The tale of a model hoarder

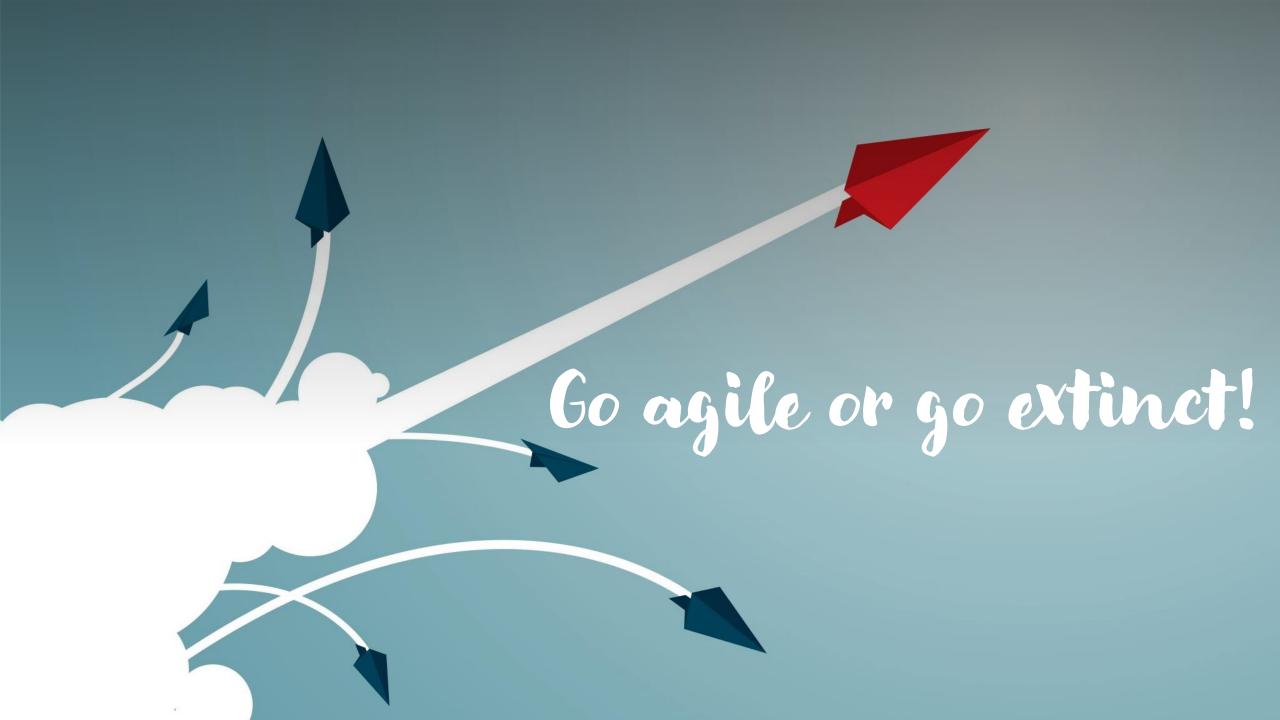
Agile Archimate? Using Enterprise Architect and GitHub to craft your models!



Daniel Siegl

- Involved with Model Based Engineering Tools since 1999
- Business "Development" at Syntevo and LieberLieber
- INCOSE Deputy Director for Standards
- Chaired PROSTEP Workgroups
- Involved with OMG since 2008

#MBSE #Collaboration #Interchange #Standards #git #github



LemonTree 4.0





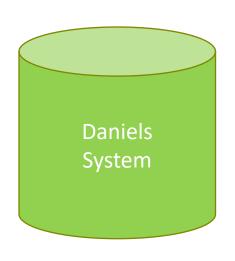
Model Based Team collaboration using strategies from Software Engineering.

I create a Model





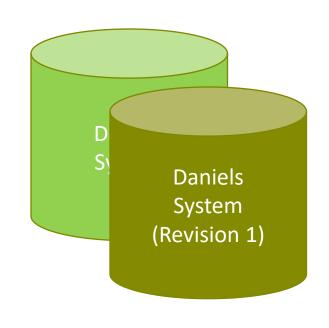
l am done – testers wants a copy l start an update



Daniels System (Stakeholder COPY)



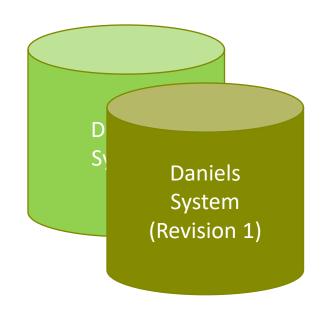
I need to do a variation for some one else

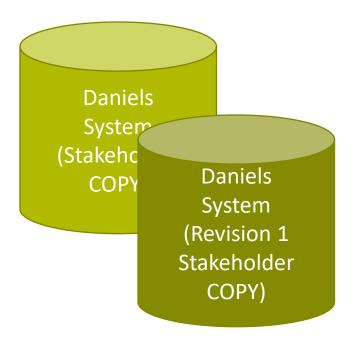


Daniels System (Stakeholder Copy)



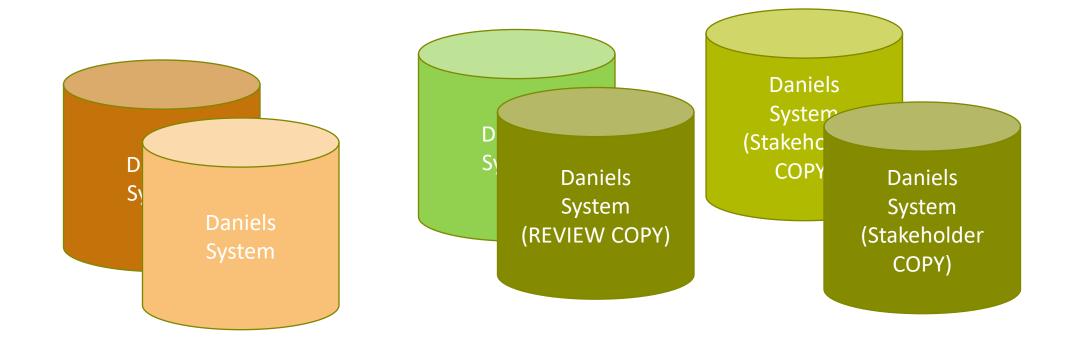
They got an IT too



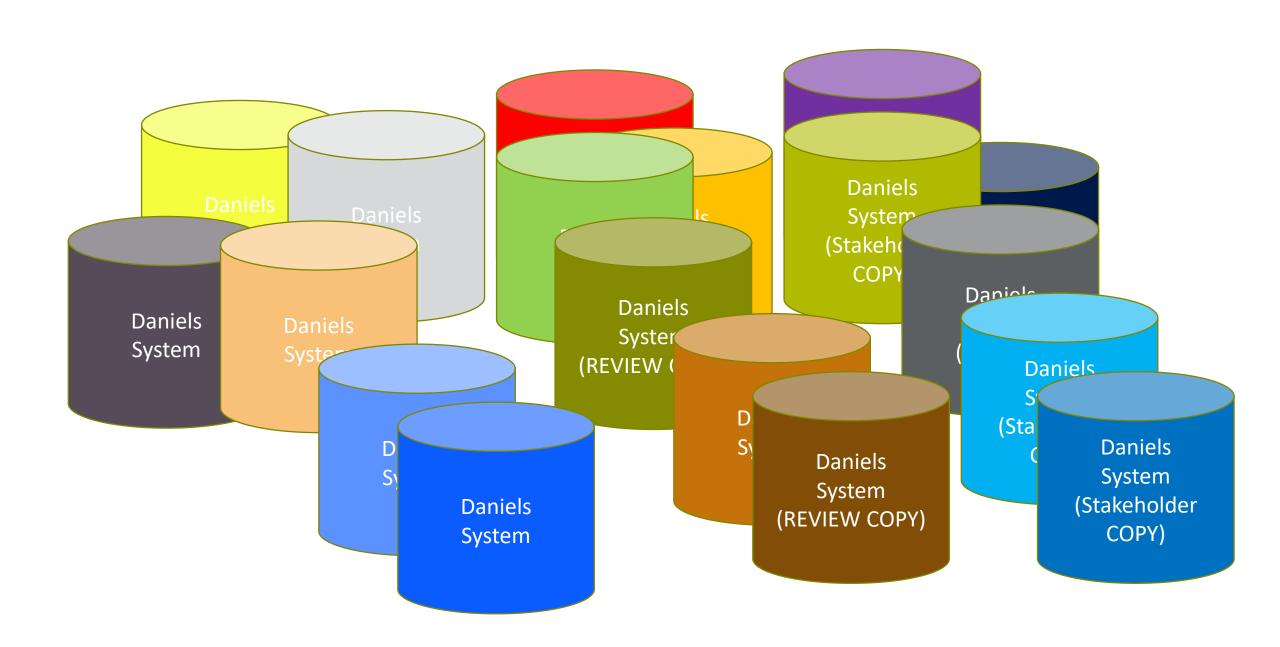




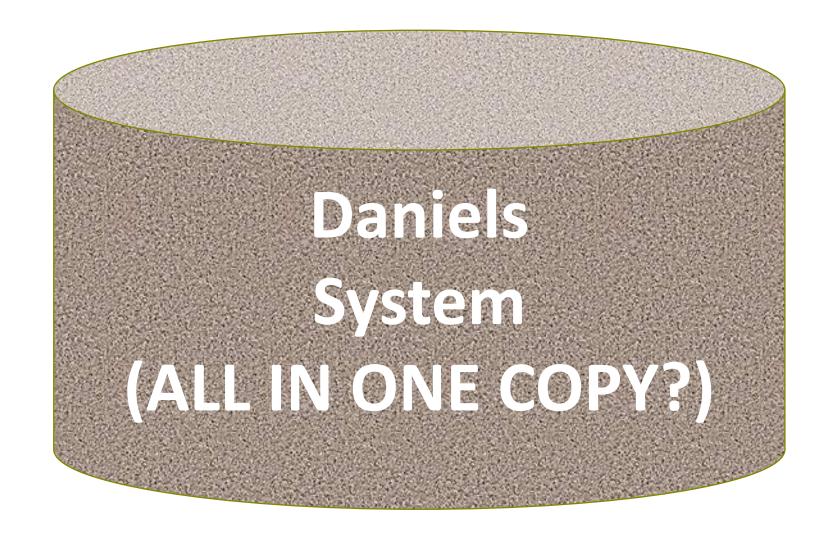
And now they want to review the stuff I did







One truth? Really? — History?



Problem Statement

- "Trunk" only not feasible for systems
- Agility also needed in MBSE to meet goals
- Complexity of Cyber-Physical Systems
- Manage Model quality in distributed Teams

- Cross company projects on shared IP
- Digital Twin and the dead meat...



Modeling Collaboration User Requirements

- It should be easy to release Models
- It shall be possible to view and modify past versions of the Model
- It shall be possible to evaluate alternative scenarios
- It shall be possible to give new users a sandbox
- Stake holders shall only be able to access "Staging/Review" and "Production" Models
- Stake Holders need to be able to consume and review the model via a Web browser



I need a ROBOT





Engineers have Robots!

"The first real version control system goes back to 1972 when a Source Code Control System (SCCS) started getting developed by Marc J. Rochkind at Bell laboratories as a set of commands developed for OS/MVT, and later on UNIX."







Some of our 200+ global Users....





Start task

Create branch

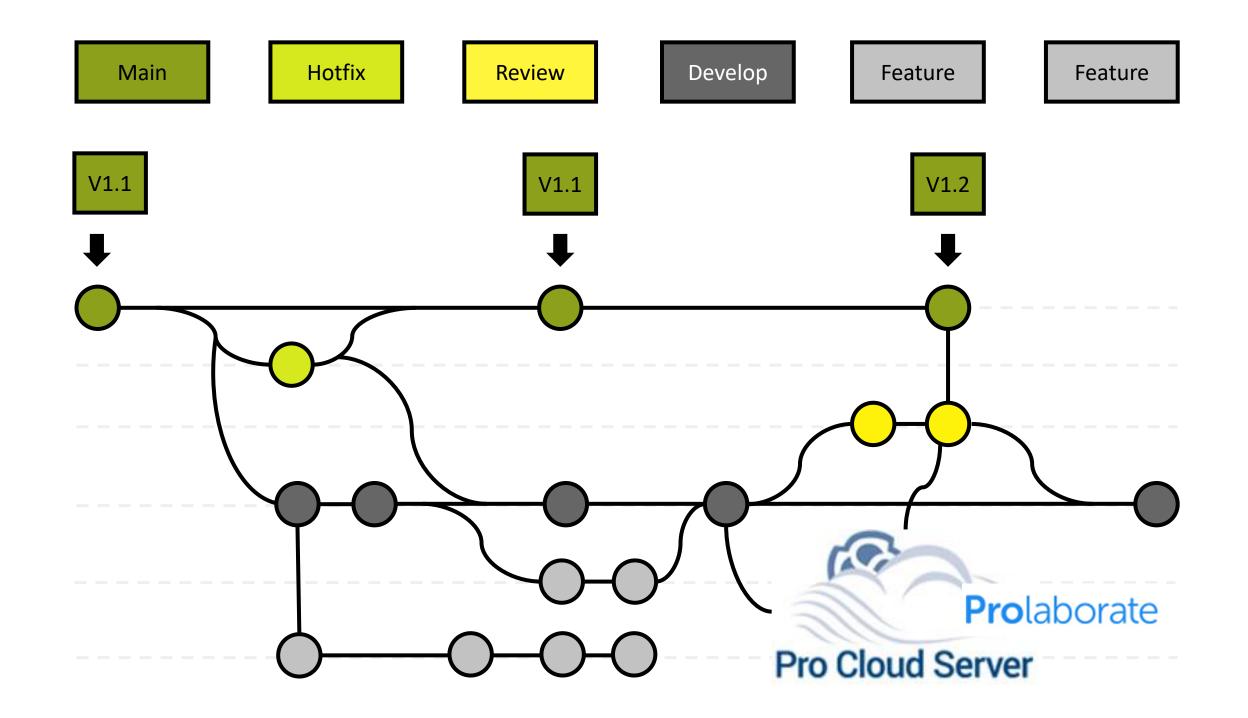
Modfiy model

Commit changes

Review & Validate

Finish (merge)

Publish





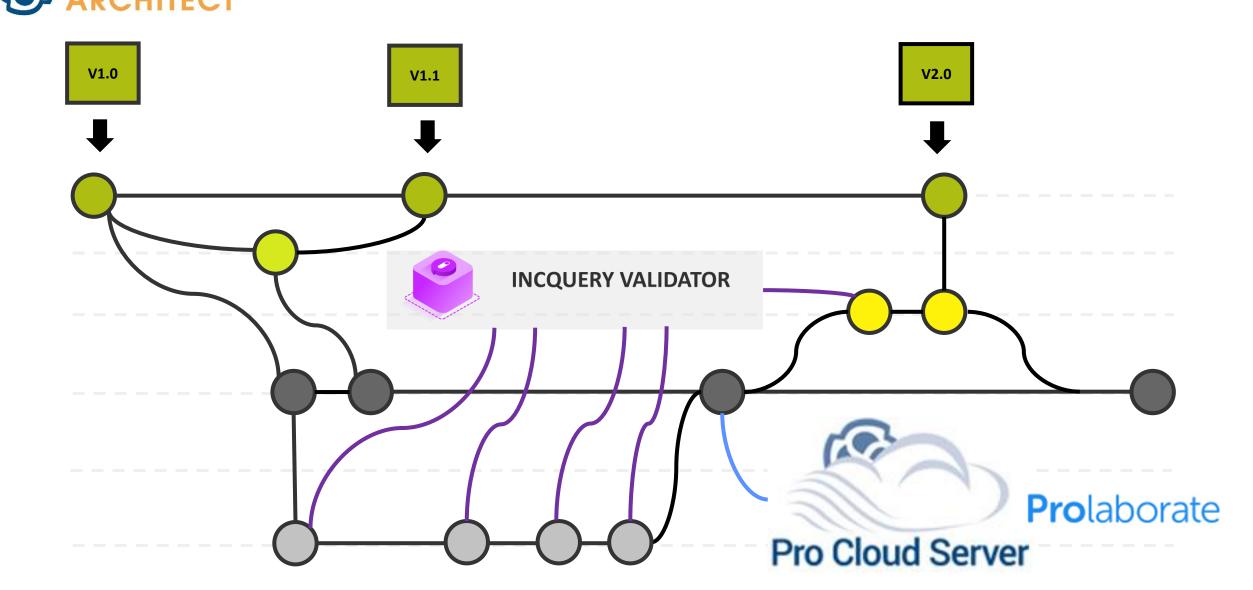
Main

Hotfix

Review

Develop

Feature



DON'T SAY AGILE

IF YOU CAN'T MERGE YOUR MODELS

Start task

Create branch

Modfiy model

SENTERPRISE ARCHITECT

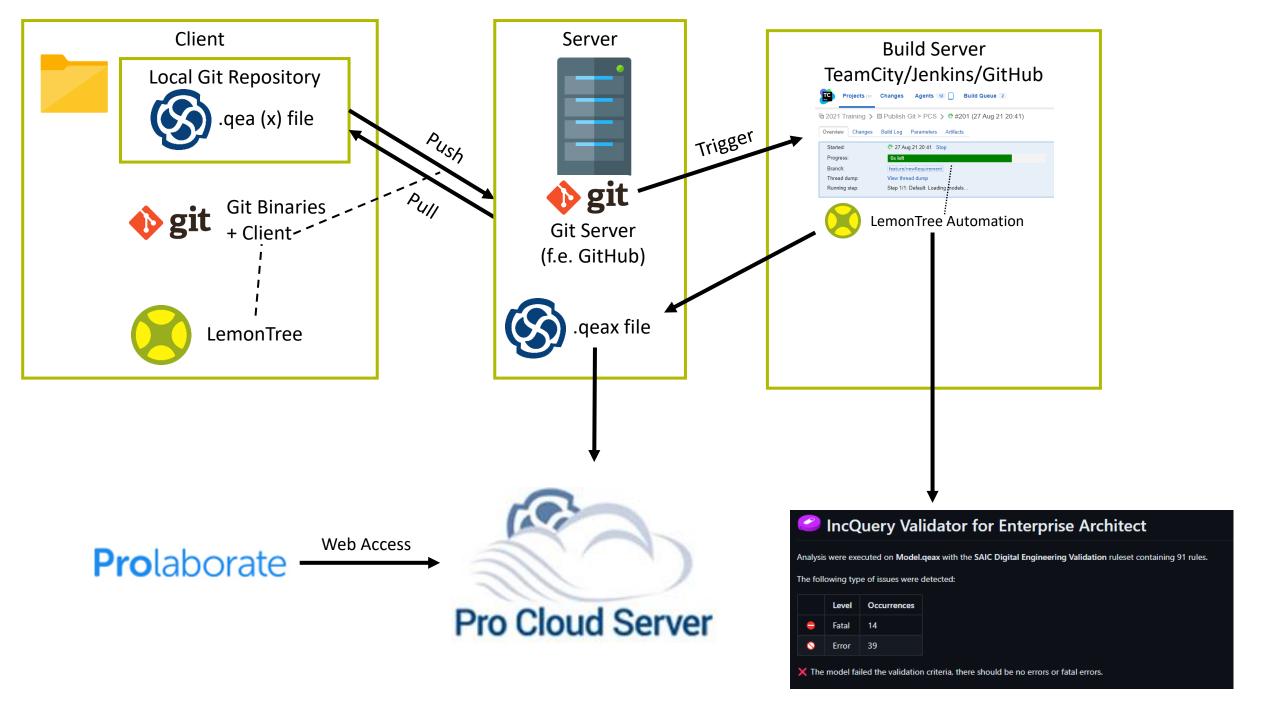
Commit changes





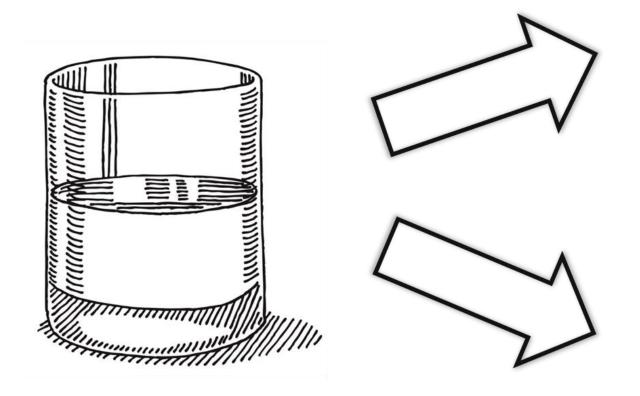


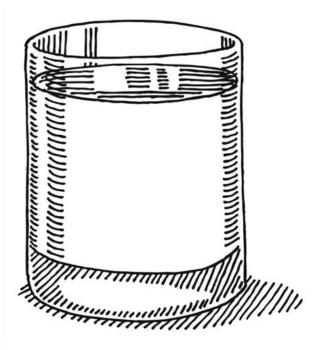


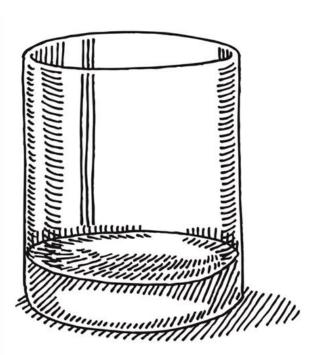


DEVIOPS

ISN/TIT?







"Social" Benefits

- New users can work in a sandbox easy to mentor and review
- Only "finished" models are published for Stakeholders/Reviewers
- Easy to revert changes
- If a Feature is discarded/postponend there will be no "dead meat" in the "main" model
- Culture of visible measuring improves quality and transparency



Conclusion

- Established workflows from SE for modeling
- Agile team collaboration based on branching
- Agile (cross) team collaboration based on Model Components
- Consistent development state due to precise versioning
- Perfect triggers for peer reviews
- Publish/Release consistent models to Stakeholders

#XMIISDEAD



LemonTree 4.0





Model Based Team collaboration using strategies from Software Engineering.