Exemples d’utilisation d’UML dans les articles scientifiques

Laurent Pérochon, 28-30 avril 2008, RMT
Modelia, modélisation conceptuelle, formation
UML, INRA Castanet Tolosan

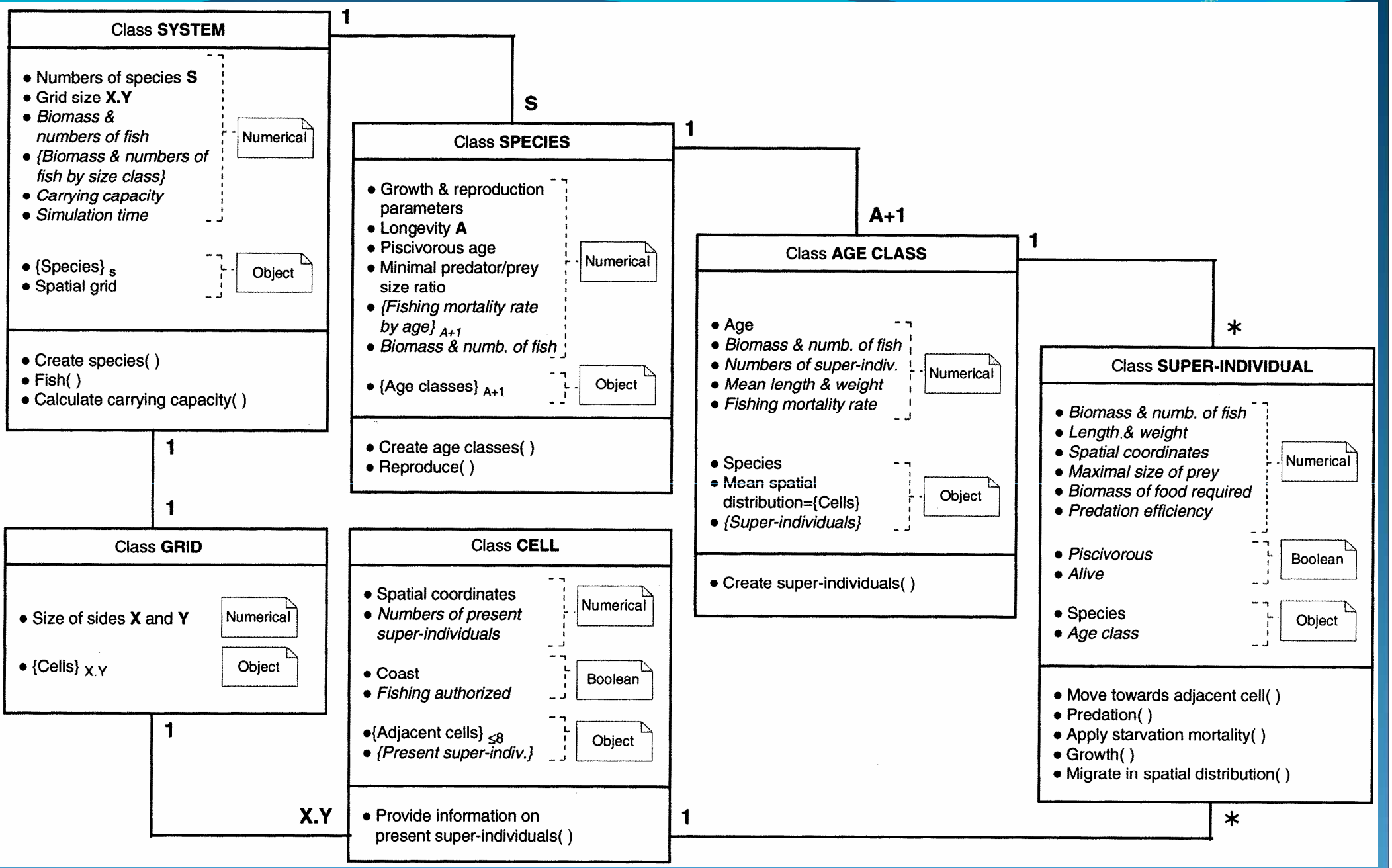
2000-2009 : Nombre d'article sur des projets ayant utilisés UML en sciences agronomique et biologique : 30

Année	Nombre (extrapolé pour 2009)
2000	0
2001	2
2002	2
2003	2
2004	3
2005	4
2006	1
2007	6
2008	7
2009	*10 (3 pour l'instant)*

Nombre d'article par type de diagramme (description biologique ou informatique)

Type de diagramme	Nombre (%)
Aucun (signale seulement l'utilisation d'UML)	1 (3)
Diagramme de classe	21 (70)
Diagramme d'activité	5 (17)
Diagramme d'état - transition	5 (17)
Diagramme de séquence	6 (20)
Cas d'utilisation	1 (3)

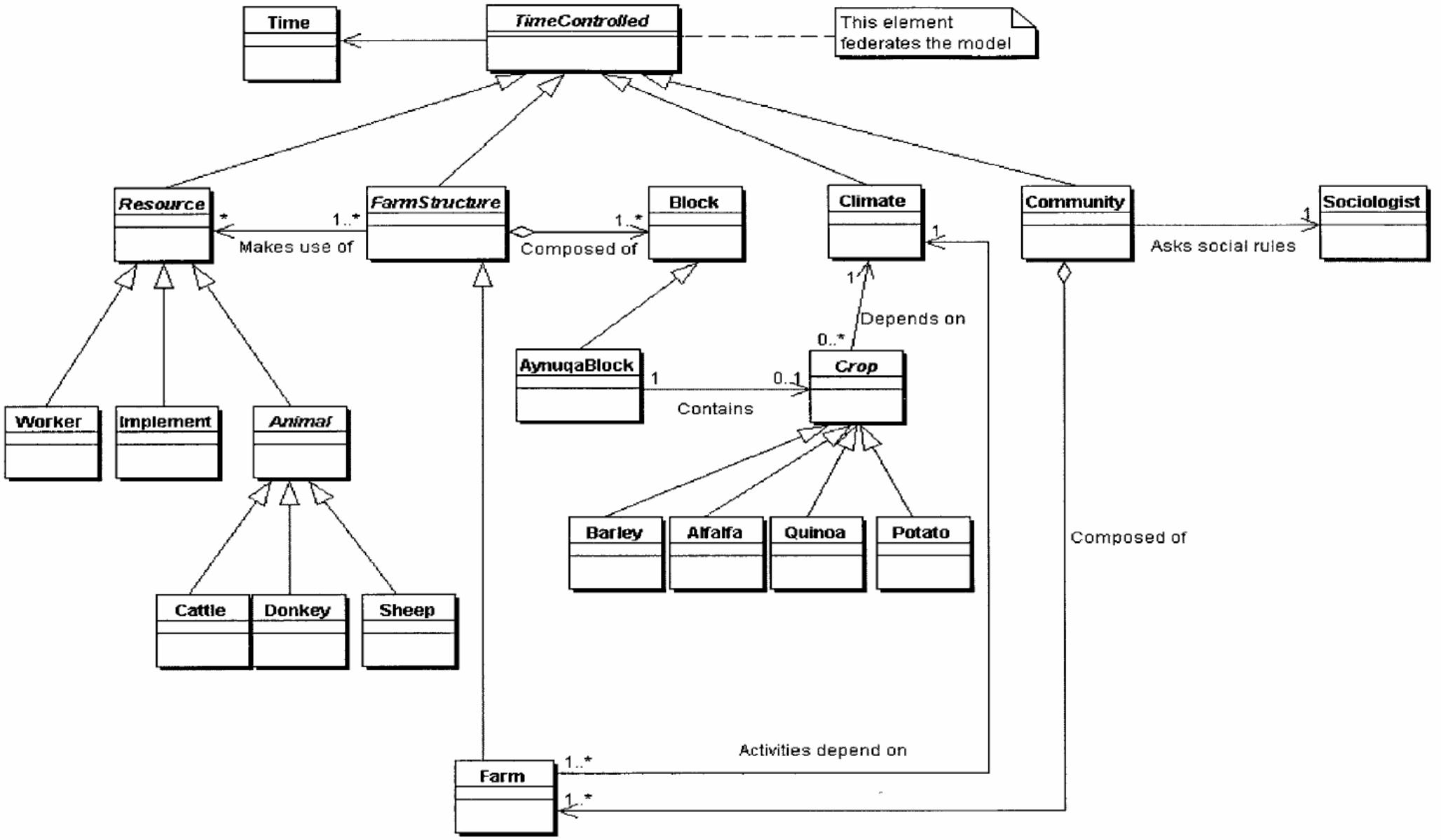
OSMOSE (Object-oriented Simulator of Marine Ecosystems Exploitation)



Laurent Pérochon, 28-30 avril 2008, RMT Modelia, modélisation conceptuelle, formation UML, INRA Castanet Tolosan

Y. J. Shin et P. Curry 2001

Agro pastoral activity at the one-farm level



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D. Hervé et al. 2002

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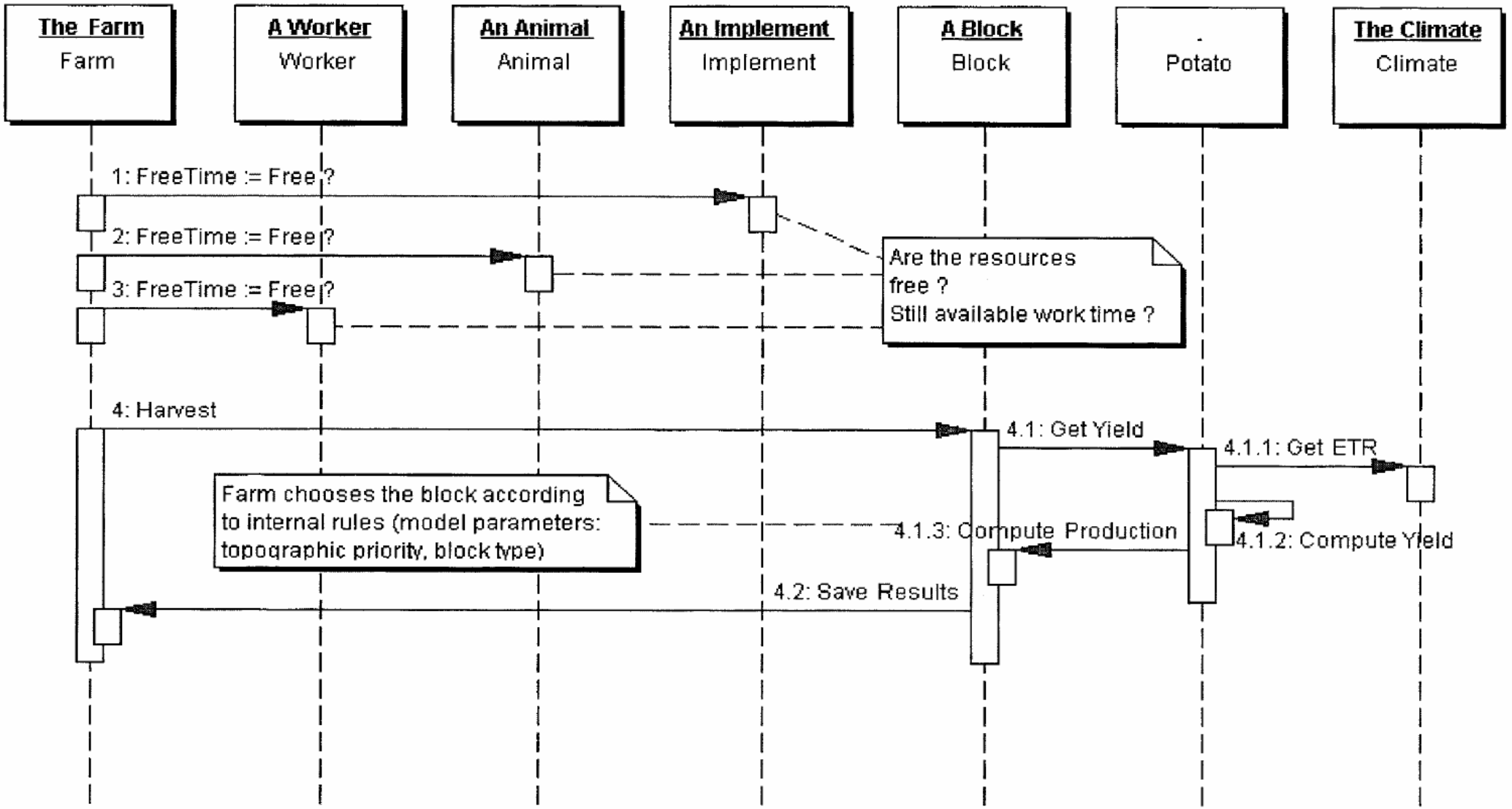

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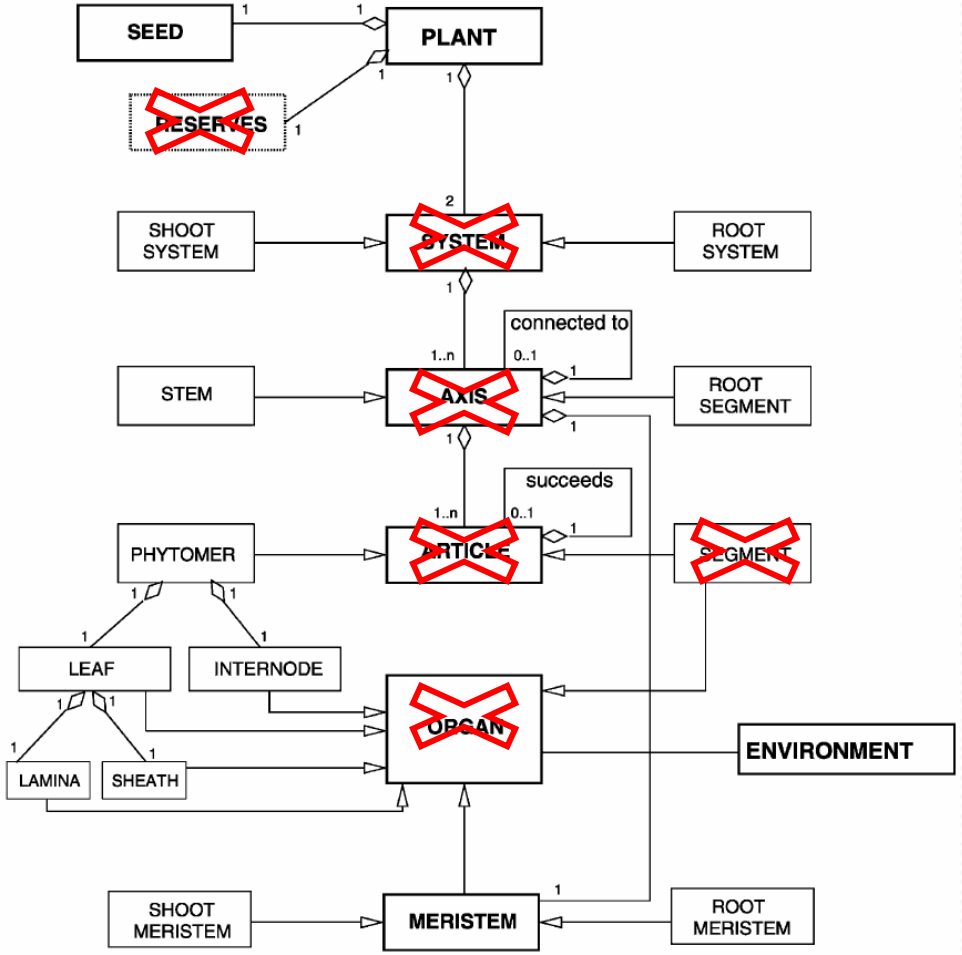
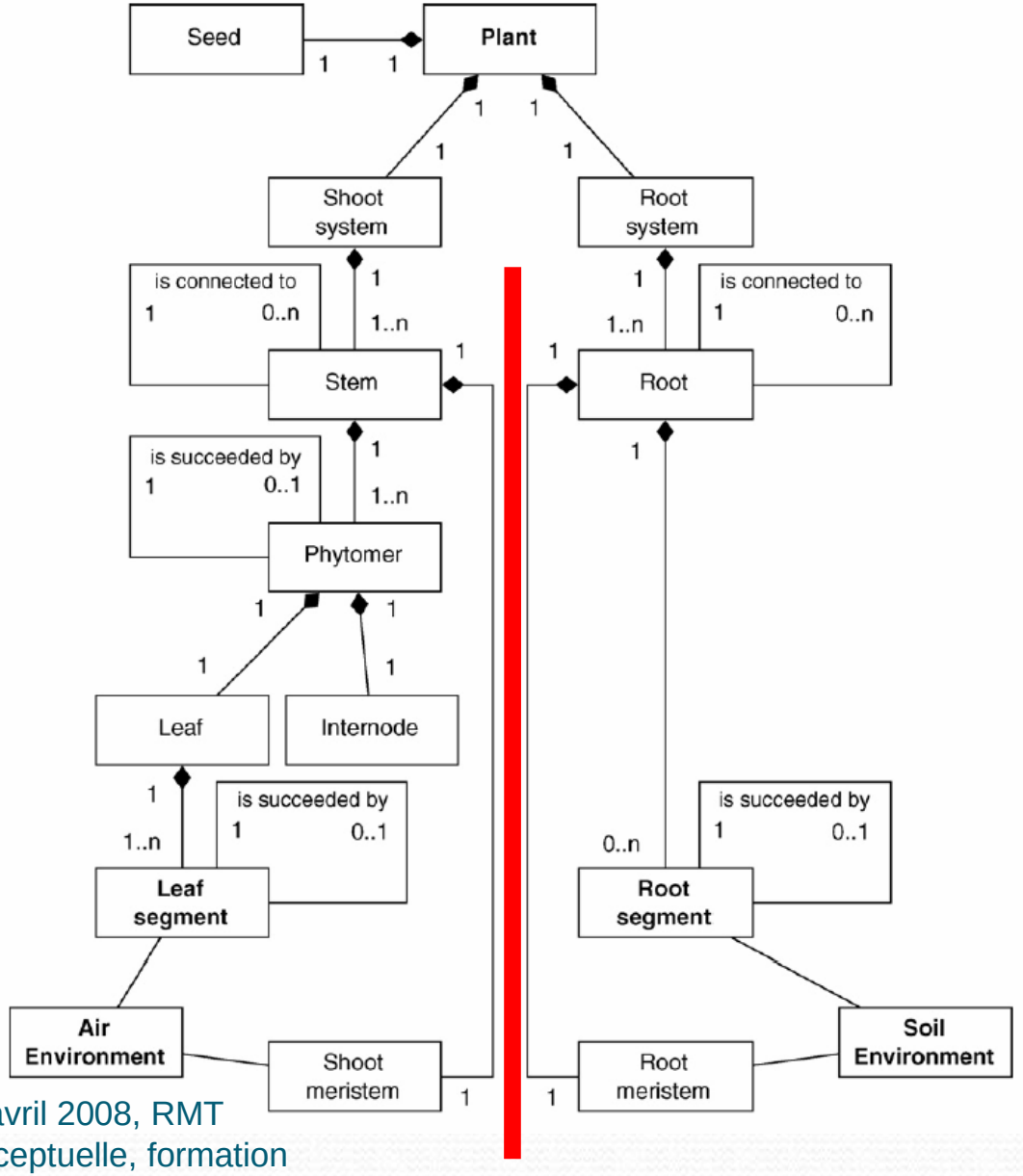
D. Hervé et al. 2002

GRAAL: a model of GRowth, Architecture and ALlocation

Carbon during the vegetative phase of the whole maize plant



Carbon and Nitrogen dynamics within whole plants formalised at the organ level



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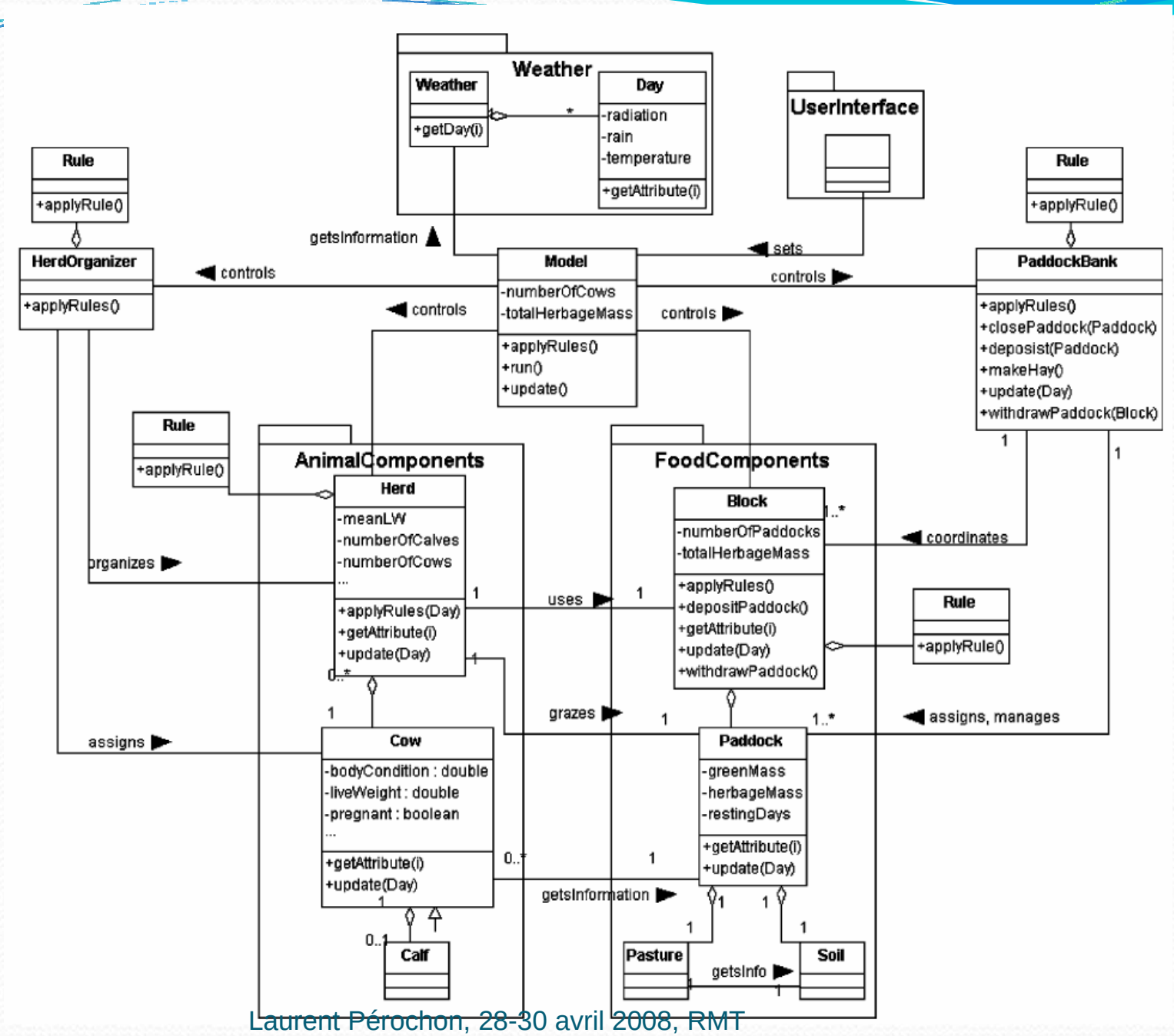
J.L. Drouet et L. Pagès 2003 et 2007

A model for simulating rule-based management of cow–calf systems



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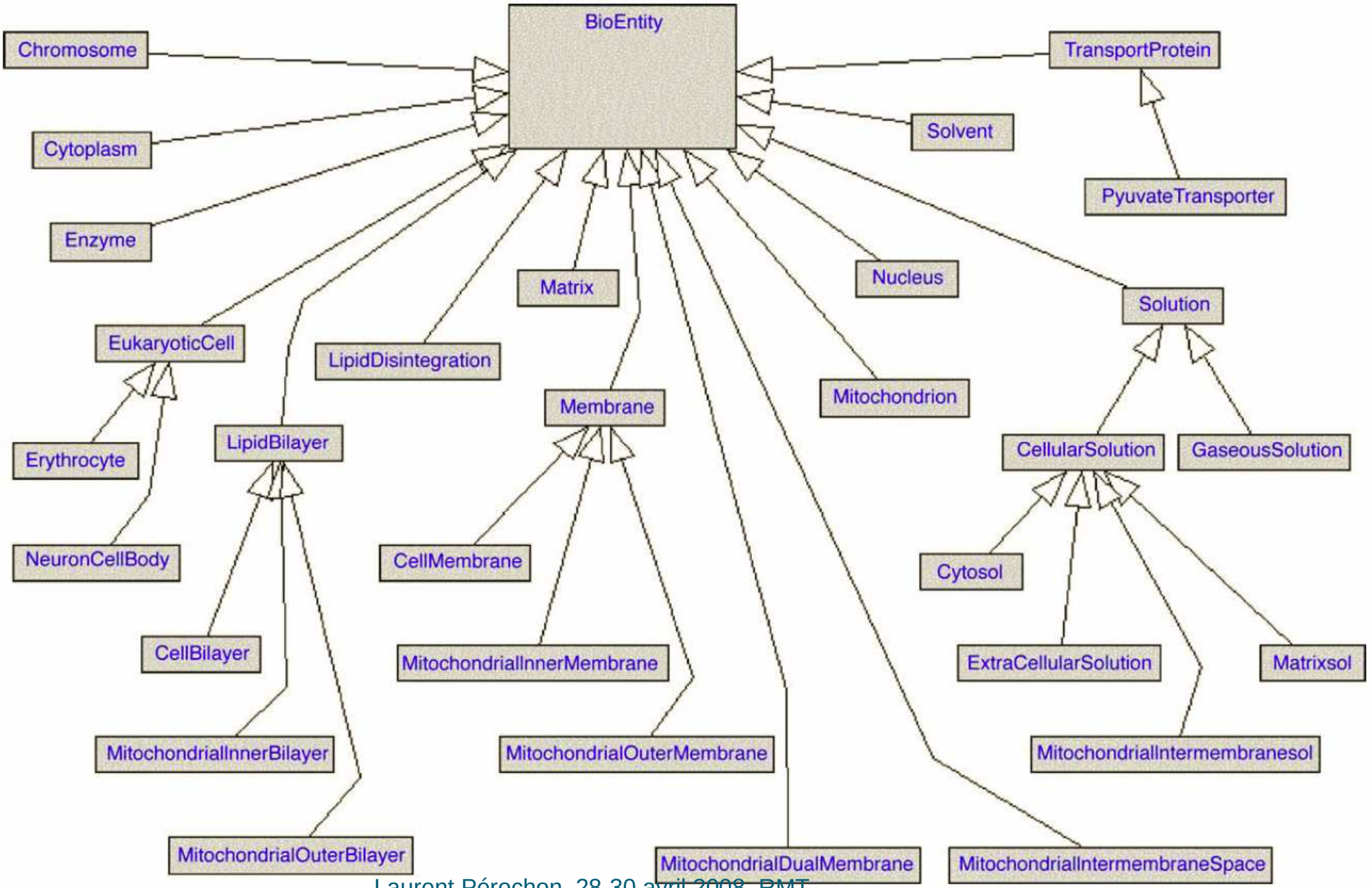
A.J. Romera et al. 2004

UML as a cell and biochemistry modeling language



K. Webb et T. White et al. 2005

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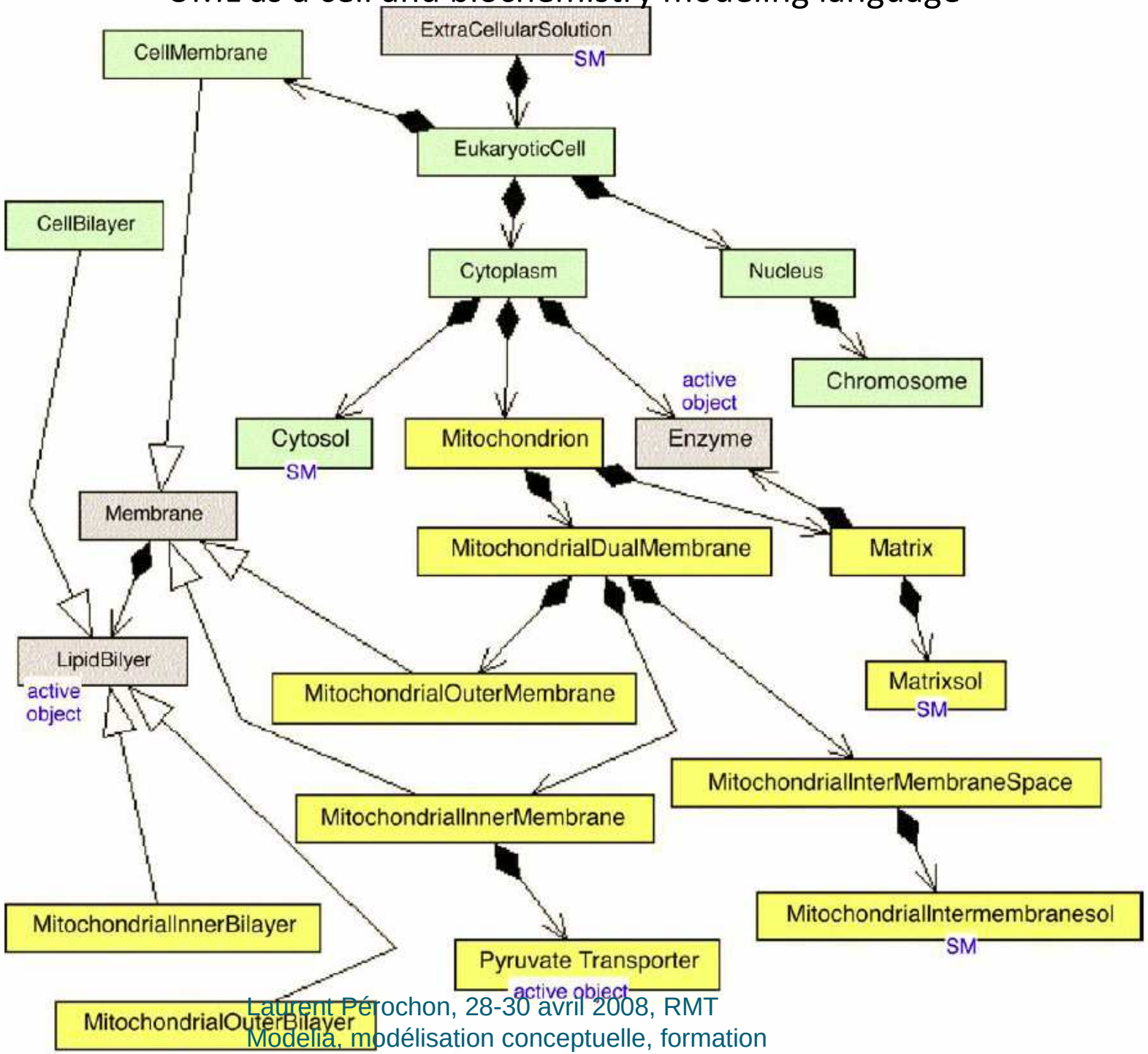

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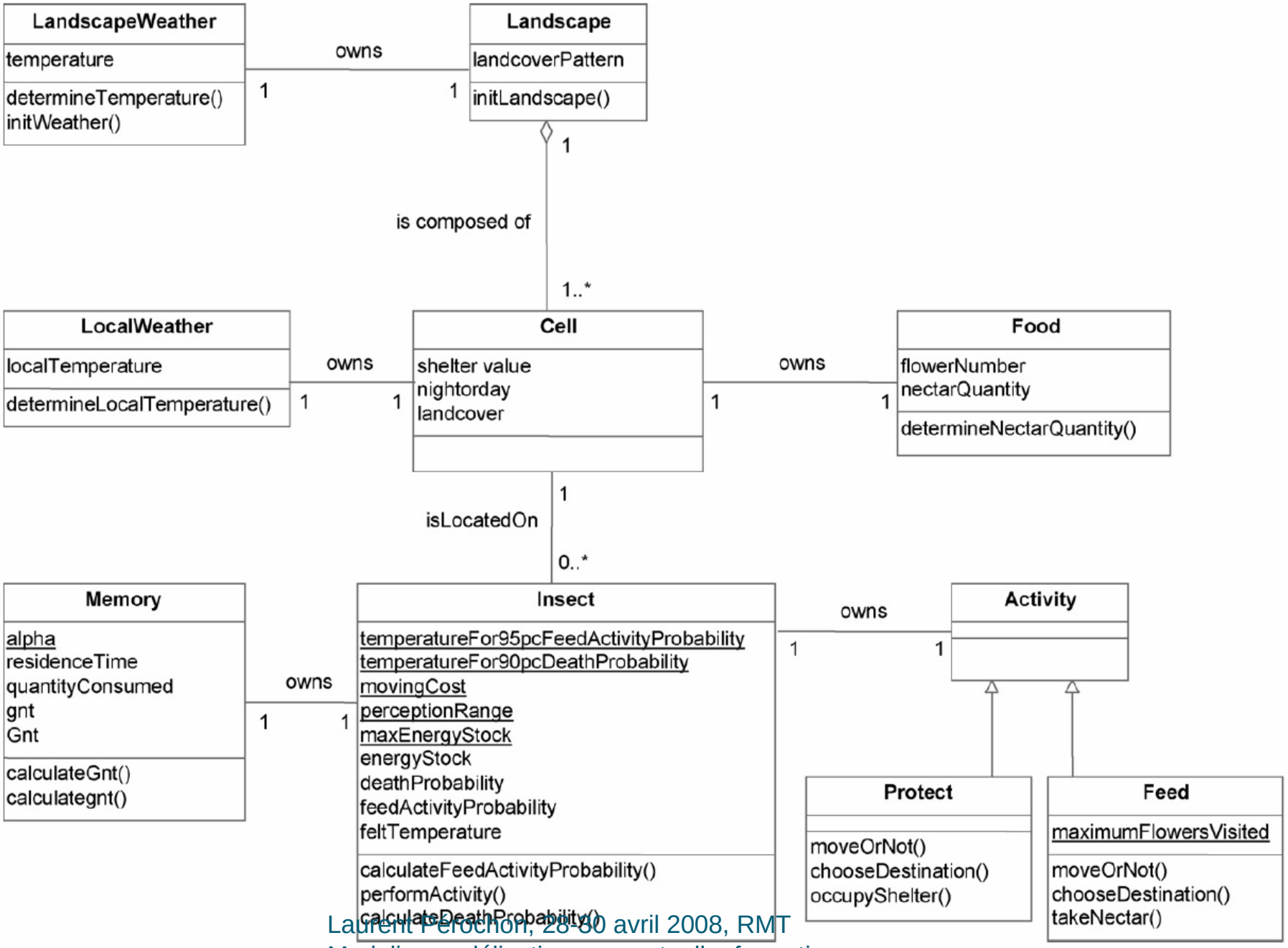
Modelling the overwintering strategy of a beneficial insect in a heterogeneous landscape using a multi-agent system



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F. Arrignon et al. 2007

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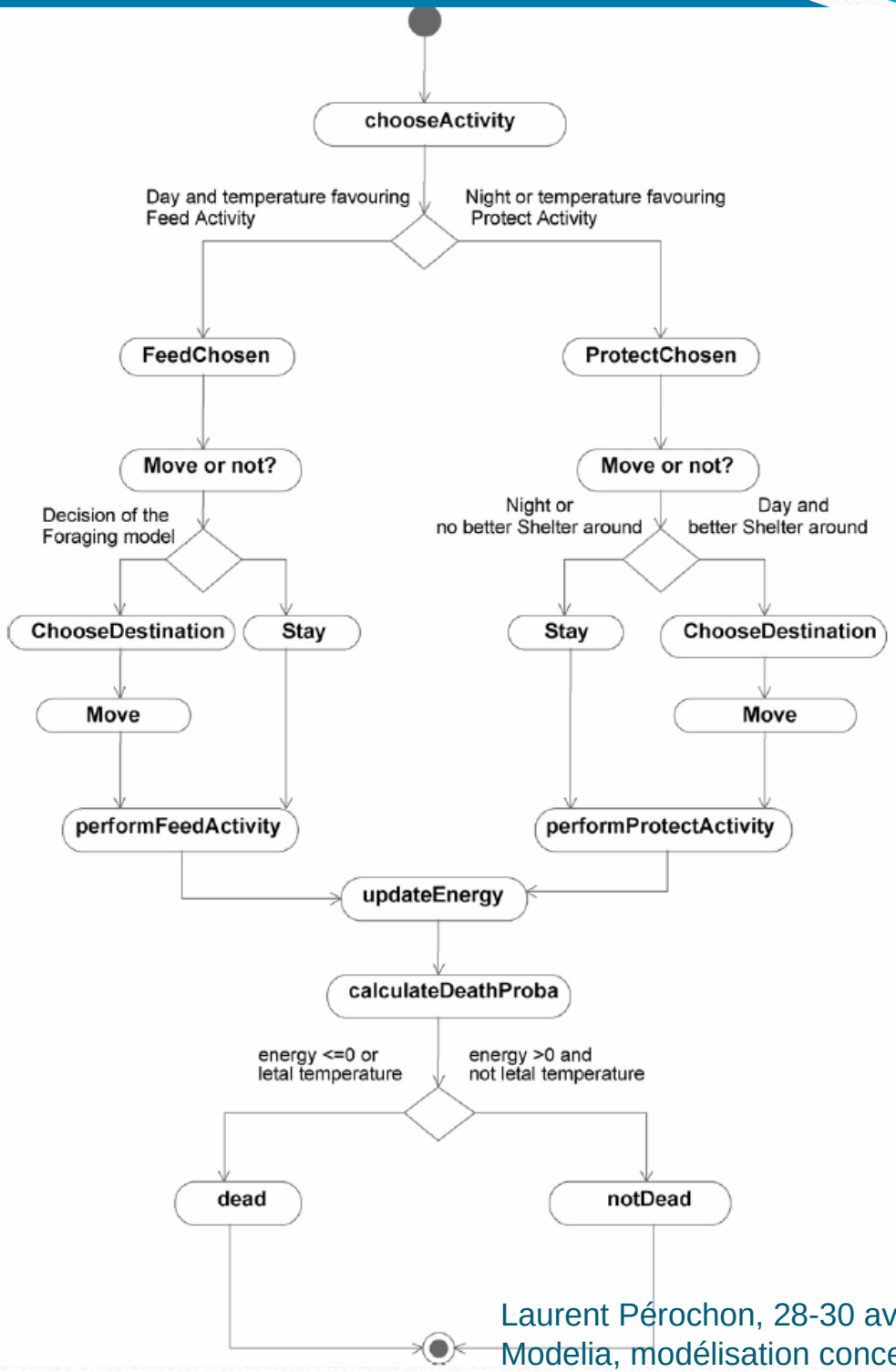

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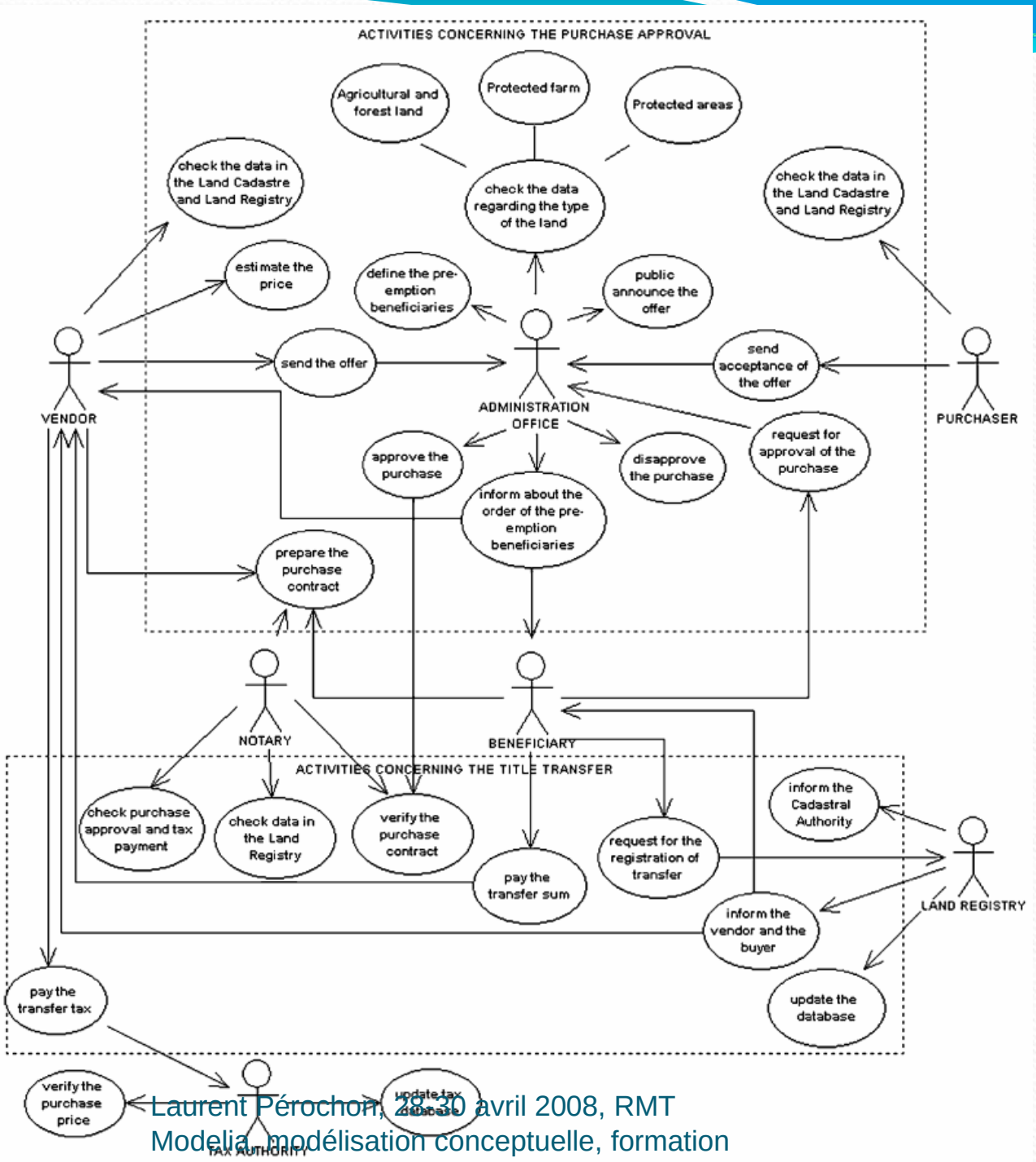
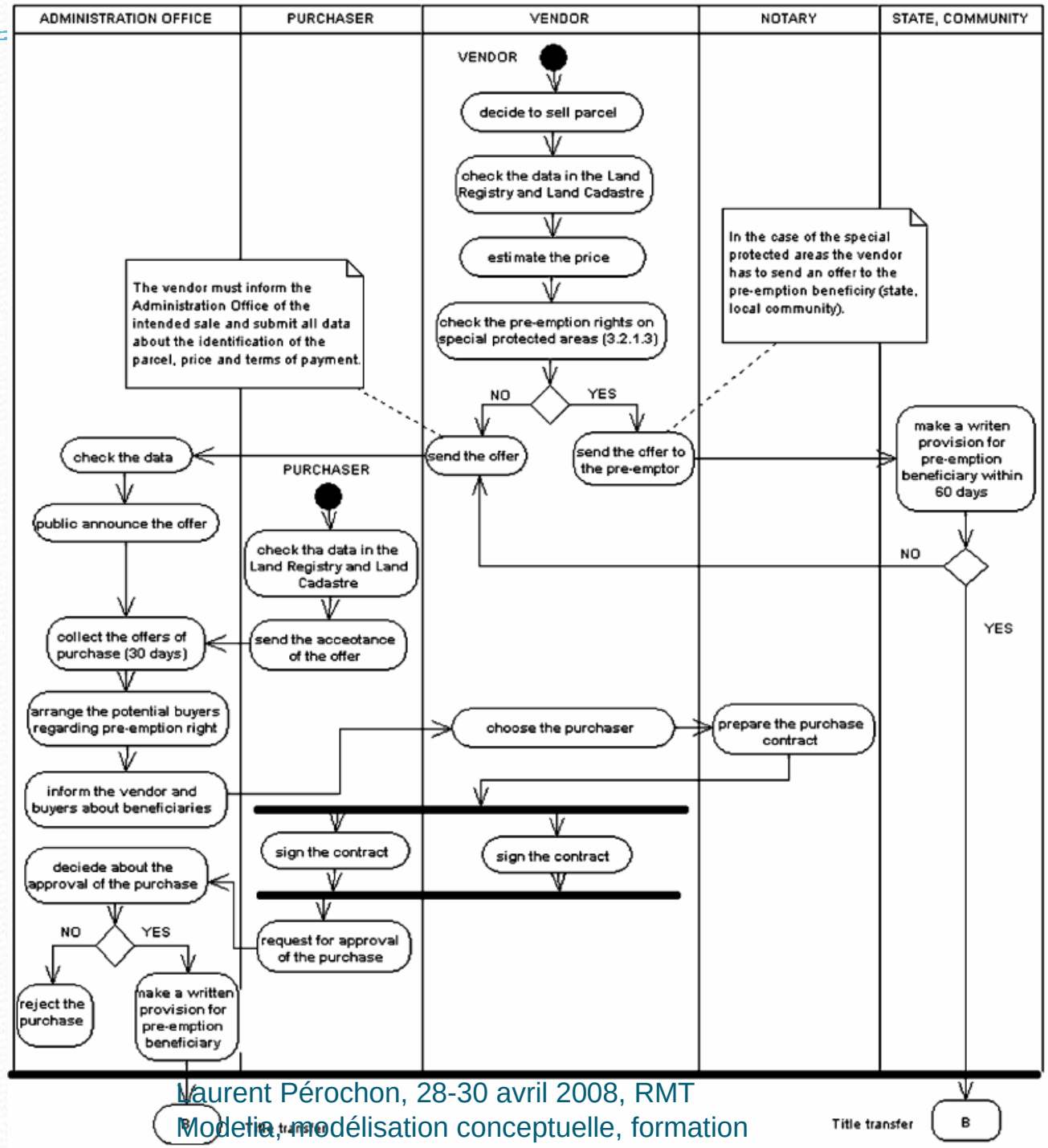
F. Arrignon et al. 2007

Modelling the rural land transaction procedure



A. Lisec et al. 2008

Modelling the rural land transaction procedure



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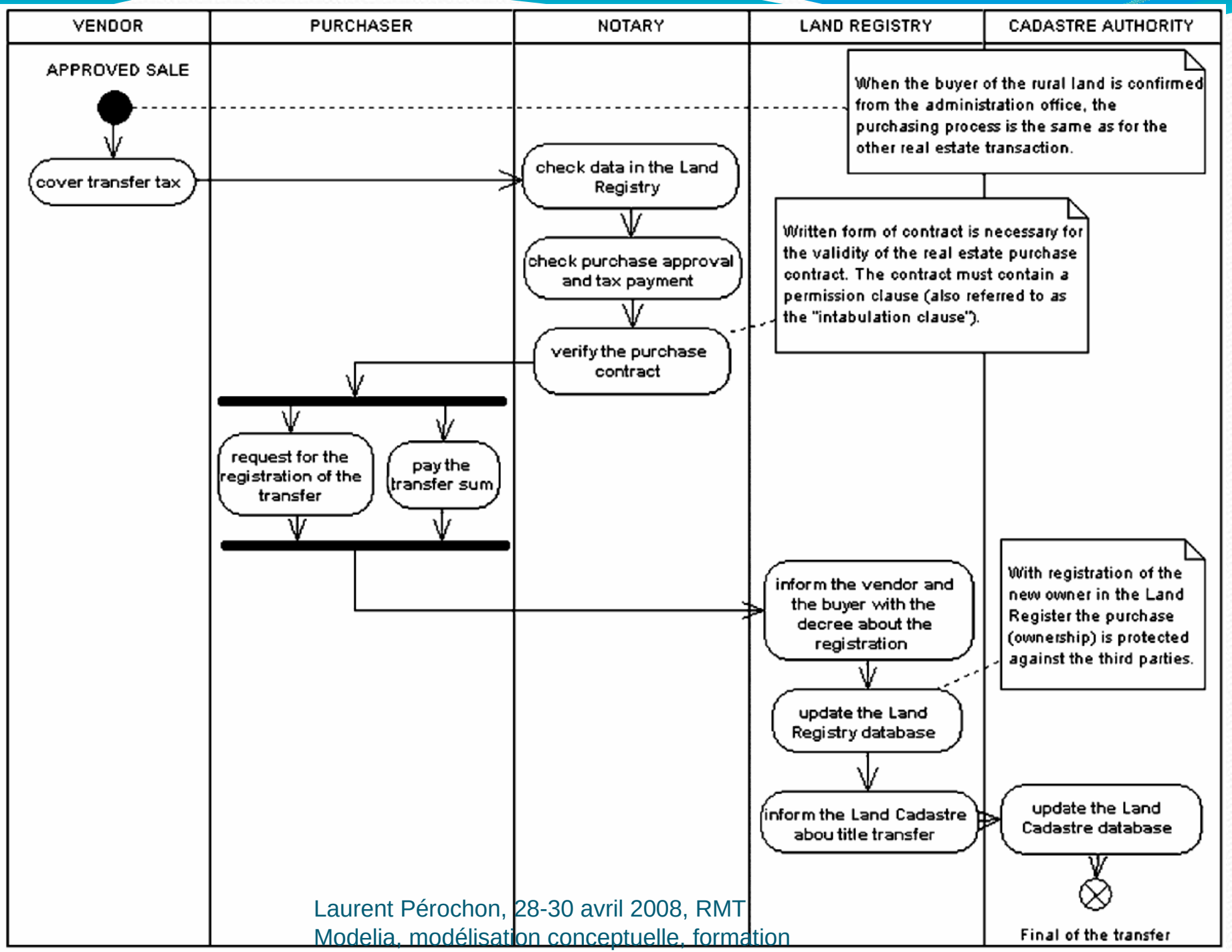

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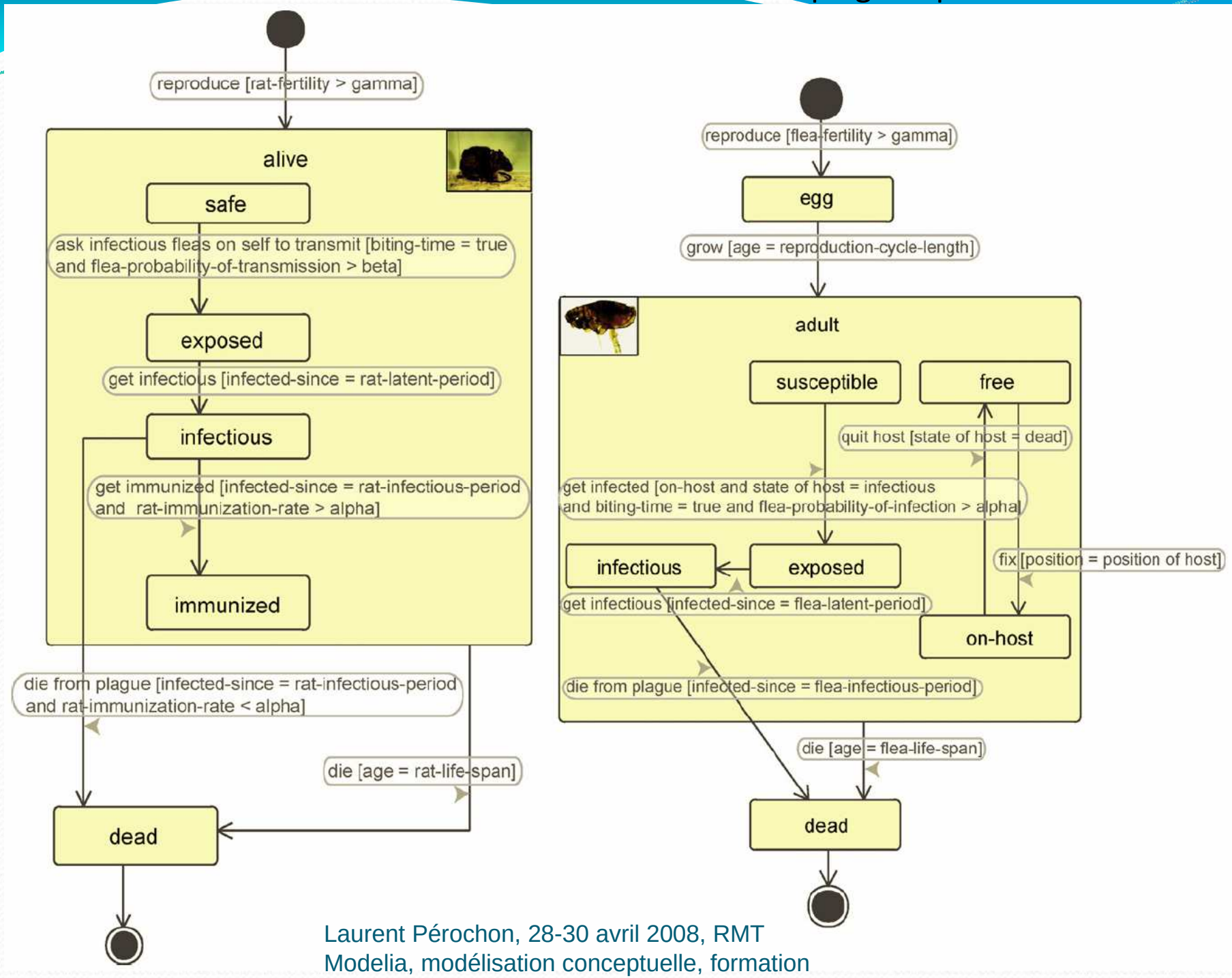
Structural validation of an individual-based model for plague epidemics simulation



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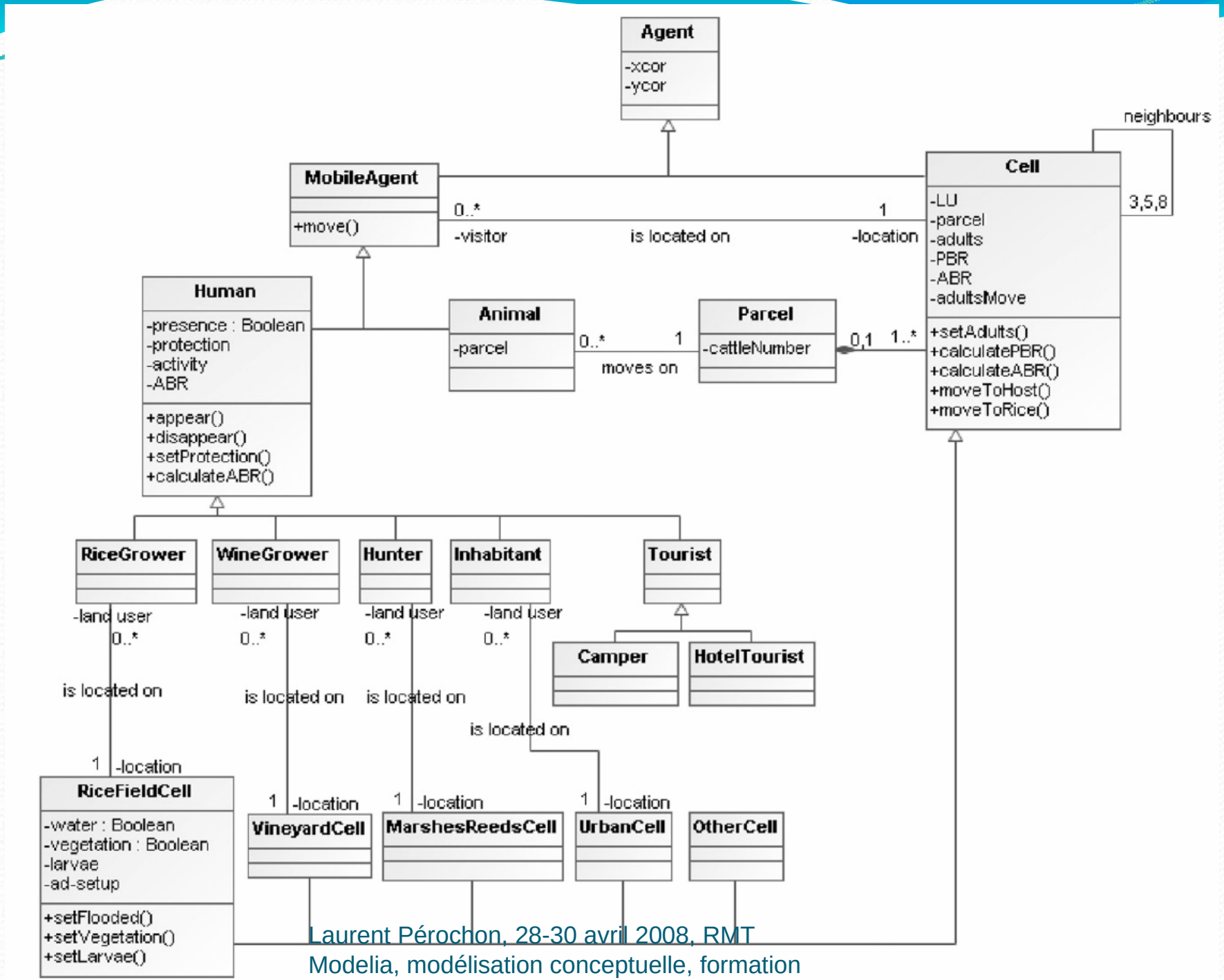
V. Laperrière et al. 2008

A multi-agent simulation to assess the risk of malaria re-emergence in southern France



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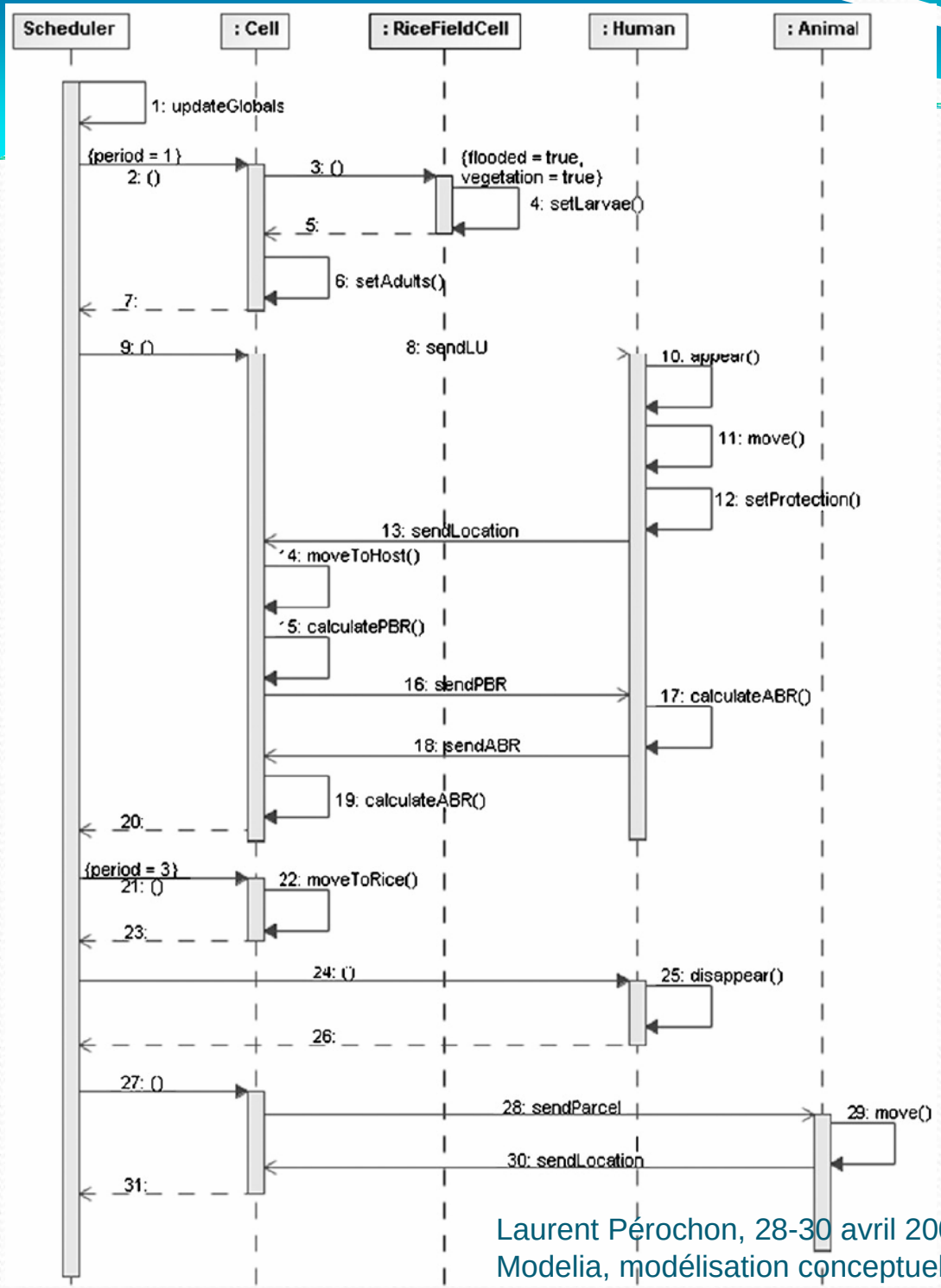
C. Linard et al. 2009

A multi-agent simulation to assess the risk of malaria re-emergence in southern France



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•C. Linard, N. Ponçon, D. Fontenille, E. F. Lambin. 2009. A multi-agent simulation to assess the risk of malaria re-emergence in southern France. Ecological Modelling 220, pp. 160-174.

•V. Laperrière, D. Badariotti, A. Banos et J. P. Müller. 2008. Structural validation of an individual-based model for plague epidemic simulation. Ecol. Complex.

•A. Lisec, M. Ferlan, F. Lobnik, R. Sumrada. 2008. Modelling the rural land transaction procedure. Land Use Policy, 25 pp. 208-297.

•A.J. Romera, S.T. Morris, J. Hodgson, W.D. Stirling, S.J.R. Woodward.2004. A model for simulating rule-based management of cow-calf systems. Computers and Electronics in Agriculture, 42 pp. 67-86.

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•K. Webb et T. White. 2005. UML as a cell and biochemistry modeling langage. BioSystems, 80 pp. 283-302.