

Research activities overview

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Computer Automated Multi-Paradigm Modelling (CAMPaM) workshop, 11–18 may 2018

➤ A little bit about me

PhD contributions:

- Multi-agent/agent-based systems formalization → DPDEMAS [1]
- Multi-component approach with PDEVS semantics → multiPDEVS [2]

Research interests

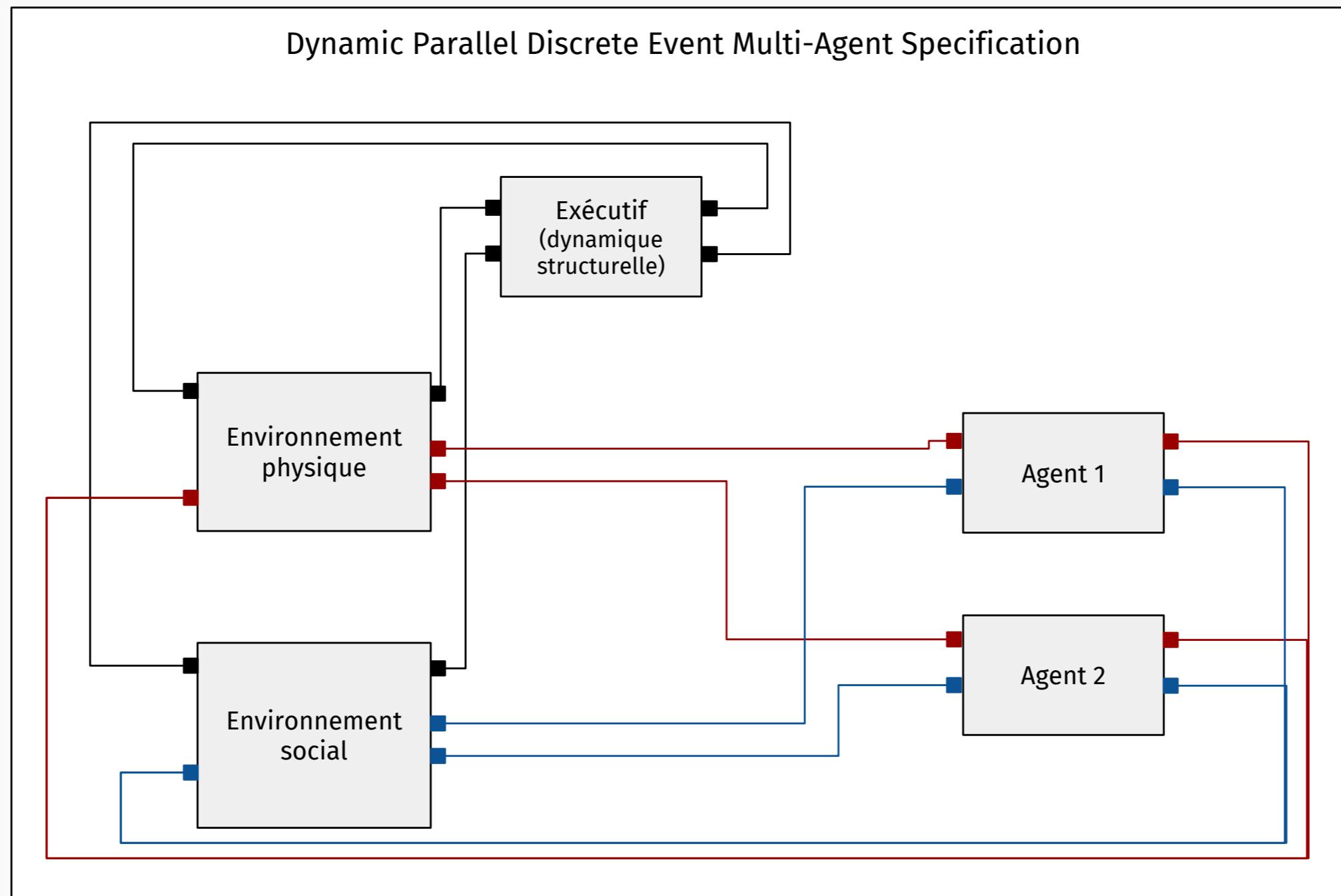
- Model reproducibility
- TMS & MAS
- Multi-formalism modelling
- Multi-level modelling
- DSLs
- MDE

[1] D. Foures, R. Franceschini, P.-A. Bisgambiglia, and B. P. Zeigler, "multiPDEVS: A Parallel Multicomponent System Specification Formalism," Complexity, vol. 2018, Article ID 3751917, 19 pages, 2018. <https://doi.org/10.1155/2018/3751917>.

[2] R. Franceschini, P.-A. Bisgambiglia, and P. Bisgambiglia, "Approche formelle pour la modélisation et la simulation de systèmes multi- agents". In : *Vingt-cinquièmes Journées Francophones sur les Systèmes Multi-Agents*. Caen, France, p. 193–202

➤ Dynamic Parallel Discrete Event Multi-Agent Specification (DPDEMAS)

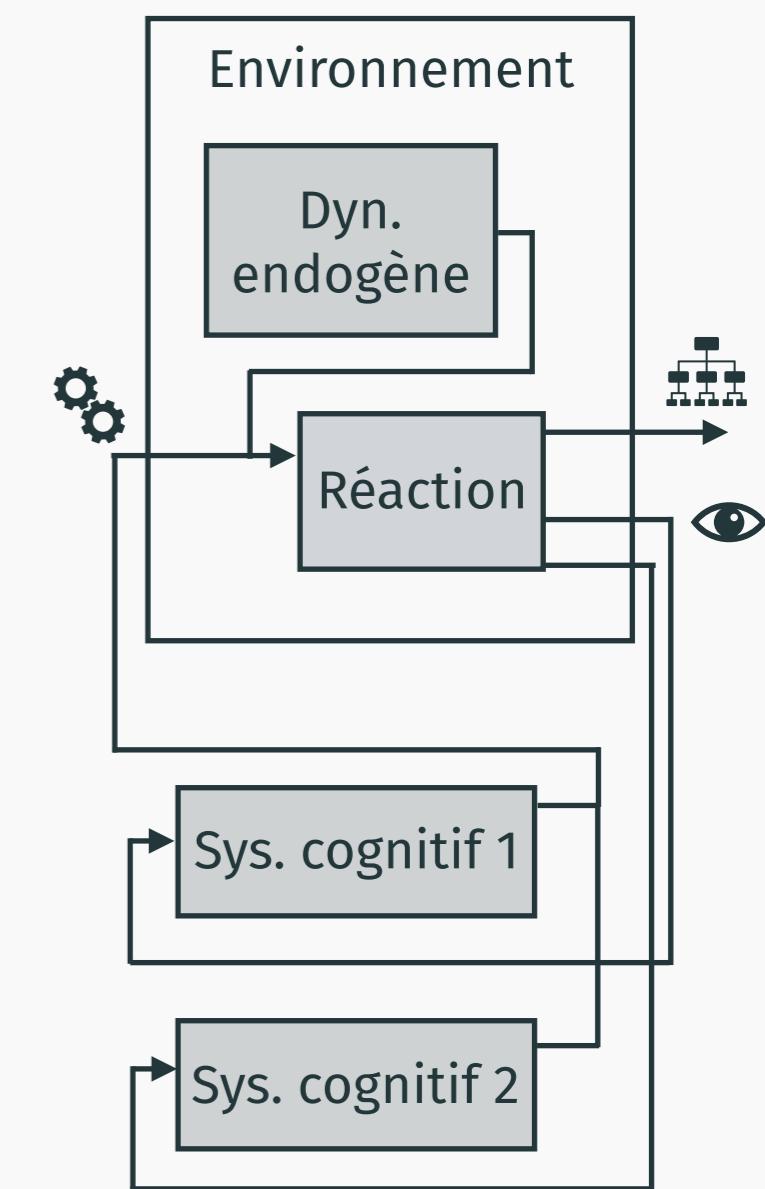
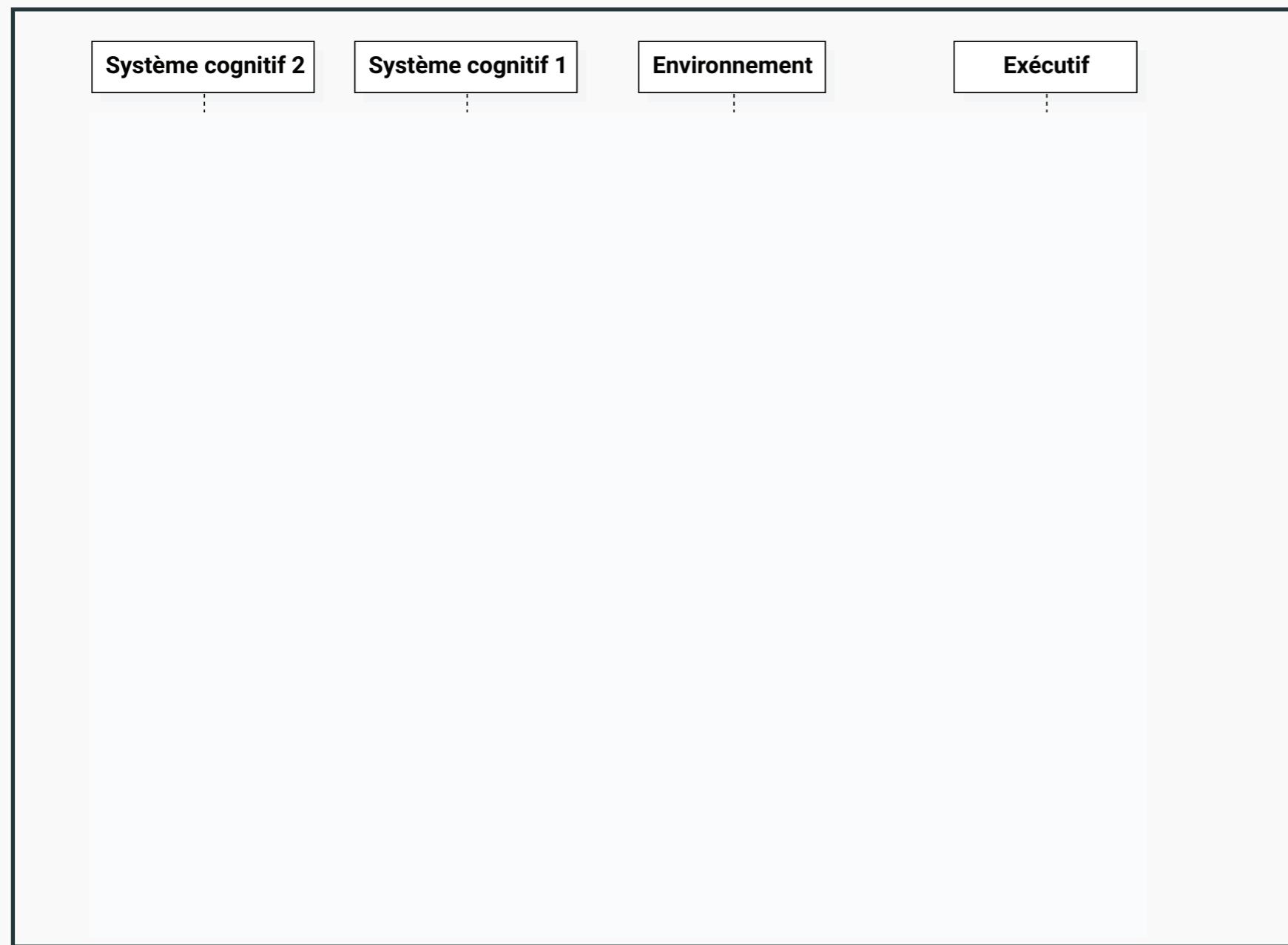
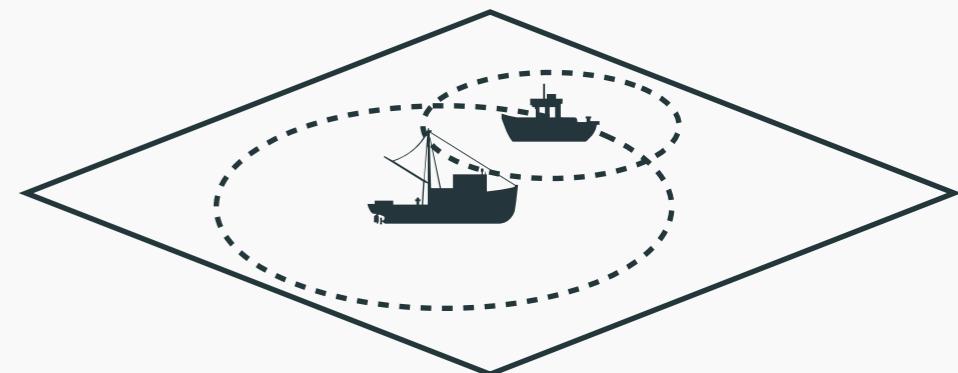
→ Agents formalization, structural overview



➤ Dynamic Parallel Discrete Event Multi-Agent Specification (DPDEMAS)

Agent formalization, high-level semantics overview

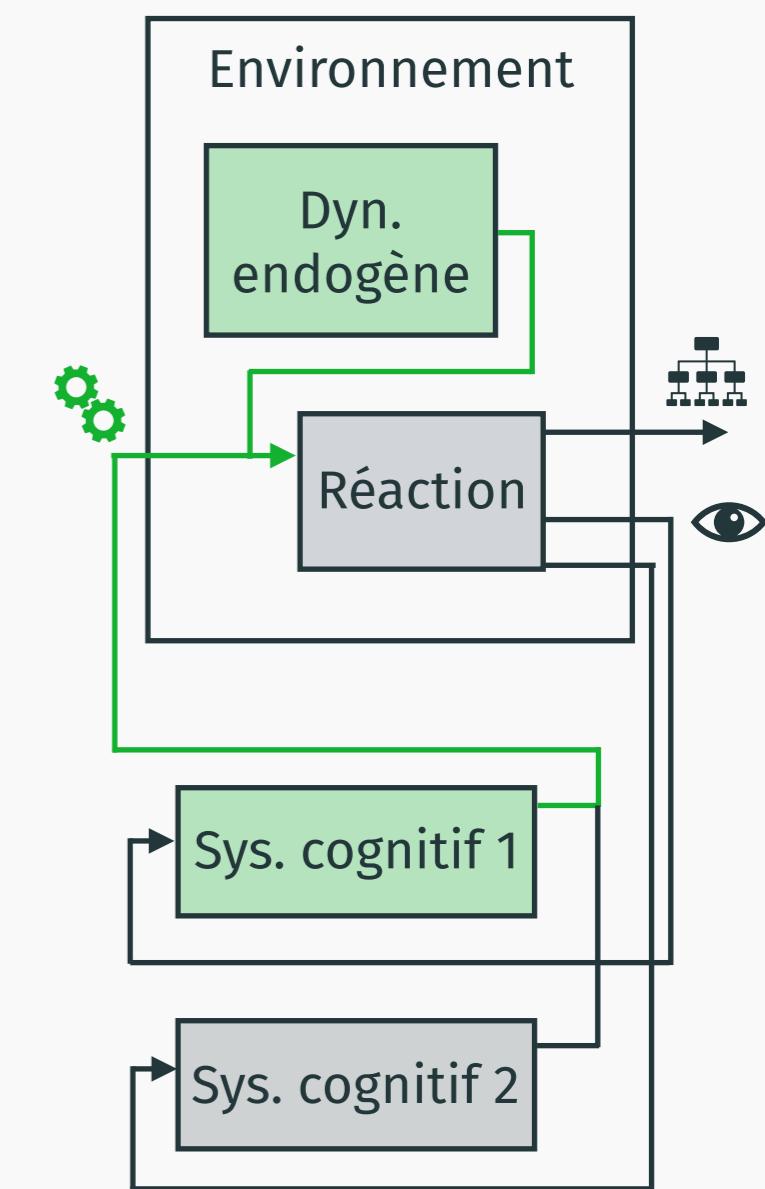
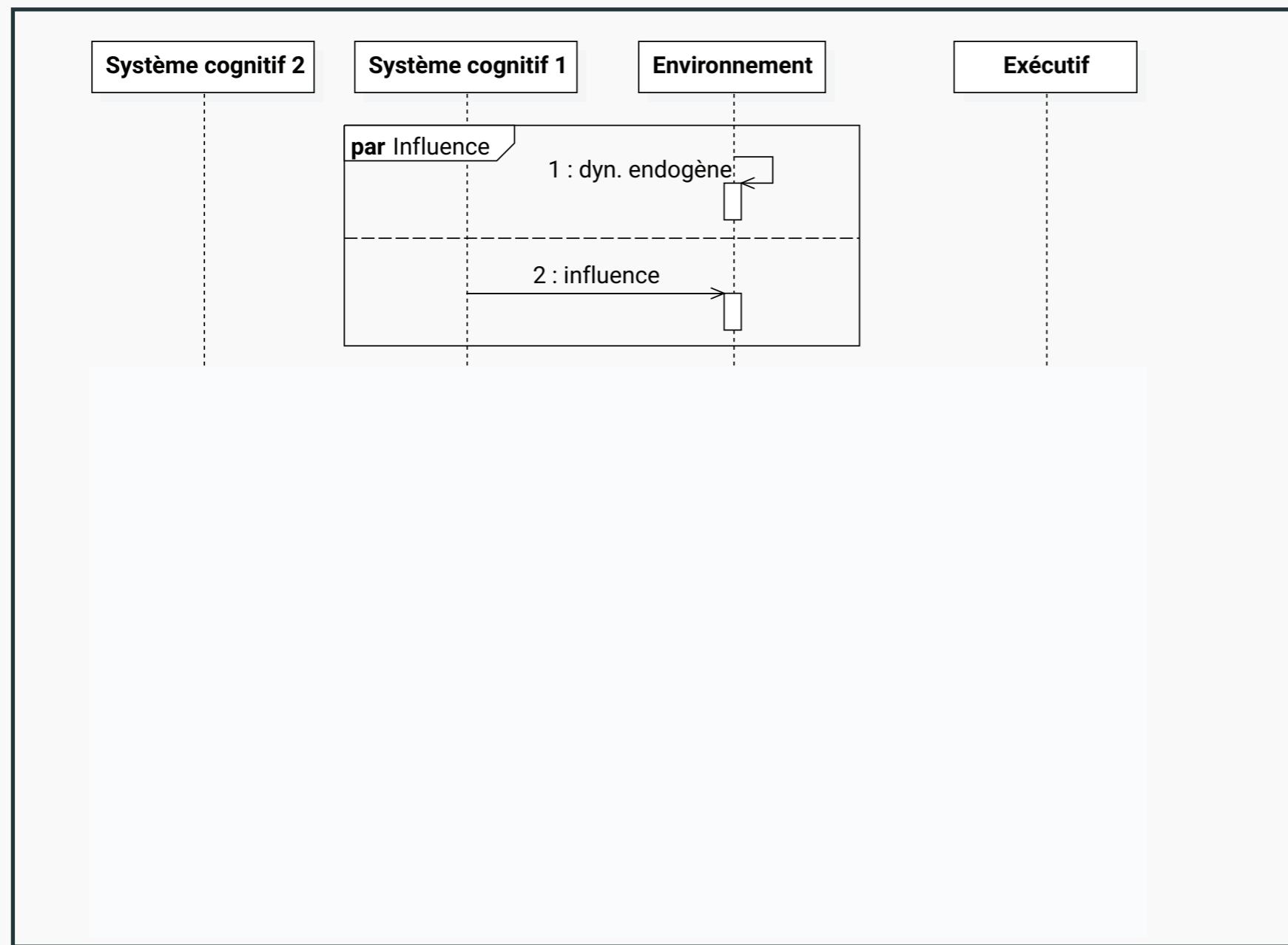
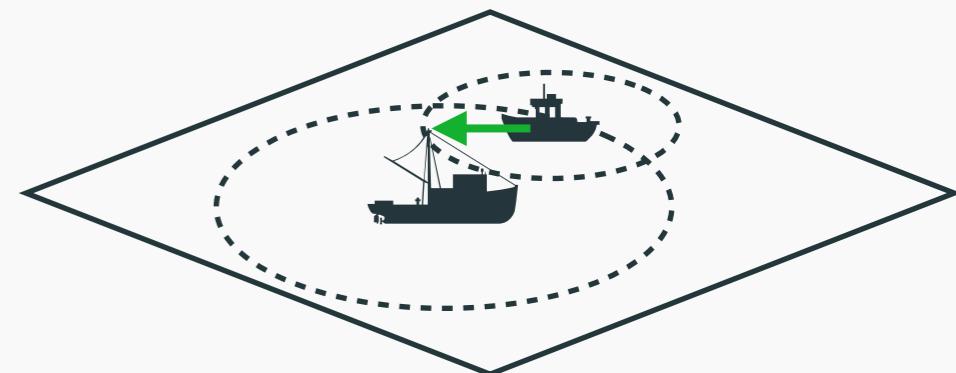
- 3 phases : Influence → Reaction → Perception



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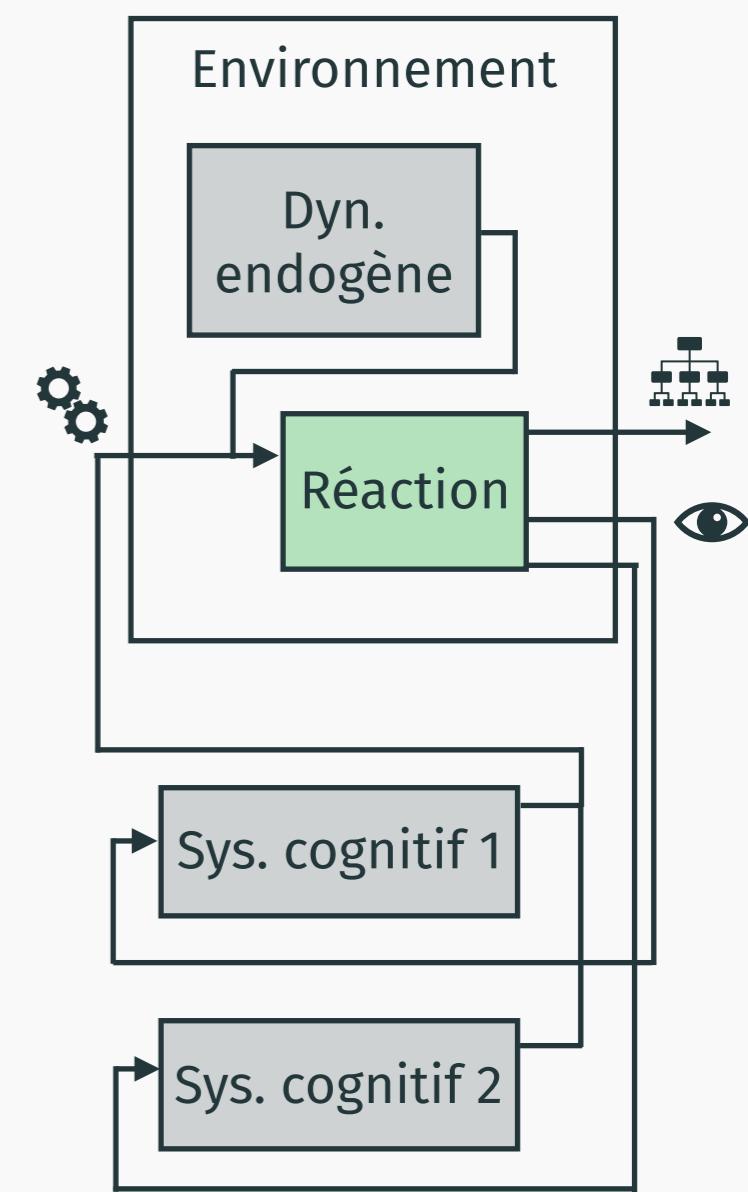
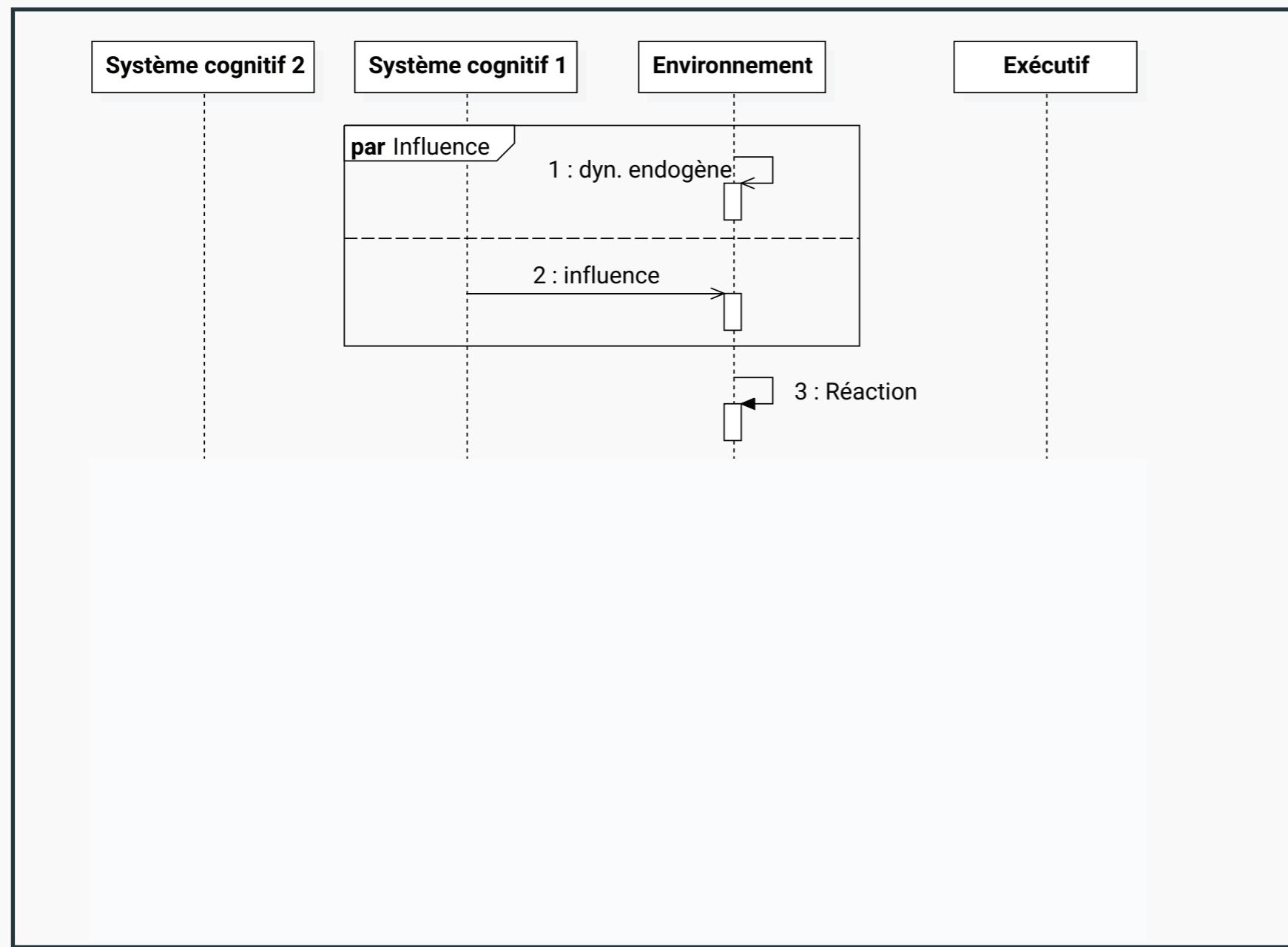
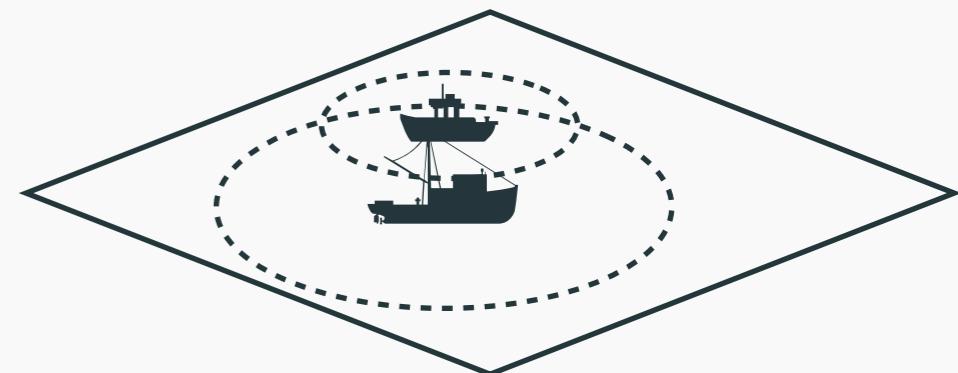
- 3 phases : **Influence** → Reaction → Perception



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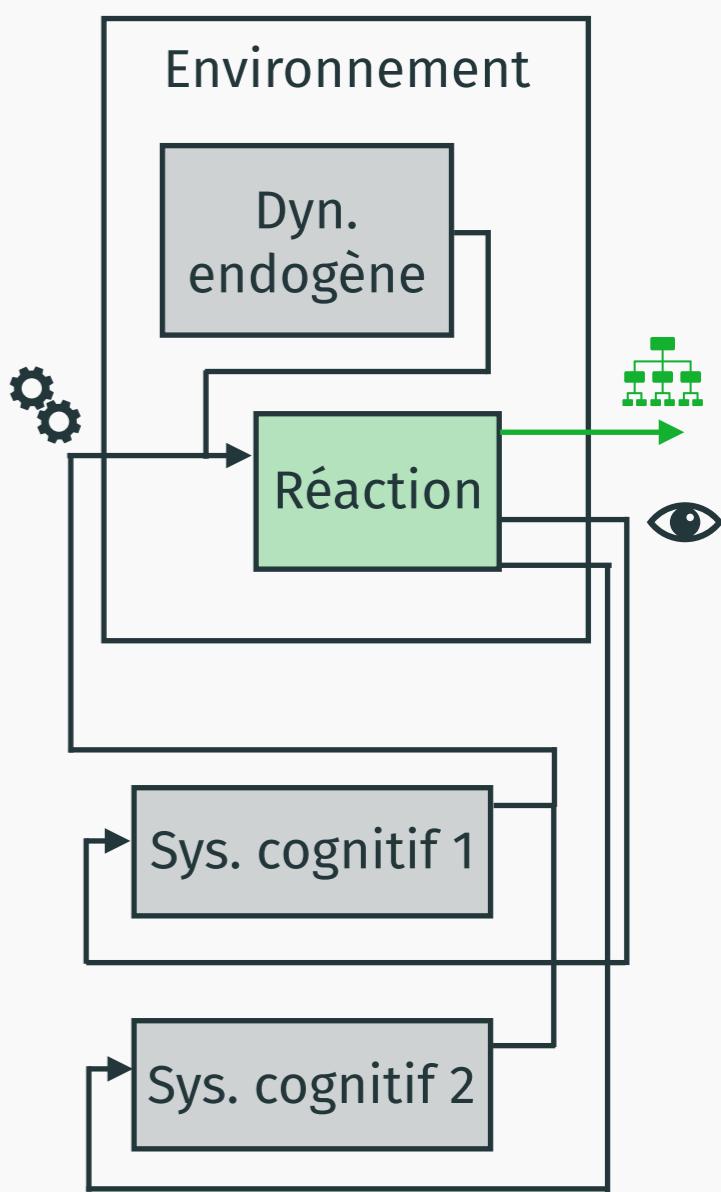
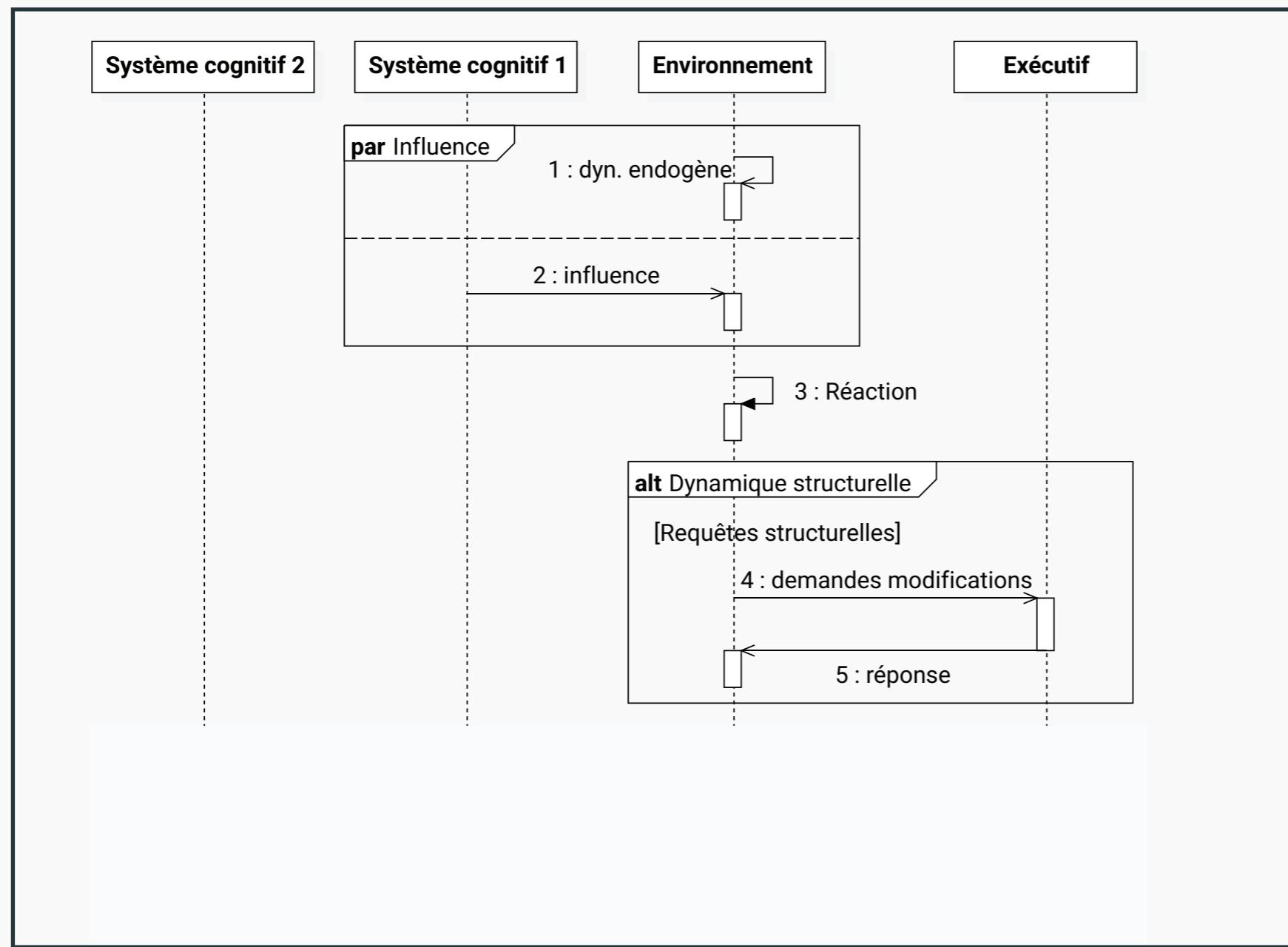
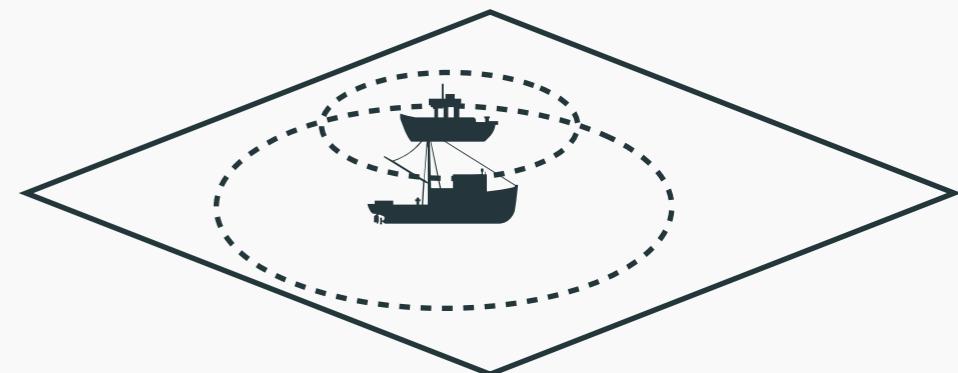
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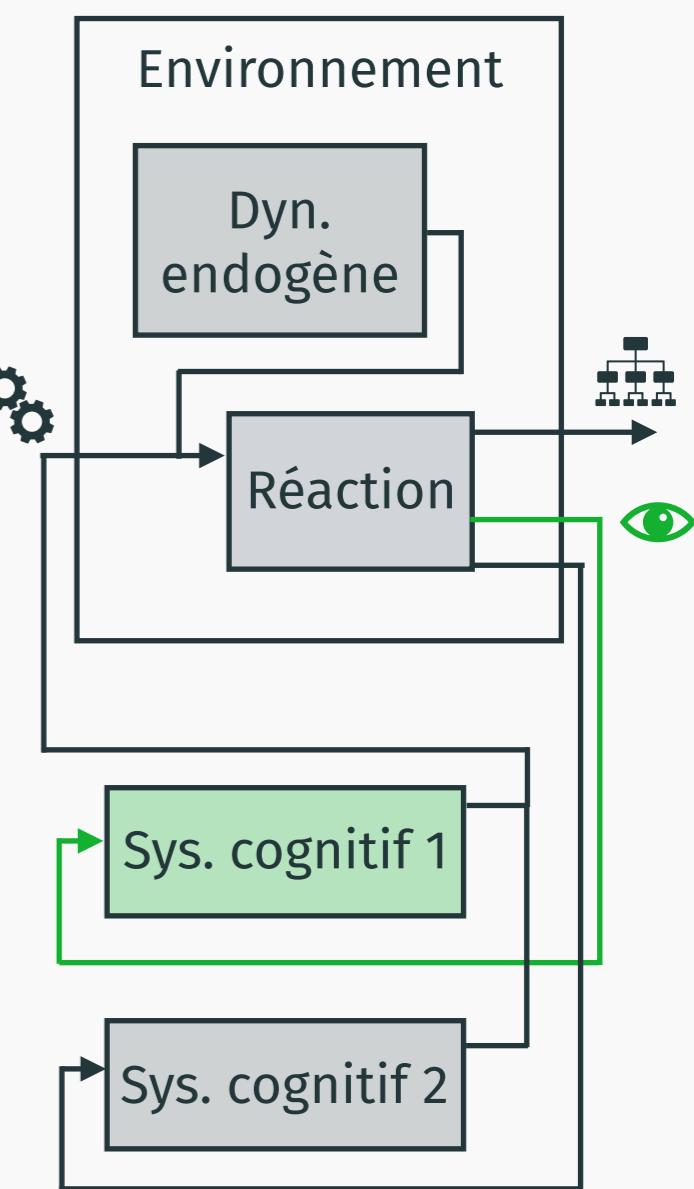
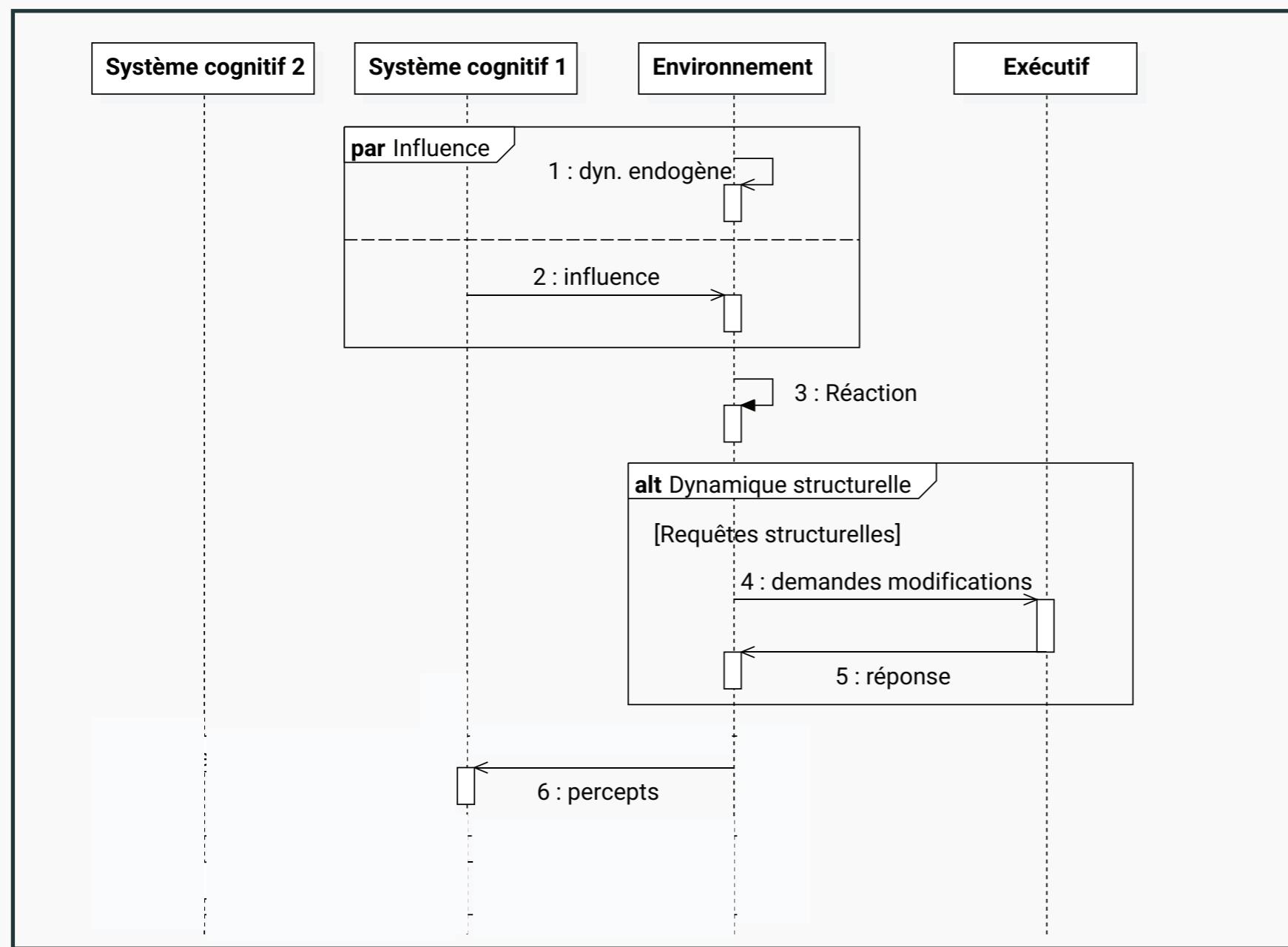
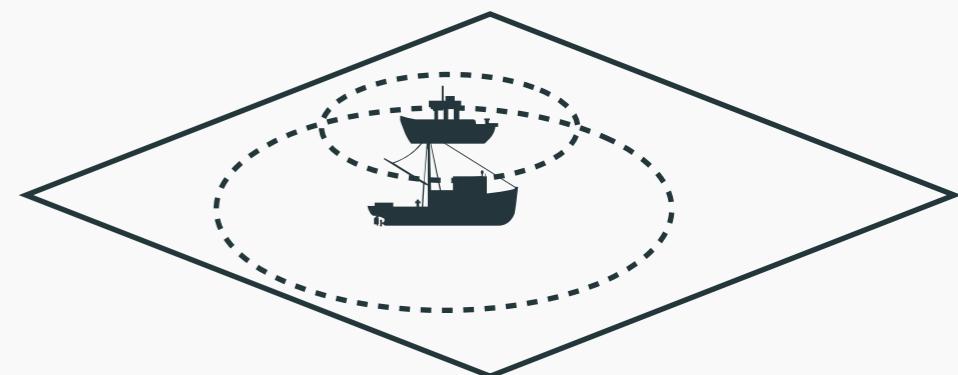
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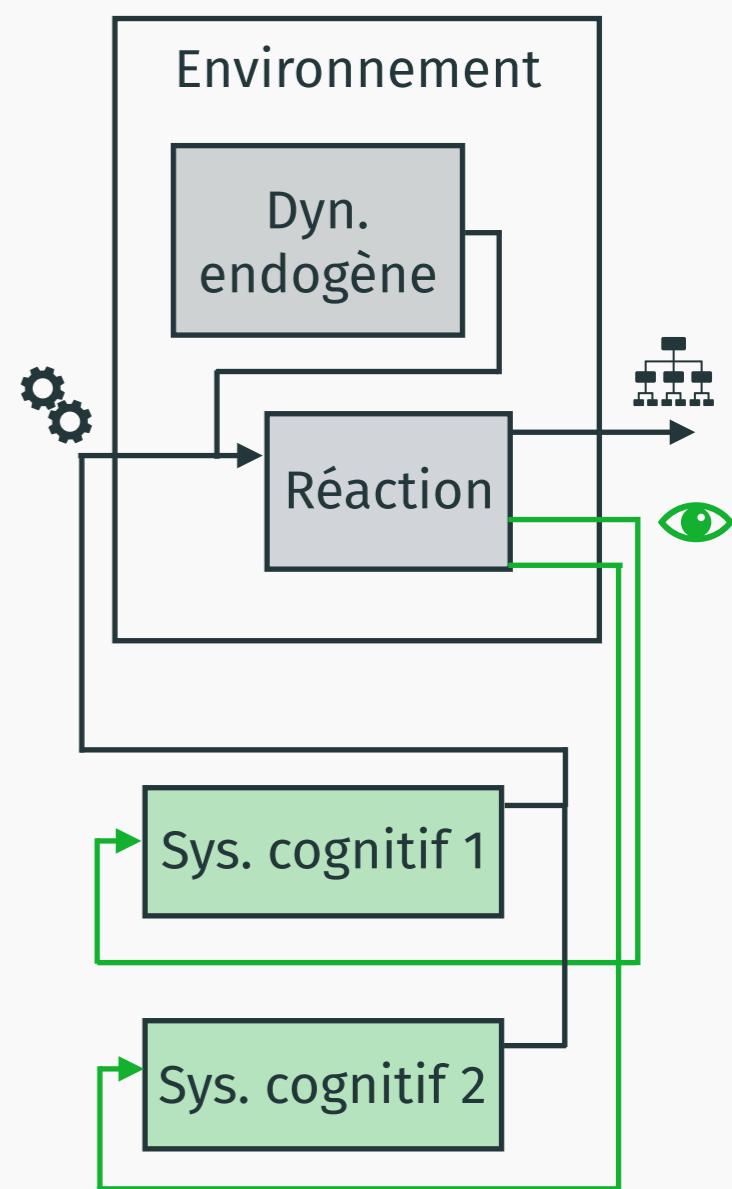
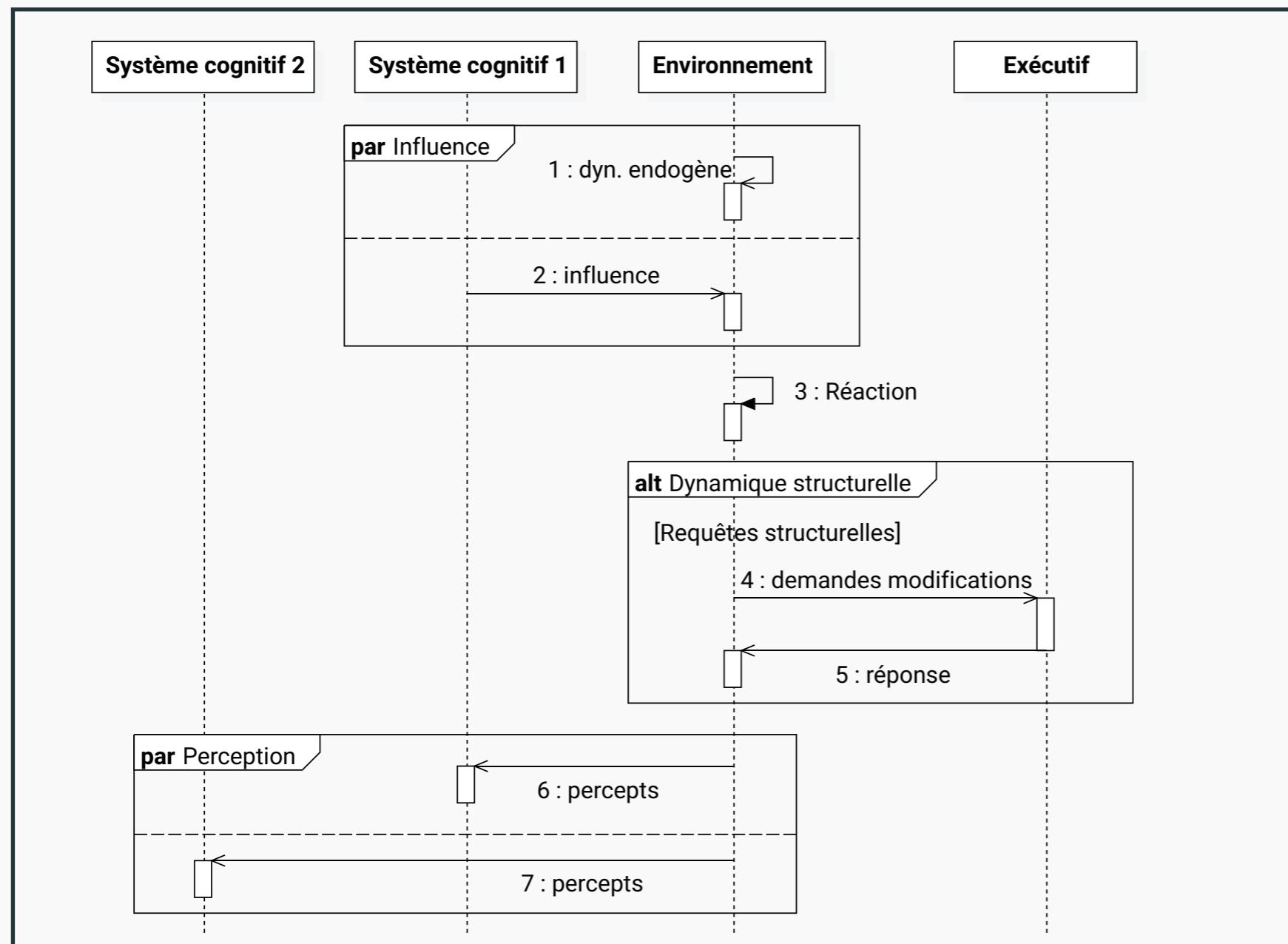
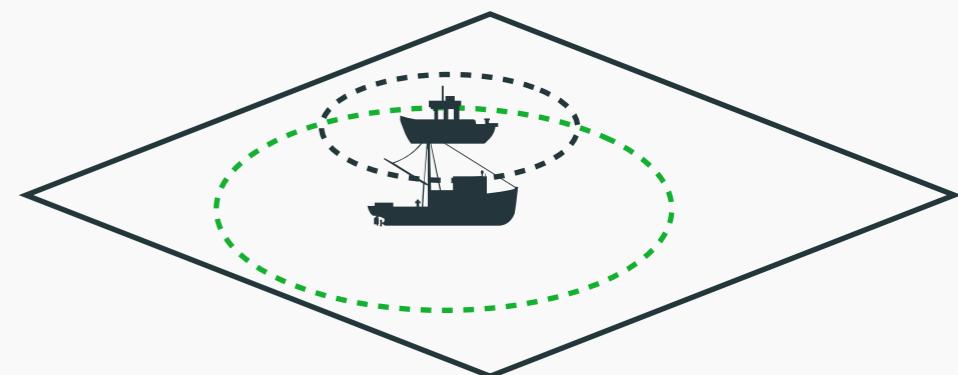
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Agent formalization, high-level semantics overview

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