

Models For All

Nicolas Le Novère

Characterising dynamical behaviours

	Models	Simulation	Results
Minimal requirements	MIRIAM	MIASE	
Data-models	SML SGN	SED ML	(SBRML)
Ontologies	S30	KISAO	TEDDY

Is the matrix of standards complete?

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Ontologies	S30	KISAO	Y E D D Y

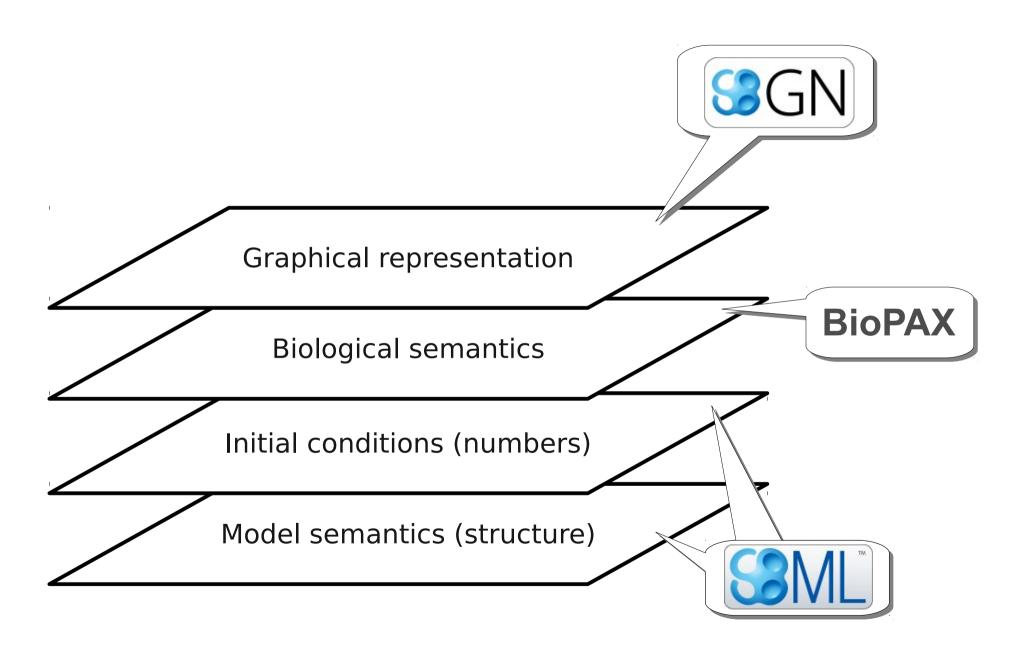
Is the matrix of standards complete?

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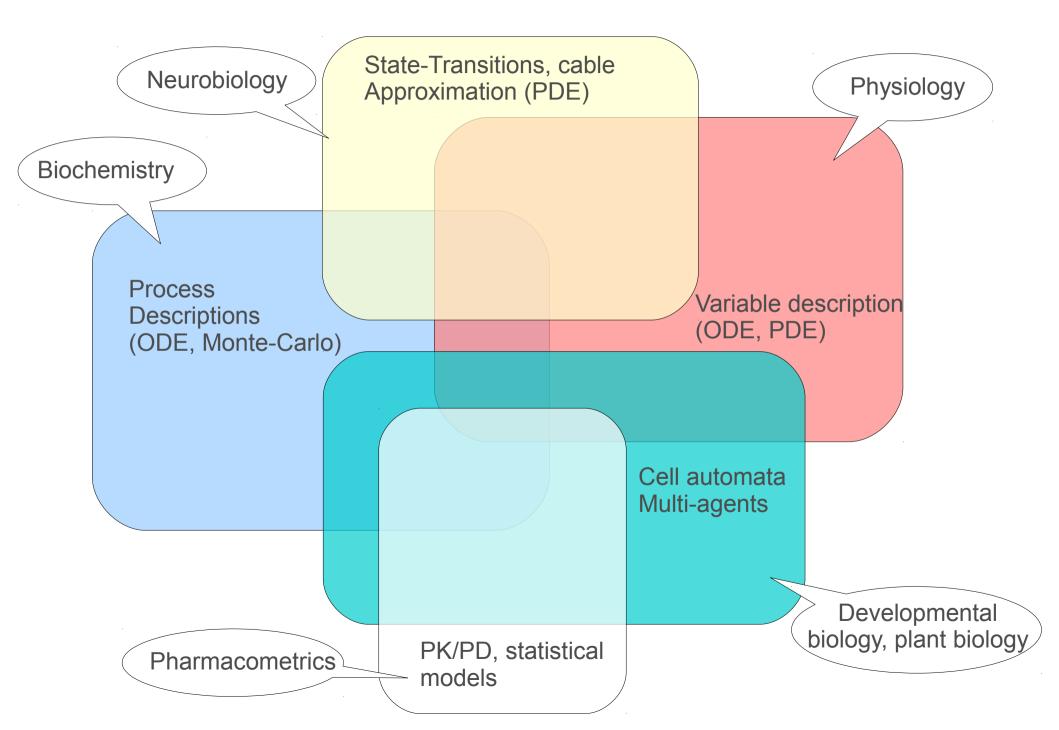
Disentangling the model life-cycle

Model generation	Model structure	Parametrisation	Simulation and analysis	Numerical results
?		?	SED ML	SBRML

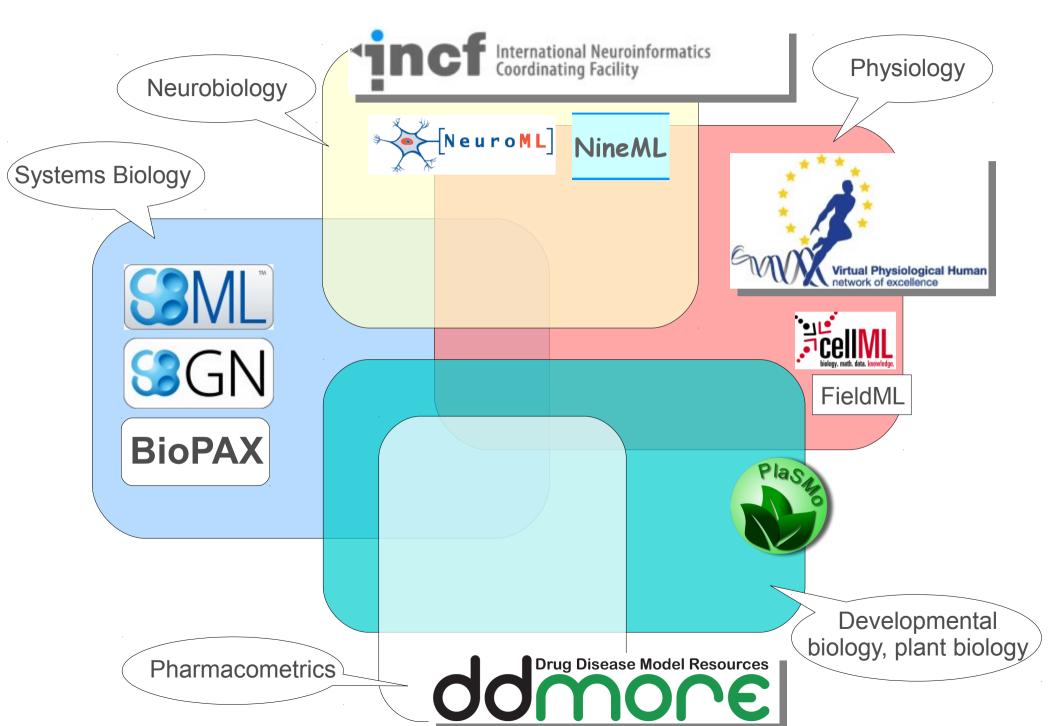
Disentangling the level of discourse



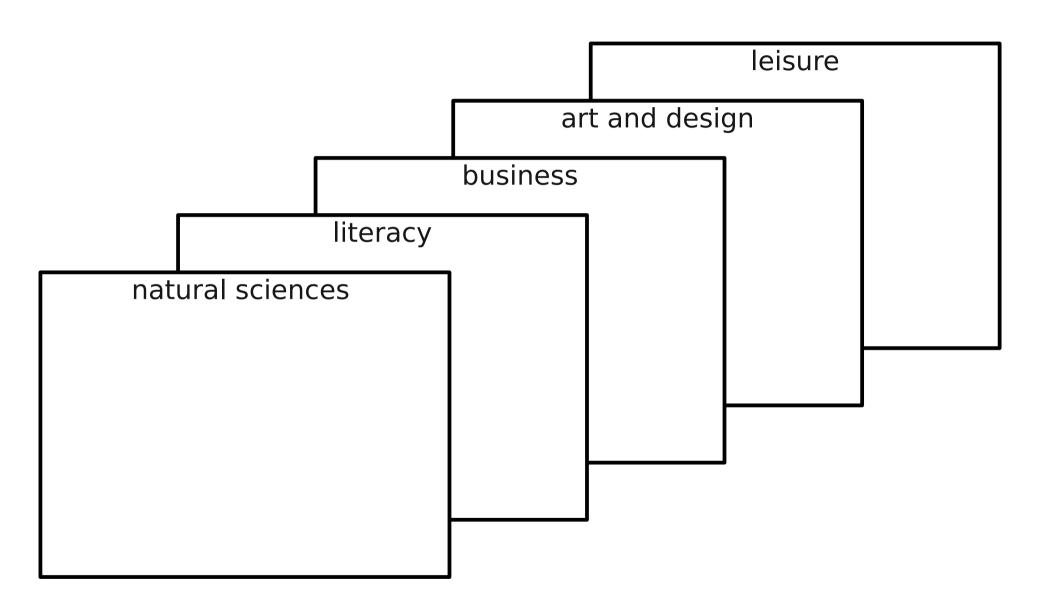
Many complementary modelling approaches



Parallel and redundant efforts



What if the world-wide web was built like this?





Views: desktop mobile print

STANDARDS PARTICIPATE MEMBERSHIP

ABOUT W3C



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W3C

Standards

Participate

Membership

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ABOUT W3C

The World Wide Web Consortium (W3C) is an international community where Member organizations, a full-time staff, and the public work together to develop Web standards. Led by Web inventor Tim Berners-Lee and CEO Jeffrey Jaffe, W3C's mission is to lead the Web to its full potential. Contact W3C for more information.



W3C Mission

Principles, vision, ...



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Is W3C sending me spam?

What is the difference between the Web and the Internet?

QUICK LINKS

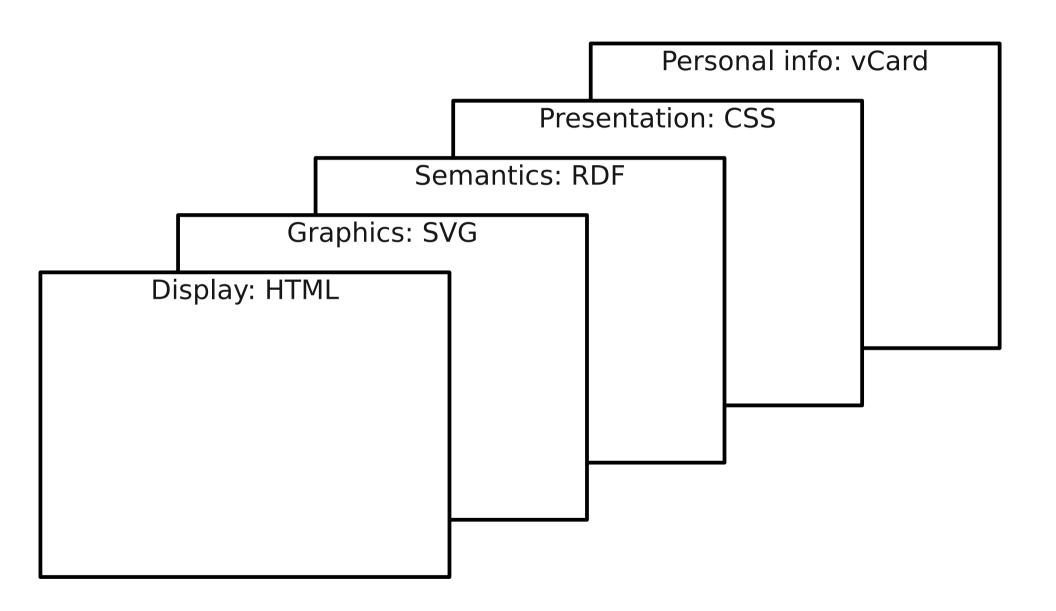
Contact

Staff

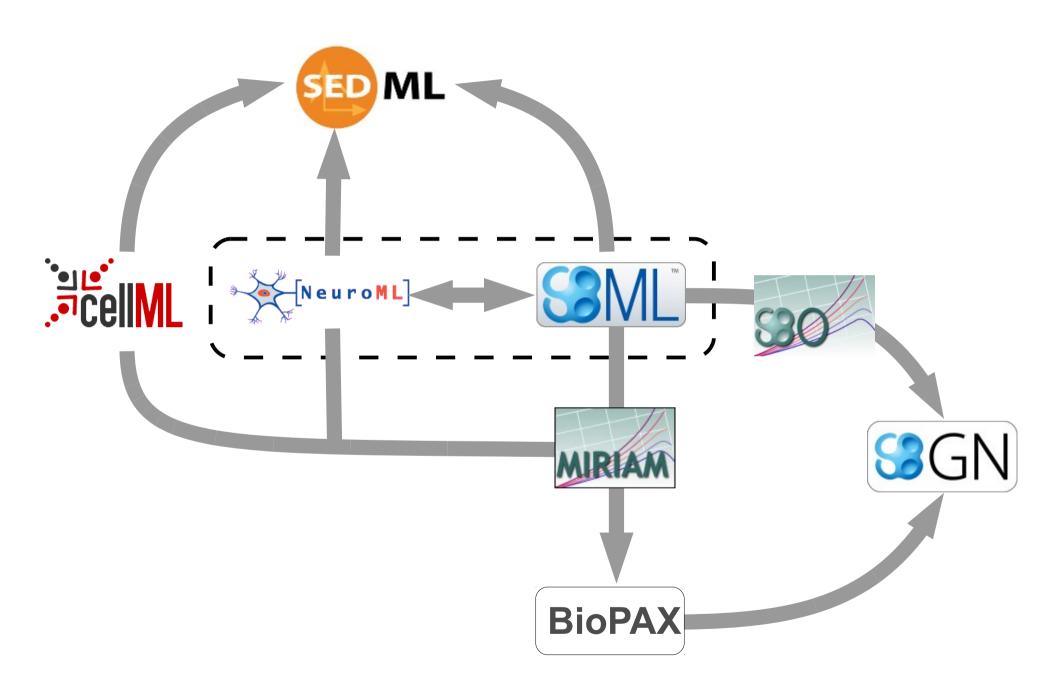
Help and FAQ

Systems Status (outages)

The correct way to do it



Existing standards interoperability



Overarching standardisation structure



The "WorldWide Web consortium" of modelling in biology http://co.mbine.org/

- HARMONY 2011
 - 18 to 22 April 2011, New-York
 - http://www.biopax.org/harmony.php
- COMBINE 2011
 - 3 to 7 September 2011, Heidelberg
 - http://co.mbine.org/events/COMBINE_2011

- Standard Operating Procedures
 - Technical requirements
 - Governance
- Single voice
 - Discussions with Industry
 - Financial support

HARMONY Vs COMBINE annual meeting?

- COMBINE annual meeting:
 - Presentation of results, tools, etc.
 - General discussion
 - Directed towards the general community, including end-users
- HARMONY
 - Implementation of software support, development of specifications
 - Technical discussions
 - Directed towards developers, editors, ultra-geeks
- Both cost a lot of money!!!
 - We need to demonstrate that they are productive
 - Paper(s) will be submitted to SIGS after the meeting