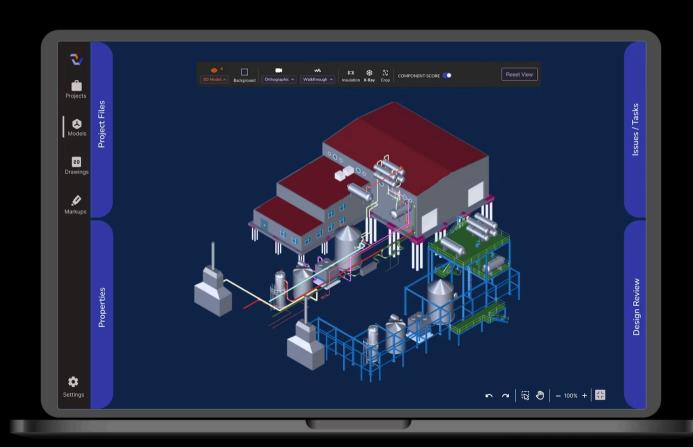
# Increasing Adoption Through Integrating New Features

**PlantVision** 

B2B | SaaS

2023



#### What is PlantVision?

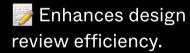
PlantVision is a cloud-based tool designed for AEC(1) professionals to manage Plant 3D(2) projects. It offers a range of features and capabilities to streamline the project management process and improve collaboration among team members.

- (1) AEC: The Architecture, Engineering, and Construction services
- (2) Plant 3D is an Autodesk application targeted to the design and layout of process plant facilities.

#### What does PlantVision do?

Centralizes Plant 3D project files from multiple platforms(1) in the cloud.

Facilitates stakeholder collaboration, regardless of tools.



Minimizes AEC project rework.

### Who are PlantVision users?







#### Designers

Contributing to Plant 3D projects, their expertise lies in concept development, schematic design, and construction documentation.

Engineers | Checker

Reviewing 3D models and 2D drawings with a focus on enhancing project quality.

#### Project Managers

Improving team efficiency by overseeing projects, clarifying goals, streamlining timelines, and cutting costs

### What are the problems?

Despite PlantVision's potential, it encountered challenges in adoption due to a lack of critical features for the user base. On the other hand, some features needed improvements in key usability areas such as:

- Efficiency of use
- Lack of consistency
- Unclear information architecture
- Invisible system status
- Lack of error prevention

### Design Challenges

The design challenge was mainly about the legacy systems and the inconsistent flows which made it difficult to integrate new features in the existing product.

#### Goal

Discovering and introducing new essential features for users and improving the usability of existing features with the goal of increasing adoption rate.

### Project Overview

#### My role

Senior Product Designer

 As a key part of the discovery & solution processes.

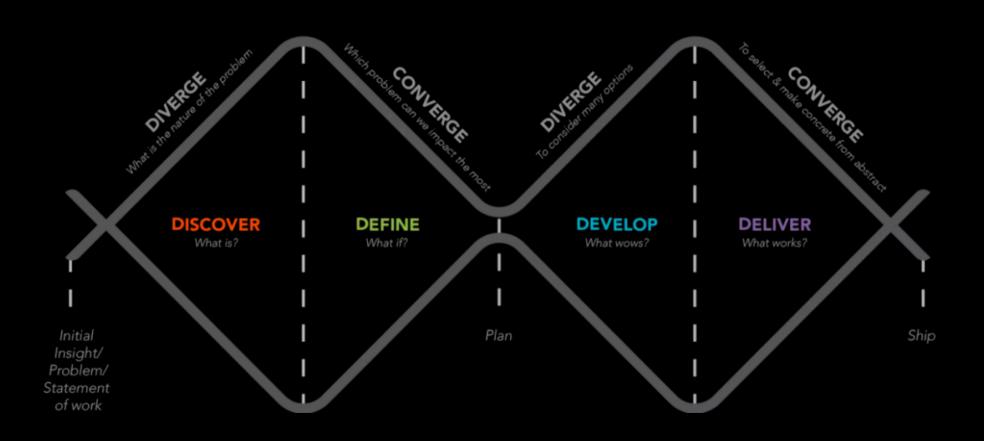
#### Responsibilities

- Facilitated workshops & discussion
- Solving existing usability issues
- Defining product roadmap
- Defining design strategy

#### Project timeline

Q3-Q4 2023

### My Design Process Approach



### Revisiting the Value Proposition

1.

Prioritizing features for user experience, focusing on importance and feasibility. 2.

Enhancing
workflow efficiency,
task management,
and collaboration.

**3.** 

Identifying task status and utilizing project insights to manage projects.

4.

Creating a digital 2D drawing review process for time savings, accuracy, and tracking history.

5.

Define subscription strategy to boost subscription rates by addressing adoption challenges.

# O Problem Space

### Discovery Planning

- Deep dives into user needs
- Stakeholder interviews
- Competitor analysis
- Problem Statement

Research and analysis



# User Requirements | Need & Frustrations

Designer

Checker | Engineer

**Project Manager** 







- Reduce time & design rework.
- 🔑 Increase efficiency & accuracy.
- 🔑 Integrate digital files.
- Lack of 3D model centralization.
- Disorganized project-related documents across platforms.

- Transparent task status.
- P Stay informed to make better decisions.
- Easy project updates identification.
- 💢 Uncertain task progress & timelines.
- Overwhelmed by manual 2D review.

- 🔑 Unlock project insights.
- PBoost team efficiency with insights.
- 🔑 Centralize project files.
- 💢 Lack of team potential insight.
- Uncertain project timelines & status.

#### Stakeholder Interviews

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Project managers often find themselves having to navigate through 3D models, 2D drawings, and data set in order to evaluate project.

Task progress and timelines are uncertain, and the manual 2D review process is quite time-consuming.

Rich / Stakeholder, Former AEC Project Manager

Denny / Consultant, Former AEC checker (engineer)

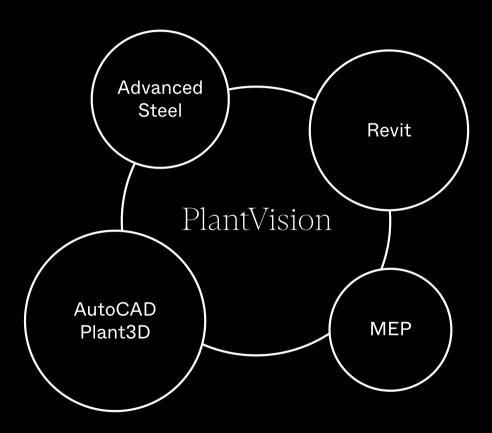
## Who are our competitors?

Competitor	Characteristic	Centralizes project files across platforms	Cloud- Based	Document Management	Project Management	Markup Editor	Enhances Collaboration
ВІМ360	3D Modeling & Collaboration: AEC Design Tool	<b>Ø</b>	<b>▽</b>	<b>▽</b>	<b>▽</b>		<b>▽</b>
ACC (Autodesk Construction Cloud)	Project & Document Management	<b>\oint </b>	<b>▽</b>			0	<b>▽</b>
Bluebeam	Enhance Design review efficiency	<b>\oint </b>	<b>▽</b>	<b>▽</b>	<b>▽</b>	<b>▽</b>	<b>▽</b>
Revit	Plans and tracks various stages in the building's lifecycle	<b>\omega</b>		<b>Ø</b>	<b>▼</b>	<b>Ø</b>	<b>Ø</b>

# What sets PlantVision apart from its competitors?

# Centralizes plant 3D project files from multiple platforms.

### How We Stack Up



#### Problem Statement

The management of AEC projects, faces challenges in coordinating project collaboration across various platforms. He **needs** one platform to digitally centralize 3D models, 2D drawings, and project data in one location **because** this alignment will enhance collaboration between designers and checkers, streamline workflows and improve project efficiency and decision-making.

# † Solution Space

# Design Thinking Workshops Direction

#### Goal

GoalAchieve alignment on project direction.

#### Participants

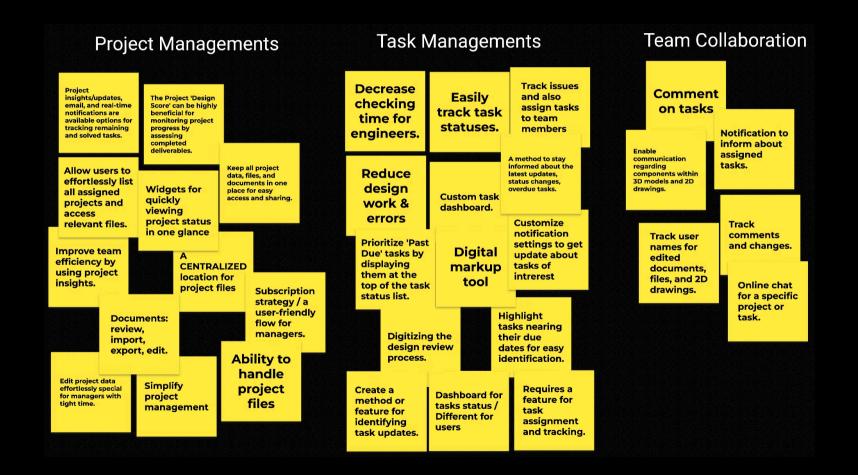
- 🍃 💎 | Product Manager
- Product Owner
- Part | Tech-Lead
- 👳 👳 | Business Partners
- Chef Operating Officer

#### Agenda

- Presenting research findings
- Identify key users needs
- Review constraints
- Start ideations
- Prioritize ideas
- Define MVP (Impact/effort matrix)
- Specify milestones and phases
- V Definition of success
- Assigning responsibilities
- 🚰 Wrap up
- Next step



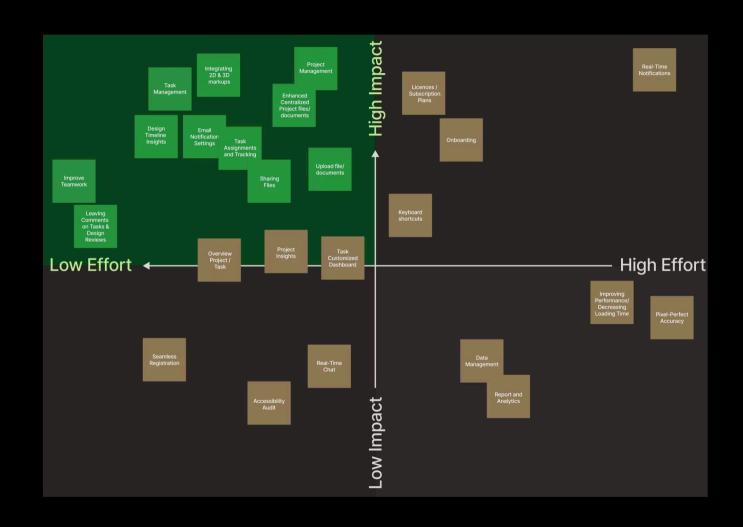
### Collaborative Ideation



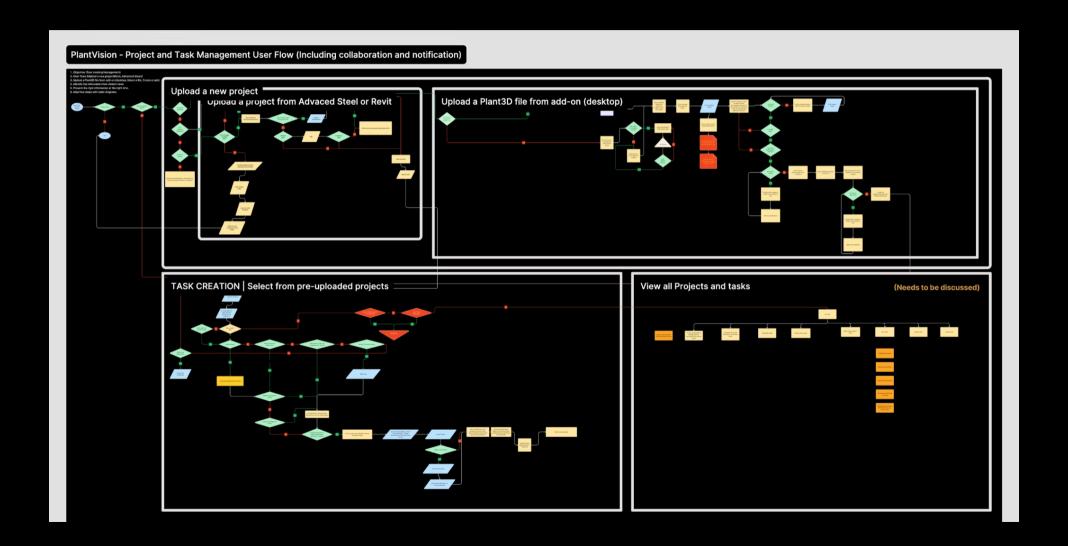


### MVP - Feature Prioritization

What problems should we focus on?

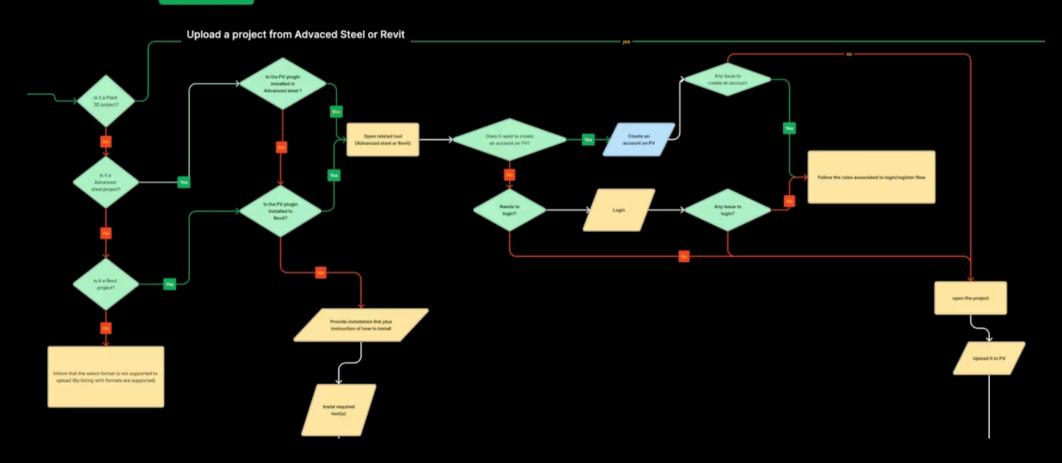


### User Flow

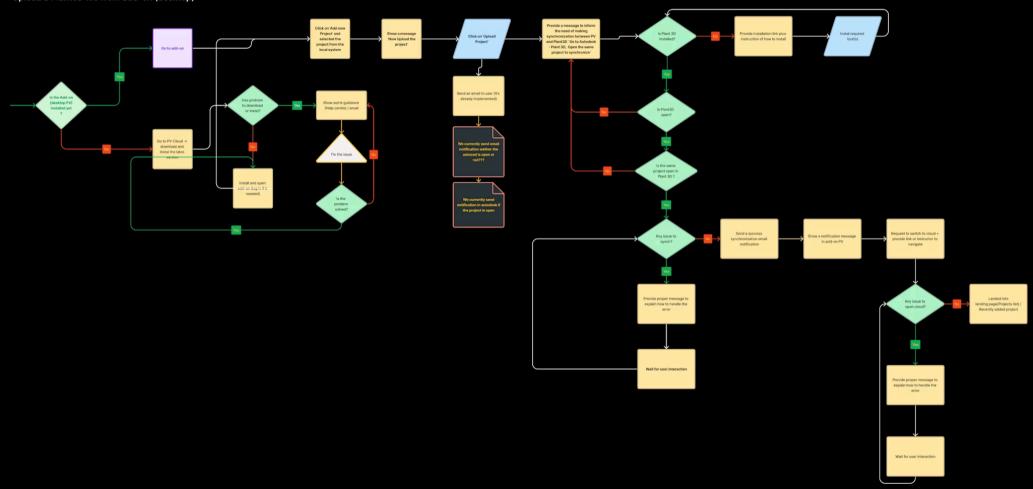


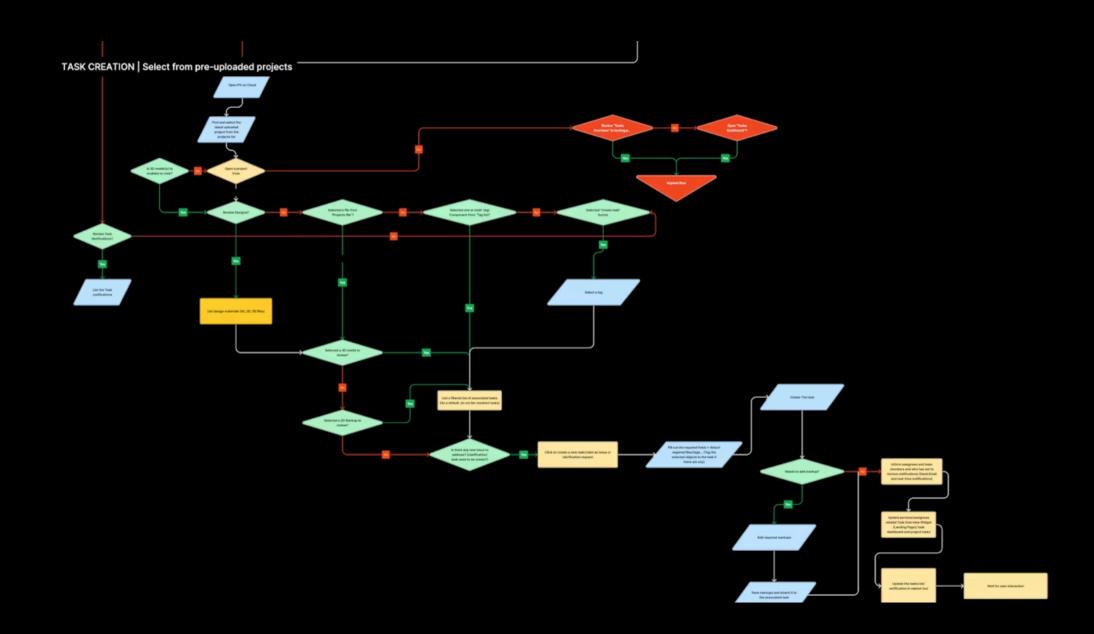
#### Close-up Look

Upload a new project Ready for dev </>

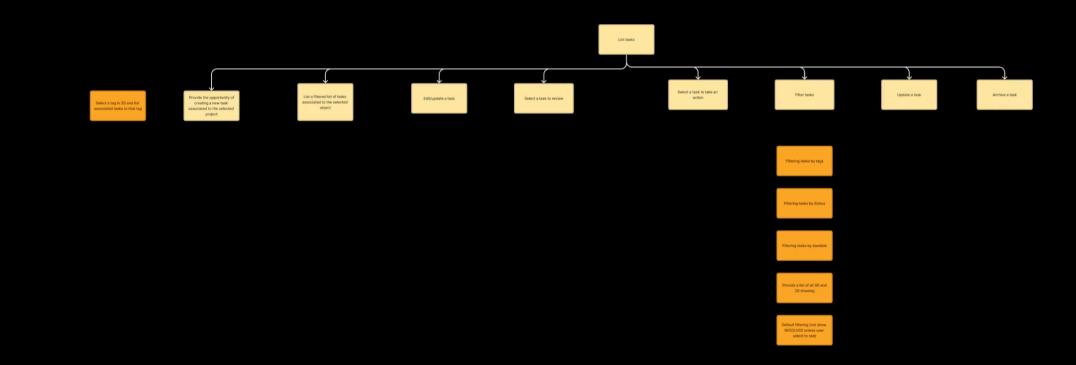


#### Upload a Plant3D file from add-on (desktop)





#### Task Dashboard (requirements)



# Design

1.

Project Management

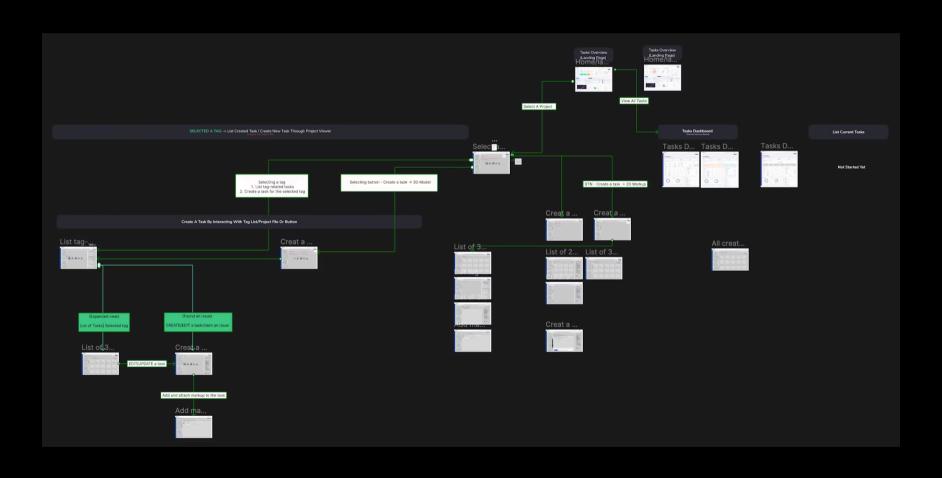
2.

Task Management

3.

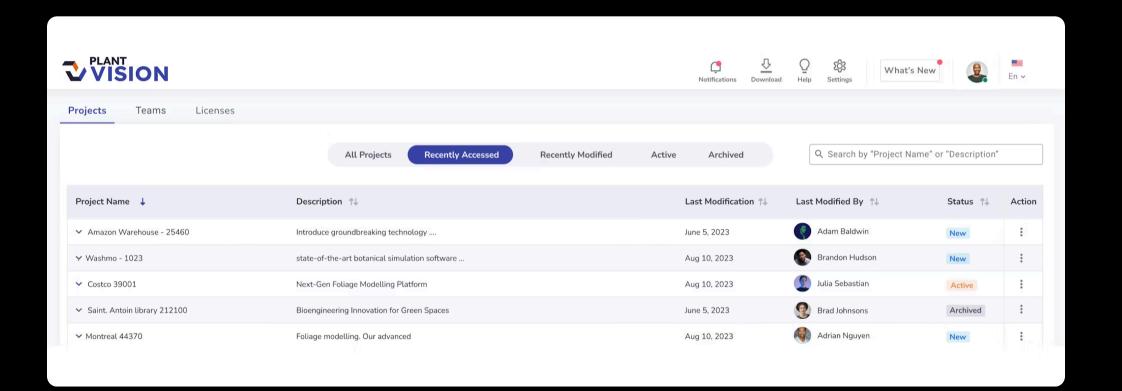
Collaboration

#### Low-Fidelity | Wireframing



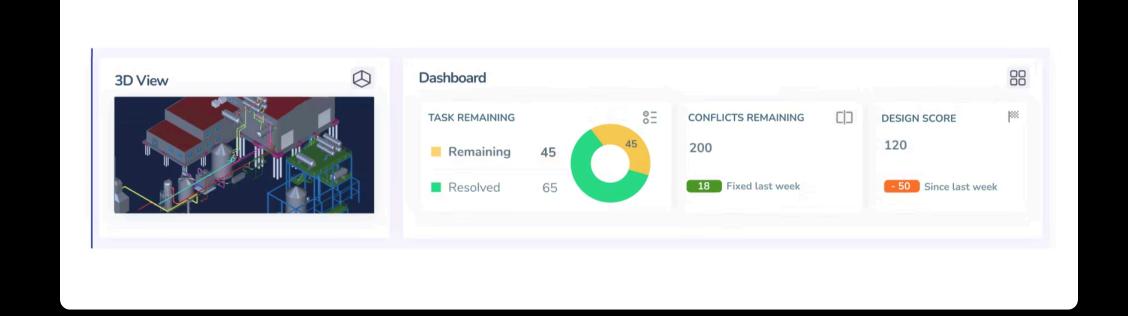
#### Centralized Projects

- Reduces tool-switching
- Simplifies access to relevant project information
- Enhances teamwork and communication
- Merges project documents in the cloud



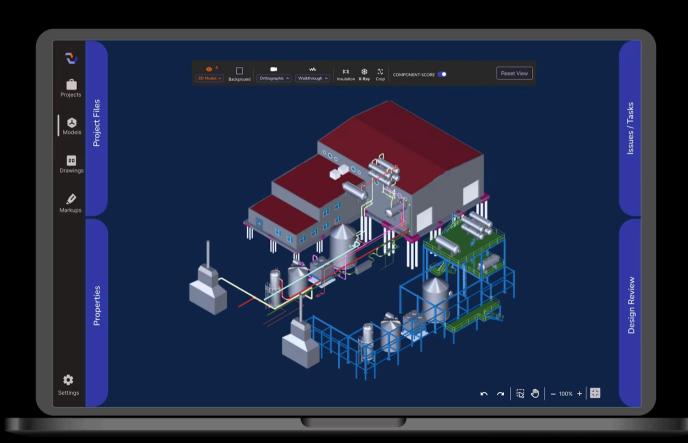
#### Project Insights

- Provides insights for easier project management.
- Facilitates progress monitoring
- Addresses issues more efficiently.
- Enhances project organization.

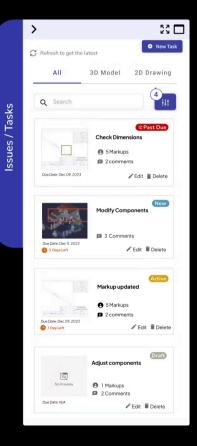


#### Plant 3D Project Repository

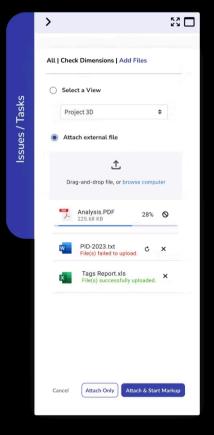
- Facilitates instant access to 3D models, 2D drawings, project files, and documents
- Provides interactive 3D models



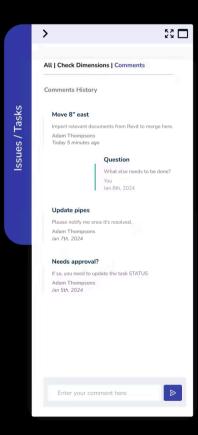
# Simplifies Task Tracking



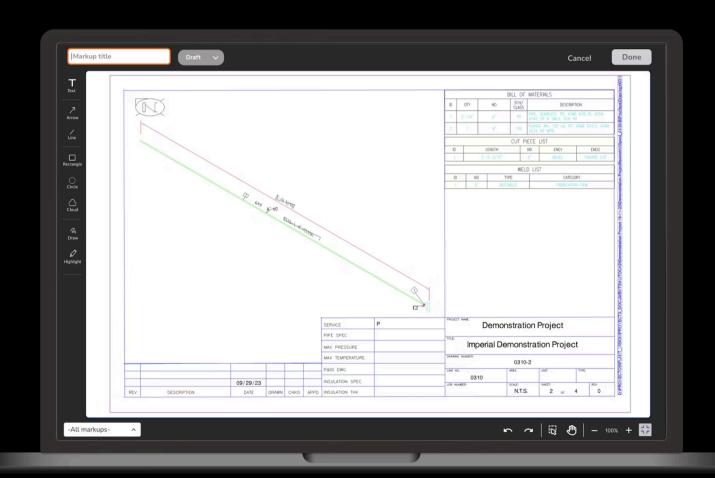
# Streamlines File Sharing



#### Enhances Communications



#### Markup editor process



#### Decision-Making Enhancement

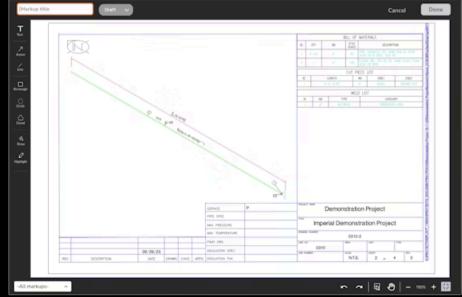
Provides 'Design Timelines' & 'Task Notifications Settings'



# Improvements

Integrated & consistent design for markup | 3D models & 2D drawings







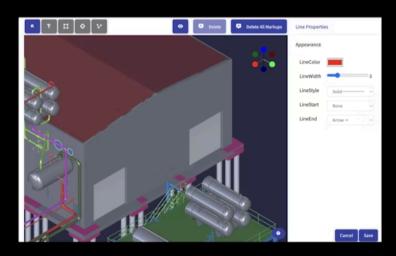
# Before / S After

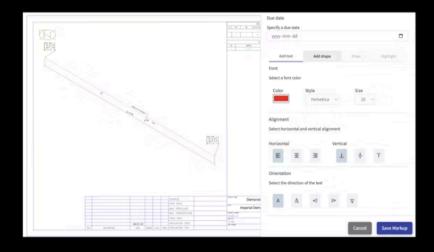


## Design Review

#### 3D Model vs 2D Drawing

Before





#### 3D Model vs 2D Drawing

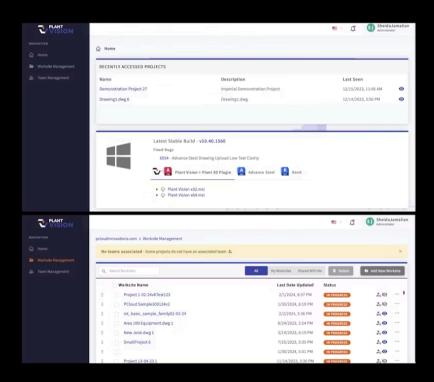
# Design Review

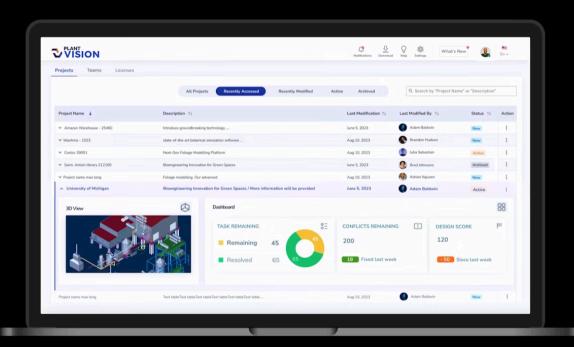
After



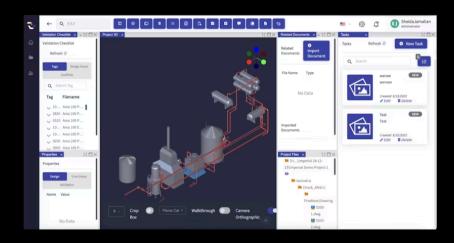


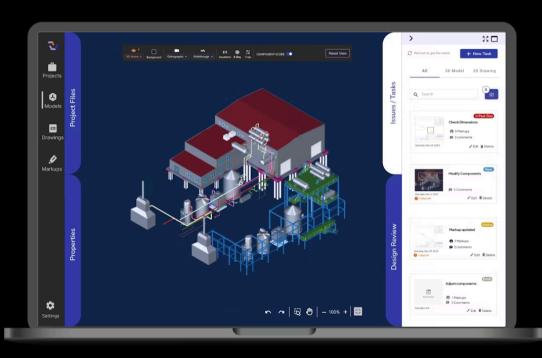
### Project Management





# Task Management





#### Outcomes

120

37%

Corporations showed interest in new features at the 2023 Autodesk University event in Las Vegas.

Increase in user adoption among project managers

### Takeaways

1.

Revisiting the value proposition before adding new features gave us a clear direction from the start to focus on relevant solutions. 2.

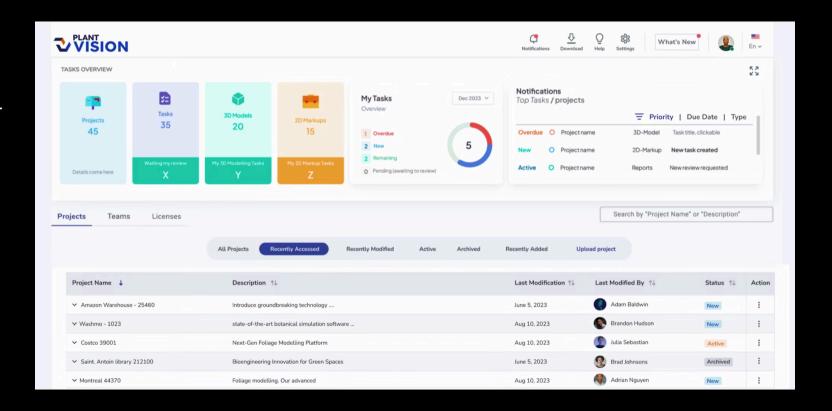
Focusing on problems that cover the needs of all user segments, rather than focusing on only one, helped us create a more impactful solution. 3.

Analyzing the competition to find the main gaps in the market helped us a lot in finding solutions that set us apart from the competition.

# Coming Next

# Improving Project Insights

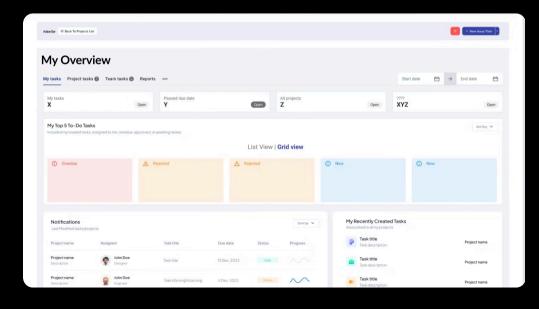
For immediate decisionmaking.

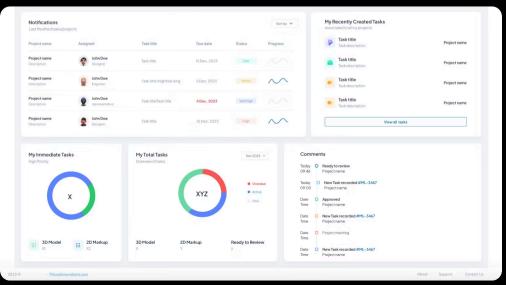


# Coming Next

#### Introducing Overview

A quick review of high-priority updates

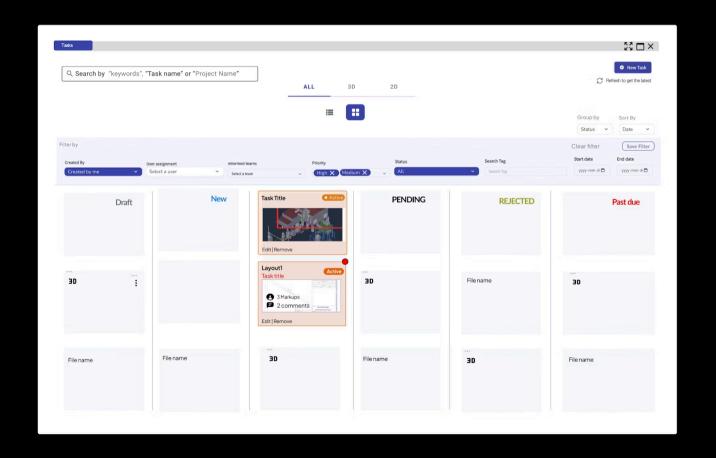




# Coming Next

Optimizing Task Management

The power of customized dashboard to identify critical tasks



# Thank You

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