



SESSION ID: AL1277C

SCALING AGILE ON A COMPANY LEVEL WITH A FULLY INTEGRATED PTC CODEBEAMER

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WHAT TO EXPECT TODAY

- Follow Veoneer along their path with ALM
- Learn and understand why ALM alone is not enough
- See an ALM solution integrated into an IT Tool landscape
 - Focus on Scaling Agile
- Learn about the benefits of an integrated IT Tool landscape

HISTORY OF CODEBEAMER AT VEONEER

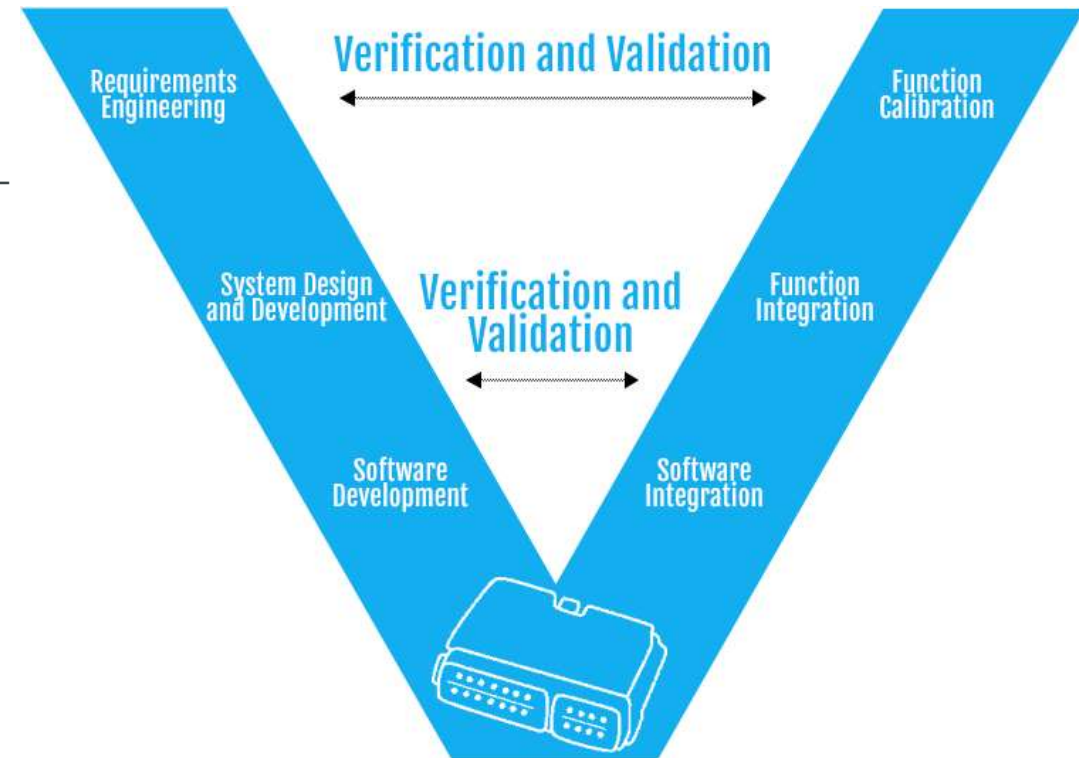
Identify need and selection process

■ Next Gen Tooling Need:

- Veoneer undergoes a push for modernized tools in 2018
- Identified need for a 'backbone' platform to support the electronic v-cycle methodology
- Identified modernized feature sets:
 - Distributed ownership of access, data, project control
 - Modernized interface and technology
 - Worldwide collaboration
 - Best in class performance

■ Selection Process:

- Internal team of engineers and end users on selection team
- Investigated multiple ALM commercial platforms
- Developed selection criteria and scorecard
- IT and service administrators **not** involved in selection process



HISTORY OF CODEBEAMER AT VEONEER

Development and Configuration

■ Initial Development

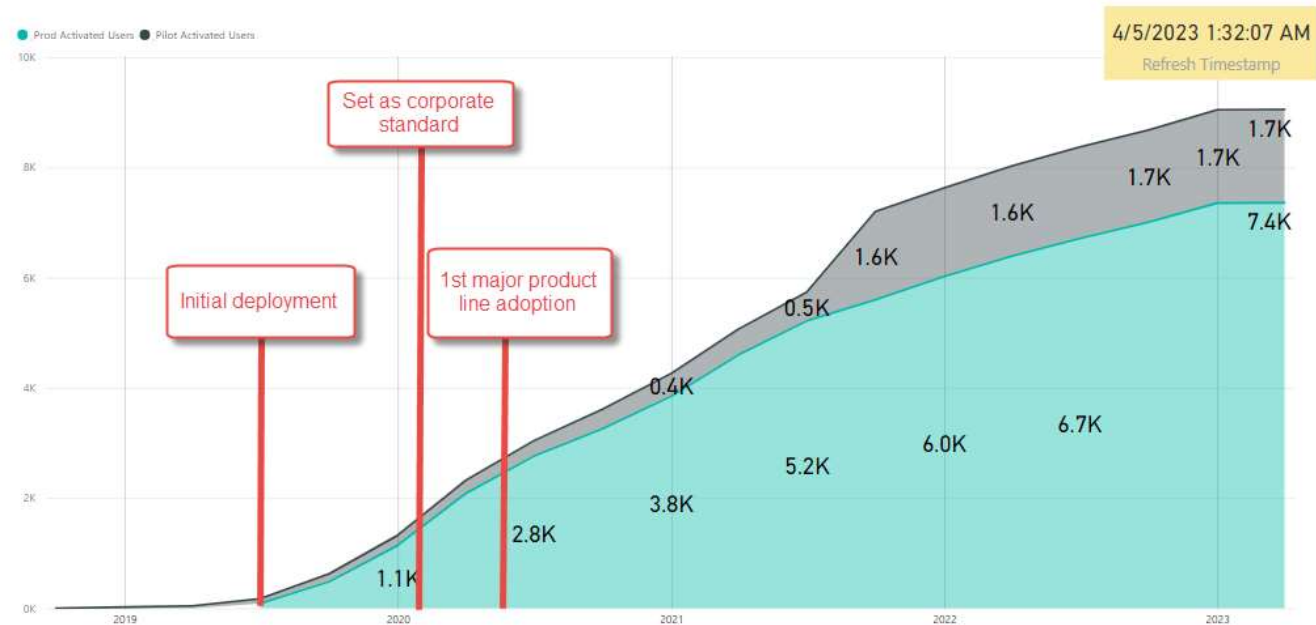
- Established initial platform in record time
- Built first template and deploy within 16 weeks
- Initial customizations:
 - Bridge into legacy requirements platform
 - Bridge into PTC RV&S SI platform
 - Import/export of data sets
 - Branching/Working Sets scripting
 - Custom Trackers:
 - Review
 - Documents
 - Risks
 - Quality Control (process audits)

HISTORY OF CODEBEAMER AT VEONEER

Deployment

■ Deployment

- Pilot server established, end user introduction, initial training: 2018
- Production server buildout: mid-2019
- User adoption starts fall of 2019
- Set as corporate standard, Jan 2020
- Most successful tool deployment in corporate history



HISTORY OF CODEBEAMER AT VEONEER

Life at Veoneer, 3 years later: Teams want more of a good thing.....

■ Ongoing Usage:

- Used for requirements management, design, architecture, verification, project management, issue management
- Main backbone to the entire corporate WOW process
- Replaced 3 major platforms, reducing costs
 - Licensing
 - Training/learning curve
 - Infrastructure
- Established and mature corporate template for teams to start their projects with
- Constant scaling – expanding usage of trackers, wiki-pages, reporting, etc.
- Expanded usage of dashboards and widgets.

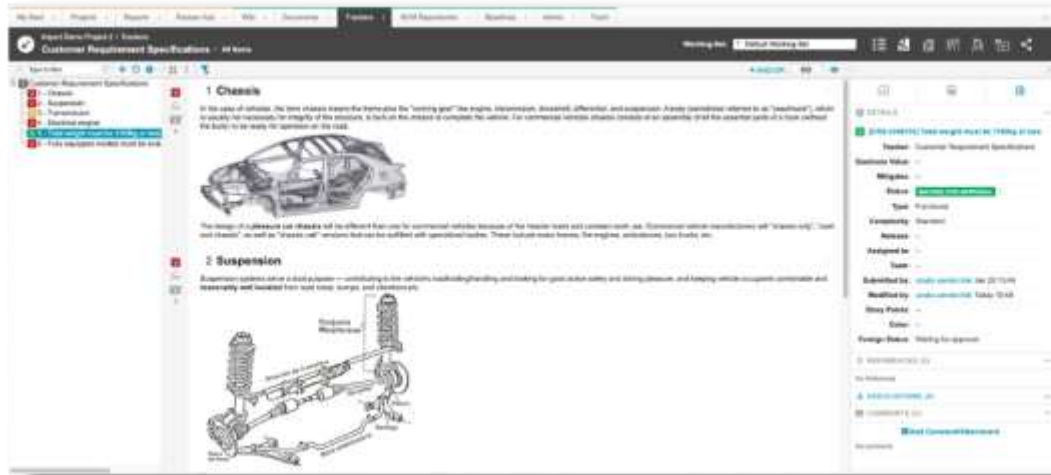
■ Additional needs:

- Expanded Agile views and reporting. Expanded KanBan boards, Agile metrics, Trending, and analytics requested. codebeamer not advertised as a reporting tool. It is not advertised as an Agile solution. Expanded capability in this area requested.
- Gantt chart/resourcing reporting. Teams need planning tooling, customized per project, per team.

CODEBEAMER, BUT NOT ALONE



AGILE, NO OTHER WAY OF WORKING



- PTC Codebeamer
 - State of the art ALM platform
 - No enterprise agile platform
 - Good for agile on team level

■ Nanga Systems Integration

- Custom built
- Bidirectional
- Configurable



■ Apptio Targetprocess

- Enterprise agile platform
- SAFe and other methodologies
- Capacity management
- Enterprise reporting



DEEP DIVE INTO THE INTEGRATION

- Immediate object sync (here: PI, sprint, feature, user story)
- Linked objects and assignments
- Prioritization based on WSJF
- Capacity planning and PI Planning preparation
- PI Planning (also for other tools/projects/teams) including capacity and conflict handling

Features WSJF

Find entities by text or id

+ Add

Filter cards

ATPCB (9 items) Any Year [Agile Release Train] Filter is OFF Not assigned

FEATURES	Entity Type	ID	Items	Program Increment	WSJF	User Business Value	Time Criticality	RR, OE Value	Job Size	State	Estimate	Effort	Epic
> ADActive cruise control	FEATURE	276629			24.5	40	1	8	2	Backlog	15 (1)	15 (1)	
> Lane departure warning	FEATURE	276642			10	13	2	5	2	Backlog	20 (1)	20 (1)	
> Collision avoidance	FEATURE	276647			5.63	20	20	5	8	Backlog	15 (1)	15 (1)	
> Automatic parking	FEATURE	276650			6.15	20	20	40	13	Backlog	25 (1)	25 (1)	
> Traffic jam assist	FEATURE	276653			4.88	13	13	13	8	Backlog	20 (1)	20 (1)	
> Blind spot monitoring	FEATURE	276656			3.6	13	3	3	5	Backlog	20 (1)	20 (1)	
> Emergency braking	FEATURE	276660			3.67	8	2	1	3	Backlog	5 (1)	5 (1)	
> Pedestrian detection	FEATURE	276663			3.33	5	3	2	3	Backlog	25 (1)	25 (1)	
> Rearview camera	FEATURE	276666			3	3	2	1	2	Backlog	5 (1)	5 (1)	

1

1 - 9 of 9

Entities per page 20 50 100

codeBeamer codeBeamer Application Lifecycle Management (ALM)

My Start Projects Reports Review Hub WIM Documents Trackers SCM Repositories

ATPCB Bjam Trackers #3875623

Type to filter

- Work Items
 - Releases (3/3) Yesterday 10:41 RELEASE
 - Tasks (0/0) TASK
 - Features (0/0) Today 10:14 EPC
 - User Stories (0/0) Today 09:59 US
 - Teams (0/0) May 02 22:30 TEAM
 - Customer Requirement Specifications (0/0) CRQ
 - Change Requests (0/0) CRQ
 - Test Runs (0/0) TESTRUN
 - Timekeeping (0/0) VLOG
 - System Requirement Specifications (0/0) SRS
 - Bugs (0/0) BUG
 - Risks (0/0) Risk
- Config Items
 - Test Sets (0/0) TESTSET
 - Test Cases (0/0) TESTCASE
 - Test Configurations (0/0) TESTCONF
 - Contacts (0/0) CONTACT

My Reviews

Nothing found to display

Requirements by Status Requirements by Release Release Activities

Version Release

PI 1 - 2023 due in 4 days (1)

PI 1 - 2023 due in 2 iterations (1)

PI 1 - 2023 due in 4 iterations (1)

Unscheduled

Activity Stream

Today 10:00

ADActive cruise control multiple changes by admin

Field modifications

Today 10:14

Today 10:12

Today 09:57

Yesterday 20

Yesterday 20

Yesterday 20

Yesterday 20

Yesterday 20

Yesterday 20

Today 09:00

Collision avoidance multiple changes by admin

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BENEFITS OF A FULLY INTEGRATED CODEBEAMER

- **General:**
 - Increased transparency
 - Reduced manual effort
 - Faster data updates
 - Freed up time from engineer to focus on more complex topics

- **Veoneer and Targetprocess specific:**
 - Team collaboration – 20 people working in parallel on a kanban board
 - Advanced Gantt charts
 - Configurable dashboards for large scale collaboration
 - Visualized agile data from a Program Increment (PI) view
 - Easy to use visualization of task/story/sprint dependencies

WHAT NOW?

- Your takeaway:
 - Never look at one tool alone only, integrate where it makes sense
 - Scaling agile is the new agile
 - Nanga Systems expertise and involvement is key to project success
 - Questions or maybe in a similar situation as Veoneer – reach out to us, we’re here to help

Case Study



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