



International Council on Systems Engineering
A better world through a systems approach

OMG's Approach to Developing its SysMLv2 Certification Program



Rick Steiner (University of Arizona)

Terrance Milligan (Object Management Group)

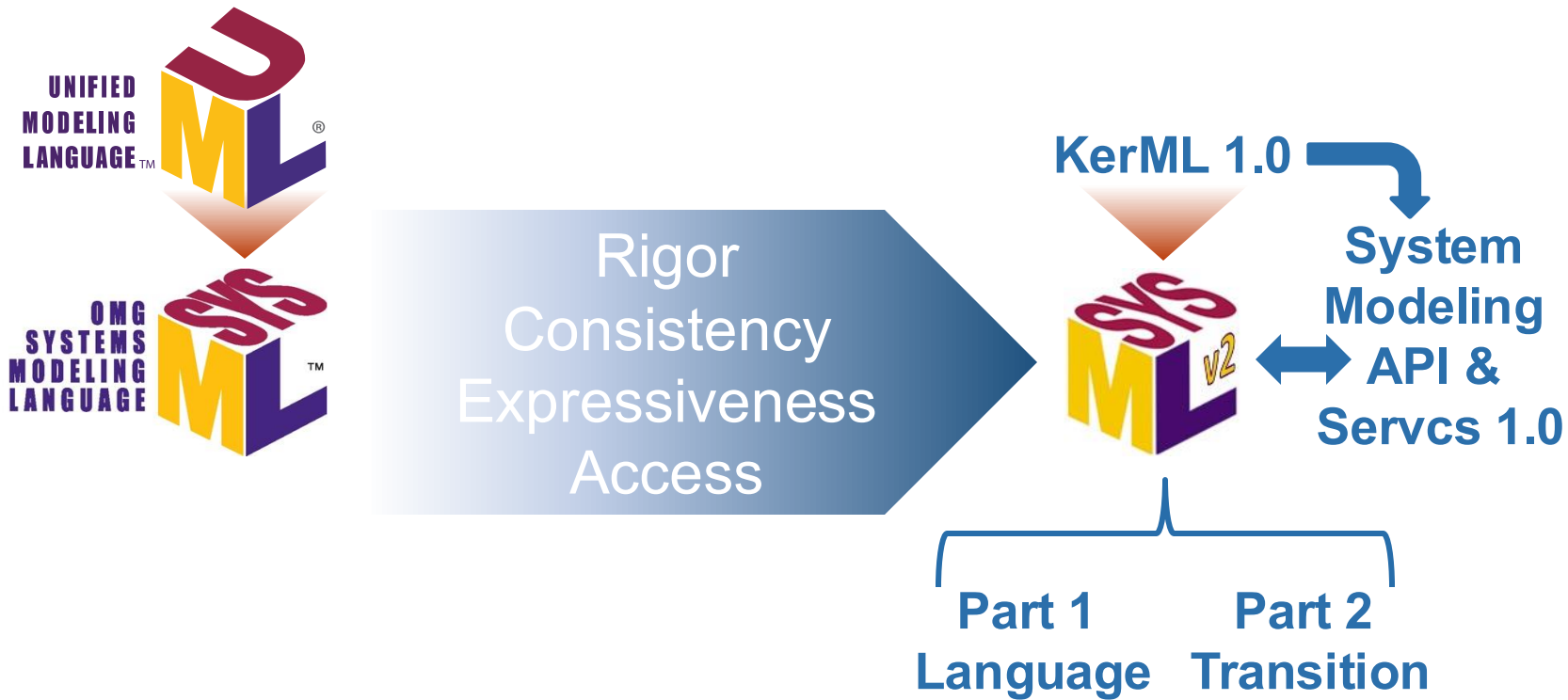
Matthew Johnson (STC/Arcfield)



Key questions

- Why is SysMLv2 important to you?
- Why is SysMLv2 **certification** important to you?
 - Why should I trust it?
- How is SysMLv2 certification **different** from v1 (OCSMP)?
 - Will it keep up with spec changes?
- When will certification be available?

Why is SysMLv2 Important? (1)



Why is SysMLv2 Important? (2)



Rigor
Consistency
Expressiveness
Access



Representative, **incomplete** collection of early adopters

Why is SysMLv2 *Certification* Important?



Rigor
Consistency
Expressiveness
Access



Updated
Competency
Assessment



How is SysMLv2 Certification *different* from OCSMP?



- Small development team, broad range of experience levels
- **Rapid** development
- **Graphic only** language (limited tooling at time)
- 4 levels: **L1** user, **L2** basic builder, **L3** intermediate, **L4** advanced
- Built on SysML 1.2 (**not updateable**)



Certification

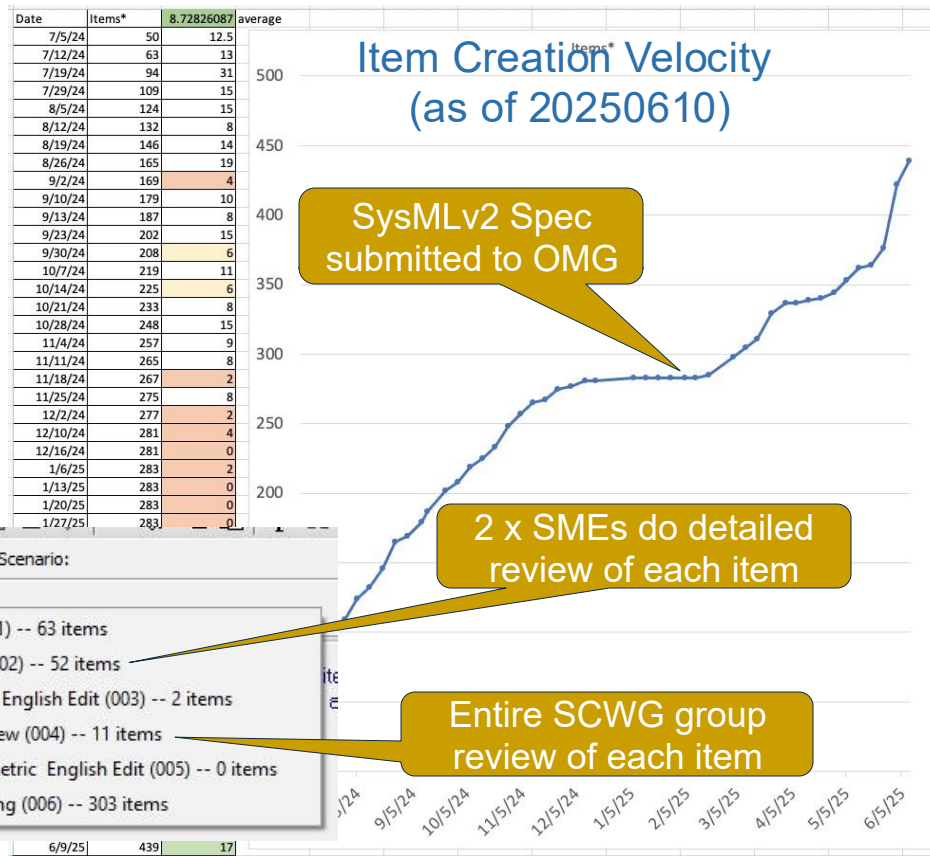
- Small development team, highly experienced
- **Deliberate** development
- Both **graphic** and **textual** notation (**much** better tooling available)
- 3 practical levels/personas: **L1** basic reader, **L2** basic builder, **L3** advanced builder
- Focus on Maintainability: update exam with each spec release

Why should I *Trust* OMG SysMLv2 Certification?

- 12 *experienced* SMEs
 - Most helped **create** SysMLv2 spec, ongoing involvement in working groups
- Each exam item is **carefully reviewed**
 - SME/Tech Review, Level & Quality review
 - Beta test statistics -> final exam

Manual ID	Locked By	Item ID:	Scenario:
Copy of 133		Objective: General L1 Items	
		Write Item (001) -- 63 items	
		SME Review (002) -- 52 items	
		Psychometric English Edit (003) -- 2 items	
		Technical Review (004) -- 11 items	
		Final Psychometric English Edit (005) -- 0 items	
		Standard Setting (006) -- 303 items	

2.1.1.346 - v1	399	Ryan Noguchi	
2.1.1.347 - v1	400	Ryan Noguchi	
2.1.1.348 - v1	401	Tom Ford	Copy of 300
2.1.1.349 - v1	402	Ryan Noguchi	Copy of 127



When will SysMLv2 Certification be *available*?

- On track to submit questions for L1 Beta Exam - September 2025
 - Should have public L1 exam ready by end of 2025
- Expect L2 detailed planning in earnest in September/October 2025
 - L2 beta exam Q3 2026?
 - Better L1 definition has helped frame L2.
- L3 planning hasn't started yet.

Any Questions?