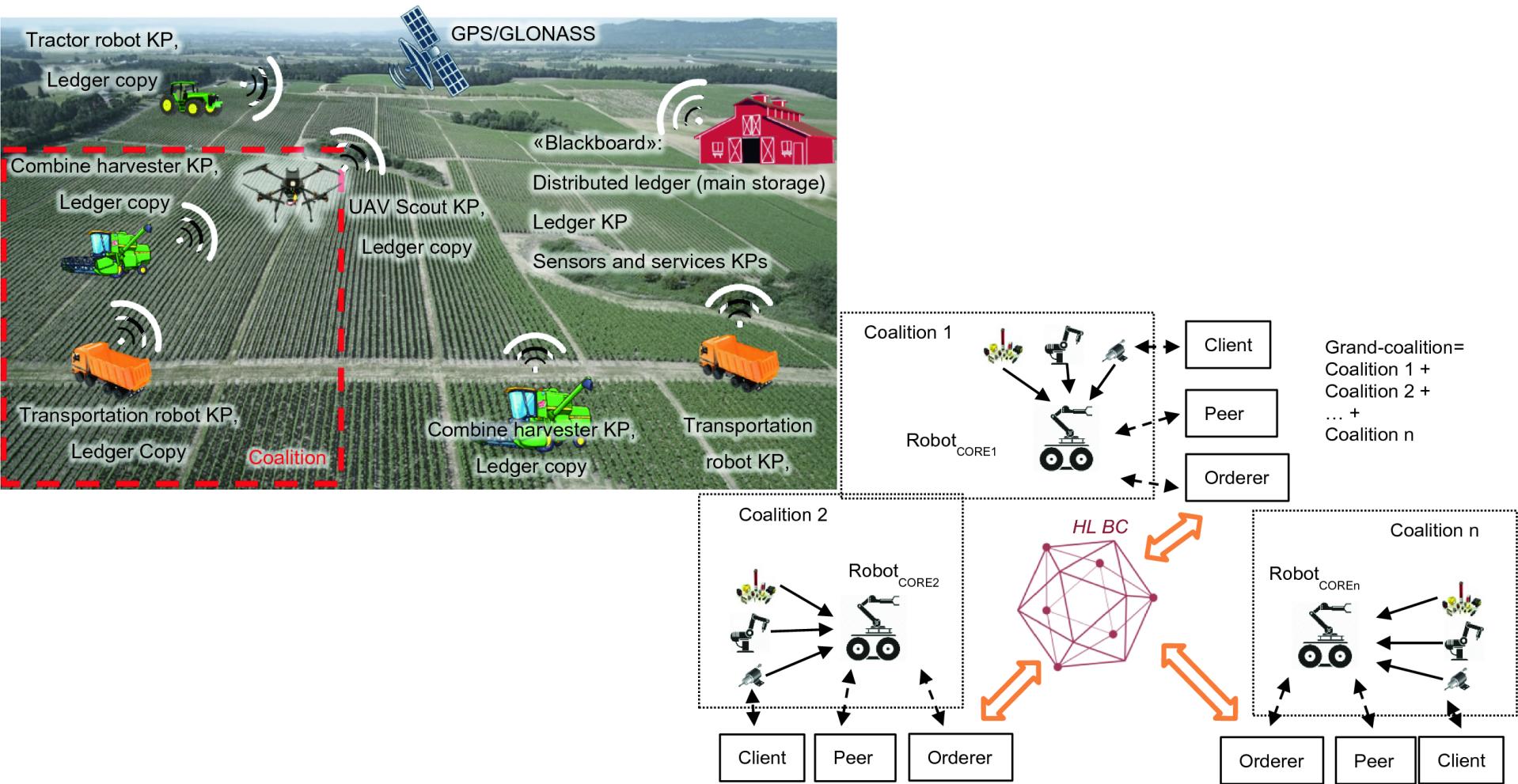
*Applications*

Francesco Amigoni

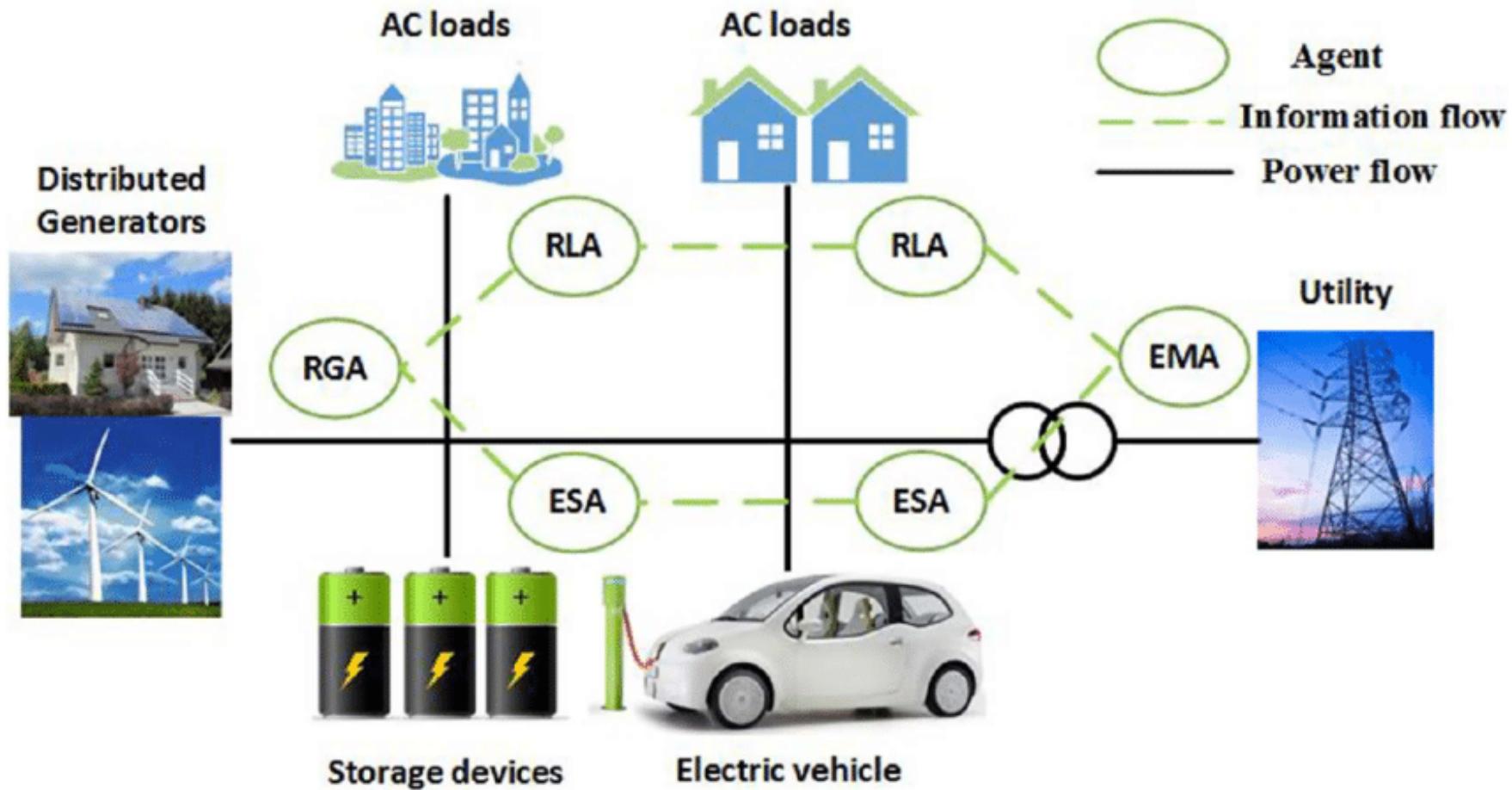
# Some real-world applications



# Coalition formation – Precision farming



# Distributed constraint optimization problems – Electrical energy management



# Multiagent planning – Automated warehouses

<https://www.youtube.com/watch?v=TUx-ljgB-5Q>



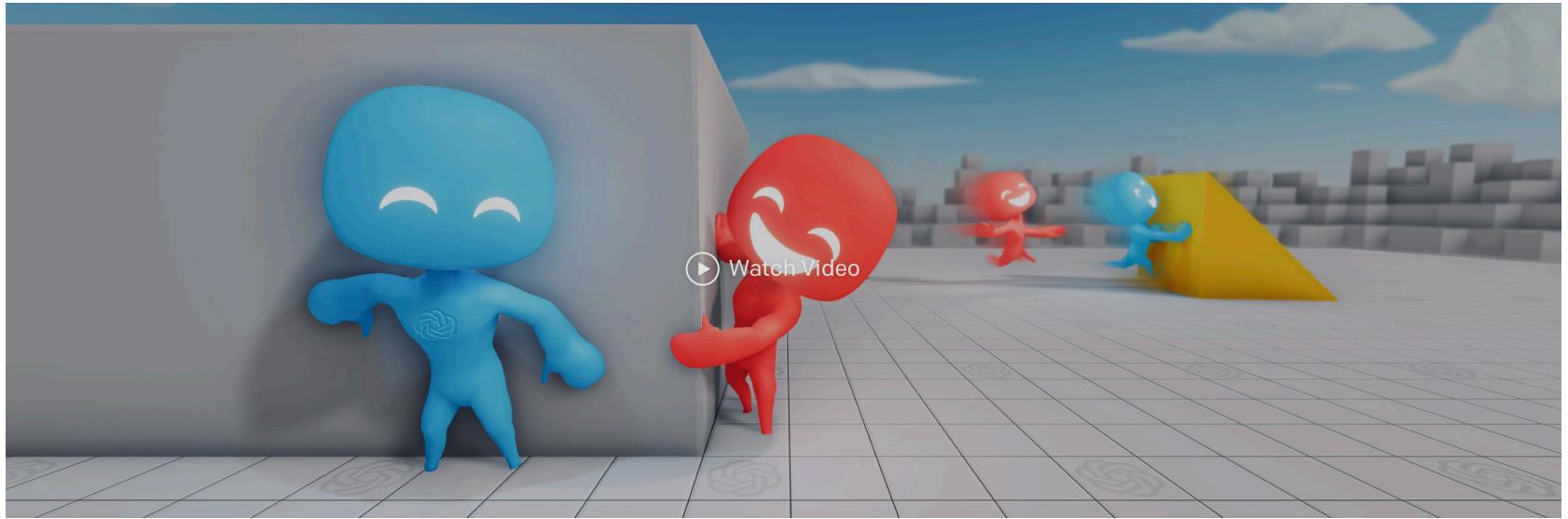
# Multiagent planning – Delivery

[https://www.youtube.com/watch?v=xx9\\_6OyjJrQ](https://www.youtube.com/watch?v=xx9_6OyjJrQ)



# Multiagent reinforcement learning – Hide and seek game

<https://openai.com/blog/emergent-tool-use/>



# Multiagent-based simulation – Contagion modelling

[https://www.youtube.com/watch?v=bM\\_QJOW2Vp0](https://www.youtube.com/watch?v=bM_QJOW2Vp0)

