



LIVEXWORX

A NEW ERA IN PRODUCT LIFECYCLE INNOVATION

SESSION ID: PL1117B

PROVIDING REAL-TIME DATA ACCESS FOR VALUABLE, ENTERPRISE, COLLABORATION

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May 18, 2023

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AGENDA

- TWX Navigate Strategy
- Investment Themes
- Roadmap
 - Where we've been
 - Where we are
 - Where we're headed

PRODUCT DATA ACCESS FOR COLLABORATION



Primary PLM Users

Full Access and Skills for daily work in Windchill



Extended PLM Participants

Simplified View or Contribute Access (daily or occasional)



Remove Collaboration Barriers

- **Manual Exports** on demand (slow, error prone)
- **Printouts** and paper plots (quickly outdated)
- **Incomplete** data and functionality for the Job-to-be-done



Extend the Digital Thread

- **Role and Task-based Apps** (on-demand for the job)
- **Online Access** to PLM and other Content (up-to-date)
- **Multi-System data** and workflows (full context view)

DEMOCRATIZE PLM IN THE ENTERPRISE



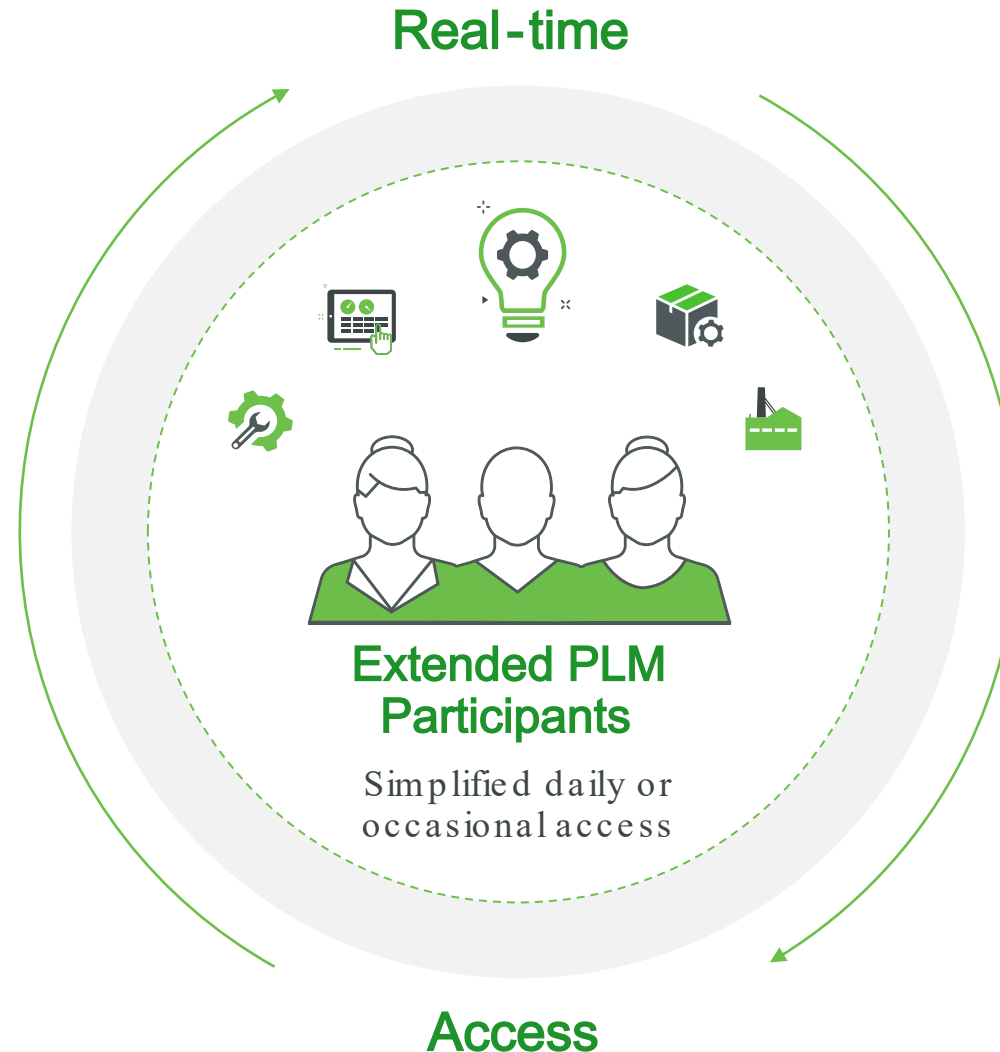
View

Easily find, view, access and download PLM content including 2D and 3D view



Contribute

Task-based *active* PLM process participation: Report Problems, Review Changes, etc.



Connected PLM



Additional tasks with custom apps including pre-fabricated UI components and connectivity to Windchill & 3rd Party Systems

STRATEGIC THEMES FORTHINGWORX NAVIGATE

Continuing to build on mission of role and task-based apps to extend PLM content across the enterprise

View App Modernization



Standardize on Windchill REST Services & Navigate components

Windchill+



SaaS infrastructure to support implementations, upgrades, IAM, & Connected PLM custom application modernization

Interoperability



Versioning with ThingWorx, WRS, Windchill, & other 3rd party software

Performance & Scalability



Responsiveness & flexibility to scale across large user bases

New App Development

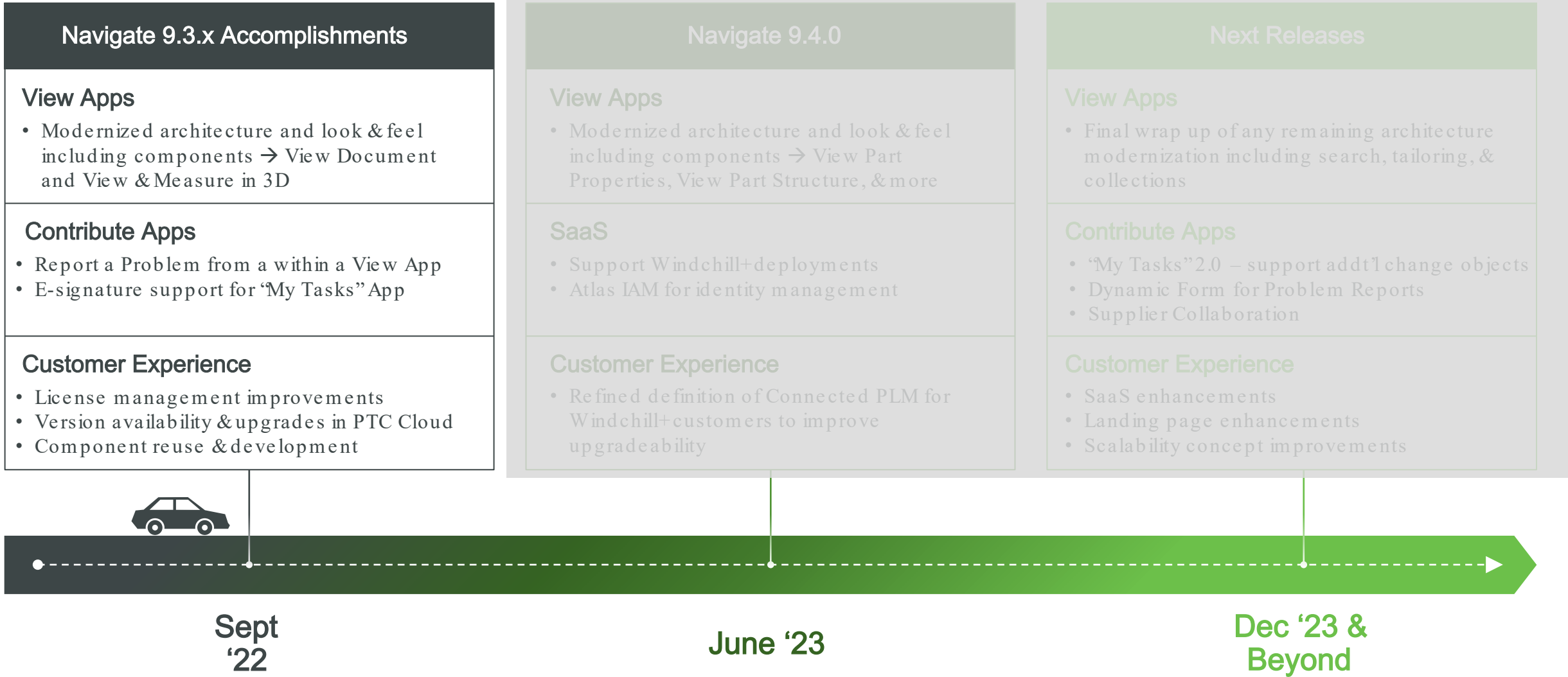


Apps to support new use cases or increase adoption of additional extended PLM users



WHERE WE'VE BEEN

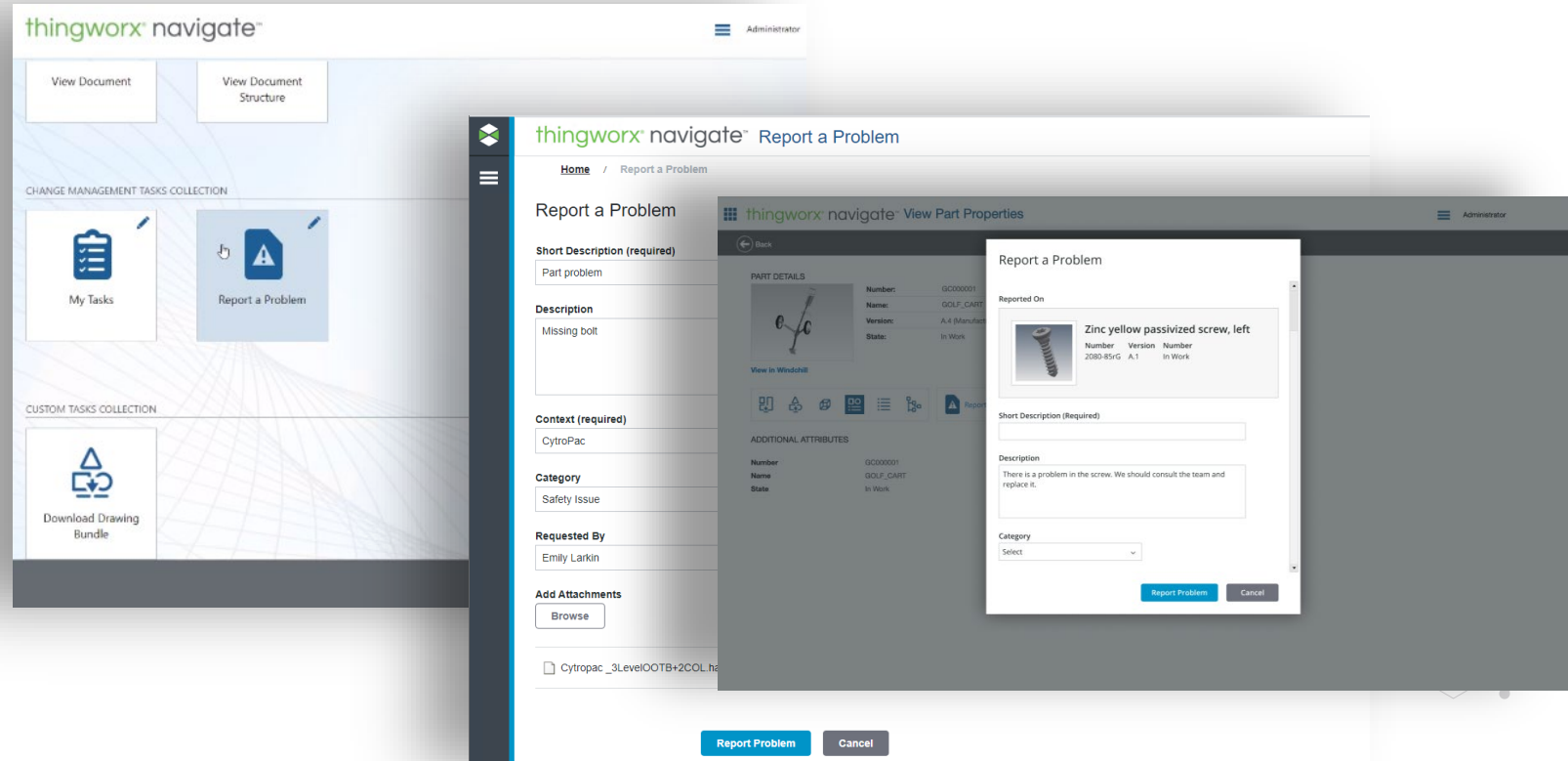
NAVIGATE | ROADMAP & PRIORITIES



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THINGWORX NAVIGATE: REPORT A PROBLEM

- Report issues right upon detection
- Easy-to-use UI, no end-user training
- Role-specific Tailoring for context and more
- Describe, Categorize, and Add Attachments



Benefits

Improve product and process **quality**

Directly connected to PLM Change Management process

Online collaboration across departments

REPORT A PROBLEM FROM WITHIN A VIEW APP

thingworx navigate View Part Structure Administrator

Back

PART DETAILS

Number: R901500201.ASM
Name: CYTROPAC-1X/20/AF...
Version: A.1 (Design)
State: In Work

View in Windchill

Report a Problem

3D VIEW

PART STRUCTURE

Number	Name
~ R901500201.ASM	CYTROPAC-1X/20/AF4AS04/2/PYWD /1/703E_
0517215301_LIB.PRT	AZPS-11-004LNT20MB-90002
0517515303_LIB.PRT	AZPS-11-014LNT20MB-90002
2910151201.PRT	2910151201.prt
8103010024_LIB.PRT	PIPE NUT DIN431-A-03/4-14H
8981021013_LIB.PRT	SHOULDER SCREW ISO7379-8X25
R900024578.PRT	r900024578.prt
R901342026_LIB.PRT	HM-20-2X/250-C-835
~ R901451694.ASM	DREHSTROMMOTOR 2,2KW CYTROPAC

thingworx navigate View Part Properties Administrator

Back

PART DETAILS

Number: GC000001
Name: GOLF_CART
Version: A.4 (Manufact...
State: In Work

View in Windchill

Report a Problem

Reported On

Zinc yellow passivized screw, left

Number	Version	Number
2080-85rG	A.1	In Work

Short Description (Required)

Description

There is a problem in the screw. We should consult the team and replace it.

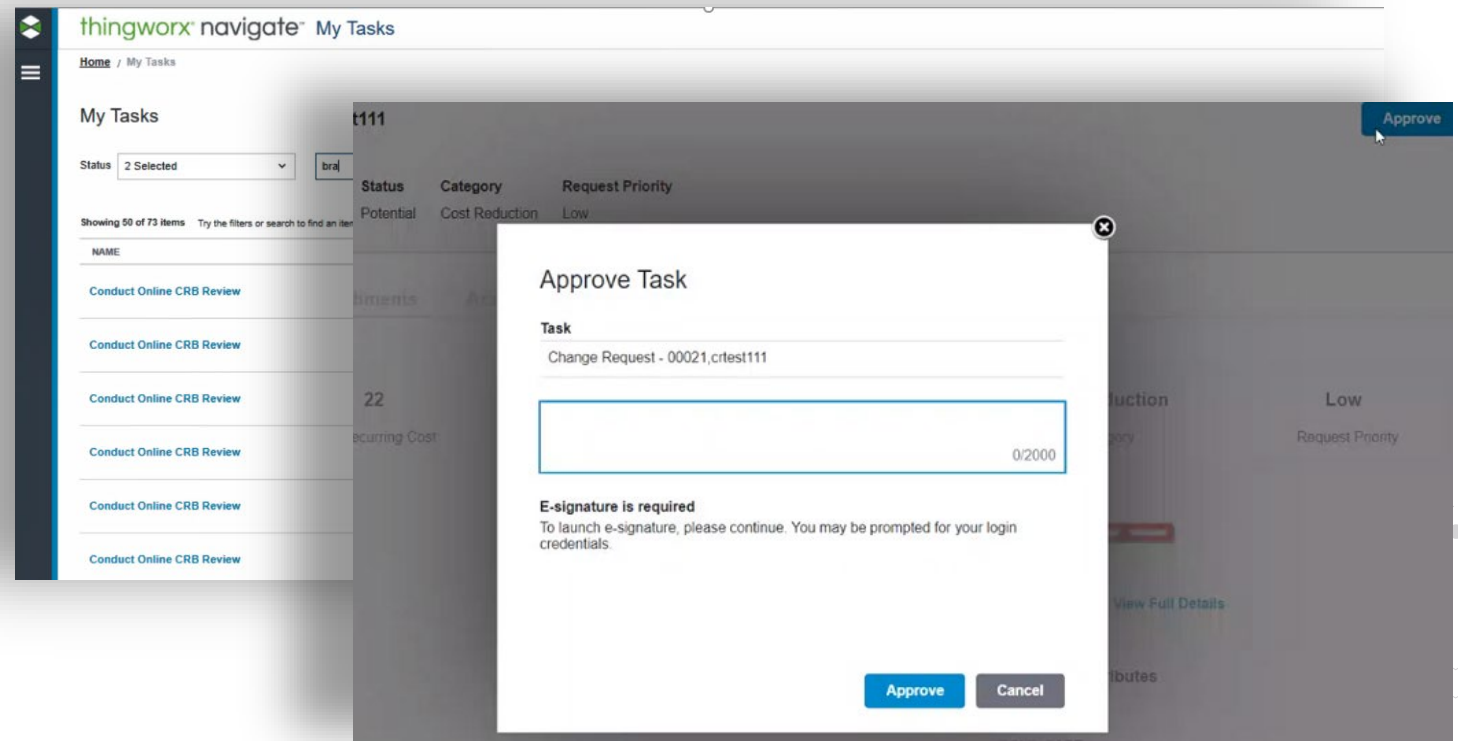
Category

Select

Report Problem Cancel

THINGWORX NAVIGATE: MY TASKS WITH E-SIGNATURE

- Review & approve Change Requests with *My Tasks*
- E-Signature managed in Windchill for complete audit trail
- Reusable component for additional use cases / apps



Benefits

Approve critical changes in **regulated industries**

Reduce cycle time for change approvals

Improve **visibility** with more **stakeholder engagement**



WHERE WE ARE – TWX NAVIGATE 9.4.0

NAVIGATE | ROADMAP & PRIORITIES

Navigate 9.3.x Accomplishments

View Apps

- Modernized architecture and look & feel including components → View Document and View & Measure in 3D

Contribute Apps

- Report a Problem from a within a View App
- E-signature support for “My Tasks” App

Customer Experience

- License management improvements
- Version availability & upgrades in PTC Cloud
- Component reuse & development

Navigate 9.4.0

View Apps

- Modernized architecture and look & feel including components → View Part Properties, View Part Structure, & more

SaaS

- Support Windchill+deployments
- Atlas IAM for identity management

Customer Experience

- Refined definition of Connected PLM for Windchill+customers to improve upgradeability

Next Releases

View Apps

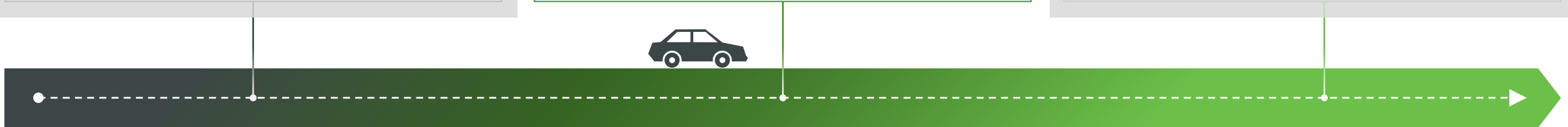
- Final wrap up of any remaining architecture modernization including search, tailoring, & collections

Contribute Apps

- “My Tasks” 2.0 – support addt'l change objects
- Configurable problem reports with dynamic form

Customer Experience

- SaaS enhancements
- Component based app adoption
- Use Case research



Sept '22

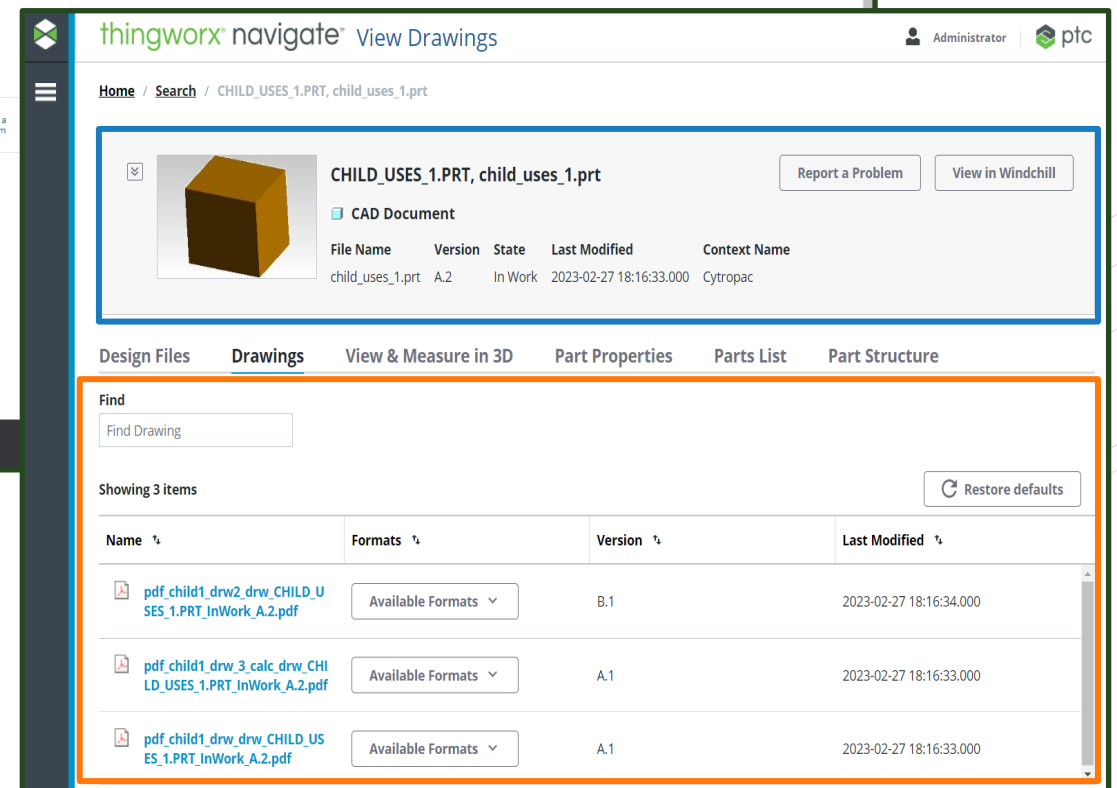
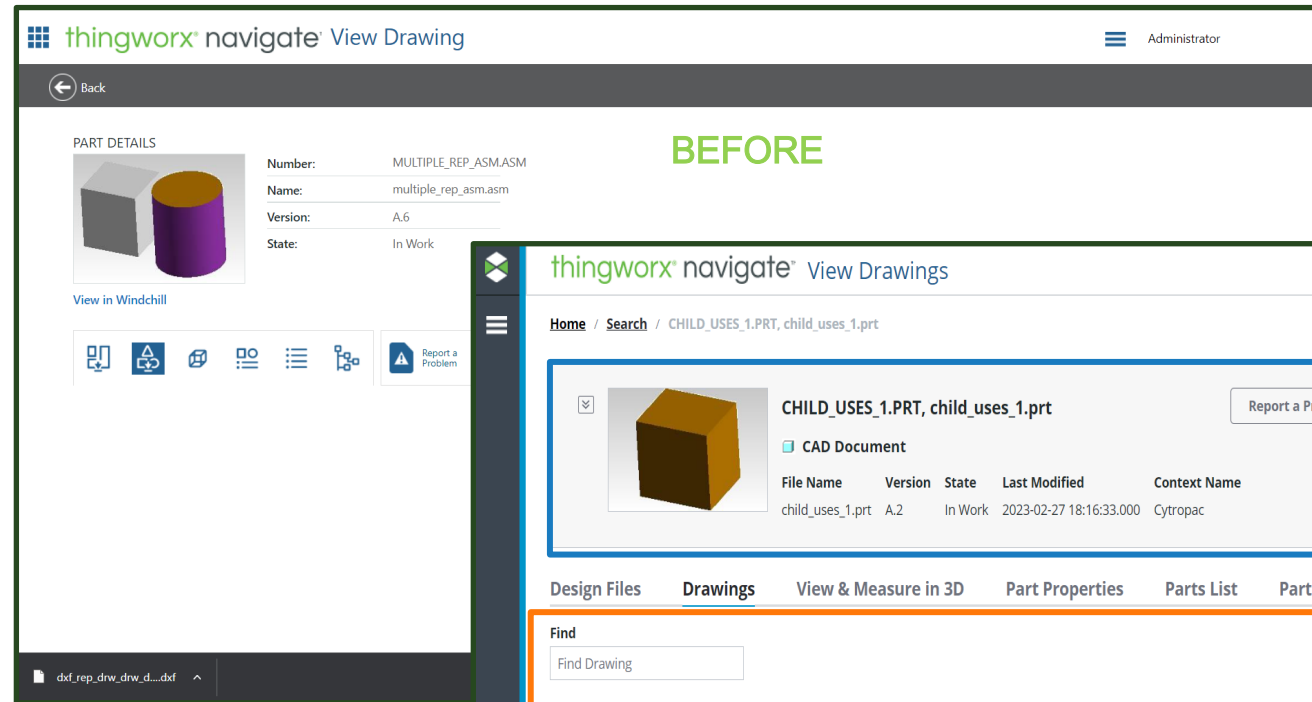
June '23

Dec '23 & Beyond

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VIEW APP MODERNIZATION

- Multi-release effort to update View Apps to **component-based apps**
- Modernize architecture with move from Swagger to **OData (WRS)**
- Increase component reuse for **consistency & standardization**



windchill+™ INCLUSIVE OF NAVIGATE

World Class Security

Certifications, compliance, audit, pen testing, environment scanning

Open Architecture

Standards-Based integrations & data flow (OSLC, REST, STEP)

OOTB

Configurable, best practice processes

Seamless Transition

Industrialized methodology to upgrade and de-customize



Windchill for everyone, everywhere delivered as a pre-configured secure service ready to jump start product development and digital thread needs on PTC Atlas.

- Simplified role focused user packages to accelerate value **View & Contribute supported with ThingWorx Navigate**
- Frictionless expansion of PLM Capabilities
- Streamlined Implementation experience and best practices for extending and integrating with Windchill+
- Always on the latest version & compatibility with PTC products – **redefined Connected PLM to support upgradeability**



Fast time to value

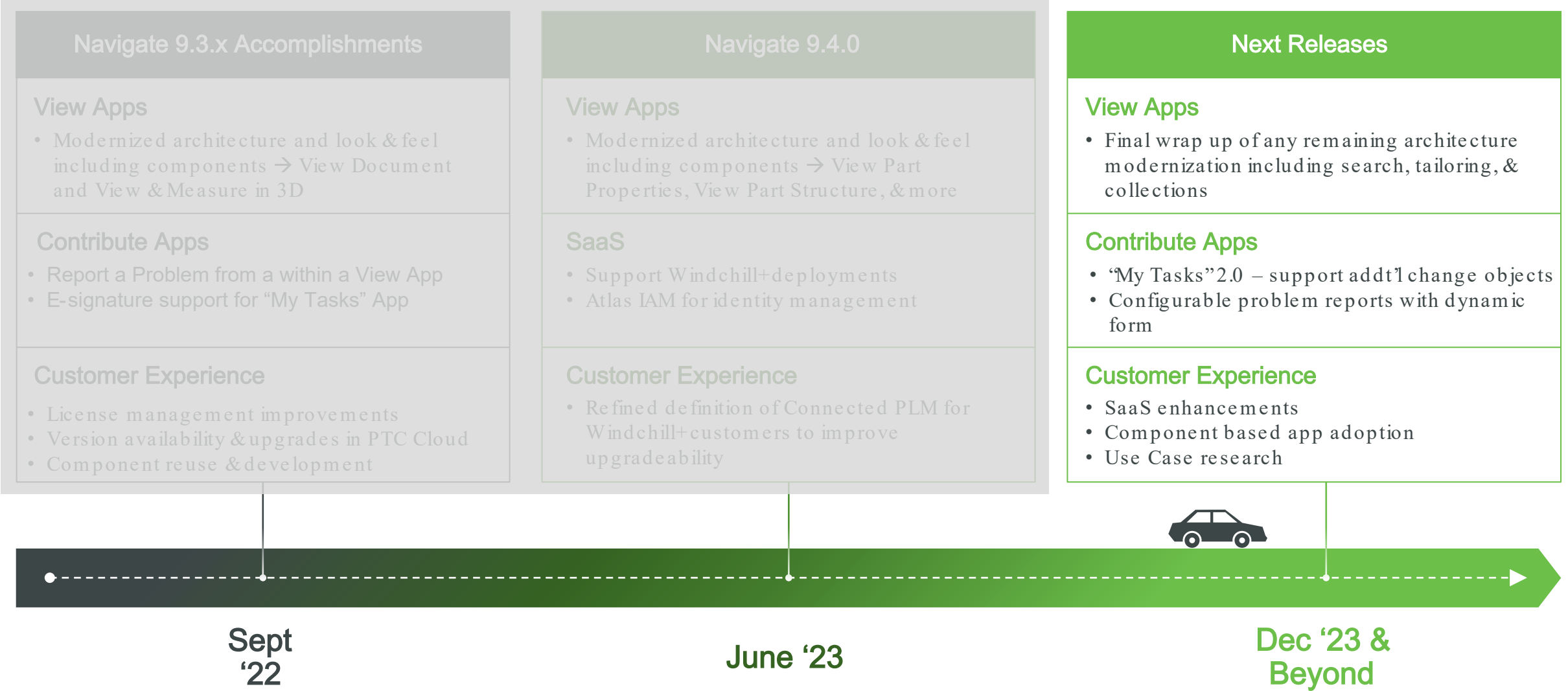
Reduce IT TCO

Reduce Program and Support Risk



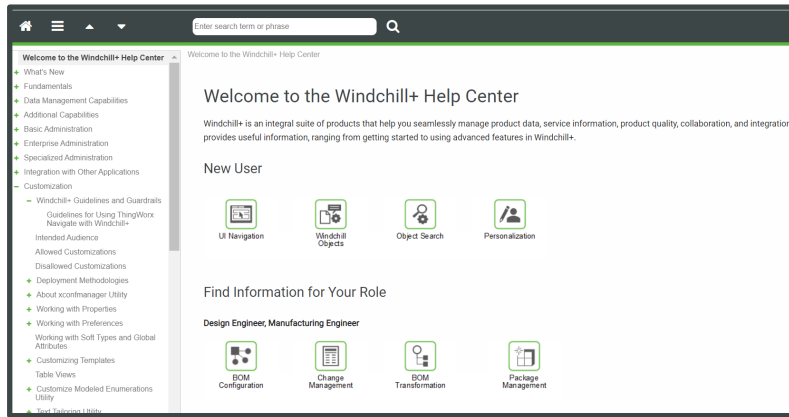
WHERE WE'RE HEADED

NAVIGATE | ROADMAP & PRIORITIES

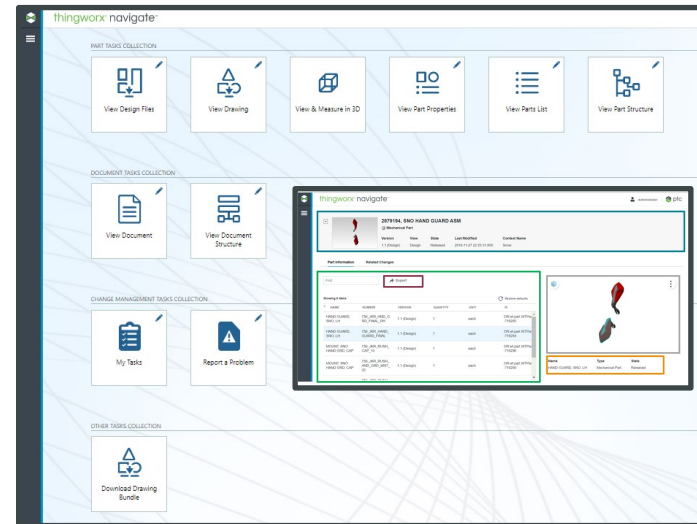


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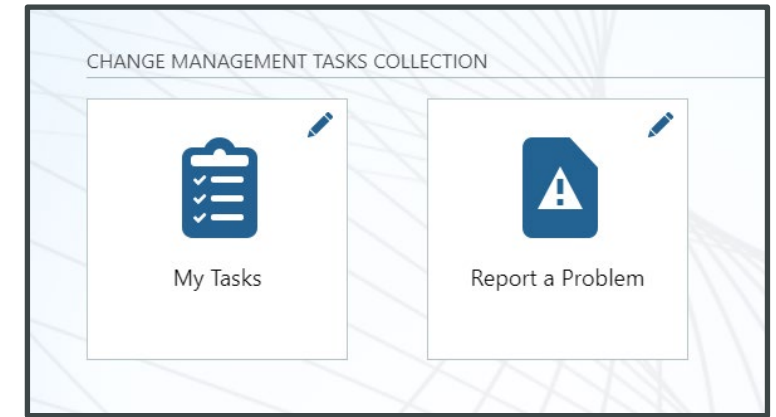
BUILDING ON OUR FOUNDATION TO CONTINUE GROWTH



View Apps



Contribute Apps



- Expanded Connected PLM guide lines over time as product & platform **supportability** grows
- **SaaS** customer experience

- Complete View **App Modernization**, inclusive of tailoring & search
- Reuse, enhance, & develop **Navigate components**

- Enhance My Tasks with **Change Notice tasks**
- Configurable **problem reporting**

WHAT OPPORTUNITIES ARE WE EXPLORING?

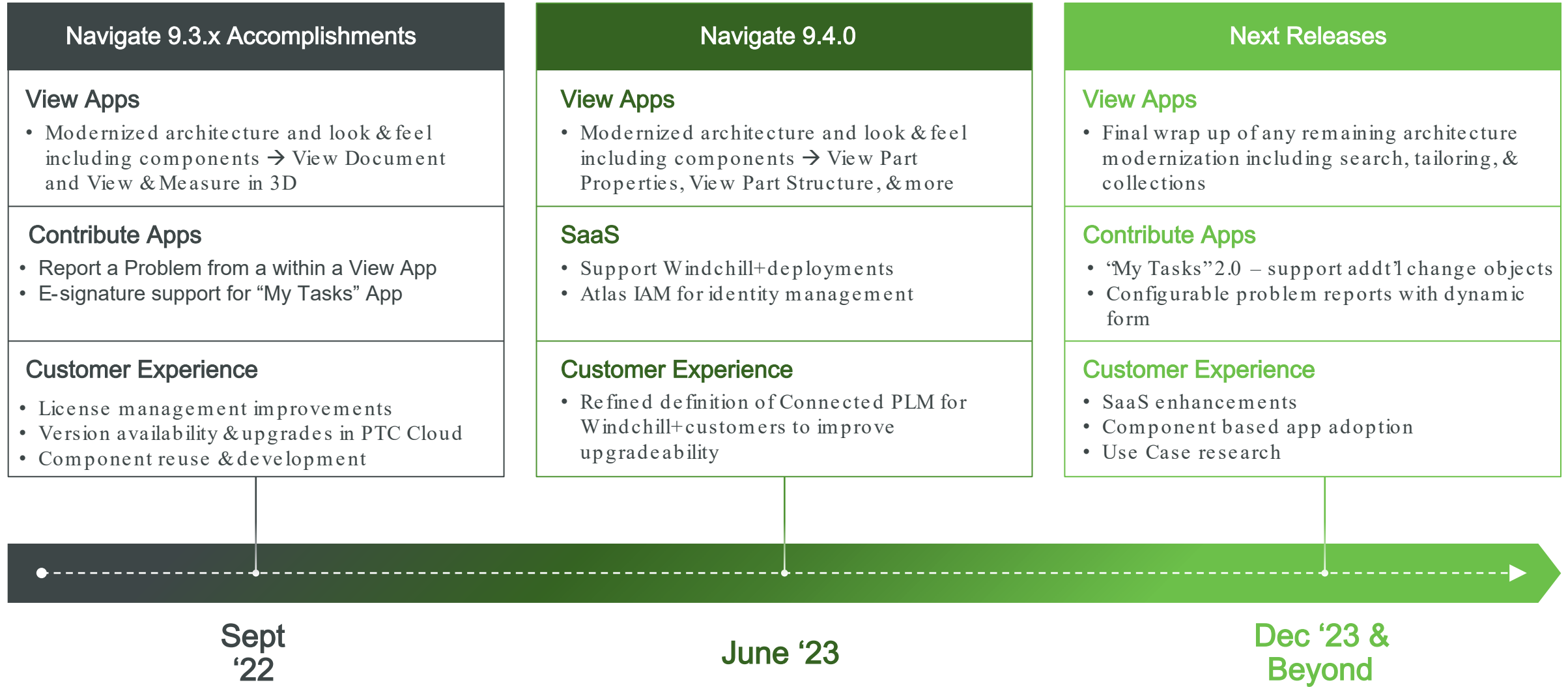


Supplier
Collaboration

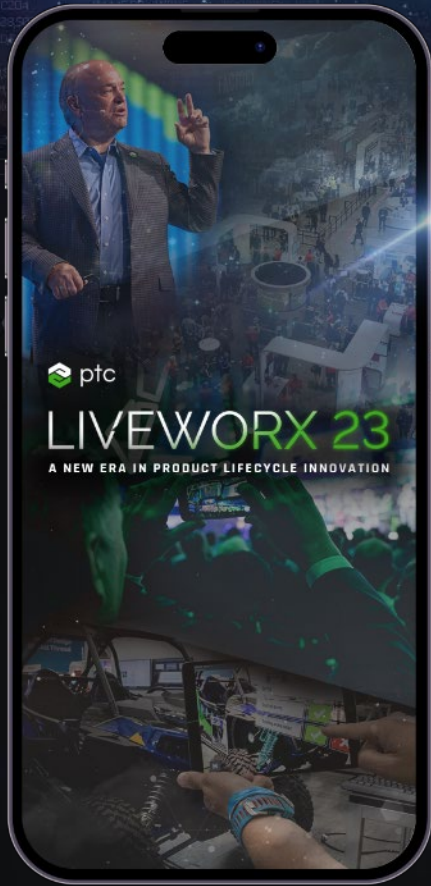
Non-Conformance
Reporting

Service Parts & Docs

NAVIGATE | ROADMAP & PRIORITIES



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PROVIDE SESSION FEEDBACK



QUESTIONS?

Thank you! You can find me at:



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<https://www.linkedin.com/in/emily-larkin-hartman>



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