

SD471528

# 便利でクールな Forge 駆動アプリケーション 10 選

伊勢崎 俊明

Developer Advocate | @AutodeskForge



# アジェンダ

- Forge の役割の各 API のご紹介
- 各社 Forge アプリケーションのご紹介
- 今後のリソース



伊勢崎 俊明

Chuo-ku, Tokyo, JP

---

Developer Advocacy & Support  
Autodesk Japan  
Software Development

CAD / CAM 業界の様々な企業での製品教育、製品/開発サポート、アプリケーション開発を経て、現在、オートデスクに20年超在籍。セールスエンジニアを経て、過去から最新までの技術変遷を踏まえて、Forge を啓蒙するエバンジェリストとして活動中。

# テクノロジー

Forge はオートデスクの強力なソフトウェア ライブラリからコンポーネントを得て、独自の新しいソリューションを作成するためのクラウドベースのビルディングブロックとして提供されています





# 統合

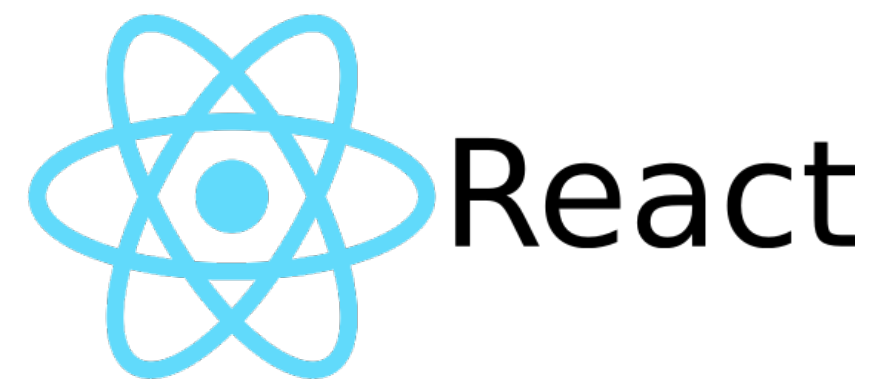
これらサービスブロックを使用して製品を拡張、  
また、既存のインフラ内に全く新しいソリュー  
ションの作成が可能です。

オートデスクはブロックを提供し、  
みなさんはソリューションを構築します。





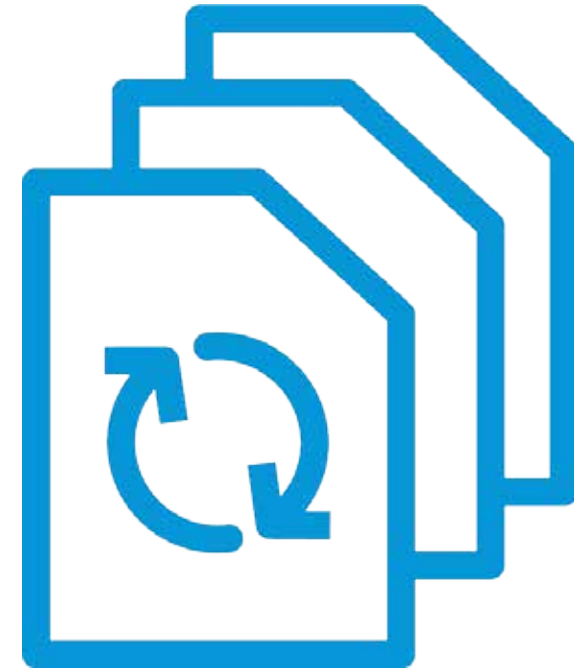
# Forge は標準Webテクノロジーがベース



# Forge サービス



Data  
Management



Model Derivative



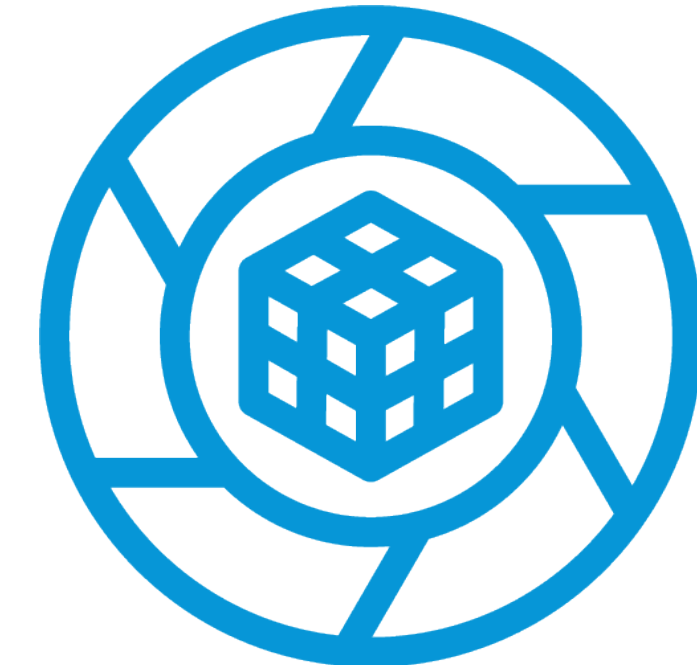
Design Automation  
(Revit, Inventor, AutoCAD, Civil  
3D, 3DS Max)



BIM 360



Viewer



Reality Capture

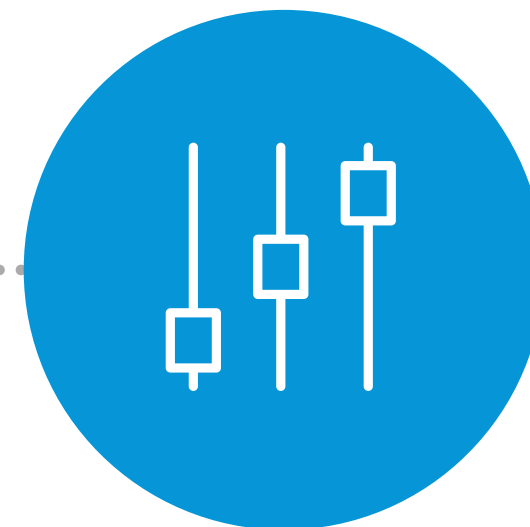
# お客様やパートナーが Forge で構築

データの視覚化 & 解析



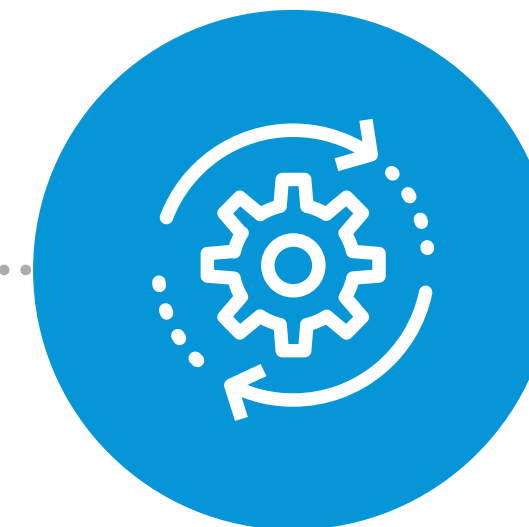
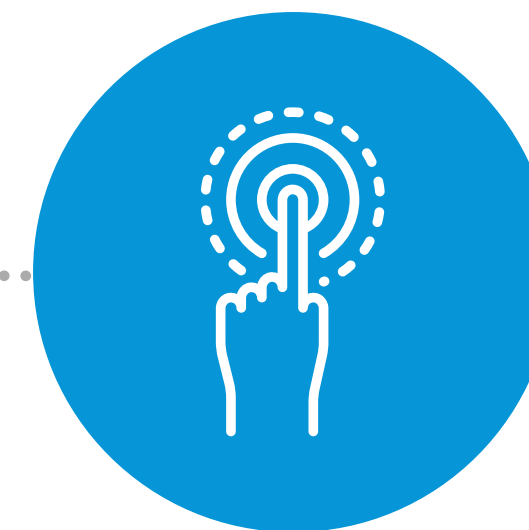
電子カタログ

デジタルツイン



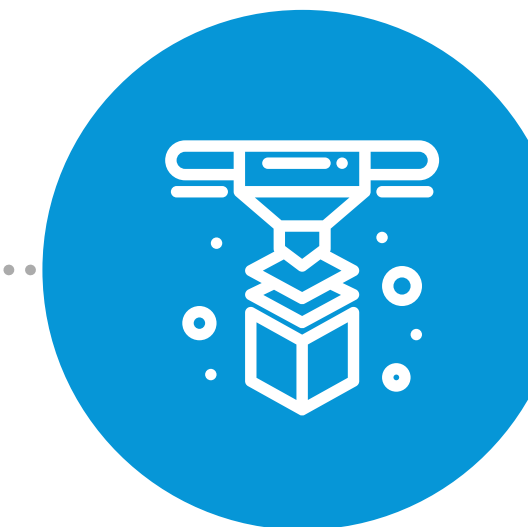
コンフィギュレータ

AR (拡張現実) &  
VR (仮想現実)



DESIGN AUTOMATION

SaaS 統合



フォトグラメトリ



# Archistar.ai



Viewer



Model  
Derivative



Data  
Management





Design  
Automation



BIM  
360

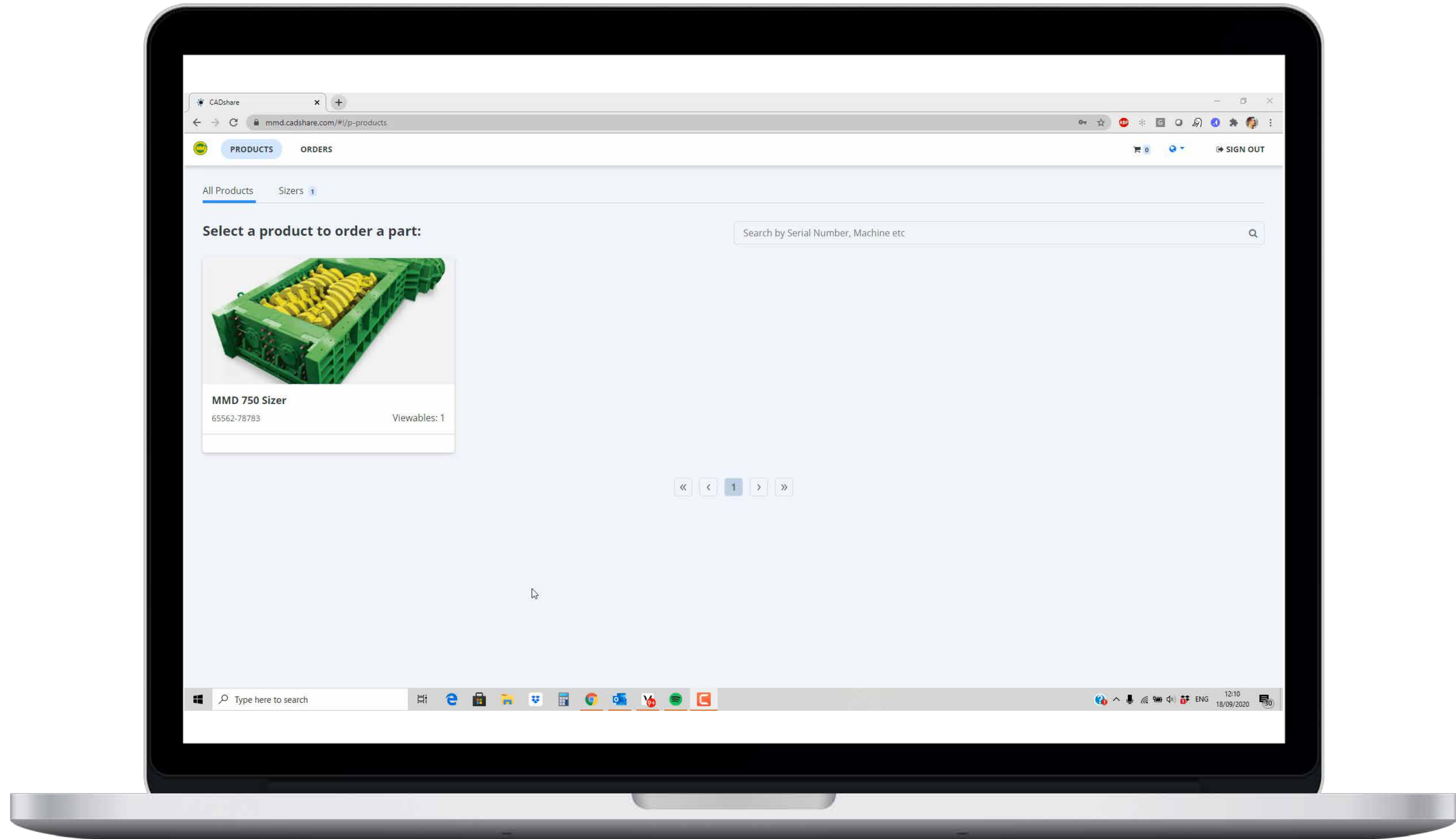


Model  
Derivative



Data  
Management





Viewer

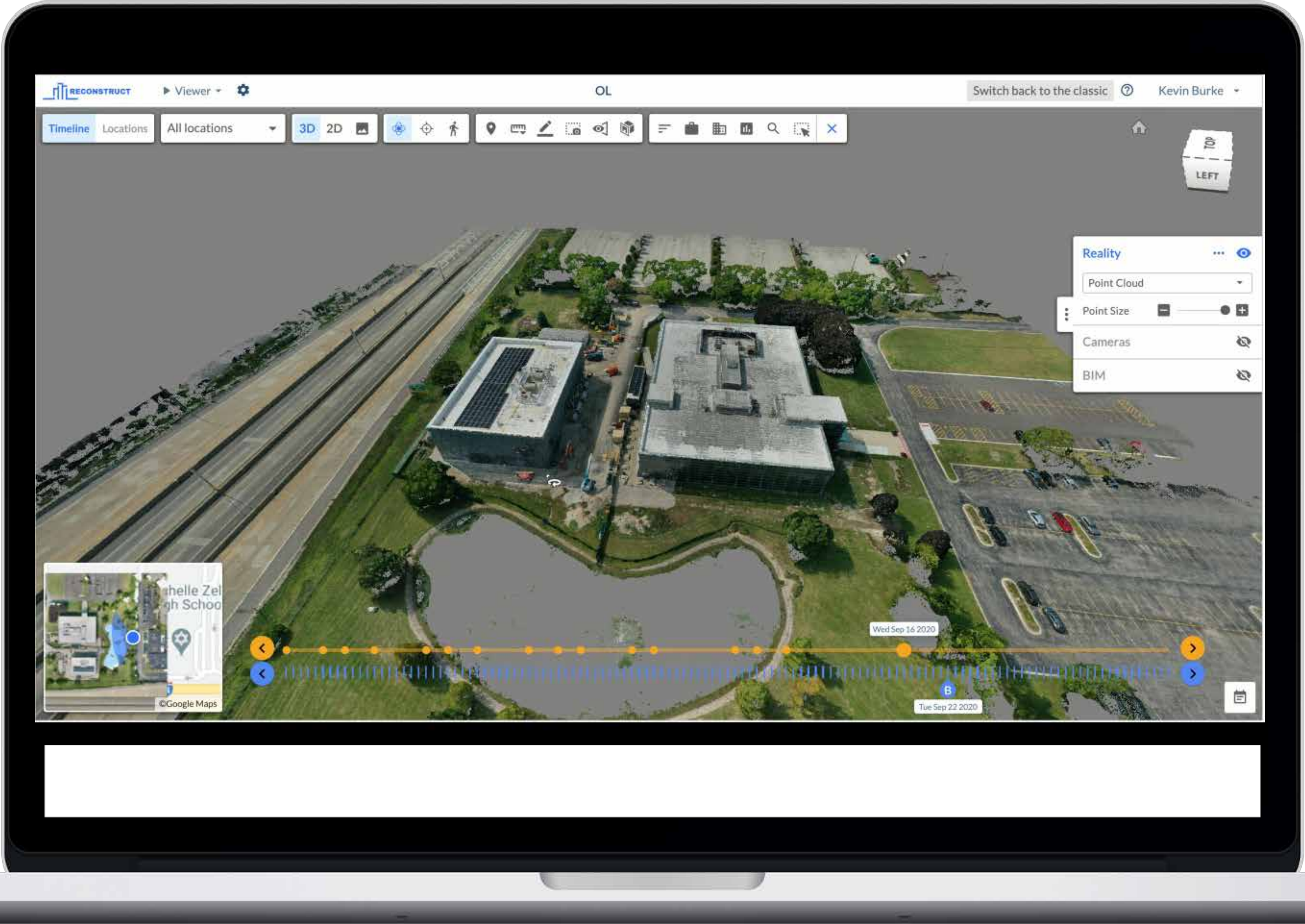


Model  
Derivative



Data  
Management





Viewer



BIM  
360



Model  
Derivative



Data  
Management





Viewer



BIM  
360

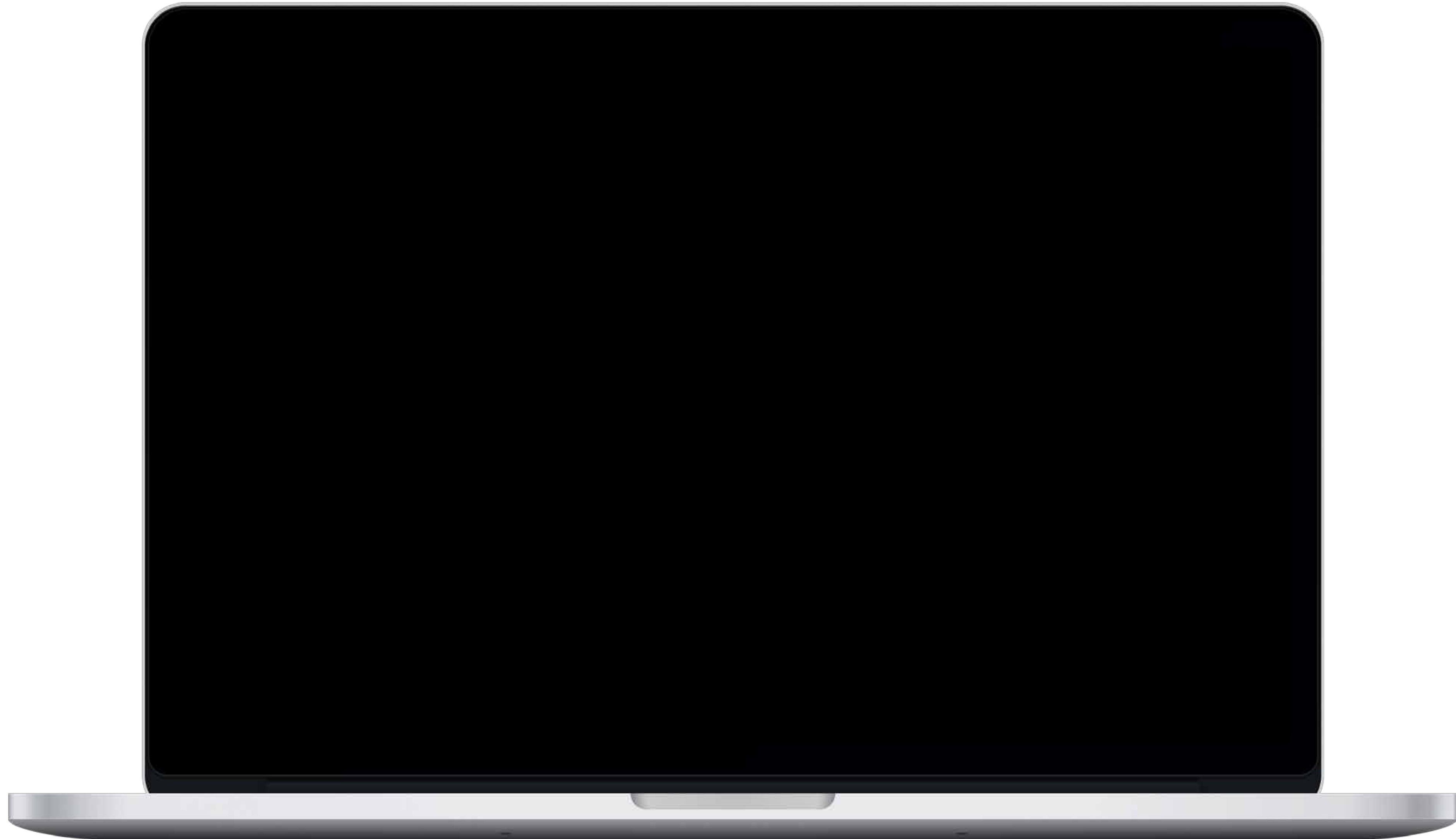


Model  
Derivative



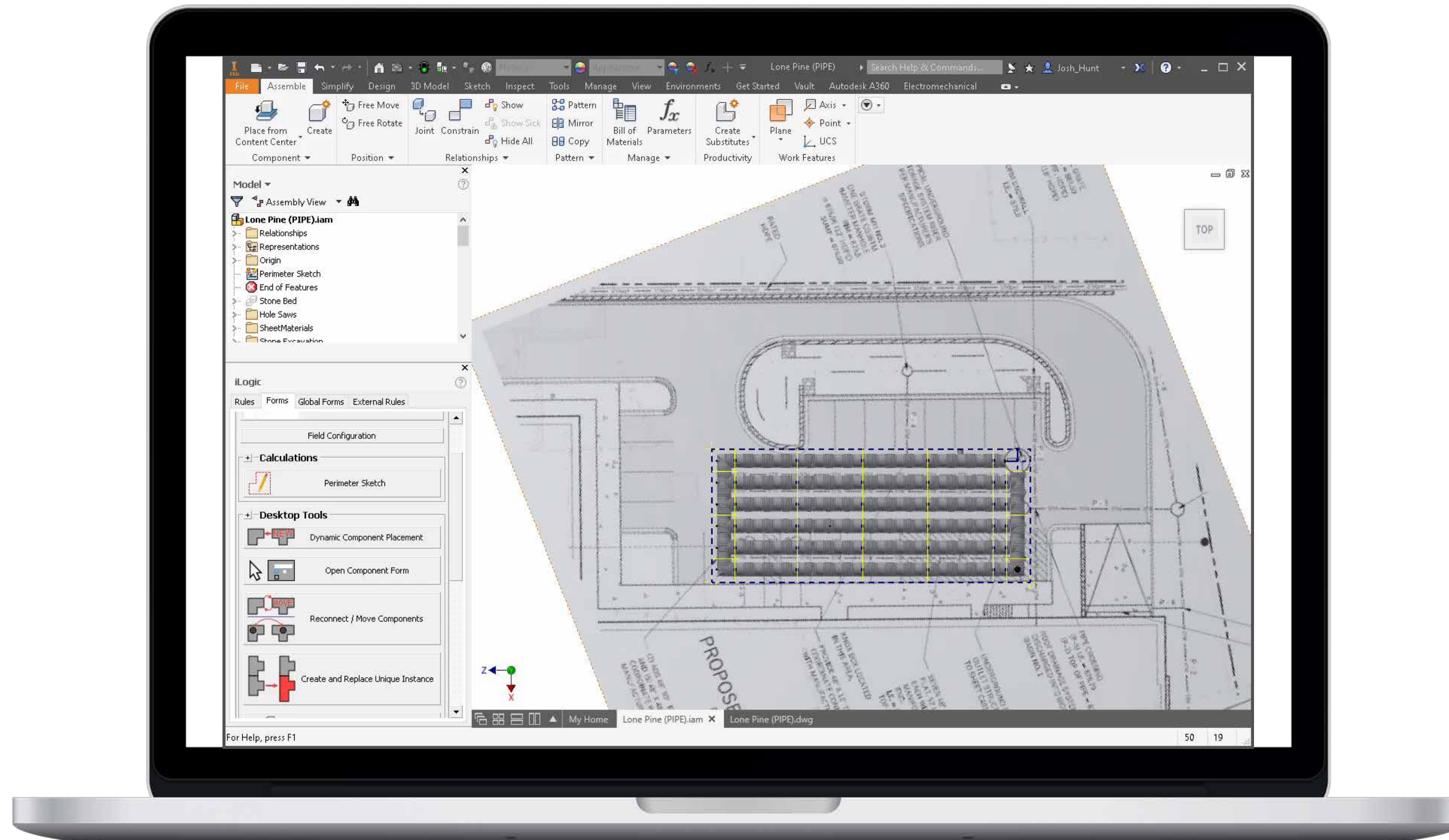
Data  
Management





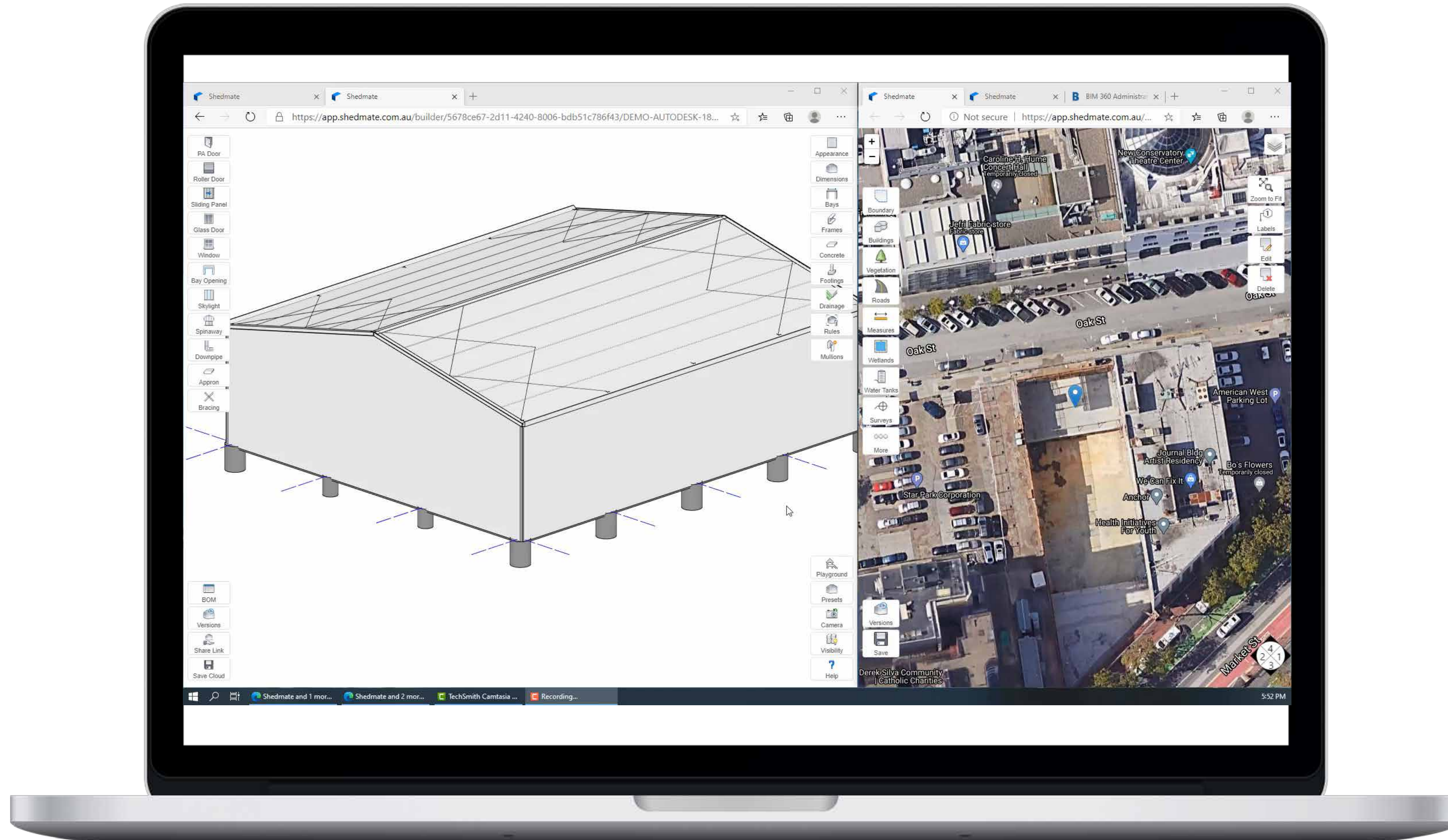
Design  
Automation





Design  
Automation





Design  
Automation

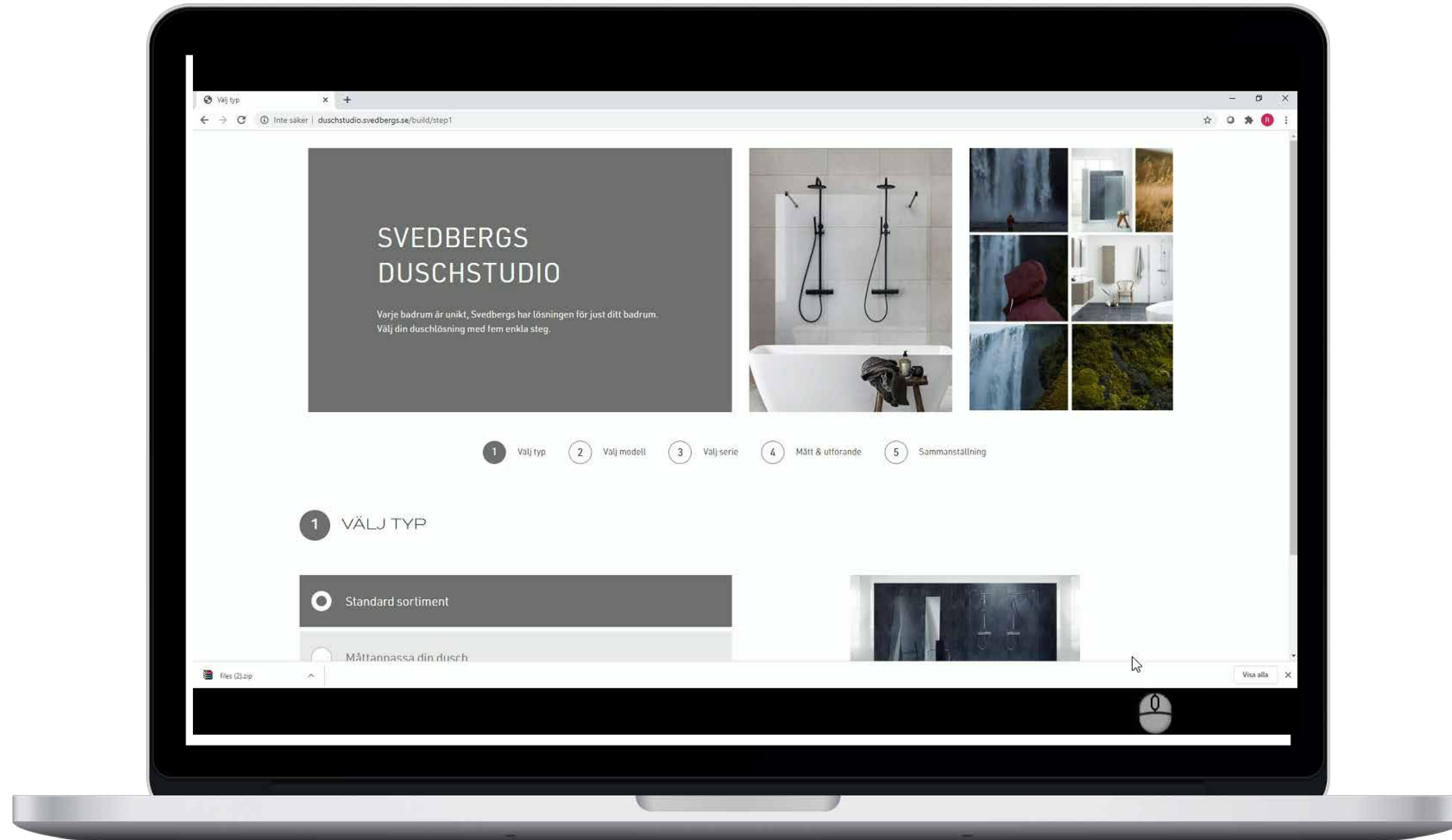


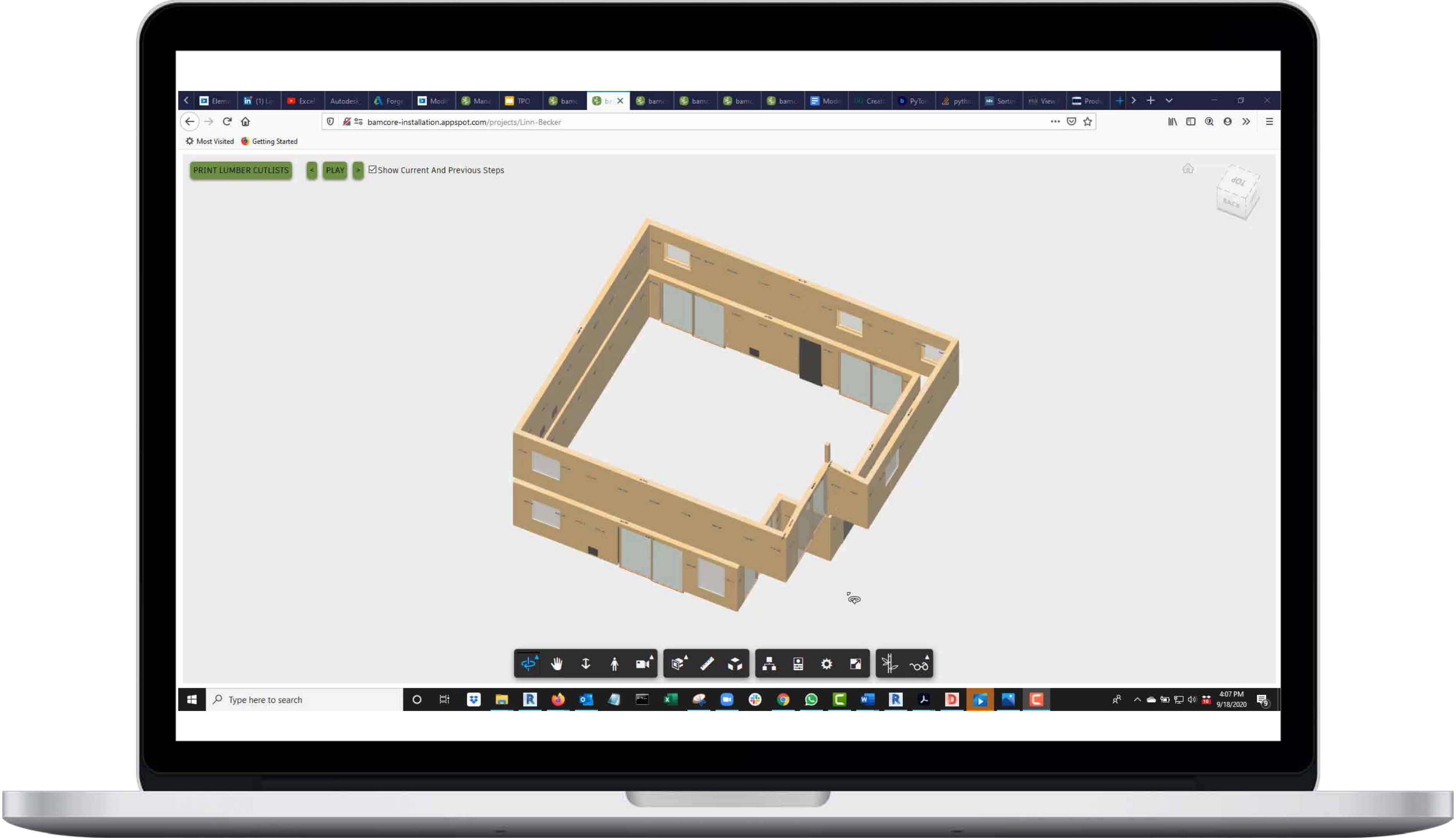
BIM  
360



Data  
Management







Viewer

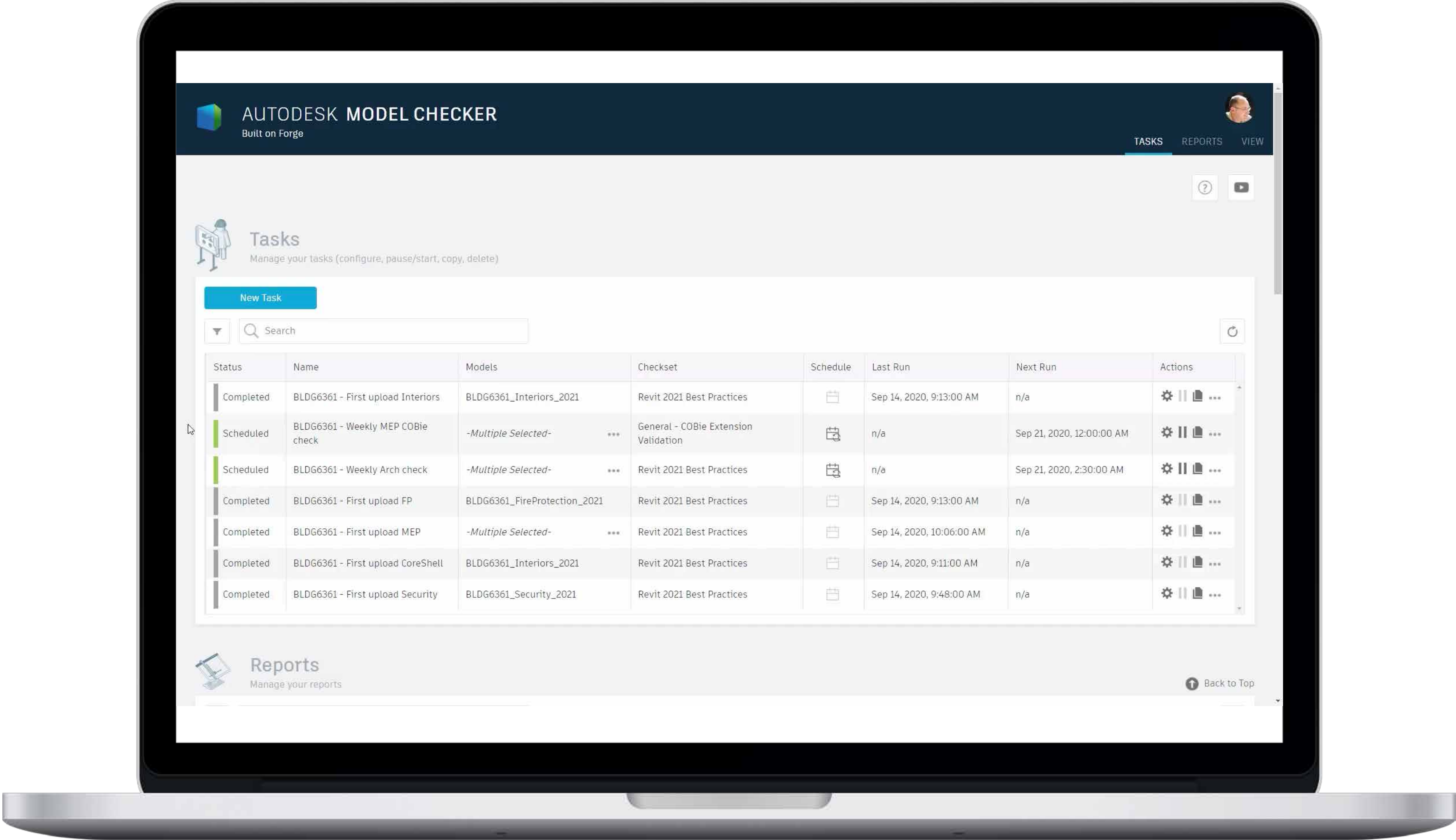


Model Derivative



Data Management





Design Automation



BIM 360



Data Management

Autodesk Model Checker for Revit

2021

Title

Revit Model Best Practices for Revit 2021

Date

Monday, June 22, 2020

Author

Autodesk

Description

Series of checks to review modeling best practices and integrity

PacificCenter\_AY\_Arch-v21

16%

Check Summary

97 Checks, 3 (16%) Pass, 16 Fail, 77 Count/List, 1 Errors

Report Date

Saturday, September 26, 2020 - 7:52:09 AM

Revit Filepath

C:\Users\krygiee\Desktop\PacificCenter\_AY\_Arch-v21.rvt

Checkset File

http://www.biminteroperabilitytools.com/modelchecker/hostedchecks/bestpractices-2021.xml

Unplaced Rooms

PASS/FAIL check to determine if any rooms are unplaced. Will Fail if any are found.

These rooms are unplaced in the model

Count: 17

Category	Name	ID
Rooms	Rooms : Collaboration 210	3524003
Rooms	Rooms : Copy/Mail 400A	5352483
Rooms	Rooms : Elevator E4	5351694
Rooms	Rooms : Elevator E4	5371783
Rooms	Rooms : Elevator E4	5335101
Rooms	Rooms : Elevator E5	5351695
Rooms	Rooms : Elevator E5	5371784
Rooms	Rooms : Elevator E5	5335102
Rooms	Rooms : Elevator E6	5371785
Rooms	Rooms : Elevator E6	5351696
Rooms	Rooms : Elevator E6	5335103
Rooms	Rooms : Exterior Bridge 275.2	5714789

Unplaced Spaces

PASS/FAIL check to determine if any spaces are unplaced. Will Fail if any are found.

Count: 0

Redundant and Unenclosed Spaces

PASS/FAIL check to determine any spaces are in the same location as another space. Will Fail if any are found.

Count: 0

Unique Space Number

PASS/FAIL check to determine if there are spaces with the same number. Will Fail if any are found.

Count: 0

Redundant and Unenclosed Rooms

PASS/FAIL check to determine if any rooms are in the same location as another room. Will fail if any are found.

These rooms are redundant in the model

Count: 19

Category	Name	ID
Rooms	Rooms : Stairs S1.2	2632830
Rooms	Rooms : Stairs S1.3	5352803
Rooms	Rooms : Stairs S1.4	5352876
Rooms	Rooms : Stairs S1.5	5352969
Rooms	Rooms : Stairs S2.2	3563918
Rooms	Rooms : Stairs S2.3	5379198
Rooms	Rooms : Stairs S2.4	5379207
Rooms	Rooms : Stairs S2.5	5388602
Rooms	Rooms : Stairs S5.2	5352642
Rooms	Rooms : Stairs S5.3	5352552
Rooms	Rooms : Stairs S5.4	5352480
Rooms	Rooms : Stairs S5.5	5351198



# Forge 全般の情報は – [forge.autodesk.com](https://forge.autodesk.com)

## FORGE

### Success Stories

From artificial intelligence to virtual reality, from smart manufacturing to the connected jobsite—the Forge community of customers and partners are using Forge to innovate in their industries.

NORCONSULT  
INFORMASJONSSYSTEMER AS

Forge helps trim emissions by 20% on \$500-million transport project

AEC

MG AEC TECHNOLOGY PARTNERS

Donors interact with 3D Model of U.S. Olympic Museum via Forge

AEC

### Discover Community Success Stories

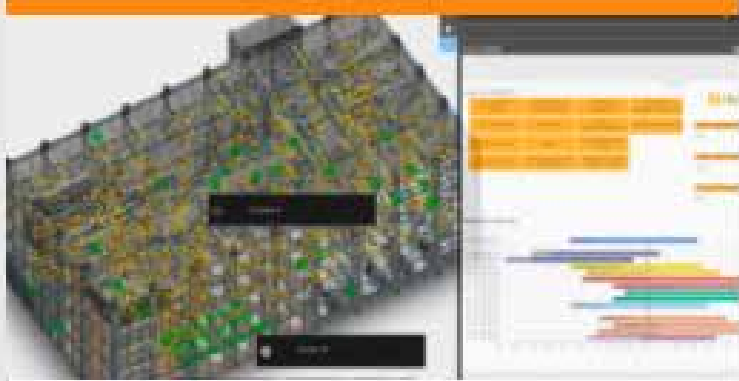
APIs and Services  
- Select -

Industries  
- Select -

Autodesk Products  
- Select -

Sort by  
Most Recent

Reset to show all




Software Development

#### BIM6D

BIM6D uses Forge to create data integrations and related reports that help AEC professionals manage data throughout the entire project lifecycle.

Read story




Software Development

#### SWAPP

SWAPP uses the Forge platform to provide customers with 2D/3D visualizations of highly optimized, AI-based, automated building plans.

Read story



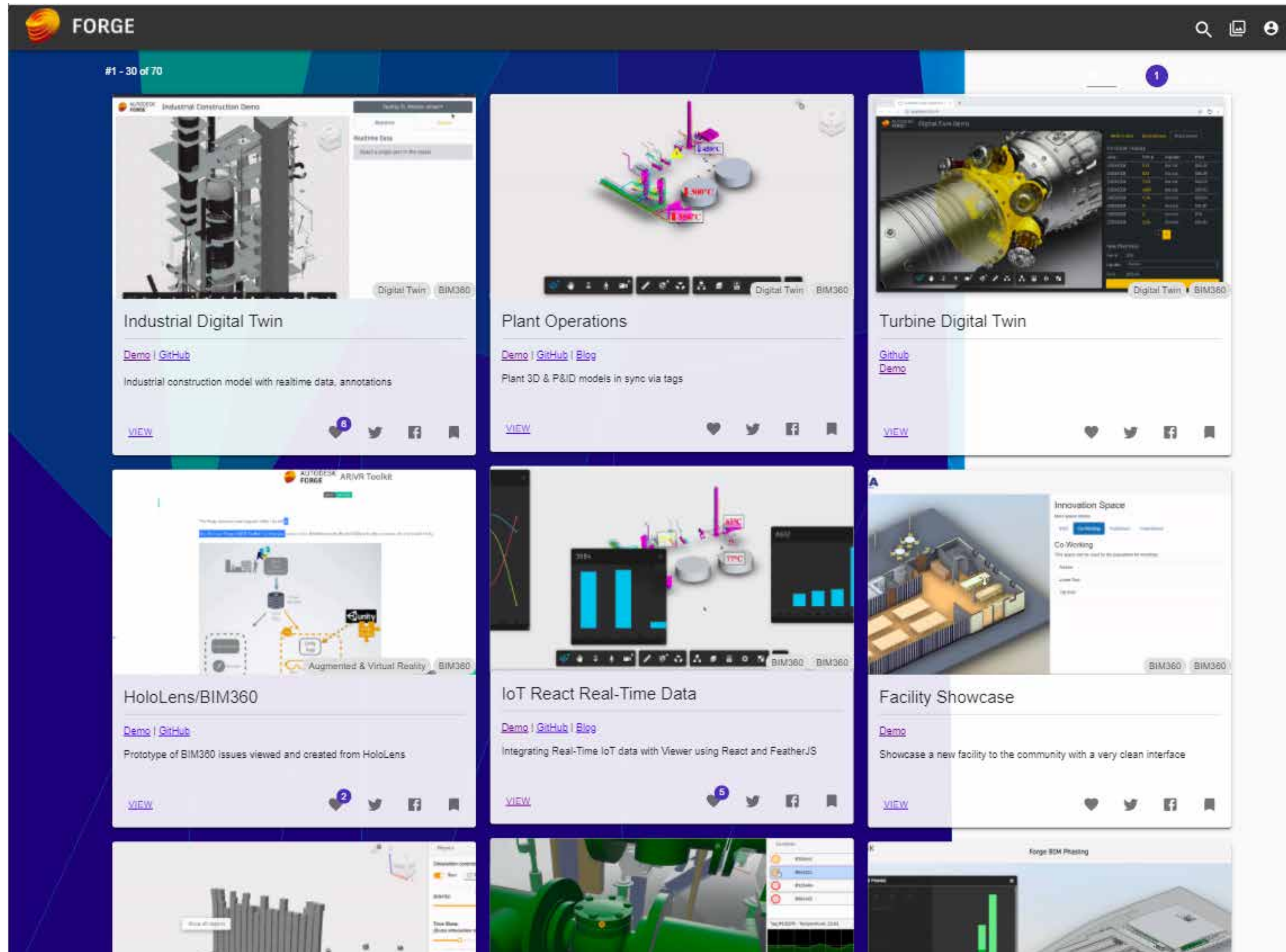
Manufacturing, Software Development

#### Cadcraft

Cadcraft turned to Forge APIs to streamline and speed a customer's order and manufacturing process, reducing errors and cost and boosting customer satisfaction.

Read story



# さまざまなサンプルは – [forge-showroom.autodesk.io](https://forge-showroom.autodesk.io)






# Forge パートナートーク

## <https://forge.autodesk.com/partnertalks>

 Success Stories Solutions ▾ Getting Started Documentation Community ▾ Support ▾ Pricing  [SIGN IN](#)




MAY 29, 2020

### Forge Partner Talks: Configurators - Q&A and recording

[SANJANA CHAND](#)

Thank you for joining us for Forge Partner Talks: Configurators. We are always excited to showcase new and exciting solutions built by our partners and customers, and hope seeing what the... [READ MORE](#)

TAGS [Forge Partner Talks](#) , [Events](#)




MAY 26, 2020

### Forge Partner Talks Summer Lineup

[SANJANA CHAND](#)

The Forge Partner Talks webinar series will continue through June and July with four brand new panel discussions on another set of industry topics and trends! This is your opportunity to ... [READ MORE](#)

TAGS [Forge Partner Talks](#) , [Events](#)




MAY 20, 2020

### Forge Partner Talks: AR/VR - Q&A and recording

[SANJANA CHAND](#)

Thank you for joining us at Forge Partner Talks: AR/VR. We enjoy showcasing new and exciting solutions built by our partners, and hope seeing theirs has inspired you to build your own or ... [READ MORE](#)

TAGS [AR/VR Toolkit](#) , [Forge Partner Talks](#) , [Events](#)




MAY 18, 2020

### Forge Partner Talks: Digital Twins Q&A and recording

[SANJANA CHAND](#)

Thank you for joining us at the very first Forge Partner Talks on Digital Twins. Hopefully you learned a lot from seeing the solutions our partners created, and are now inspired to build ... [READ MORE](#)

TAGS [Software Development](#) , [Forge Partner Talks](#) , [Webinar](#) , [Events](#)

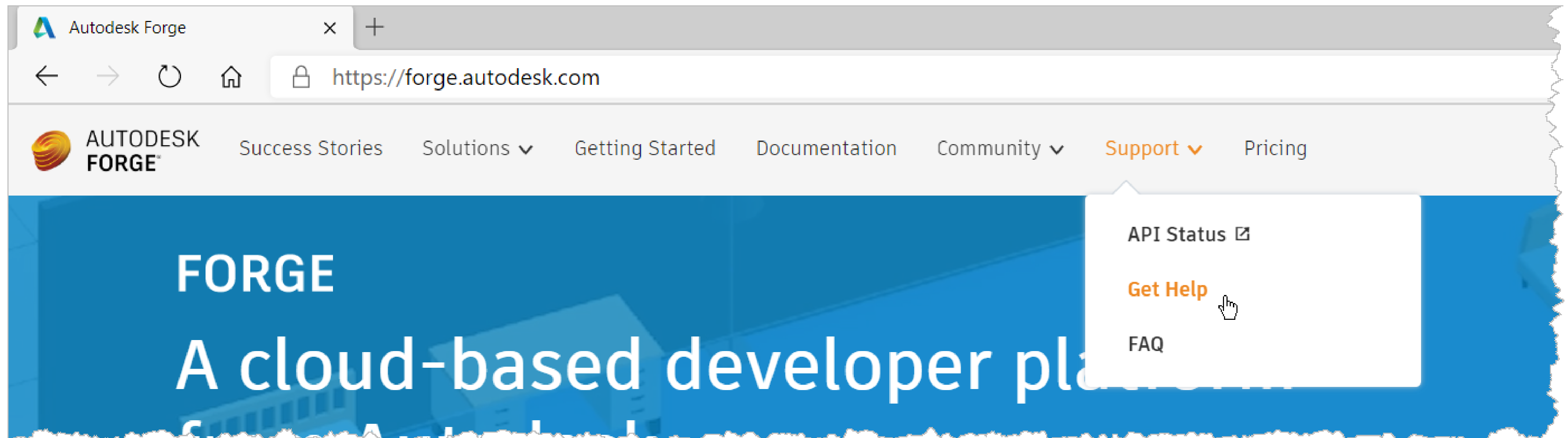


ご不明な点は

AU Answer Bar

Email : [forge.help@autodesk.com](mailto:forge.help@autodesk.com)

または







Autodesk and the Autodesk logo are registered trademarks or trademarks of Autodesk, Inc., and/or its subsidiaries and/or affiliates in the USA and/or other countries. All other brand names, product names, or trademarks belong to their respective holders. Autodesk reserves the right to alter product and services offerings, and specifications and pricing at any time without notice, and is not responsible for typographical or graphical errors that may appear in this document.

© 2020 Autodesk. All rights reserved.

