



MUDELI JA EHITUSPROJEKTI ANDMED MICROSOFTI IGAPÄEVASTESSE VAHENDITESSE POWER BI-SSE, SHAREPOINTI, TEAMSIS JA KA EXCELISSE

*Autodesk Construction Cloud (ACC) ja selle integreerimise
võimalused*

Kristel Uibo

21.10.2022

BIM SEMINAR 2022



- Asutatud 1991a.
- 20 spetsialisti ning konsultanti.
 - CAD/BIM ja äritarkvara lahendused;
 - Koolitused ja konsultatsioon;
 - Ehituse- ning tootmise andmete juhtimine ja visualiseerimine;
 - IT tugiteenused.



Silver
Microsoft Partner



Specialization
Architecture, Engineering
& Construction

Value Added Service
Authorized Training Center
Authorized Certification
Center

SISUKORD

UURING: ANDMETE, KUI ÄRIEELISE KASUTAMINE EHITUSES

Autodesk ja FvM koostöös valminud uuring:
Harnessing the Data Advantage in Construction.



21.10.2022 | BIM seminar 2022

6

usesoft

MILLISEID EELISED ANNAVAD ANDMED?



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7

usesoft

AUTODESK CONSTRUCTION CLOUD

<https://construction.autodesk.com/>



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10

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AUTODESKI ACC RAKENDUSED

[Veebi link Autodeski kodulehele](#)



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14

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MUUD ACC RAKENDUSED

<https://forge.autodesk.com/customers>



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ACC CONNECT JA POWER AUTOMATE

construction.autodesk.com/products/autodesk-connect
[automate-workflows-with-microsoft-power-automate](#)



21.10.2022 | BIM seminar 2022

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AUTODESK FORGE

<https://forge.autodesk.com>



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TESTIME: ACC MUDELID JA PROJEKTID >>> POWERBI, EXCEL, SHAREPOINT, TEAMS

[Link veebi rakendusele](#)



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38

usesoft

UURING: ANDMETE, KUI ÄRIEELISE KASUTAMINE E HITUSES

Autodeski ja FMI koostöös valminud uuring:
Harnessing the Data Advantage in Construction.

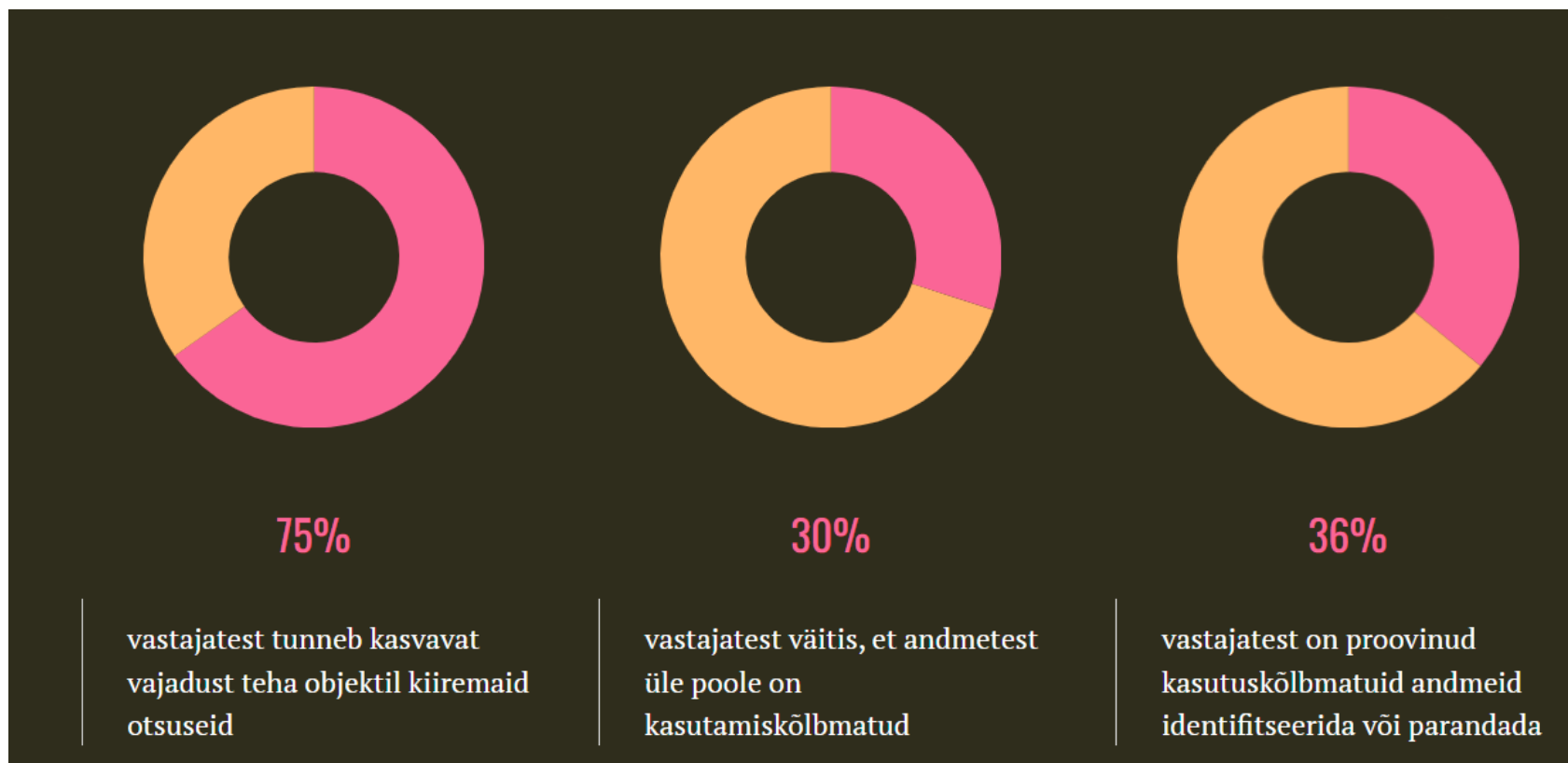


UURINGU TULEMUSED

Digitaliseerimisega on viimase 3 aastaga projekti andmete maht ehituses kahekordistunud,

aga kui suurt osa meie andmetest saab tegelikult kasutada informeeritud ja praktiliste otsuste tegemiseks?

30% vastanutest väidab, et üle 50% andmetest on tegelikult kasutamiskõlbmatud



Autodeski ja FMI koostöös valminud uuring: *Harnessing the Data Advantage in Construction.*

UURINGU TULEMUSED

Kehvad andmed lähevad kalliks maksma. Arvutuse tulemusena pakuvad uuringu koostajad, et 1 miljardi dollari käibega ehitusettevõttele on kahju kehvadest andmetest ligi 168 miljonit dollarit.

\$1 miljardi

käibega ehitaja jaoks tähendab see, et ...

\$165 miljonit

lähevad talle maksma kehvad andmed ja ...

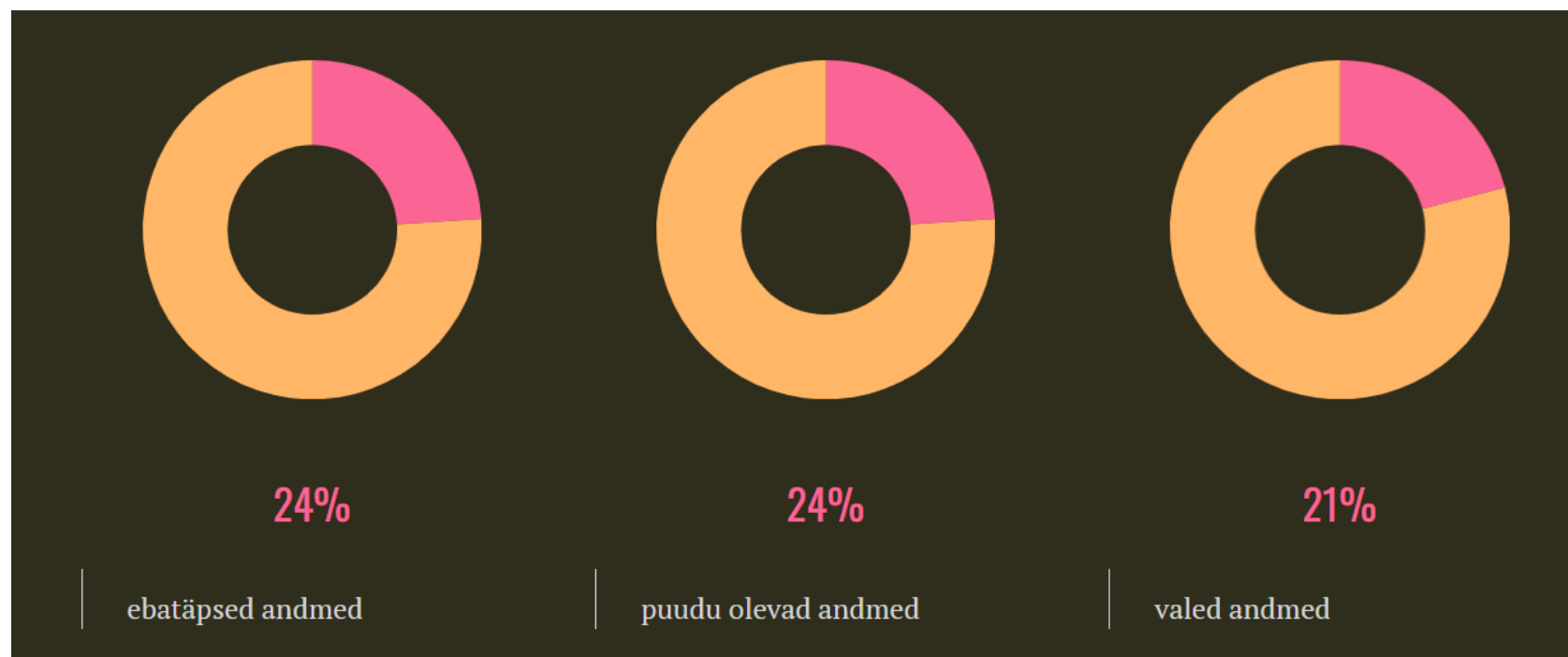
\$7,1 miljonit

väärtuses tarbetut ümberehitust

Autodeski ja FMI koostöös valminud uuring: *Harnessing the Data Advantage in Construction.*

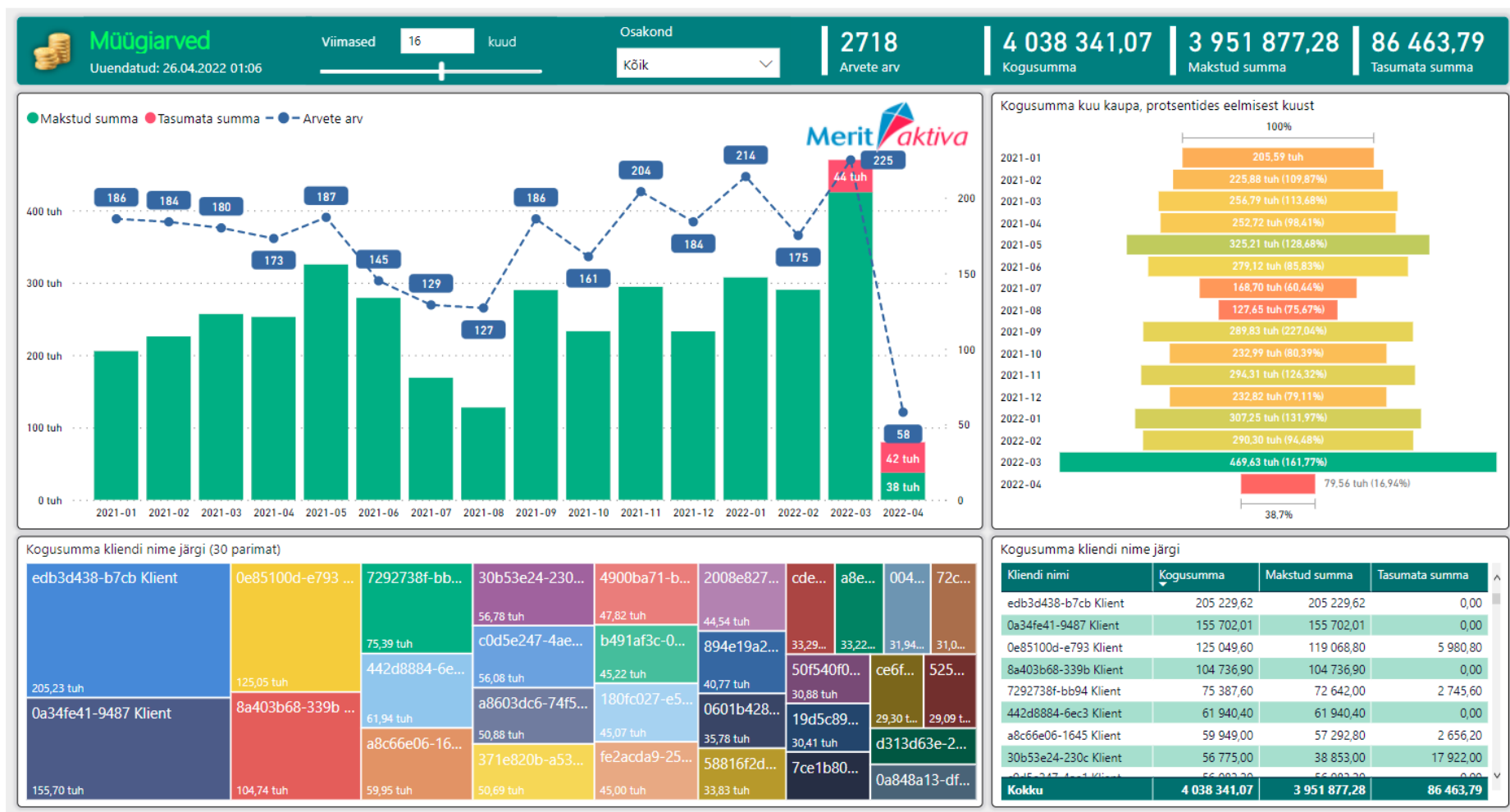
UURINGU TULEMUSED

Mis teeb andmed
kehvaks?



Autodeski ja FMI koostöös valminud uuring: *Harnessing the Data Advantage in Construction.*

NÄIDE: ETTEVÕTTE FINANTSTULEMUSED



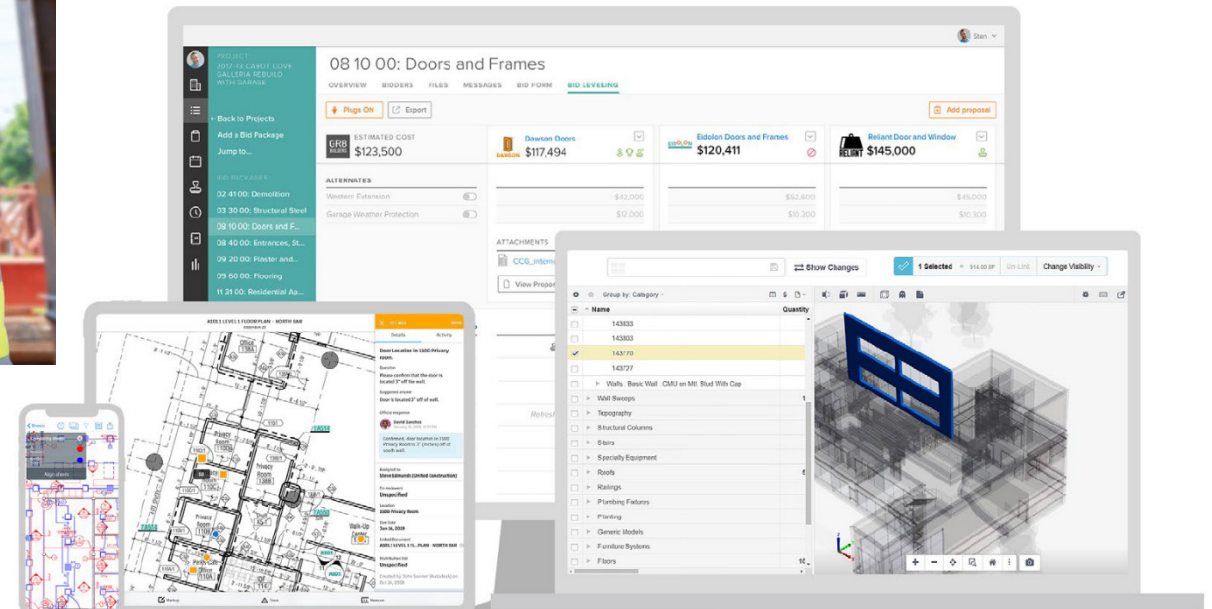
MILLISEID EELISED ANNAVAD ANDMED?



ANDMED OLEKS KÄTTESAADAVAD SEAL, KUS NEID VAJA



75% vastajatest tunneb kasvavat vajadust teha objektile kiiremaid otsuseid



Autodeski ja FMI koostöös valminud uuring: *Harnessing the Data Advantage in Construction.*

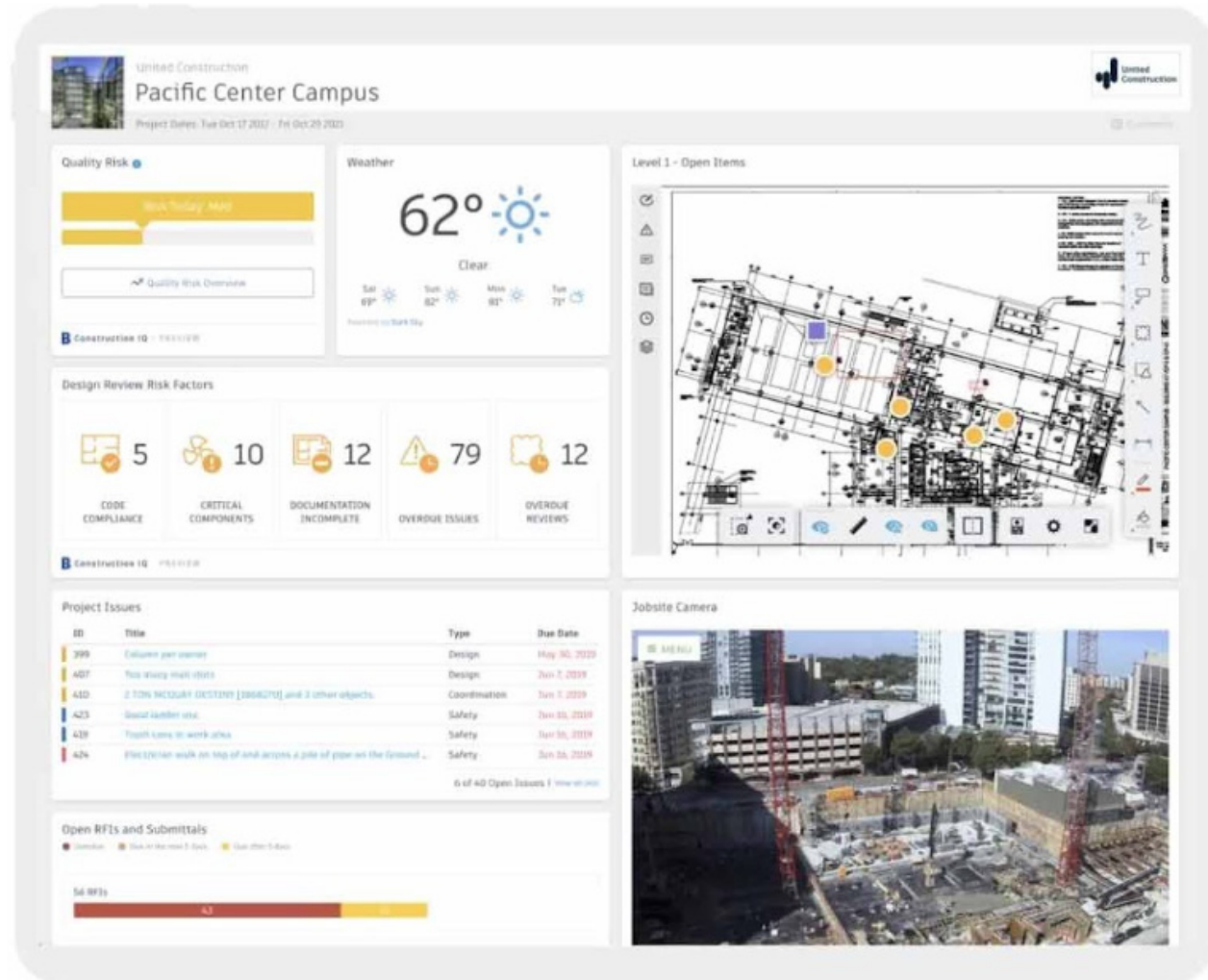
INTEGREERITUD RAKENDUSED KASUTAVAD SAMU ANDMEID

Väga erinevad rakendused pääsevad andmete ligi ja koguvad/kasutavad/analüüsivad erineval moel samu andmeid.



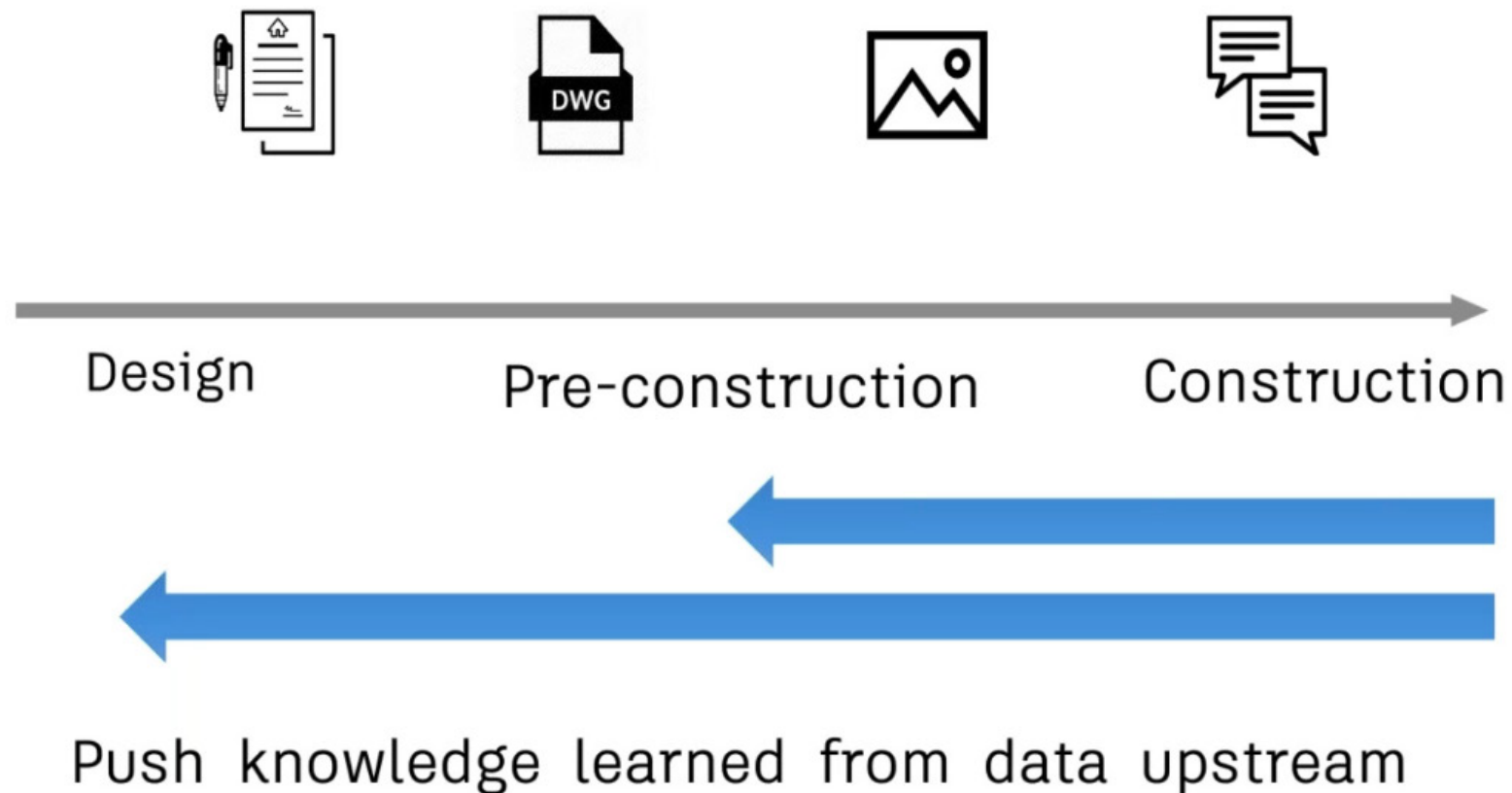
KOHANDATUD ÜLEVAADE IGALE ÜHELE VASTAVALT VAJADUSELE

Osapooled näevad erinevat,
nende vajadustele vastavat
kohandatud ülevaadet



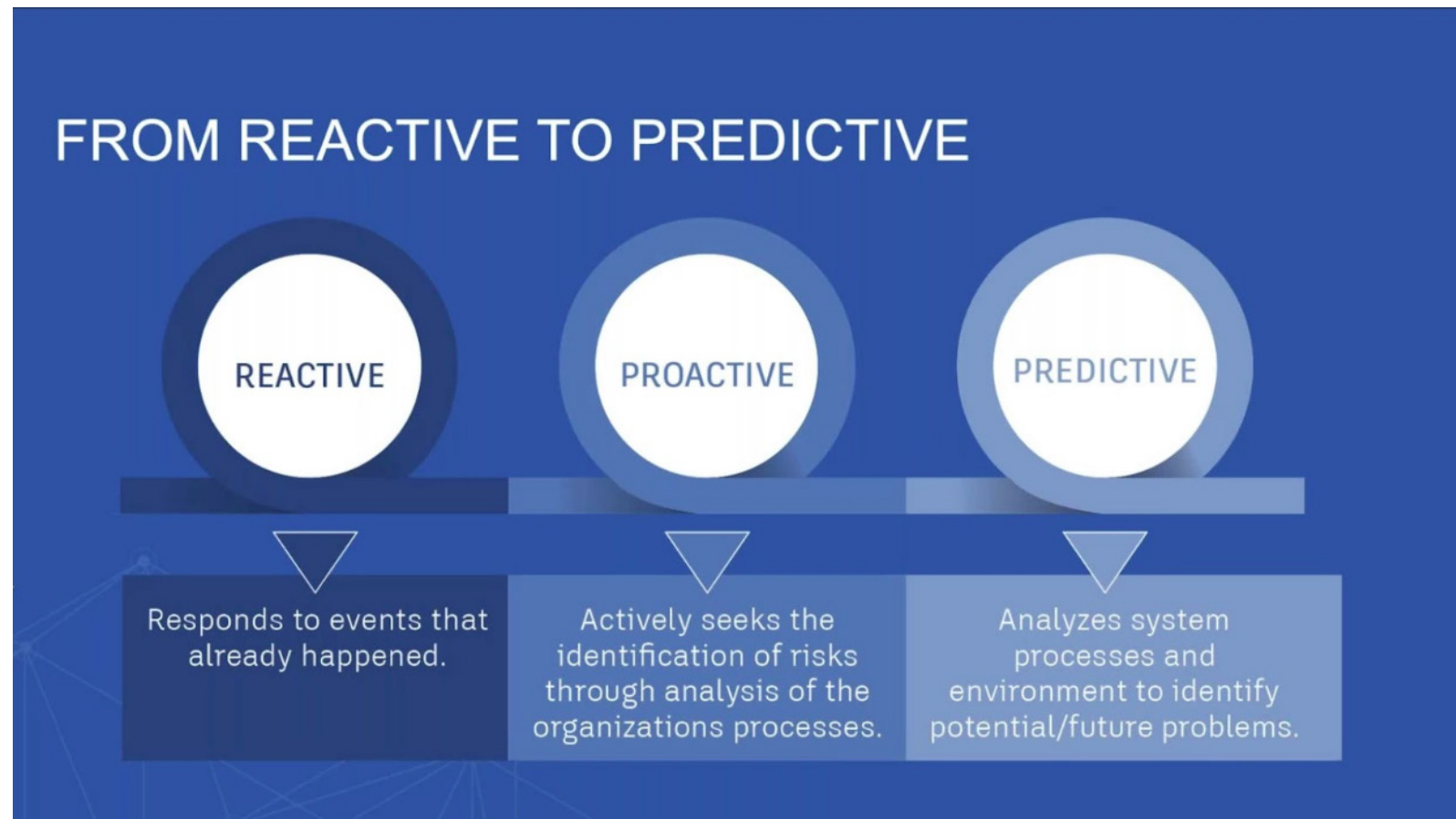
VÕIMALUS ÕPPIDA KOGEMUSTEST

Ehitusprojekti kogemusest õpitut saab uue projekti puhul lihtsamini kasutada.



REAGEERIMISE ASEMEL ENNETADA

Reageerimise asemel saab võimalikke tuleviku probleeme ennetada.

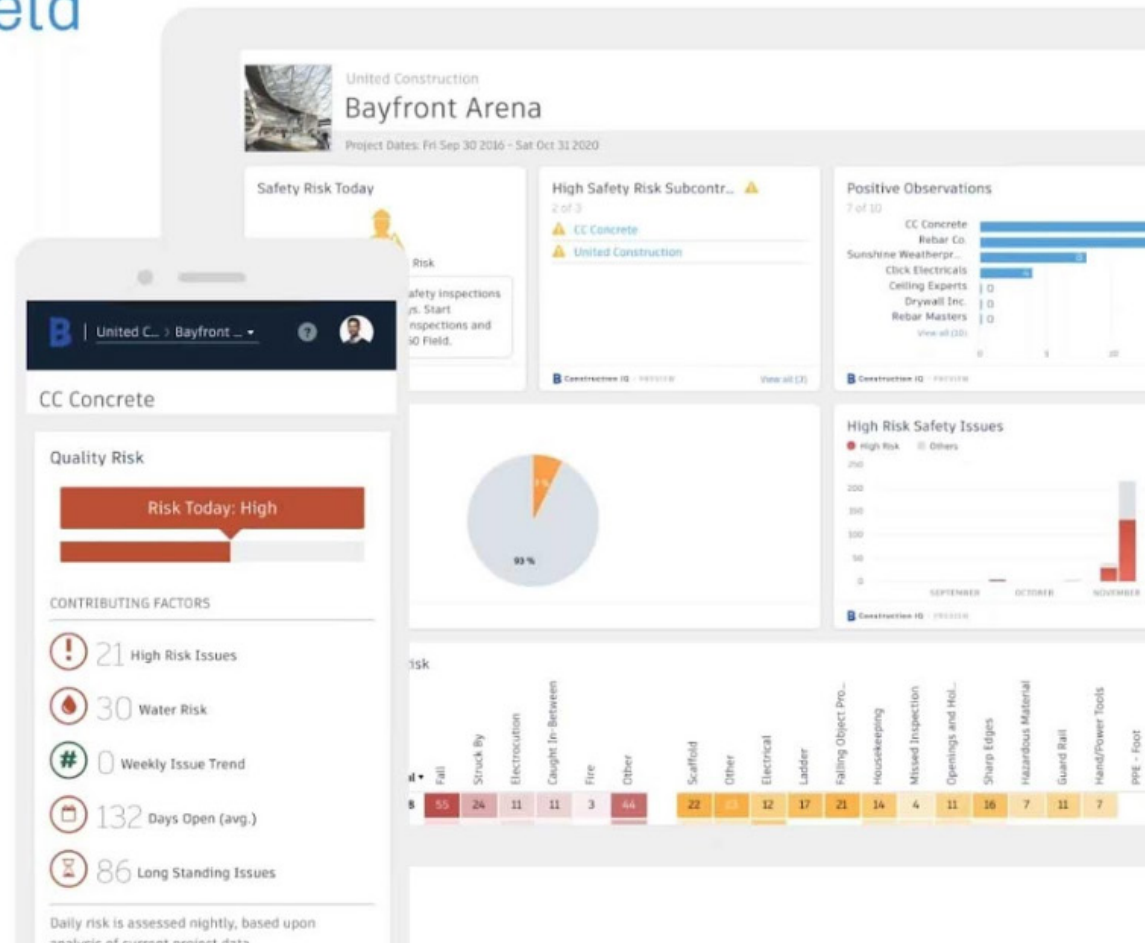


KASUTADA TARKU ABILISI (MASINŌPE/AI)

Construction IQ for Field

Quality & Safety Risk Analysis

- Make your data intelligent and actionable every day on the job site with Construction IQ machine learning and AI capabilities
- Construction IQ analyzes data and adds intelligence to surface Quality & Safety risks
- Project Leaders can identify high risk subcontractors and critical items using Construction IQ



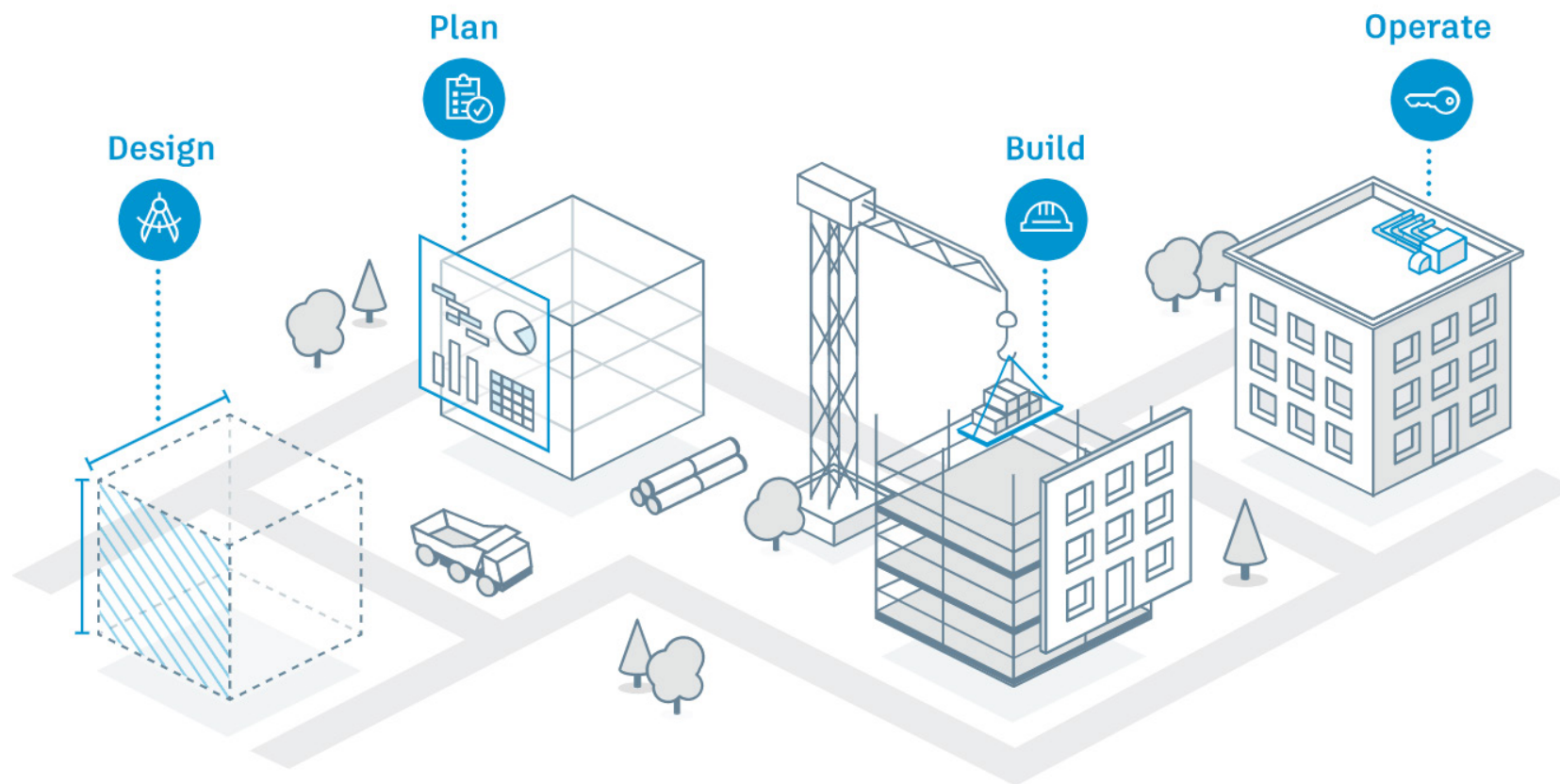
AUTODESK CONSTRUCTION CLOUD

<https://construction.autodesk.com/>



AUTODESK CONSTRUCTION CLOUD

Autodeski pilvepõhine lahendus, mis on mõeldud spetsiaalselt ehitussektorile ja loob seosed projekteerijast tellijani.



[Veebilink Autodeski kodulehele](#)

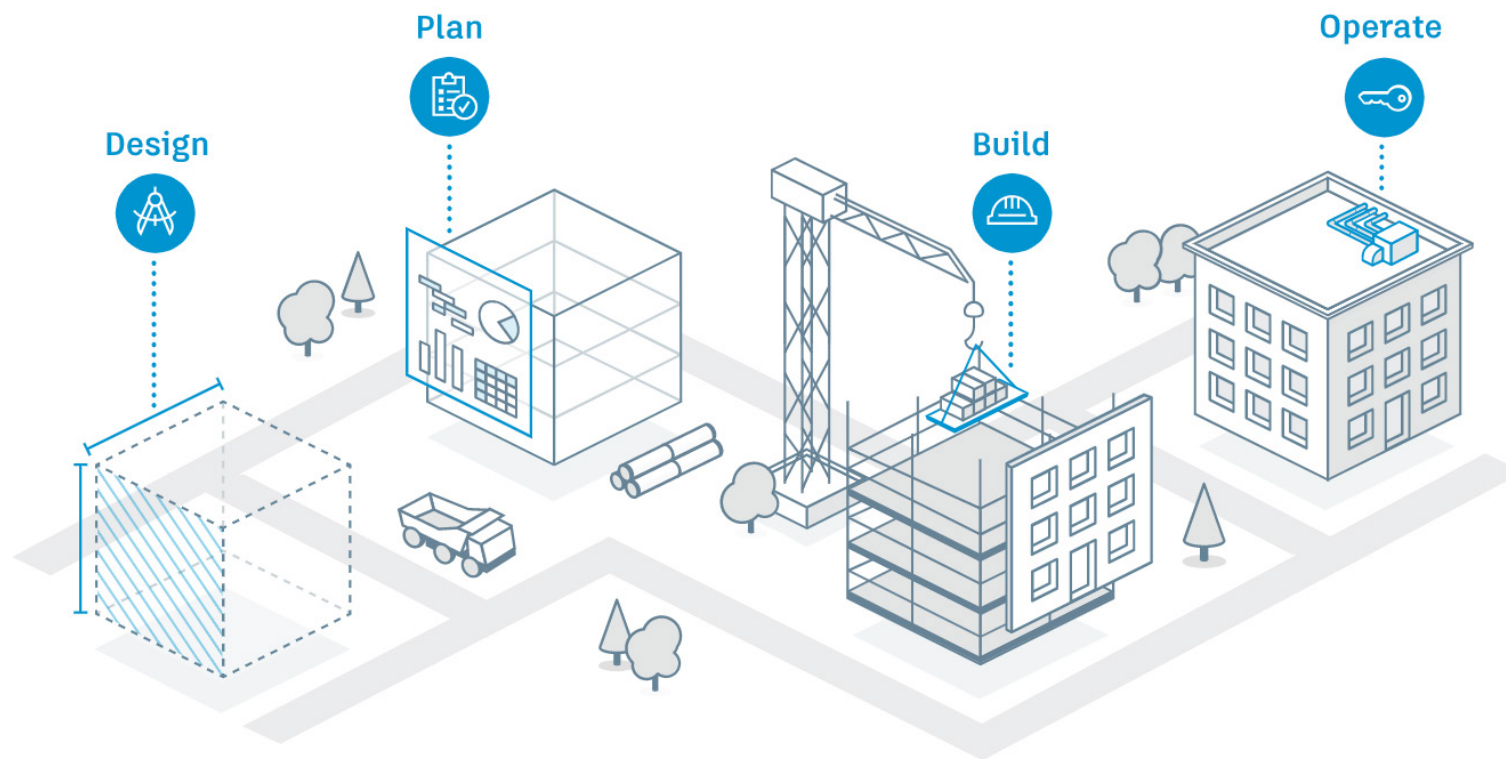
AUTODESKI ACC RAKENDUSED



[Veebilink Autodeski kodulehele](#)

AUTODESK DOCS

Projektipank ehk dokumendihaldussüsteem ehk ühtne infokeskkond ehk Common Data Environment (CDE) lahendus. Igal juhul toimib kui failide talletamise koht ja ka kui kõigi teiste info-voogude kese. Seejuures AEC Collection omanikel on TASUTA komplektiga kaasas.



[Veebilink Autodeski kodulehele](#)
[Mida sisaldab AEC Collection](#)

BIM COLLABORATE JA BIM COLLABORATE PRO

AUTODESK® BIM COLLABORATE

[BIM Collaborate](#) - mõeldud projektis koordineerivale, aga seejuures ehk otseselt ise mitte BIM tarkvarades projekteerivale osapoollele ja [BIM Collaborate Pro](#) - täis-funktsionaalsusega teenus Revit ja Civil 3D professionaalile, kes vajab (distsantsilt) üheaegselt osamudelites koostöö tegemise võimekust.

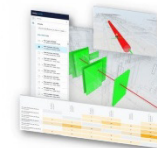
Docs

- 50+ avatavat faili-formaati
- Põjalik ligipääsuõiguste haldus
- 2D ja 3D võrdlus
- Veateated ja märkmed otse sisule



Model Coordination

- Automaatne ristumiste kontroll
- Ristumiste grupeerimine
- Koordinatsiooni kohased veateated



AUTODESK® REVIT® CIVIL 3D® Design Collaboration

- Sisukomplektide süsteemne publitseerimine
- Ülevaatuste teostamine & projekti jagamine
- Visuaalne versioonivõrdlus
- Projekteerimise veateated ja nende haldus



AUTODESK® BIM COLLABORATE PRO

LISAKS SISALDAB

Revit Cloud Worksharing

- Distsantsilt projektis osalemine
- Pilvepõhiselt projektmeeskonnas üheaegse koosöö teostamine



Collaboration for Civil 3D

- Projektide haldamine pilves
- Loo & kaasa *Data Shortcuts*-e
- Automaatne failide lukustamine



[Linkedin-i artikkel: Autodeski uuendused pilvepõhiseks koostööks projekteerimisel](#)

JA VEEL MITMEID AUTODESKI ENDA RAKENDUSI

The screenshot displays the Autodesk Construction Cloud website. The top navigation bar includes the Autodesk logo, the text 'AUTODESK CONSTRUCTION CLOUD™', a phone number '+44 1344 596130', a 'LOG IN' link with a dropdown arrow, and a blue 'TRY NOW >' button. Below this is a secondary navigation bar with links for 'PRODUCTS', 'SOLUTIONS', 'CUSTOMERS', 'RESOURCES', and 'PRICING'. The main content area is divided into two columns. The left column, with a blue background, is titled 'Featured Products' and lists four products: 'Autodesk Build' (Field and project management software for builders), 'Autodesk BIM Collaborate' (Design collaboration and model coordination software for design and VDC teams), 'Autodesk Takeoff' (2D and 3D Takeoff software for estimators), and 'BuildingConnected' (Bid Management software for owners and builders). At the bottom of this column is a link for 'All Products'. The right column is titled 'Construction Workflows' and is organized into four categories: 'Design' (with a compass icon, listing 'Design Authoring' and 'Design Collaboration'), 'Plan' (with a checklist icon, listing 'Coordination', 'Model Conditioning', 'Quantification', 'Bid Management', and 'Qualification'), 'Build' (with a hard hat icon, listing 'Project Management', 'Cost Management', 'Field Collaboration', 'Quality Management', 'Safety Management', and 'Project Closeout'), and 'Operate' (with a key icon, listing 'Facilities Management'). Below these workflows is a section titled 'Construction Platform' with four sub-links: 'Document Management', 'Administration', 'Insights', and 'Integrations'.

AUTODESK CONSTRUCTION CLOUD™ +44 1344 596130 LOG IN TRY NOW >

PRODUCTS SOLUTIONS CUSTOMERS RESOURCES PRICING

Featured Products

- Autodesk Build**
Field and project management software for builders
- Autodesk BIM Collaborate**
Design collaboration and model coordination software for design and VDC teams
- Autodesk Takeoff**
2D and 3D Takeoff software for estimators
- BuildingConnected**
Bid Management software for owners and builders

[All Products](#)

Construction Workflows

Design	Plan	Build	Operate
Design Authoring Design Collaboration	Coordination Model Conditioning Quantification Bid Management Qualification	Project Management Cost Management Field Collaboration Quality Management Safety Management Project Closeout	Facilities Management

Construction Platform

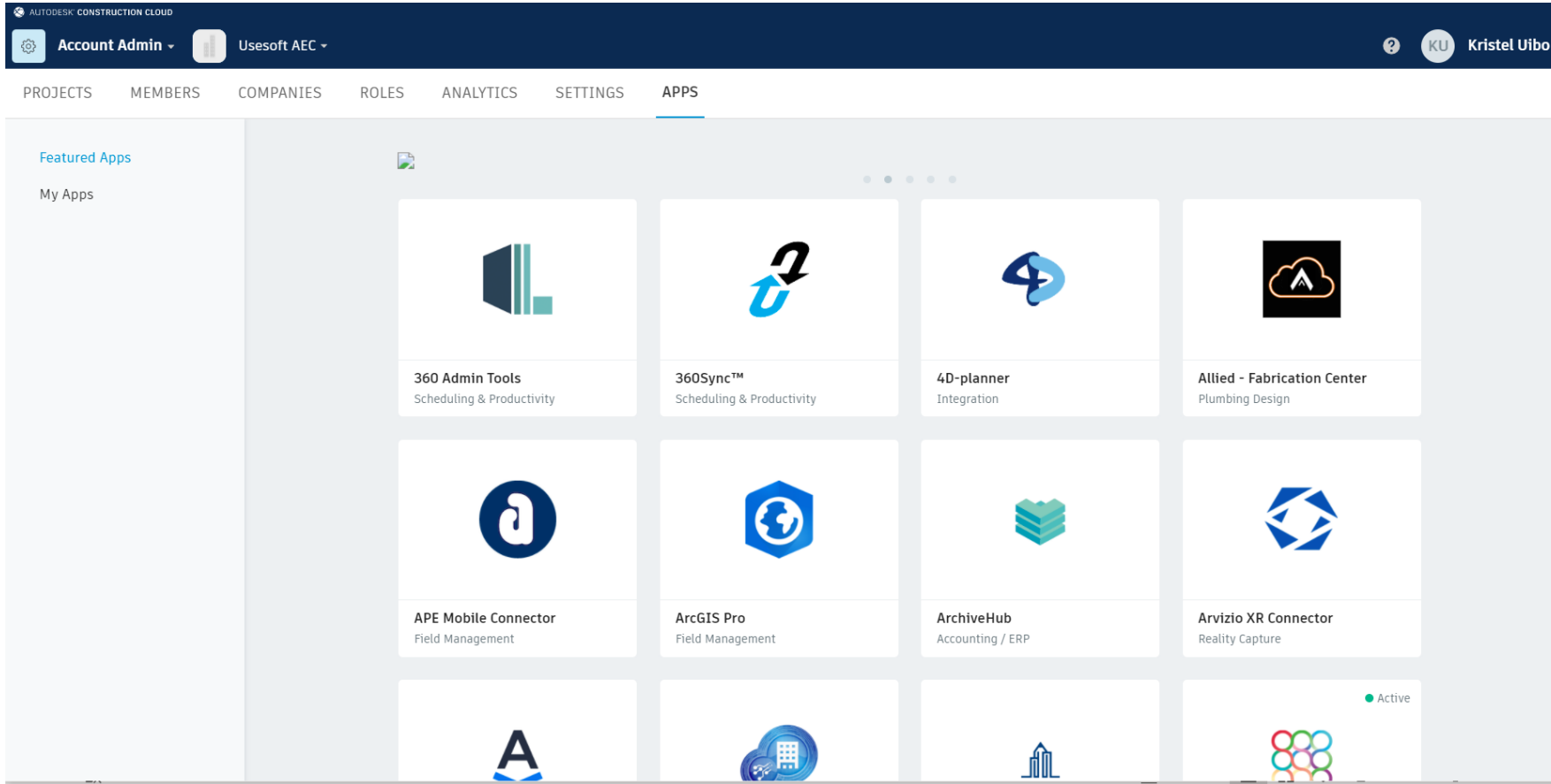
Document Management	Administration	Insights	Integrations
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MUUD ACC RAKENDUSED

<https://forge.autodesk.com/customers>



MUUD ACC RAKENDUSED



<https://forge.autodesk.com/customers>
Forge Partner Talks: BIM Standards & Checking

MUUD ACC RAKENDUSED



EXCEL, WORD

LocationsTemplate (2).xlsx (V3) ▾

Excel LocationsTemplate (2) - View-only ▾ Search (Alt + Q) Kristel Uiibo

File Home Insert Draw Page Layout Formulas Data Review View Help Viewing ▾ Comments

Clipboard: Undo, Paste, Copy, Format Painter
Font: Calibri, 12, Bold, Italic, Underline, Paragraph, Font Color, Background Color
Alignment: Wrap Text, Merge & Center
Number: General, Currency, Percentage, Decimals, Fractions
Styles: Conditional Formatting, Format As Table, Styles
Cells: Insert, Delete, Format
Editing: AutoSum, Clear, Sort & Filter, Find & Select

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	Tier 1	Tier 2	Tier 3	Tier 4	Tier 5	Tier 6											
2	Väliala																
3		Väliala 1															
4		Väliala 2															
5	Hoone 1																
6		Parapet															
7		Roof															
8			HVAC														
9		4 Floor															
10			Penthouse A														
11				Living Room													
12				Closet													
13				Bath Room													
14				Kitchen													
15				Master BedRoom													
16				Walk-in Closet													
17				Ensuite													
18			Rm 406														
19			Rm 405														
20			Rm 404														
21			Rm 403														

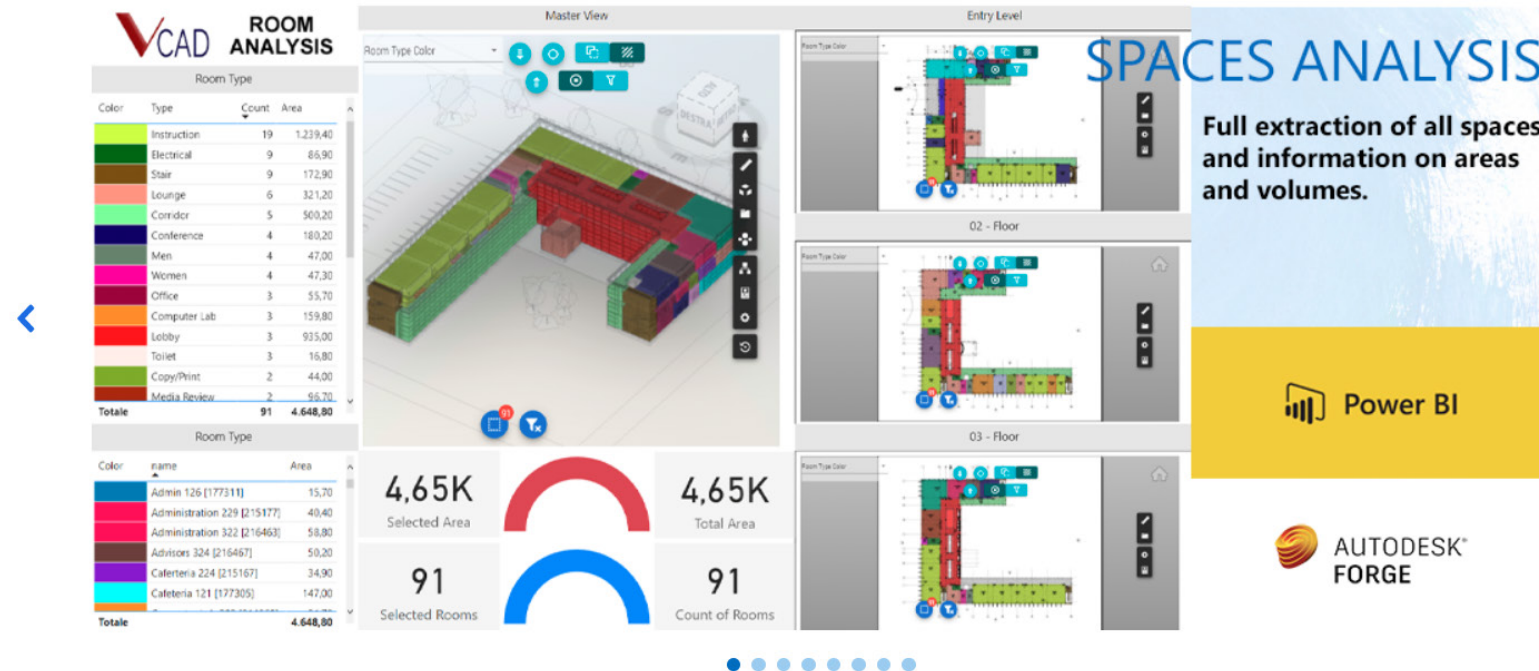
Empty template 3-Tier full path example 3-Tier outline example 4-Tier outline example +

NÄITED: V-CAD

Blogic

COMPANY ▾ VCAD ▾ BIM 360® PRICING BLOG LOGIN REGISTER 🔍

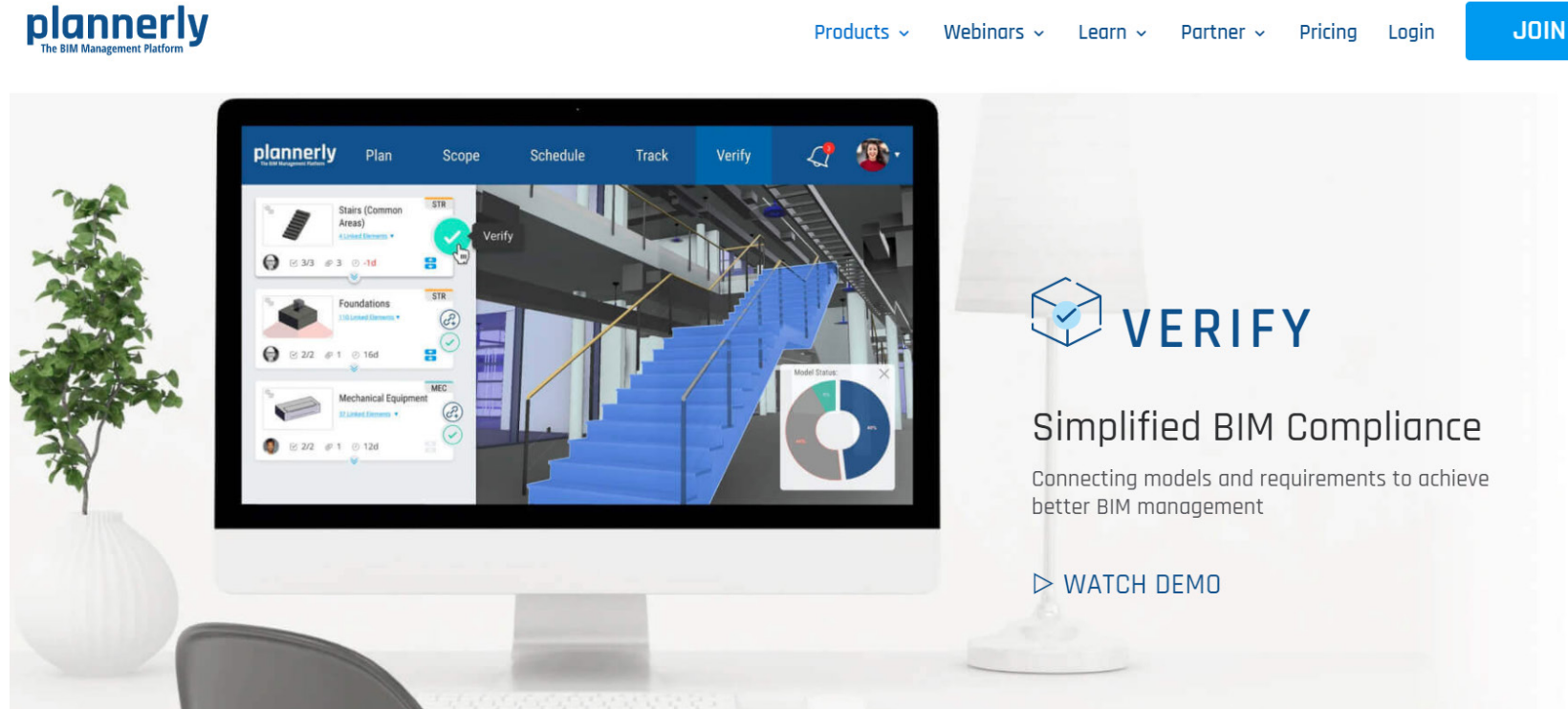
You decide how to use Vcad!



<https://www.bimservices.it>

NÄITED: PLANNERLY VERIFY

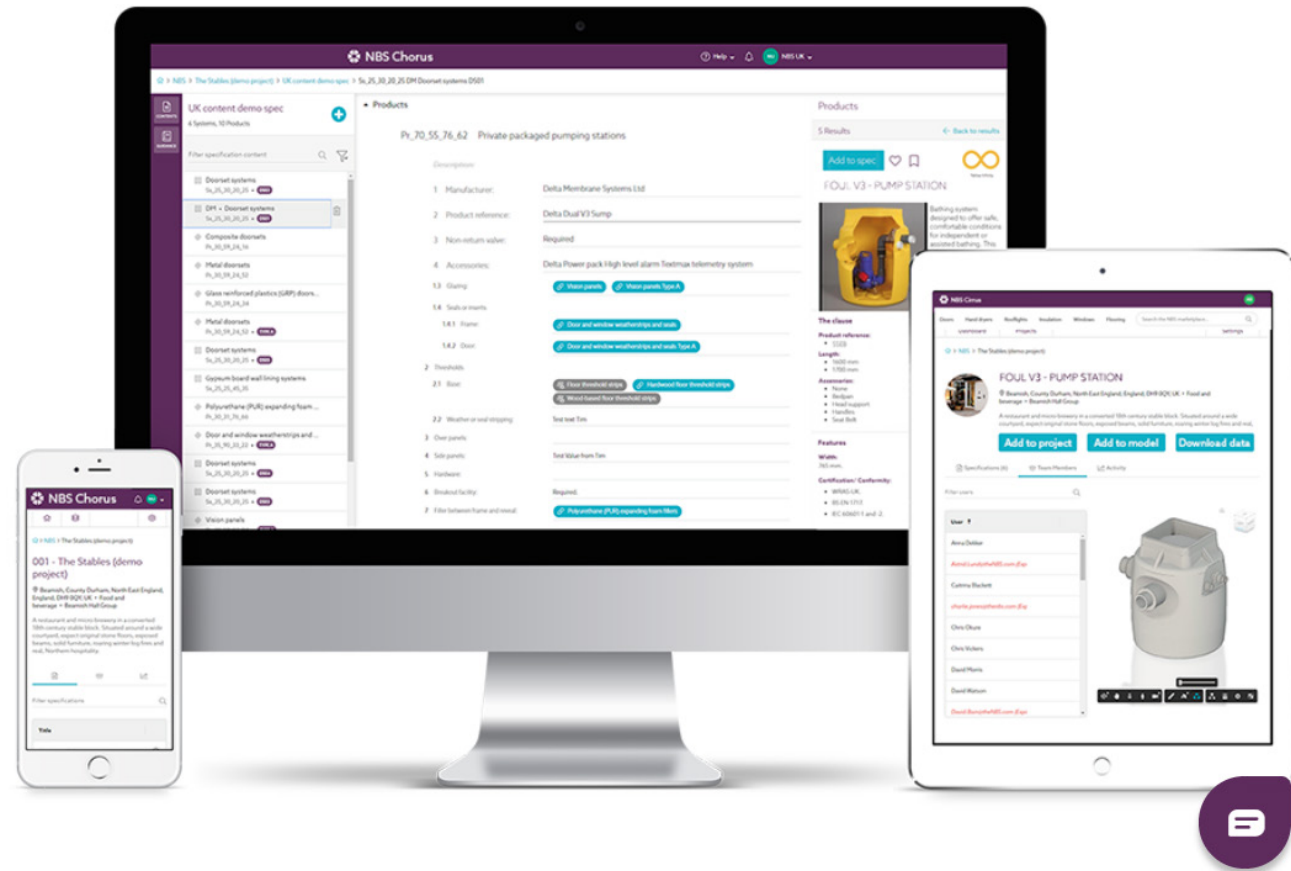
Aitab
visualiseerida
infonõudeid
mudeli konteksti.



<https://www.plannerly.com/verify>

NÄITED: NBS CHORUS

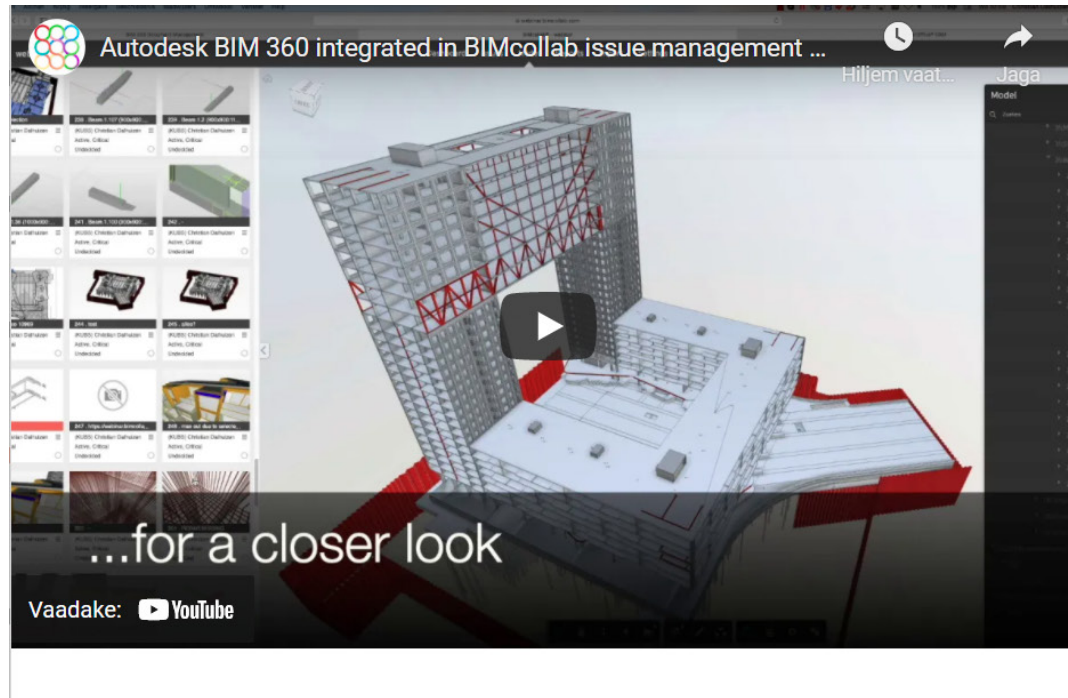
Aitab
spetsifikatsioonide
(eg seletuskirja)
sidumisel otse native
mudeliga (Forge)



<https://www.thenbs.com/nbs-chorus>

NÄITED: BIM COLLAB CLOUD

Desktop tarkvara veebiversioon



Connecting BIM teams

The Autodesk BIM360 integration provides BIM teams access to models stored in BIM 360 Docs, directly from the BIMcollab web application. Team members can review the federated model, create issues or review existing issues without the need for uploading files to a secondary repository or installing a model viewer.

Issues can be looked up or created in the context of the 3D model, wherever you work. They can be retrieved, resolved, created and commented on.

This integration is part of our *Connected Plan* and *Enterprise plan*.

[More about our Connected Plan](#)

<https://www.bimcollab.com/en/products/bimcollab-cloud/software-connected/bim-360-docs-integration>

ACC CONNECT JA POWER AUTOMATE

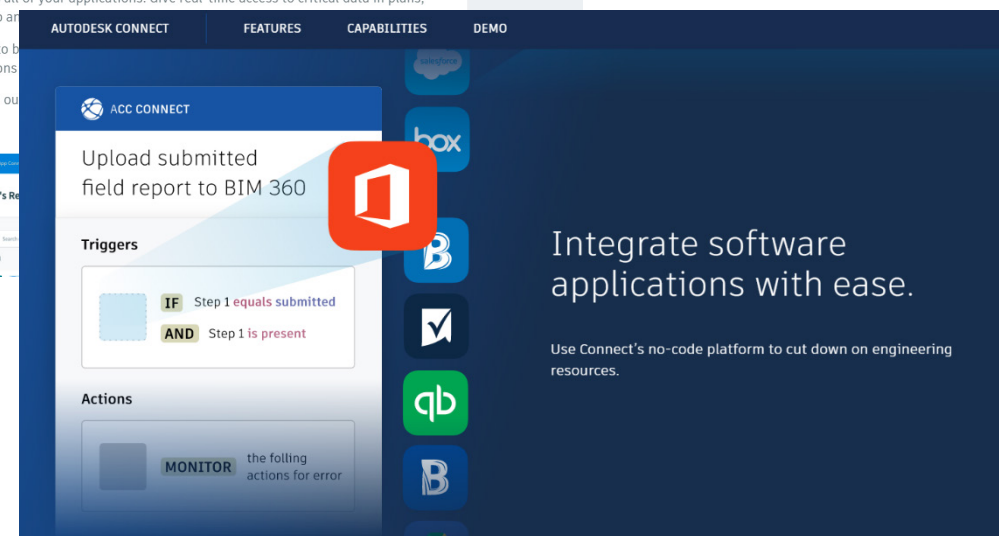
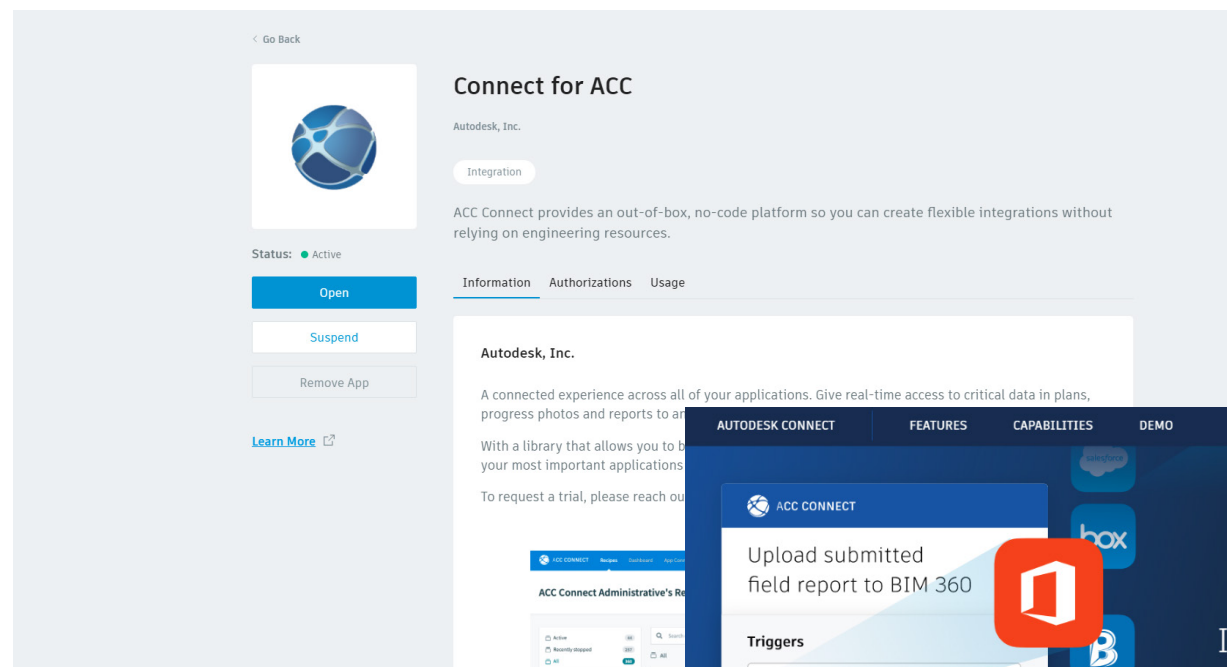
construction.autodesk.com/products/autodesk-connect-automate-workflows-with-microsoft-power-automate



AUTODESK FORGE CONNECT

Tasuline lihtsustatud
töövahend ACC pilves
asuvate andmete, mudelite
jne liigutamiseks muudesse
rakendustesse.

200+ ettevalmistatud
liidestust erinevatesse
rakendustesse

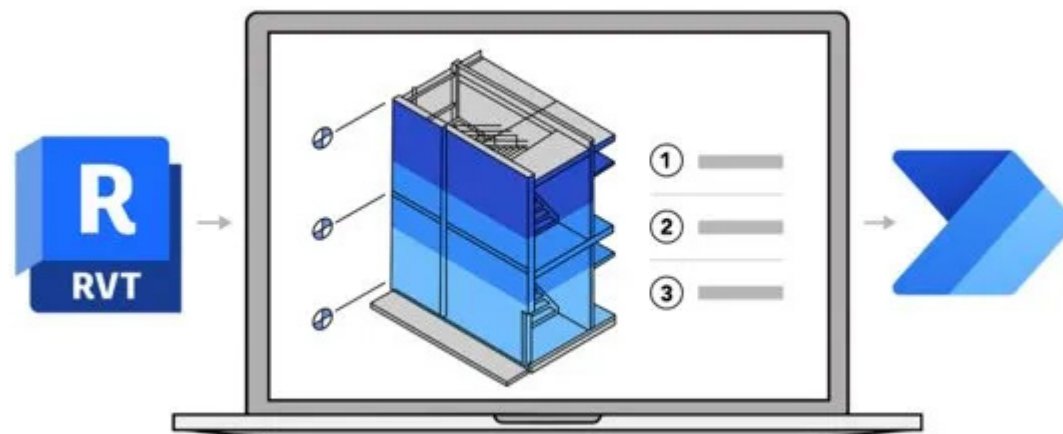


<https://construction.autodesk.com/products/autodesk-connect>

MICROSOFT POWER AUTOMATE

Revit to Microsoft Power Automate
ühendab Reviti andmed Microsofti
ökosüsteemi ja rakendustega.

Reviti mudeli arenedes võid saata
meeskonna liikmetele sellekohaseid
automaatseid teavitusi Outlooki,
Teamsi või Slacki ning palju muud.



[automate-workflows-using-revit-data-with-microsoft-power-automate](#)

AUTODESK FORGE

<https://forge.autodesk.com>



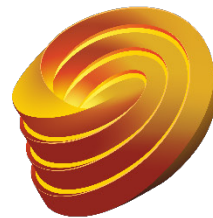
MIS ON AUTODESK FORGE

Autodesk FORGE on API-d, mis aitavad kasutada erinevates rakendustes mudelite ja ehitusinfo andmeid.

On leidnud rakendust näiteks:

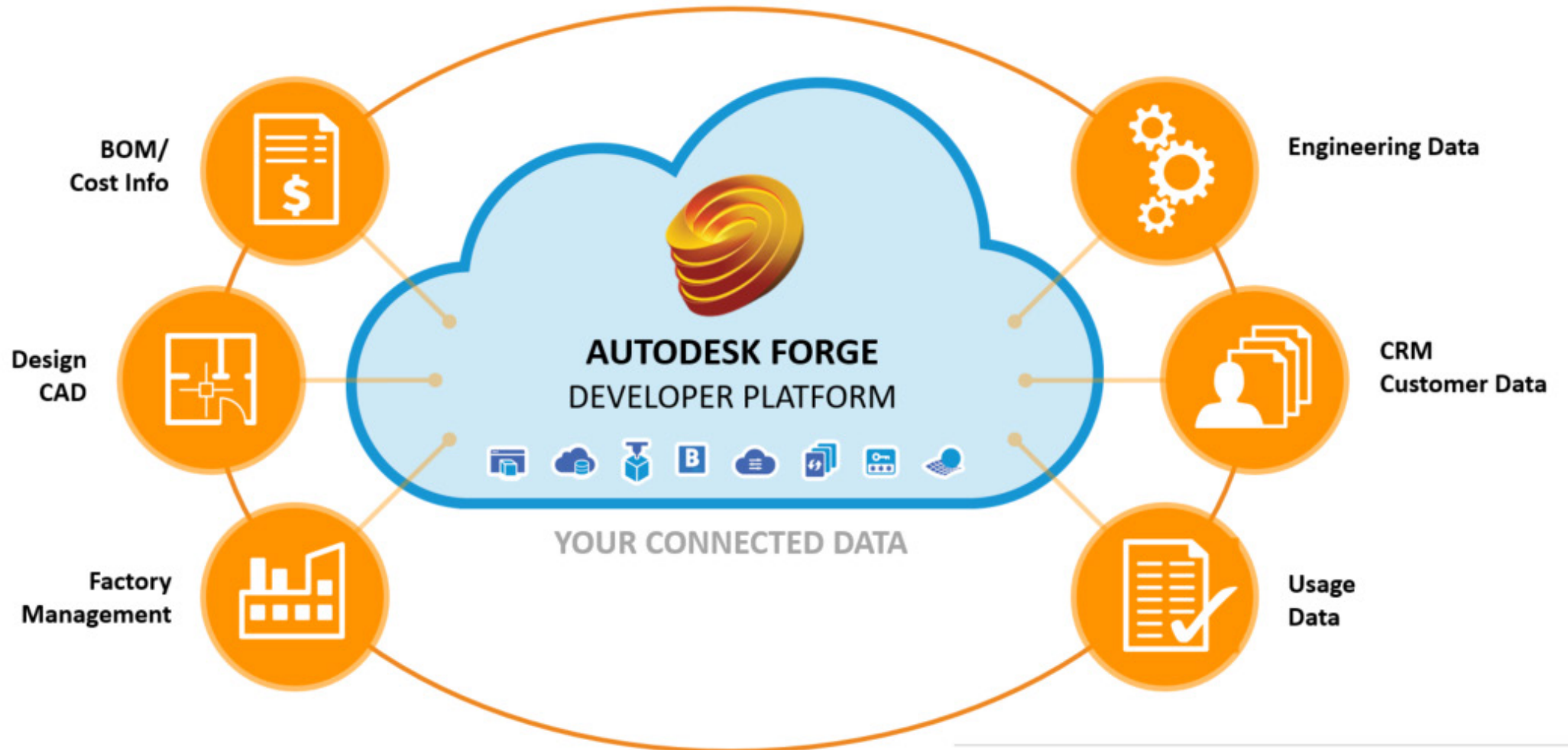
- andmete analüüsil ja visualiseerimisel;
- digitaalse teisiku loomisel;
- liit- ja virtuaalse reaalsuse rakendustes;
- SaaS liidestamisel;
- erinevate kataloogide;
- Konfiguraatorite;
- disaini automatiseerimise;
- ja fotode 3D-ks viimisel.

<https://forge.autodesk.com>



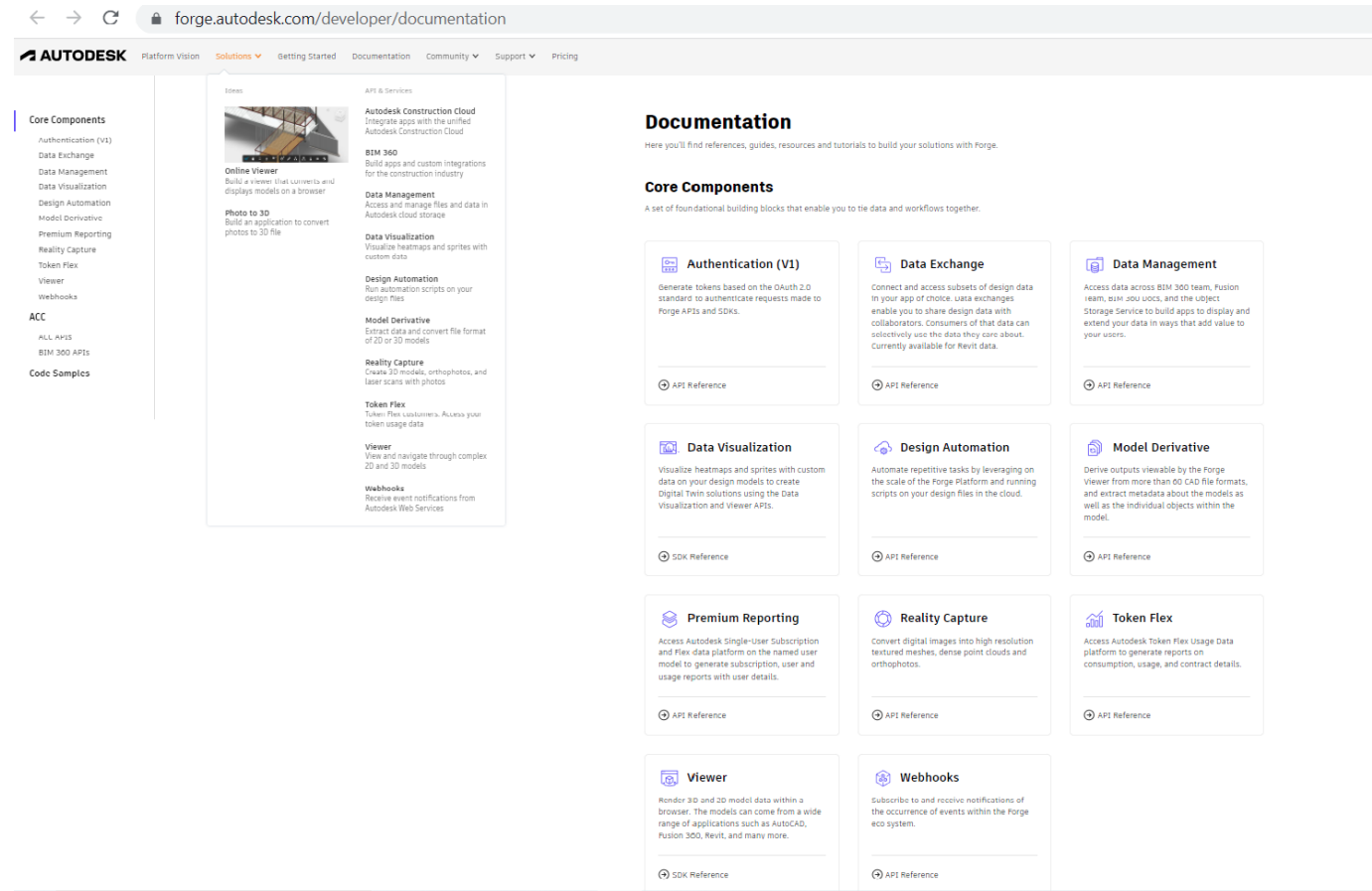
AUTODESK FORGE®

Forge is a Connected Developer Platform that Powers the Future of Making Things



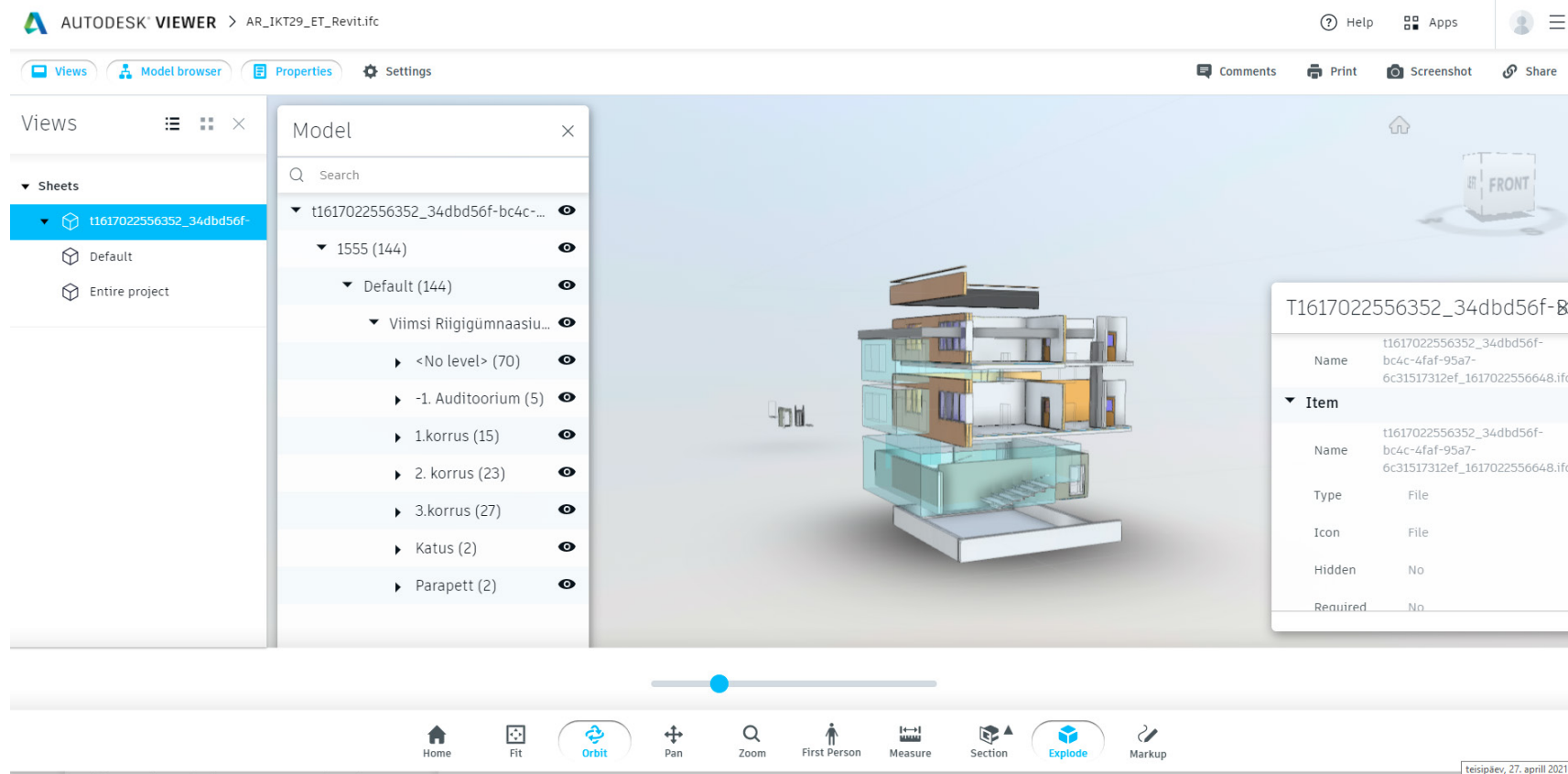
AUTODESK FORGE API-D

- Authentication;
- Data Exchange;
- Data Management;
- Data Visualization;
- Design Automation;
- Model Derivative;
- Premium reporting;
- Reality Capture;
- Token Flex;
- Viewer;
- Webhooks.



<https://forge.autodesk.com/developer/documentation>

FORGE VIEWER



<https://viewer.autodesk.com>

https://forge.autodesk.com/en/docs/viewer/v2/developers_guide/overview/

https://forge.autodesk.com/en/docs/viewer/v7/developers_guide/viewer_basics/starting-html

https://forge.autodesk.com/en/docs/model-derivative/v2/developers_guide/supported-translations

TESTIME: ACC MUDELID JA PROJEKTID >>> POWERBI, EXCEL, SHAREPOINT, TEAMS

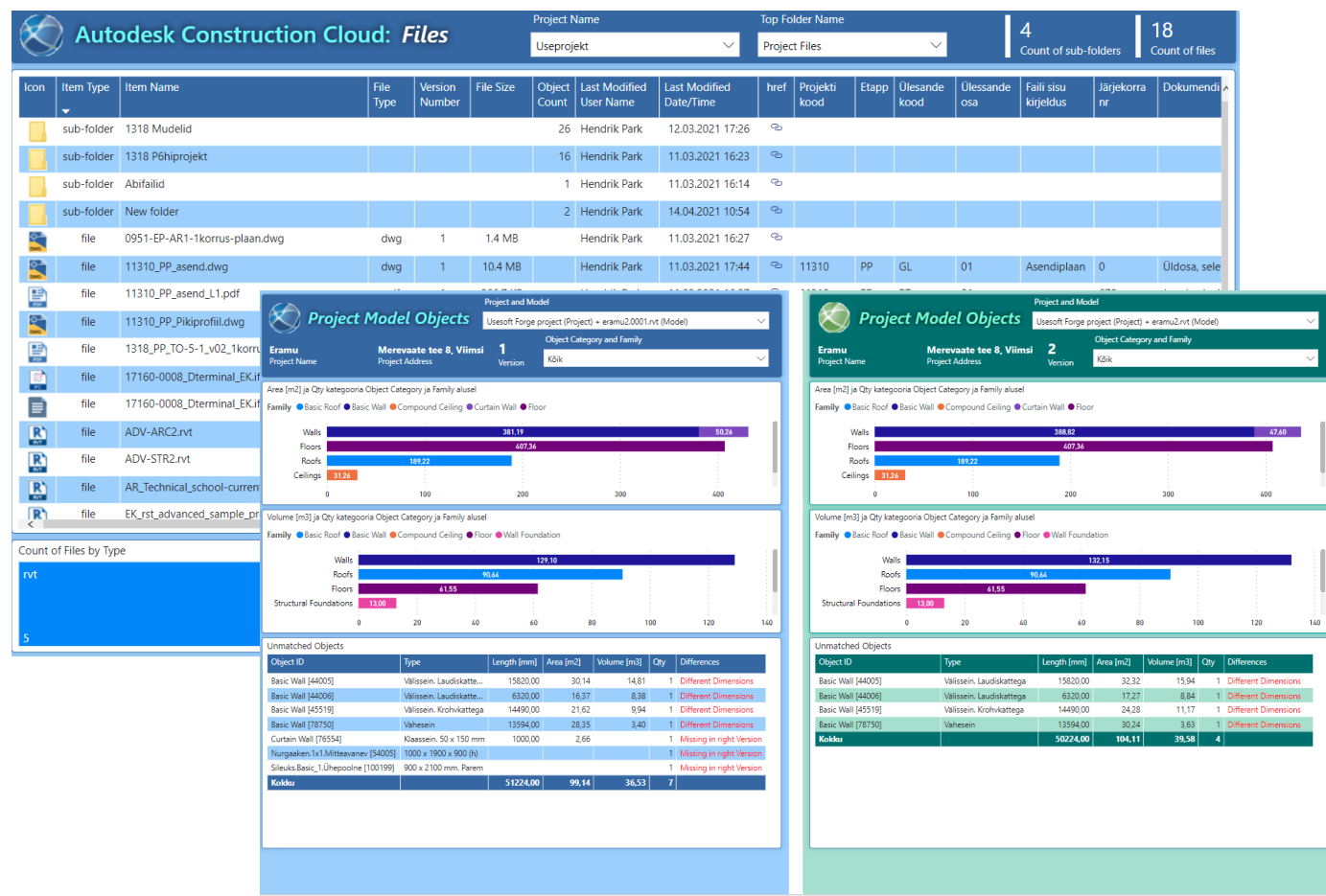


[Link veebirakendusele](#)

ACC MUDELID JA PROJEKTID POWER BI-S

Testisime:

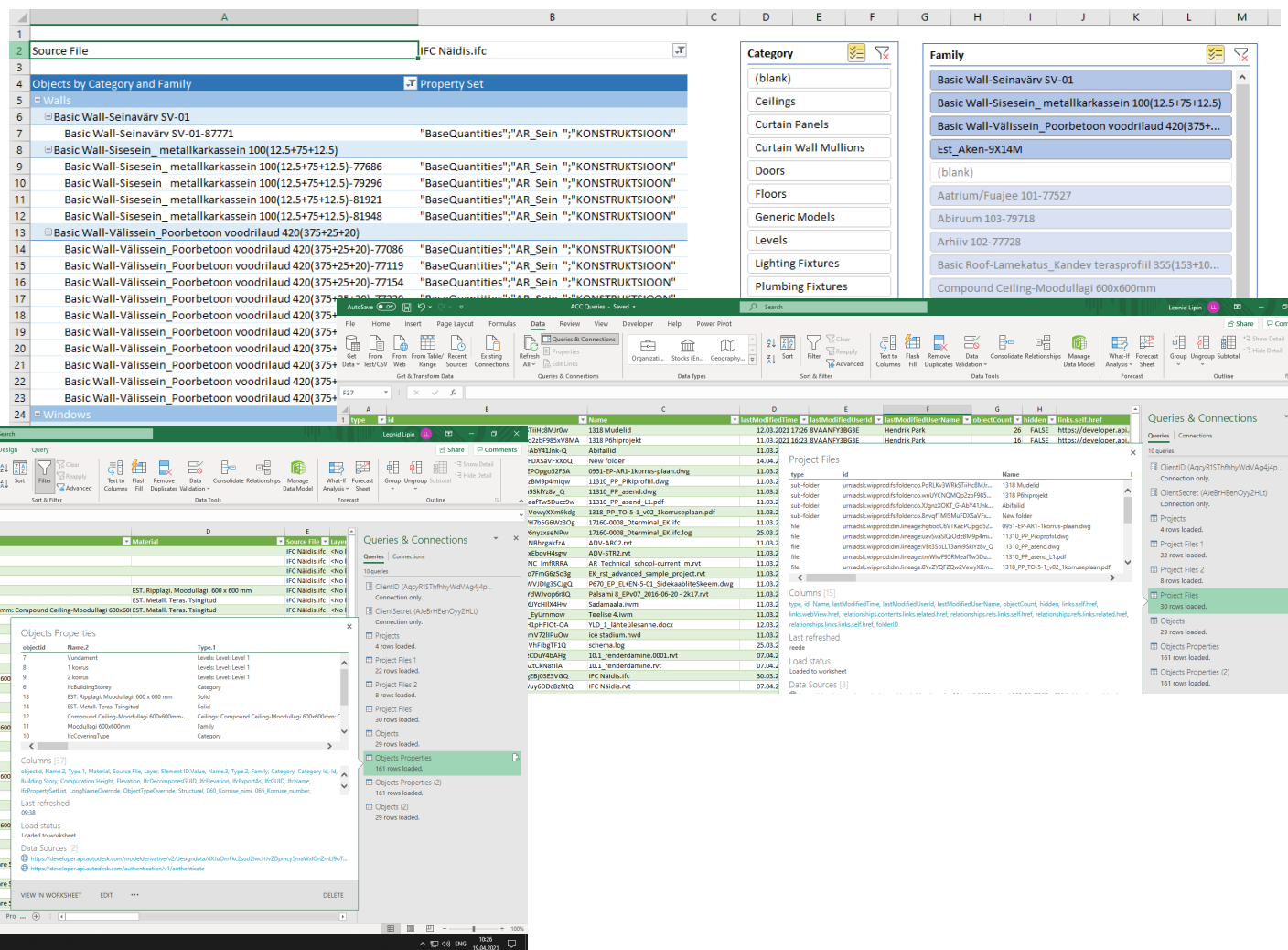
- ACC-s asuvate failide ja folderite ja nendega seotud info kättesaadavust;
- Reviti mudelite andmete ja versioonide kättesaadavust.



[Link veebirakendusele](#)

Testisime:

- ACC-s asuvate failide ja folderite ja nendega seotud info kättesaadavust;
- IFC ja Reviti mudelite andmete kättesaadavust.



ACC MUDELID JA PROJEKTID SHAREPOINT-IS

SharePoint

1
⚙️
?
KI

ForgeTest

Private group ✨ Not following 👤 4 members

Home
Conversations
Documents
Notebook
Pages
ForgeViewer
Forge Items
Site contents
Recycle bin
Edit

Edit

Forge Viewer kasutamine ehitussektoris

File Name	ACC Project	Urn
0951-EP-AR1-1korru-plaan.dwg	Useprojekt	dXlUOmFkc2sud2lwCHjvZDpmcy5maWxlOnZmLnMhnNm9kQzZWVtRVRBPcGdvNTJGNUE/dmVyc2lvbj0x
11310_PP_Pikiprofil.dwg	Useprojekt	dXlUOmFkc2sud2lwCHjvZDpmcy5maWxlOnZmLnVhdnN2YVNhUWIPZHpCTTlwNG1pcXc/dmVyc2lvbj0x
11310_PP_asend.dwg	Useprojekt	dXlUOmFkc2sud2lwCHjvZDpmcy5maWxlOnZmLIZCdDNTYkxMVdNhbtTA2aZejh2X1E/dmVyc2lvbj0x
17160-0008_Dterminal_EK.ifc	Useprojekt	dXlUOmFkc2sud2lwCHjvZDpmcy5maWxlOnZmLyhlLVBB5JBZU1ZXSDiNUc2V3ozT2c/dmVyc2lvbj0x
ADV-ARC2.rvt	Useprojekt	dXlUOmFkc2sud2lwCHjvZDpmcy5maWxlOnZmLjcxS1hyWHJmUnhtZ05CaHpnYWtmekE/dmVyc2lvbj0x

The drawing is a detailed architectural floor plan of a building. It features numerous rooms, corridors, and structural elements. Key annotations include:

- A large central area labeled "1073 in."
- Dimensions such as "20 in.", "63 in.", "47 in.", "68 in.", "13 in.", "17 in.", "90 in.", "31 in.", "62 in.", "35 in.", and "1750 mm".
- Room numbers like "101", "102", "103", "104", "105", "106", "107", "108", "109", "110", "111", "112", "113", "114", "115", "116", "117", "118", "119", "120", "121", "122", "123", "124", "125", "126", "127", "128", "129", "130", "131", "132", "133", "134", "135", "136", "137", "138", "139", "140", "141", "142", "143", "144", "145", "146", "147", "148", "149", "150", "151", "152", "153", "154", "155", "156", "157", "158", "159", "160", "161", "162", "163", "164", "165", "166", "167", "168", "169", "170", "171", "172", "173", "174", "175", "176", "177", "178", "179", "180", "181", "182", "183", "184", "185", "186", "187", "188", "189", "190", "191", "192", "193", "194", "195", "196", "197", "198", "199", "200".
- Structural symbols for walls, doors, windows, and stairs.
- Text labels like "SS", "KL", "AL", "B", "C", "D", "E", "F", "G", "H", "I", "J", "K", "L", "M", "N", "O", "P", "Q", "R", "S", "T", "U", "V", "W", "X", "Y", "Z", "AA", "AB", "AC", "AD", "AE", "AF", "AG", "AH", "AI", "AJ", "AK", "AL", "AM", "AN", "AO", "AP", "AQ", "AR", "AS", "AT", "AU", "AV", "AW", "AX", "AY", "AZ", "BA", "BB", "BC", "BD", "BE", "BF", "BG", "BH", "BI", "BJ", "BK", "BL", "BM", "BN", "BO", "BP", "BQ", "BR", "BS", "BT", "BU", "BV", "BW", "BX", "BY", "BZ", "CA", "CB", "CC", "CD", "CE", "CF", "CG", "CH", "CI", "CJ", "CK", "CL", "CM", "CN", "CO", "CP", "CQ", "CR", "CS", "CT", "CU", "CV", "CW", "CX", "CY", "CZ", "DA", "DB", "DC", "DD", "DE", "DF", "DG", "DH", "DI", "DJ", "DK", "DL", "DM", "DN", "DO", "DP", "DQ", "DR", "DS", "DT", "DU", "DV", "DW", "DX", "DY", "DZ", "EA", "EB", "EC", "ED", "EE", "EF", "EG", "EH", "EI", "EJ", "EK", "EL", "EM", "EN", "EO", "EP", "EQ", "ER", "ES", "ET", "EU", "EV", "EW", "EX", "EY", "EZ", "FA", "FB", "FC", "FD", "FE", "FF", "FG", "FH", "FI", "FJ", "FK", "FL", "FM", "FN", "FO", "FP", "FQ", "FR", "FS", "FT", "FU", "FV", "FW", "FX", "FY", "FZ", "GA", "GB", "GC", "GD", "GE", "GF", "GG", "GH", "GI", "GJ", "GK", "GL", "GM", "GN", "GO", "GP", "GQ", "GR", "GS", "GT", "GU", "GV", "GW", "GX", "GY", "GZ", "HA", "HB", "HC", "HD", "HE", "HF", "HG", "HH", "HI", "HJ", "HK", "HL", "HM", "HN", "HO", "HP", "HQ", "HR", "HS", "HT", "HU", "HV", "HW", "HX", "HY", "HZ", "IA", "IB", "IC", "ID", "IE", "IF", "IG", "IH", "II", "IJ", "IK", "IL", "IM", "IN", "IO", "IP", "IQ", "IR", "IS", "IT", "IU", "IV", "IW", "IX", "IY", "IZ", "JA", "JB", "JC", "JD", "JE", "JF", "JG", "JH", "JI", "JJ", "JK", "JL", "JM", "JN", "JO", "JP", "JQ", "JR", "JS", "JT", "JU", "JV", "JW", "JX", "JY", "JZ", "KA", "KB", "KC", "KD", "KE", "KF", "KG", "KH", "KI", "KJ", "KL", "KM", "KN", "KO", "KP", "KQ", "KR", "KS", "KT", "KU", "KV", "KW", "KX", "KY", "KZ", "LA", "LB", "LC", "LD", "LE", "LF", "LG", "LH", "LI", "LJ", "LK", "LL", "LM", "LN", "LO", "LP", "LQ", "LR", "LS", "LT", "LU", "LV", "LW", "LX", "LY", "LZ", "MA", "MB", "MC", "MD", "ME", "MF", "MG", "MH", "MI", "MJ", "MK", "ML", "MM", "MN", "MO", "MP", "MQ", "MR", "MS", "MT", "MU", "MV", "MW", "MX", "MY", "MZ", "NA", "NB", "NC", "ND", "NE", "NF", "NG", "NH", "NI", "NJ", "NK", "NL", "NM", "NO", "NP", "NQ", "NR", "NS", "NT", "NU", "NV", "NW", "NX", "NY", "NZ", "OA", "OB", "OC", "OD", "OE", "OF", "OG", "OH", "OI", "OJ", "OK", "OL", "OM", "ON", "OO", "OP", "OQ", "OR", "OS", "OT", "OU", "OV", "OW", "OX", "OY", "OZ", "PA", "PB", "PC", "PD", "PE", "PF", "PG", "PH", "PI", "PJ", "PK", "PL", "PM", "PN", "PO", "PP", "PQ", "PR", "PS", "PT", "PU", "PV", "PW", "PX", "PY", "PZ", "QA", "QB", "QC", "QD", "QE", "QF", "QG", "QH", "QI", "QJ", "QK", "QL", "QM", "QN", "QO", "QP", "QQ", "QR", "QS", "QT", "QU", "QV", "QW", "QX", "QY", "QZ", "RA", "RB", "RC", "RD", "RE", "RF", "RG", "RH", "RI", "RJ", "RK", "RL", "RM", "RN", "RO", "RP", "RQ", "RR", "RS", "RT", "RU", "RV", "RW", "RX", "RY", "RZ", "SA", "SB", "SC", "SD", "SE", "SF", "SG", "SH", "SI", "SJ", "SK", "SL", "SM", "SN", "SO", "SP", "SQ", "SR", "SS", "ST", "SU", "SV", "SW", "SX", "SY", "SZ", "TA", "TB", "TC", "TD", "TE", "TF", "TG", "TH", "TI", "TJ", "TK", "TL", "TM", "TN", "TO", "TP", "TQ", "TR", "TS", "TT", "TU", "TV", "TW", "TX", "TY", "TZ", "UA", "UB", "UC", "UD", "UE", "UF", "UG", "UH", "UI", "UJ", "UK", "UL", "UM", "UN", "UO", "UP", "UQ", "UR", "US", "UT", "UU", "UV", "UW", "UX", "UY", "UZ", "VA", "VB", "VC", "VD", "VE", "VF", "VG", "VH", "VI", "VJ", "VK", "VL", "VM", "VN", "VO", "VP", "VQ", "VR", "VS", "VT", "VU", "VV", "VW", "VX", "VY", "VZ", "WA", "WB", "WC", "WD", "WE", "WF", "WG", "WH", "WI", "WJ", "WK", "WL", "WM", "WN", "WO", "WP", "WQ", "WR", "WS", "WT", "WU", "WV", "WW", "WX", "WY", "WZ", "XA", "XB", "XC", "XD", "XE", "XF", "XG", "XH", "XI", "XJ", "XK", "XL", "XM", "XN", "XO", "XP", "XQ", "XR", "XS", "XT", "XU", "XV", "XW", "XX", "XY", "XZ", "YA", "YB", "YC", "YD", "YE", "YF", "YG", "YH", "YI", "YJ", "YK", "YL", "YM", "YN", "YO", "YP", "YQ", "YR", "YS", "YT", "YU", "YV", "YW", "YX", "YY", "YZ", "ZA", "ZB", "ZC", "ZD", "ZE", "ZF", "ZG", "ZH", "ZI", "ZJ", "ZK", "ZL", "ZM", "ZN", "ZO", "ZP", "ZQ", "ZR", "ZS", "ZT", "ZU", "ZV", "ZW", "ZX", "ZY", "ZZ".

ACC MUDELID JA PROJEKTID SHAREPOINT-IS

The screenshot shows a SharePoint site named 'ForgeTest' with a sidebar on the left containing navigation links: Home, Conversations, Documents, Notebook, Pages, **ForgeViewer**, Forge Items, Site contents, Recycle bin, and Edit. The main content area is titled 'Forge Viewer kasutamine ehitussektoris' and features logos for 'Digitaalehituse klaster', 'usesoft', and 'EAS'. Below the title is a table with three columns: file name, project name, and a long alphanumeric ID.

File Name	Project Name	ID
11310_PP_asend.dwg	Useprojekt	dXJuOmFkc2sud2lwcHJvZDpmcy5maWxlOnZmLjZCdDNTYxMVDNhbTlTa2xZejh2X1E/dmVyc2lvbj0x
17160-0008_Dterminal_EK.ifc	Useprojekt	dXJuOmFkc2sud2lwcHJvZDpmcy5maWxlOnZmLjhlLVBB5jBZU1ZXSDdiNUc2V3ozT2c/dmVyc2lvbj0x
ADV-ARC2.rvt	Useprojekt	dXJuOmFkc2sud2lwcHJvZDpmcy5maWxlOnZmLjcxS1hyWHJmUnhtZ05CaHpnYWtmekE/dmVyc2lvbj0x
ADV-STR2.rvt	Useprojekt	dXJuOmFkc2sud2lwcHJvZDpmcy5maWxlOnZmLnJ4S25vbJFsU1I2YnhFYm92SDRzZ3c/dmVyc2lvbj0x
AR_Technical_school-current_m.rvt	Useprojekt	dXJuOmFkc2sud2lwcHJvZDpmcy5maWxlOnZmLnPkZm9icE5yU2ctSE5DX2xtZlJUSUkE/dmVyc2lvbj0x
EK_rvt_advanced_sample_project.rvt	Useprojekt	dXJuOmFkc2sud2lwcHJvZDpmcy5maWxlOnZmLjZCdDNTYxMVDNhbTlTa2xZejh2X1E/dmVyc2lvbj0x

Below the table is a 3D model of a building structure. A 'Model' panel is open on the right, showing a search bar and a list of model elements with toggle icons:

- Structural Columns
 - M_Concrete-Round-Column
 - UC-Universal Columns-Column
- Walls
- Structural Framing
- Floors
- Structural Stiffeners
- Structural Foundations
- Structural Area Reinforcement

At the bottom of the 3D view is a toolbar with icons for navigation and manipulation.

ACC MUDELID JA PROJEKTID SHAREPOINT-IS

SharePoint

Search this site

ForgeTest

Private group ☆ Not following 4 members

Edit

Home

Conversations

Documents

Notebook

Pages

ForgeViewer

Forge Items

Site contents

Recycle bin

Edit

Forge Viewer kasutamine ehitussektoris

Digitaalehituse klaster

usesoft

European Union

European Regional Development Fund

ESPA

European Regional Development Fund

File Name	ACC Project	Urn
0951-EP-AR1-1korus-plaan.dwg	Useprojekt	dXJuOmFkc2sud2lwcHJvZDpmcy5maWxlOnZmLmhnNm9kQzZWVethRVBPCGdvNTJGNUE/dmVyc2lrbj0x
11310_PP_Pikiprofiil.dwg	Useprojekt	dXJuOmFkc2sud2lwcHJvZDpmcy5maWxlOnZmLnVhdIN2YVNsUWIPZHpCTTlWNG1pcXc/dmVyc2lrbj0x
11310_PP_asend.dwg	Useprojekt	dXJuOmFkc2sud2lwcHJvZDpmcy5maWxlOnZmLjZCdDNTYxMVDNhTITa2xZejh2X1E/dmVyc2lrbj0x
17160-0008_Dterminal_EK.ifc	Useprojekt	dXJuOmFkc2sud2lwcHJvZDpmcy5maWxlOnZmLjZVBB8jBZU1ZKSDDiNUc2V3ozT2c/dmVyc2lrbj0x
ADV-ARC2.rvt	Useprojekt	dXJuOmFkc2sud2lwcHJvZDpmcy5maWxlOnZmLjcxS1hyWHUmUnhtZ05CaHpnYWtmekE/dmVyc2lrbj0x

Model

Search

- Project (110109)
 - Site (110109)
 - Undefined (110109)
 - <No level> (110109)
 - IfcBeamType (7343)
 - IfcBuildingStorey (1)
 - IfcColumnType (4264)
 - IfcDiscreteAccessoryType
 - IfcFooting (130)

ACC MUDELID JA PROJEKTID SHAREPOINT-IS

SharePoint

Search this library

ForgeTest

Private group ☆ Not following 4 members

+ New Upload Edit in grid view Sync Add shortcut to OneDrive Export Automate Integrate

All Documents

Documents

Name	Modified	Modified By	ACC Project	ACC Link	Urn	+ Add column
10.1_renderdamine.0001.rvt	April 19	Leonid Lipin	Usesoft Forge projekt	https://acc.autodesk.com/...	dXJuOmFkc2s2ud2lwcHJvZDpncmcy5maWxlOnZmLjYb18nZ0NjVjVpenpDRHVZNGJBSGc/dmVyc2lvbj0x	
10.1_renderdamine.rvt	April 19	Leonid Lipin	Usesoft Forge projekt	https://acc.autodesk.com/...	dXJuOmFkc2s2ud2lwcHJvZDpncmcy5maWxlOnZmLnc4dWVybGZlZDpncmcy5maWxlOnZmLjYb18nZ0NjVjVpenpDRHVZNGJBSGc/dmVyc2lvbj0x	
17160-0008_Dterminal_EKjfc	April 20	Leonid Lipin	Useprojekt	https://acc.autodesk.com/...	dXJuOmFkc2s2ud2lwcHJvZDpncmcy5maWxlOnZmLjYb18nZ0NjVjVpenpDRHVZNGJBSGc/dmVyc2lvbj0x	
ADV-ARC2.rvt	April 19	Leonid Lipin	Useprojekt	https://acc.autodesk.com/...	dXJuOmFkc2s2ud2lwcHJvZDpncmcy5maWxlOnZmLjYb18nZ0NjVjVpenpDRHVZNGJBSGc/dmVyc2lvbj0x	
ADV-STR2.rvt	April 19	Leonid Lipin	Useprojekt	https://acc.autodesk.com/...	dXJuOmFkc2s2ud2lwcHJvZDpncmcy5maWxlOnZmLjYb18nZ0NjVjVpenpDRHVZNGJBSGc/dmVyc2lvbj0x	
AR_Technical_school-current_m.rvt	April 19	Leonid Lipin	Useprojekt	https://acc.autodesk.com/...	dXJuOmFkc2s2ud2lwcHJvZDpncmcy5maWxlOnZmLjYb18nZ0NjVjVpenpDRHVZNGJBSGc/dmVyc2lvbj0x	
bürohoone.rvt	April 19	Leonid Lipin	Usesoft Forge projekt	https://acc.autodesk.com/...	dXJuOmFkc2s2ud2lwcHJvZDpncmcy5maWxlOnZmLjYb18nZ0NjVjVpenpDRHVZNGJBSGc/dmVyc2lvbj0x	

Return to classic SharePoint

ACC MUDELID JA PROJEKTID TEAMS-IS

Forge Viewer kasutamine ehitussektoris

File Name	ACC Project
0951-EP-AR1-1korru-plaan.dwg	Useprojekt dXJuO
11310_PP_Pikiprofil.dwg	Useprojekt dXJuO
11310_PP_asend.dwg	Useprojekt dXJuO
17160-0008_Dterminal_EK.ifc	Useprojekt dXJuO

Forge Viewer kasutamine e

21:07

ForgeViewer
Power BI 2020 / Üldine

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